Federal Funds for Research and Development

Fiscal Years 1998, 1999, and 2000

Volume 48

Detailed Statistical Tables

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

National Science Foundation

April 2000

Federal Funds for Research and Development

Fiscal Years 1998, 1999, and 2000

Volume 48

Detailed Statistical Tables

Ronald L. Meeks, Project Officer

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

National Science Foundation

April 2000

National Science Foundation
Rita R. Colwell
Director

Directorate for Social, Behavioral, and Economic Sciences
Norman M. Bradburn
Director

Division of Science Resources Studies
Lynda T. Carlson — *Division Director*
Mary J. Frase — *Deputy Director*
Ronald S. Fecso
Chief Statistician

Research and Development Statistics Program
John E. Jankowski
Program Director

DIVISION OF SCIENCE RESOURCES STUDIES

The Division of Science Resources Studies (SRS) fulfills the legislative mandate of the National Science Foundation Act to ...

> *provide a central clearinghouse for the collection, interpretation, and analysis of data on scientific and engineering resources and to provide a source of information for policy formulation by other agencies of the Federal Government...*

To carry out this mandate, SRS designs, supports, and directs periodic surveys as well as a variety of other data collections and research projects. These surveys yield the materials for SRS staff to compile, analyze, and disseminate quantitative information about domestic and international resources devoted to science, engineering, and technology.

If you have any comments or suggestions about this or any other SRS product or report, we would like to hear from you. Please direct your comments to:

National Science Foundation
Division of Science Resources Studies
4201 Wilson Blvd., Suite 965
Arlington, VA 22230
Telephone: (703) 306-1780
Fax: (703) 306-0510
email: srsweb@nsf.gov

Suggested Citation
National Science Foundation, Division of Science Resources Studies, *Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000,* NSF 00-317, Project Officer, Ronald L. Meeks (Arlington, VA 2000).

April 2000

SRS data are available through the World Wide Web (http://www.nsf.gov/sbe/srs/stats.htm). For more information about obtaining reports, contact pubs@nsf.gov or call (301) 947-2722. For NSF's Telephonic Device for the Deaf, dial (703) 306-0090.

ACKNOWLEDGMENTS

The preparation of *Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000* was managed by Ronald L. Meeks, Senior Analyst, National Science Foundation (NSF), Division of Science Resources Studies (SRS), Research and Development Statistics Program (RDS), under the overall direction of John E. Jankowski, Program Director, RDS, with guidance and review provided by Mary J. Frase, Deputy Director, SRS, and Ronald S. Fecso, Chief Mathematical Statistician, SRS. The text was edited by Anne M. Houghton, Publications Manager of SRS, with assistance from Julia H. Harriston and Tanya R. Gore of the Publications Management Group. Quantum Research Corp. (QRC) of Bethesda, MD, under NSF contract number SRS-9732370, prepared the tables, general and technical notes, and report copy. QRC staff members who worked on this report were Gail H. Henry, Hilary E. Jones, Jody L. Kloczkowski, Keri R. Leibensperger, Rosemary Penna, Elizabeth H. Peto, Doorjodhan Singh, and George T. Wright III.

ERRATA SHEET

Revisions have been made to a few cells in the following tables.

1. Tables C-16, 27, 38, 49, 83, 83a, 83b, and 85 on performers of research and development (R&D) to correct the classification of one Federally funded research and development center (FFRDC). Previously Brookhaven National Laboratory was incorrectly identified as an academic FFRDC rather than as a nonprofit FFRDC. In addition to the entries for Brookhaven National Laboratory and the National Institute of Standards and Technology, the effects of the revision are limited to the U.S. and New York State totals for the two types of FFRDCs (but not the overall FFRDC total). FFRDC revisions amount to $27 thousand. This amount is equivalent to less than .01 percent of Brookhaven's $217 million R&D Federal total.

2. Tables C-82, 83, 83a, 83b, 84, 84a, 84b, 85 and 110a on distributions to States of R&D Federal support to correct the apportionment of National Science Foundation (NSF) research dollars for universities and colleges in the States of Alabama and Virginia. The overall NSF total dollars are unchanged, but total Federal support, as well as NSF support, for the two States has been corrected. University R&D revisions amount to $11 million. This amount is equivalent to less than 5 percent of Alabama's $225 million revised university R&D Federal total and of Virginia's $244 million revised university R&D Federal total. Total Federal R&D to all universities was $13.366 billion in FY 1998 and NSF total R&D support to universities was $1.875 billion.

The revised tables can be found on the SRS website at

http://www.nsf.gov/sbe/srs/nsf00317/start.htm

For an electronic copy or hard copy of the revised tables, please contact:

Ronald L. Meeks
Research and Development Statistics Program
Division of Science Resources Studies
National Science Foundation
4201 Wilson Boulevard, Suite 965
Arlington, VA 22230
Telephone: (703) 292-7787
Fax: (703) 292-9091
Internet: rmeeks@nsf.gov

CONTENTS

Section *Page*

GENERAL NOTES vii

A. TECHNICAL NOTES 1

B. FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTERS 13

C. DETAILED STATISTICAL TABLES 19

APPENDIX A. AGENCIES INCLUDED IN THIS SURVEY, VOLUMES 29–48 299

APPENDIX B. NOTES ASSOCIATED WITH AGENCIES INCLUDED IN THE SURVEY OF FEDERAL FUNDS FOR RESEARCH AND DEVELOPMENT: VOLUMES 29–48 313

GETTING INFORMATION ON THE WORLD WIDE WEB

GENERAL NOTES

Data in the tables of this publication were derived from the Survey of Federal Funds for Research and Development and cover fiscal years 1998–2000. They reflect research and development (R&D) funding levels as reported by 32 Federal agencies in February through September 1999. All agencies that were identified as conducting R&D programs were surveyed.

R&D totals in these 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.

Data for 1998 are actual, representing completed transactions. Data for 1999 and 2000 are estimated because they do not represent final actions. The Survey of Federal Funds for Research and Development was conducted during the third quarter of fiscal year 1999. The amounts reported for 1999 reflect congressional appropriation actions as of that period, as well as apportionment and reprogramming decisions as of that time. Data for 2000 represent administration budget proposals that had not been acted on. Authorization, appropriation, deferral, and apportionment actions that were completed after these data were collected will be reflected in later surveys of this series.

Accuracy of the data depends in part on the judgment of the respondent. Since 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 interaction with the National Science Foundation staff has considerably increased the reliability of the data.

Inquiries relating to *Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000,* Volume 48, should be directed to—

Ronald L. Meeks
Research and Development Statistics Program
Division of Science Resources Studies
National Science Foundation
4201 Wilson Boulevard, Suite 965
Arlington, VA 22230

Telephone: (703) 306-1772, ext. 6937
Fax: (703) 306-0508
Internet: rmeeks@nsf.gov

Note

For trend comparison, use only the historical data for fiscal years 1979–2000 contained in tables C-92 through C-111a in this Federal funds, Volume 48 series. These tables incorporate changes in prior-year data made by the agencies to reflect program reclassifications. Do not use data published earlier.

SECTION A.

TECHNICAL NOTES

SECTION A. TECHNICAL NOTES

SCOPE AND METHOD

During the period February through September 1999, a total of 32 Federal agencies and their subdivisions—92 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 1999. 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 research and development (R&D) activities.

Only those agencies that had obligations in the variables represented by a particular table appear in that table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with these agencies, refer to appendix B.

DEFINITIONS

The 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 fiscal years 1998, 1999, and 2000 appearing in *The Budget of the United States Government, Fiscal Year 2000.* 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 fiscal year 1998 and those estimated for fiscal years 1999 and 2000.

   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 or not 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. In addition to costs of specific R&D projects, the applicable overhead costs are also included. 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, fiscal year 1998 began on October 1, 1997, and ended September 30, 1998.

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, 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.

      In **basic research** the objective of the sponsoring agency is to gain more complete knowledge or understanding of the fundamental aspects of phenomena and of observable facts, without specific applications toward processes or products in mind.

      In **applied research** the objective of the sponsoring agency is to gain knowledge or understanding necessary for determining the means by which a recognized need may be met.

      Development is systematic use of the knowledge or understanding gained from research, directed toward the production of useful materials, devices, systems, or methods, including design and development of prototypes and processes. It excludes quality control, routine product testing, and production.

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

      Within DoD's research 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" (n.e.c.) 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 orientation 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** consist of five detailed fields: biological (excluding environmental); environmental biology; agricultural; medical; and life sciences, n.e.c. Examples of the disciplines under each of these fields are as follows:

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

   Environmental biology: ecosystem sciences; evolutionary biology; limnology; physiological ecology; population and biotic community ecology; population biology; systematics; other environmental biology, n.e.c.

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

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

   Life sciences, n.e.c.

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, n.e.c. Examples of the disciplines under each of these fields are as follows:

   Biological aspects: animal behavior; clinical psychology; comparative psychology; ethology; experimental psychology

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

   Psychological sciences, n.e.c.

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, n.e.c. 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; physical

   Physics: acoustics; atomic and molecular; condensed matter; elementary particle; nuclear structure; optics; plasma

   Physical sciences, n.e.c.

d. **Environmental sciences** (terrestrial and extraterrestrial) are, with one exception, concerned with the gross nonbiological properties of the areas of the solar system that directly or indirectly affect human survival and welfare. The one exception is that 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, n.e.c. Examples of disciplines under each of these fields are as follows:

Atmospheric sciences: aeronomy; extraterrestrial atmospheres; meteorology; solar; 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; soil sciences

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

Environmental sciences, n.e.c.

e. **Mathematics and computer sciences** employ logical reasoning with the aid of symbols and are concerned with the development of methods of operation employing 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, n.e.c.

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; and engineering, n.e.c. Examples of disciplines under each of these fields are as follows:

Aeronautical: aerodynamics

Astronautical: aerospace; space technology

Chemical: petroleum; petroleum refining; process

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

Electrical: communication; electronic; power

Mechanical: engineering mechanics

Metallurgy and materials: ceramic; mining; textile; welding

Engineering, n.e.c.: agricultural; bioengineering; biomedical; industrial and management; nuclear; ocean; systems

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, n.e.c. Examples of disciplines under the fields of social science are as follows:

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

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

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; complex organizations; culture and social structure; demography; group interactions; social problems and social welfare; sociological theory

Social sciences, n.e.c.: 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, n.e.c.:** 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 represent 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 so 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 equipment, essentially of an "off-the-shelf" nature, that are procured for use in intramural R&D. For example, the purchase from an extramural source of an operational launch vehicle (i.e., one that has gone beyond the development or prototype stage) that is 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 as part of the costs of intramural performance and not as part of the costs of extramural performance.

   Extramural performers are identified as follows:

   i. **Industrial firms:** Organizations that may legally distribute net earnings to individuals or to other organizations.

   ii. **Universities and colleges:** Institutions of higher education in the United States that offer at least 1 year of college-level study leading toward a degree. Included are colleges of liberal arts; schools of arts and sciences; professional schools, as in 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 nonprofit 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; and

(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 under this sector and no other.

vi. **Foreign performers:** Foreign citizens, foreign organizations, or foreign governments, as well as international organizations (such as the North Atlantic Treaty Organization (NATO), United Nations Educational, Scientific, and Cultural Organization (UNESCO), and World Health Organization (WHO)), performing R&D work abroad financed by the Federal Government. Excluded 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 is made in the case of U.S. citizens performing R&D abroad under special foreign currency funds; these activities are included under "Foreign performers." Foreign scientists performing in the United States are excluded, however.

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 participate in the portion of the survey covering the funding of research at universities and colleges by detailed field of science. These six agencies represent approximately 96 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; the National Aeronautics and Space Administration (NASA); and the National Science Foundation (NSF).

8. **Geographic distribution of 1998 R&D obligations**

   a. Only the 10 largest R&D funding agencies participate in 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 1998. The respondents are the Departments of Agriculture, Commerce, Energy, Defense, Health and Human Services, the Interior, and Transportation; the Environmental Protection Agency; NASA; and NSF.

   b. Actual fiscal year 1998 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 office abroad where the headquarters of the U.S. primary contractor, grantee, or intramural organization was located.

   c. Obligations were reported for R&D as a combined amount.

   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 2 years of the previous report, in this case fiscal years 1998 and 1999. 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 requires the agencies to provide revised prior-year data to maintain consistency and comparability with the most recent 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 (FYs 1990–1992) survey cycle, the Department of Defense (DoD) has reported research obligations separate from the development obligations for Table A, *Obligations for research and development, by State and performer*. (Tables A1, *Obligations for research, by State and performer,* and A2, *Obligations for development, by State and performer,* were created for DoD to complete in place of Table A.) 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 non-academic laboratories that are separate from the universities' academic departments where university research is typically performed.

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

During the Volume 44 (FYs 1994–1996) 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, Jr., 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 FYs 1992–1996, NSF learned from survey respondents that there were certain Federal funds survey data 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.

Prior to the publication of the Volume 43 (FYs 1993–1995) edition of the Detailed Statistical Tables, NSF decided to remove 54 tables from the document 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 outyears' detailed field of S&E lines on the survey instrument beginning with the Volume 46 (FYs 1996–1998) 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 prior to publication of the Volume 43 edition of the Detailed Statistical Tables. These tables have been reinstated since Volume 46.

Prior to the Volume 48 survey cycle, the National Science Foundation's Division of Science Resources Studies 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.

LIMITATIONS OF THE DATA

Funds for research and development were reported on a 3-year basis comparable with the 2000 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 to the Office of Management and Budget for the 2000 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.

SECTION B.

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) included in the Federal funds survey for fiscal years 1998–2000. The list is arranged by sponsoring agency and administering organization. Respondents reported under the FFRDC category those funds obligated to centers identified on this list.

Federally funded research and development centers, by agency and type of administration

Sponsoring agency	Administered by universities and colleges[1]	Administered by other nonprofit institutions[2]	Administered by industrial firms
DEPARTMENT OF DEFENSE: Office of the Secretary of Defense[3]		Institute for Defense Analyses Studies and Analyses FFRDC (Institute for Defense Analyses), Alexandria, VA Logistics Management Institute (Logistics Management Institute), McLean, VA[4] National Defense Research Institute (RAND Corp.[5]), Santa Monica, CA C3I Federally Funded Research and Development Center (MITRE Corp.[6]), Bedford, MA, and McLean, VA	
Defense Advanced Research Projects Agency	Software Engineering Institute[3] (Carnegie Mellon University), Pittsburgh, PA		
National Security Agency		Institute for Defense Analyses Communications and Computing Federally Funded Research and Development Center[7] (Institute for Defense Analyses), Alexandria, VA	
Department of the Navy		Center for Naval Analyses (The CNA Corp.), Alexandria, VA	
Department of the Air Force	Lincoln Laboratory (Massachusetts Institute of Technology), Lexington, MA	Aerospace Federally Funded Research and Development Center (The Aerospace Corp.), El Segundo, CA Project Air Force (RAND Corp.[5]), Santa Monica, CA	
Department of the Army[8]		Arroyo Center (RAND Corp.[5]), Santa Monica, CA	
DEPARTMENT OF ENERGY[9]	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	Brookhaven National Laboratory[10] (Associated Universities, Inc.), Upton, Long Island, NY National Renewable Energy Laboratory[11] (Midwest Research Institute), Golden, CO Pacific Northwest National Laboratory (Battelle Memorial Institute), Richland, WA	Idaho National Engineering and Environmental Laboratory (Lockheed Martin Idaho Technologies Company), Idaho Falls, ID Oak Ridge National Laboratory (Lockheed Martin Energy Research Corp.), Oak Ridge, TN Sandia National Laboratories (Sandia Corp., a subsidiary of Lockheed Martin Corp.), Albuquerque, NM Savannah River Technology Center (Westinghouse Savannah River Co.), Aiken, SC

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

Federally funded research and development centers, by agency and type of administration—Continued			
Sponsoring agency	**Administered by universities and colleges[1]**	**Administered by other nonprofit institutions[2]**	**Administered by industrial firms**
DEPARTMENT OF ENERGY, continued	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 Oak Ridge Institute for Science and Education (Oak Ridge Associated Universities, Inc.), Oak Ridge, TN Princeton Plasma Physics Laboratory (Princeton University), Princeton, NJ Stanford Linear Accelerator Center (Leland Stanford Junior University), Stanford, CA Thomas Jefferson National Accelerator Facility (Southeastern Universities Research Association, Inc.), Newport News, VA [12]		
DEPARTMENT OF HEALTH AND HUMAN SERVICES: National Institutes of Health			NCI Frederick Cancer Research and Development Center (Science Applications International Corp.; Advanced BioScience Laboratories, Inc.; Charles River Laboratories, Inc.; Data Management Services, Inc.), Frederick, MD
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	Jet Propulsion Laboratory (California Institute of Technology), Pasadena, CA		
NATIONAL SCIENCE FOUNDATION	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[13] (Association of Universities for Research in Astronomy, Inc.), Tucson, AZ National Radio Astronomy Observatory (Associated Universities, Inc.), Green Bank, WV	Critical Technologies Institute (RAND Corp.[5]), Washington, DC	

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

Federally funded research and development centers, by agency and type of administration—Continued

Sponsoring agency	Administered by universities and colleges[1]	Administered by other nonprofit institutions[2]	Administered by industrial firms
NUCLEAR REGULATORY COMMISSION		Center for Nuclear Waste Regulatory Analyses (Southwest Research Institute), San Antonio, TX	
DEPARTMENT OF TRANSPORTATION:			
Federal Aviation Administration		Center for Advanced Aviation System Development (MITRE Corp.[5]), McLean, VA	
DEPARTMENT OF THE TREASURY:			
Internal Revenue Service		Tax Systems Modernization Institute (IIT Research Institute), Lanham, MD	

[1] Includes university consortia
[2] That is, other than universities and colleges
[3] In June 1997, the Office of the Secretary of Defense, not DARPA, became the sponsor of the Software Engineering Institute.
[4] Logistics Management Institute moved from Bethesda, MD, to McLean, VA, in May 1994.
[5] The following portions of the Rand Corp. are FFRDCs: National Defense Research Institute (formerly Defense/Office of the Joint Chiefs of Staff), Project Air Force, the Arroyo Center, and the Critical Technologies Institute. All other agency support to RAND is reported under "other nonprofit institutions excluding FFRDCs."
[6] Only the C3I Federally Funded Research and Development Center and the Center for Advanced Aviation System Development parts of the MITRE Corp. are FFRDCs. All other agency support to MITRE is reported under "other nonprofit institutions excluding FFRDCs."
[7] Although the Institute for Defense Analyses Communications and Computing FFRDC has been in existence since 1956, the Department of Defense added it to the Master Government List of FFRDCs for the first time in October 1995.
[8] The Department of the Army decertified the Institute for Advanced Technology (University of Texas), Austin, TX, as an FFRDC in November 1993.
[9] The Department of Energy decertified Bettis Atomic Power Laboratory, Hanford Engineering Development Laboratory, and Knolls Atomic Power Laboratory as FFRDCs in October/November 1992. The Department of Energy removed from the Master Government List of FFRDCs (1) the Energy Technology Engineering Center in November 1995 and (2) the Inhalation Toxicology Research Institute in May 1996.
[10] On March 1, 1998, Brookhaven National Laboratory acquired a new nonprofit administrator (Brookhaven Science Associates, Inc.). The previous administrator was a university consortium.
[11] In September 1991 the name was changed from Solar Energy Research Institute.
[12] In May 1996 the name was changed from Continuous Electron Beam Accelerator Facility.
[13] Since February 1984 this center has included three former FFRDCs: Cerro Tololo Inter-American Observatory, Kitt Peak National Observatory, and the National Solar Observatory (formerly Sacramento Peak Observatory).

SOURCE: National Science Foundation/Division of Science Resources Studies
Updates of this list and an annotated list of FFRDCs are available at http://www.nsf.gov/sbe/srs/ffrdc/start.htm.

SECTION C.

DETAILED STATISTICAL TABLES

LIST OF TABLES

Table *Page*

RESEARCH, DEVELOPMENT, AND R&D PLANT

C-1. Federal obligations for research and development, by character of work, and R&D plant: fiscal years 1951–2000 31

C-2. Summary of Federal funds for research and development and for R&D plant: fiscal years 1998, 1999, and 2000 32

C-3. Federal funds for research and development and for R&D plant, by agency: fiscal years 1998, 1999, and 2000 34

RESEARCH AND DEVELOPMENT—AGENCY, CHARACTER OF WORK, AND PERFORMER

C-4. Federal funds for total research and development, by agency: fiscal years 1998, 1999, and 2000 37

C-5. Federal obligations for total research and development, by agency and character of work: fiscal year 1998 40

C-6. Preliminary Federal obligations for total research and development, by agency and character of work: fiscal year 1999 43

C-7. Preliminary Federal obligations for total research and development, by agency and character of work: fiscal year 2000 46

C-8. Federal obligations for total research and development, by agency and performer: fiscal year 1998 49

C-9. Preliminary Federal obligations for total research and development, by agency and performer: fiscal year 1999 52

C-10. Preliminary Federal obligations for total research and development, by agency and performer: fiscal year 2000 55

C-11. Federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: fiscal year 1998 58

C-12. Preliminary Federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: fiscal year 1999 59

C-13. Preliminary Federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: fiscal year 2000 60

Table *Page*

C-14. Federal obligations for research and development to federally funded research and development centers (FFRDCs), by individual FFRDC and agency: fiscal year 1998 61

C-15. Federal obligations for R&D plant to federally funded research and development centers (FFRDCs), by individual FFRDC and agency: fiscal year 1998 63

Total Research—Agency, Performer, and Field of Science and Engineering

C-16. Federal obligations for research, by agency and performer: fiscal year 1998 64

C-17. Preliminary Federal obligations for research, by agency and performer: fiscal year 1999 67

C-18. Preliminary Federal obligations for research, by agency and performer: fiscal year 2000 70

C-19. Federal obligations for research, by detailed field of science and engineering: fiscal years 1998, 1999, and 2000 73

C-20. Federal obligations for research, by agency and field of science and engineering: fiscal year 1998 74

C-21. Preliminary Federal obligations for research, by agency and field of science and engineering: fiscal year 1999 77

C-22. Preliminary Federal obligations for research, by agency and field of science and engineering: fiscal year 2000 80

C-23. Federal obligations for research in psychology and life sciences, by agency and detailed field of science: fiscal year 1998 83

C-24. Federal obligations for research in physical and environmental sciences, by agency and detailed field of science: fiscal year 1998 85

C-25. Federal obligations for research in engineering, by agency and detailed field of engineering: fiscal year 1998 87

C-26. Federal obligations for research in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1998 89

Basic Research—Agency, Performer, and Field of Science and Engineering

C-27. Federal obligations for basic research, by agency and performer: fiscal year 1998 91

C-28. Preliminary Federal obligations for basic research, by agency and performer: fiscal year 1999 93

Table *Page*

C-29. Preliminary Federal obligations for basic research, by agency and performer: fiscal year 2000 95

C-30. Federal obligations for basic research, by detailed field of science and engineering: fiscal years 1998, 1999, and 2000 97

C-31. Federal obligations for basic research, by agency and field of science and engineering: fiscal year 1998 98

C-32. Preliminary Federal obligations for basic research, by agency and field of science and engineering: fiscal year 1999 100

C-33. Preliminary Federal obligations for basic research, by agency and field of science and engineering: fiscal year 2000 102

C-34. Federal obligations for basic research in psychology and life sciences, by agency and detailed field of science: fiscal year 1998 104

C-35. Federal obligations for basic research in physical and environmental sciences, by agency and detailed field of science: fiscal year 1998 105

C-36. Federal obligations for basic research in engineering, by agency and detailed field of engineering: fiscal year 1998 106

C-37. Federal obligations for basic research in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1998 107

Applied Research—Agency, Performer, and Field of Science and Engineering

C-38. Federal obligations for applied research, by agency and performer: fiscal year 1998 108

C-39. Preliminary Federal obligations for applied research, by agency and performer: fiscal year 1999 111

C-40. Preliminary Federal obligations for applied research, by agency and performer: fiscal year 2000 114

C-41. Federal obligations for applied research, by detailed field of science and engineering: fiscal years 1998, 1999, and 2000 117

C-42. Federal obligations for applied research, by agency and field of science and engineering: fiscal year 1998 118

C-43. Preliminary Federal obligations for applied research, by agency and field of science and engineering: fiscal year 1999 121

Table *Page*

C-44. Preliminary Federal obligations for applied research, by agency and field of science and engineering: fiscal year 2000 124

C-45. Federal obligations for applied research in psychology and life sciences, by agency and detailed field of science: fiscal year 1998 127

C-46. Federal obligations for applied research in physical and environmental sciences, by agency and detailed field of science: fiscal year 1998 129

C-47. Federal obligations for applied research in engineering, by agency and detailed field of engineering: fiscal year 1998 131

C-48. Federal obligations for applied research in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1998 133

Development—Agency and Performer

C-49. Federal obligations for development, by agency and performer: fiscal year 1998 136

C-50. Preliminary Federal obligations for development, by agency and performer: fiscal year 1999 139

C-51. Preliminary Federal obligations for development, by agency and performer: fiscal year 2000 142

R&D Plant—Agency and Performer

C-52. Federal funds for R&D plant, by agency: fiscal years 1998, 1999, and 2000 145

C-53. Federal obligations for R&D plant, by agency and performer of the research and development the plant supports: fiscal year 1998 146

C-54. Preliminary Federal obligations for R&D plant, by agency and performer of the research and development the plant supports: fiscal year 1999 147

C-55. Preliminary Federal obligations for R&D plant, by agency and performer of the research and development the plant supports: fiscal year 2000 148

Total Research Performed at Universities and Colleges—Agency and Field of Science and Engineering

C-56. Federal obligations for research performed at universities and colleges for selected agencies, by detailed field of science and engineering: fiscal years 1998, 1999, and 2000 149

C-57. Federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: fiscal year 1998 150

Table *Page*

C-58. Preliminary Federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: fiscal year 1999 151

C-59. Preliminary Federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: fiscal year 2000 152

C-60. Federal obligations for research performed at universities and colleges in psychology and life sciences, by selected agency and detailed field of science: fiscal year 1998 153

C-61. Federal obligations for research performed at universities and colleges in physical and environmental sciences, by selected agency and detailed field of science: fiscal year 1998 154

C-62. Federal obligations for research performed at universities and colleges in engineering, by selected agency and detailed field of engineering: fiscal year 1998 155

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 of science: fiscal year 1998 156

Basic Research Performed at Universities and Colleges—Agency and Field of Science and Engineering

C-64. Federal obligations for basic research performed at universities and colleges for selected agencies, by detailed field of science and engineering: fiscal years 1998, 1999, and 2000 157

C-65. Federal obligations for basic research performed at universities and colleges, by selected agency and field of science and engineering: fiscal year 1998 158

C-66. Preliminary Federal obligations for basic research performed at universities and colleges, by selected agency and field of science and engineering: fiscal year 1999 159

C-67. Preliminary Federal obligations for basic research performed at universities and colleges, by selected agency and field of science and engineering: fiscal year 2000 160

C-68. Federal obligations for basic research performed at universities and colleges in psychology and life sciences, by selected agency and detailed field of science: fiscal year 1998 161

C-69. Federal obligations for basic research performed at universities and colleges in physical and environmental sciences, by selected agency and detailed field of science: fiscal year 1998 162

C-70. Federal obligations for basic research performed at universities and colleges in engineering, by selected agency and detailed field of engineering: fiscal year 1998 163

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 of science: fiscal year 1998 164

Table *Page*

Applied Research Performed at Universities and Colleges—Agency and Field of Science and Engineering

C-72. Federal obligations for applied research performed at universities and colleges for selected agencies, by detailed field of science and engineering: fiscal years 1998, 1999, and 2000 165

C-73. Federal obligations for applied research performed at universities and colleges, by selected agency and field of science and engineering: fiscal year 1998 166

C-74. Preliminary Federal obligations for applied research performed at universities and colleges, by selected agency and field of science and engineering: fiscal year 1999 167

C-75. Preliminary Federal obligations for applied research performed at universities and colleges, by selected agency and field of science and engineering: fiscal year 2000 168

C-76. Federal obligations for applied research performed at universities and colleges in psychology and life sciences, by selected agency and detailed field of science: fiscal year 1998 169

C-77. Federal obligations for applied research performed at universities and colleges in physical and environmental sciences, by selected agency and detailed field of science: fiscal year 1998 170

C-78. Federal obligations for applied research performed at universities and colleges in engineering, by selected agency and detailed field of engineering: fiscal year 1998 171

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 of science: fiscal year 1998 172

Foreign Performers—Research and Development

C-80. Federal obligations for research and development to foreign performers, by region, country, and agency: fiscal year 1998 173

Foreign Performers—Basic Research

C-81. Federal obligations for basic research to foreign performers, by region, country, and agency: fiscal year 1998 175

Geographic Distribution—Research and Development and R&D Plant

C-82. Federal obligations for research and development and for R&D plant for selected agencies, by State: fiscal year 1998 177

Table *Page*

C-83. Federal obligations for research and development for selected agencies by State and performer: fiscal year 1998 178

C-83a. Percentage distribution of Federal obligations for research and development to each performer for selected agencies, by State: fiscal year 1998 180

C-83b. Percentage distribution of Federal obligations for research and development to each State for selected agencies, by performer: fiscal year 1998 182

C-84. Federal obligations for research and development, by State and selected agency: fiscal year 1998 184

C-84a. Percentage distribution of Federal obligations for research and development of each selected agency, by State: fiscal year 1998 186

C-84b. Percentage distribution of Federal obligations for research and development of each State, by selected agency: fiscal year 1998 188

C-85. Federal obligations for research and development, by State, selected agency, and performer: fiscal year 1998 190

C-86. Federal obligations for R&D plant for selected agencies, by State and category of performer supported: fiscal year 1998 204

C-87. Federal obligations for R&D plant, by State and selected agency: fiscal year 1998 206

Federal Intramural Personnel Costs

C-88. Federal obligations for total research and development to intramural performers for personnel costs, by agency: fiscal years 1998, 1999, and 2000 207

C-89. Federal obligations for total basic research to intramural performers for personnel costs, by agency: fiscal years 1998, 1999, and 2000 210

C-90. Federal obligations for total applied research to intramural performers for personnel costs, by agency: fiscal years 1998, 1999, and 2000 212

C-91. Federal obligations for total development to intramural performers for personnel costs, by agency: fiscal years 1998, 1999, and 2000 215

Historical Data—Outlays

C-92. Federal outlays for research and development and for R&D plant, by agency: fiscal years 1979–1989 218

C-92a. Federal outlays for research and development and for R&D plant, by agency: fiscal years 1990–2000 221

Table *Page*

C-93. Federal outlays for research and development, by agency: fiscal years 1979–1989 225

C-93a. Federal outlays for research and development, by agency: fiscal years 1990–2000 228

C-94. Federal outlays for R&D plant, by agency: fiscal years 1979–1989 232

C-94a. Federal outlays for R&D plant, by agency: fiscal years 1990–2000 234

Historical Data—Obligations

C-95. Federal obligations for research and development and for R&D plant, by agency: fiscal years 1979–1989 236

C-95a. Federal obligations for research and development and for R&D plant, by agency: fiscal years 1990–2000 239

C-96. Federal obligations for research and development, by agency: fiscal years 1979–1989 243

C-96a. Federal obligations for research and development, by agency: fiscal years 1990–2000 246

C-97. Federal obligations for R&D plant, by agency: fiscal years 1979–1989 250

C-97a. Federal obligations for R&D plant, by agency: fiscal years 1990–2000 252

C-98. Federal obligations for research, by agency: fiscal years 1979–1989 254

C-98a. Federal obligations for research, by agency: fiscal years 1990–2000 257

C-99. Federal obligations for basic research, by agency: fiscal years 1979–1989 260

C-99a. Federal obligations for basic research, by agency: fiscal years 1990–2000 262

C-100. Federal obligations for applied research, by agency: fiscal years 1979–1989 264

C-100a. Federal obligations for applied research, by agency: fiscal years 1990–2000 267

C-101. Federal obligations for development, by agency: fiscal years 1979–1989 270

C-101a. Federal obligations for development, by agency: fiscal years 1990–2000 273

C-102. Federal obligations for research and development, by performer: fiscal years 1979–1989 276

C-102a. Federal obligations for research and development, by performer: fiscal years 1990–2000 277

C-103. Federal obligations for research, by performer: fiscal years 1979–1989 278

C-103a. Federal obligations for research, by performer: fiscal years 1990–2000 279

Table *Page*

C-104. Federal obligations for basic research, by performer: fiscal years 1979–1989 280

C-104a. Federal obligations for basic research, by performer: fiscal years 1990–2000 281

C-105. Federal obligations for applied research, by performer: fiscal years 1979–1989 282

C-105a. Federal obligations for applied research, by performer: fiscal years 1990–2000 283

C-106. Federal obligations for development, by performer: fiscal years 1979–1989 284

C-106a. Federal obligations for development, by performer: fiscal years 1990–2000 285

C-107. Federal obligations for total research, by detailed field of science and engineering: fiscal years 1979–1989 286

C-107a. Federal obligations for total research, by detailed field of science and engineering: fiscal years 1990–2000 287

C-108. Federal obligations for basic research, by detailed field of science and engineering: fiscal years 1979–1989 288

C-108a. Federal obligations for basic research, by detailed field of science and engineering: fiscal years 1990–2000 289

C-109. Federal obligations for applied research, by detailed field of science and engineering: fiscal years 1979–1989 290

C-109a. Federal obligations for applied research, by detailed field of science and engineering: fiscal years 1990–2000 291

C-110. Federal obligations for research and development, for selected agencies, by State: fiscal years 1979–1989 292

C-110a. Federal obligations for research and development, for selected agencies, by State: fiscal years 1990–1998 293

C-111. Federal obligations for R&D plant for selected agencies, by State: fiscal years 1979–1989 295

C-111a. Federal obligations for R&D plant for selected agencies, by State: fiscal years 1990–1998 296

TABLE NOTES

- Because of rounding, detail may not add to totals.

- Dashes or asterisks appearing in lieu of figures indicate that the amounts are less than 50 thousand dollars or less than 0.5 percent.

- The abbreviation "FFRDCs" appearing in statistical tables refers to federally funded research and development centers.

- In tables showing extramural performers, obligations of the U.S. Department of Agriculture to agricultural experiment stations are included within obligations to universities and colleges.

- Defense agencies within the Department of Defense include the Ballistic Missile Defense Organization, the Defense Advanced Research Projects Agency, the Defense Information Systems Agency, the Defense Logistics Agency, the Defense Threat Reduction Agency, the Joint Staff, the Special Operations Command, and the Washington Headquarters Services.

- Data for only those agencies that had obligations in the variables represented by a particular table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in a particular table, refer to appendix B.

Table C-1. Federal obligations for research and development, by character of work, and R&D plant: fiscal years 1951-2000

[Dollars in thousands]

Fiscal years	Total	Total research and development	Research		Development	R&D plant
			Basic	Applied		
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	73,743,457	71,903,293	15,613,012	15,309,257	40,981,024	1,840,164
1999 (Preliminary)	77,650,094	75,351,321	17,366,858	16,454,828	41,529,635	2,298,773
2000 (Preliminary)	77,185,562	75,104,342	18,209,439	16,470,143	40,424,760	2,081,220

KEY: NA = Not applicable (indicates that the data collected for this table were not recorded at that level in that particular fiscal year)

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-2. Summary of Federal funds for research and development and for R&D plant: fiscal years 1998, 1999, and 2000

[In millions of dollars and percent change]

Item	1998	Preliminary			
		1999	Percent change 1998-1999	2000	Percent change 1999-2000
Total outlays for research and development and for R&D plant	$72,295.6	$75,412.6	4.3	$75,122.7	-0.4
Research and development	70,434.5	73,407.9	4.2	73,000.0	-.6
R&D plant	1,861.1	2,004.7	7.7	2,122.7	5.9
Total obligations for research and development and for R&D plant	73,743.5	77,650.1	5.3	77,185.6	-.6
Research and development, total	71,903.3	75,351.3	4.8	75,104.3	-.3
By performers:					
Intramural[1]	17,114.0	18,271.6	6.8	17,641.7	-3.4
Industrial firms	31,839.7	31,906.1	.2	31,640.0	-.8
FFRDCs administered by industrial firms	1,188.8	1,294.6	8.9	1,337.0	3.3
Universities and colleges	13,365.9	14,981.6	12.1	15,191.3	1.4
FFRDCs administered by universities and colleges	3,890.2	4,108.0	5.6	4,470.7	8.8
Other nonprofit institutions	3,155.1	3,477.4	10.2	3,472.9	-.1
FFRDCs administered by nonprofit institutions	603.0	656.4	8.9	670.5	2.2
State and local governments	447.5	414.1	-7.5	420.1	1.4
Foreign	299.1	241.6	-19.2	260.3	7.7
Research, total	30,922.3	33,821.7	9.4	34,679.6	2.5
By performers:					
Intramural[1]	7,964.7	8,440.1	6.0	8,775.7	4.0
Industrial firms	4,635.1	4,907.0	5.9	4,709.6	-4.0
FFRDCs administered by industrial firms	844.1	896.4	6.2	947.7	5.7
Universities and colleges	11,741.0	13,191.7	12.4	13,421.8	1.7
FFRDCs administered by universities and colleges	2,743.0	2,962.3	8.0	3,372.8	13.9
Other nonprofit institutions	2,425.2	2,729.8	12.6	2,761.6	1.2
FFRDCs administered by nonprofit institutions	214.5	245.5	14.5	222.8	-9.3
State and local governments	240.1	329.8	37.4	345.5	4.8
Foreign	114.5	119.0	3.9	122.0	2.5
By fields of science:					
Life sciences	13,557.6	15,385.4	13.5	15,561.7	1.1
Psychology	591.0	661.7	12.0	686.1	3.7
Physical sciences	4,209.7	4,456.5	5.9	4,719.3	5.9
Environmental sciences	3,062.0	3,171.1	3.6	3,209.0	1.2
Mathematics and computer sciences	1,836.8	2,008.0	9.3	2,131.1	6.1
Engineering	5,895.4	6,091.6	3.3	6,218.6	2.1
Social sciences	806.1	894.5	11.0	889.9	-.5
Other sciences, n.e.c.	963.7	1,152.9	19.6	1,263.8	9.6
Basic research, total	15,613.0	17,366.9	11.2	18,209.4	4.9
By performers:					
Intramural[1]	2,917.8	3,107.5	6.5	3,336.2	7.4
Industrial firms	1,119.7	1,292.5	15.4	1,439.6	11.4
FFRDCs administered by industrial firms	326.4	336.9	3.2	338.8	.6
Universities and colleges	7,952.2	8,931.6	12.3	9,226.9	3.3
FFRDCs administered by universities and colleges	1,642.3	1,807.2	10.0	1,969.4	9.0
Other nonprofit institutions	1,397.6	1,601.4	14.6	1,623.7	1.4
FFRDCs administered by nonprofit institutions	121.8	144.9	18.9	129.0	-10.9
State and local governments	84.9	89.3	5.2	87.8	-1.7
Foreign	50.4	55.6	10.4	58.0	4.3
By fields of science:					
Life sciences	7,853.4	8,990.4	14.5	9,182.9	2.1
Psychology	312.0	357.4	14.5	376.7	5.4
Physical sciences	2,941.4	3,198.0	8.7	3,418.5	6.9
Environmental sciences	1,528.7	1,641.7	7.4	1,795.2	9.4
Mathematics and computer sciences	705.5	754.7	7.0	839.5	11.2
Engineering	1,594.4	1,653.5	3.7	1,803.4	9.1
Social sciences	224.8	249.1	10.8	252.6	1.4
Other sciences, n.e.c.	452.7	522.2	15.3	540.6	3.5

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

Table C-2. Summary of Federal funds for research and development and for R&D plant: fiscal years 1998, 1999, and 2000

[In millions of dollars and percent change]

Item	1998	Preliminary			
		1999	Percent change 1998-1999	2000	Percent change 1999-2000
Applied research, total	$15,309.3	$16,454.8	7.5	$16,470.1	0.1
By performers:					
Intramural[1]	5,046.9	5,332.6	5.7	5,439.5	2.0
Industrial firms	3,515.4	3,614.5	2.8	3,270.0	-9.5
FFRDCs administered by industrial firms	517.7	559.5	8.1	608.8	8.8
Universities and colleges	3,788.9	4,260.1	12.4	4,194.9	-1.5
FFRDCs administered by universities and colleges	1,100.7	1,155.2	5.0	1,403.4	21.5
Other nonprofit institutions	1,027.7	1,128.4	9.8	1,137.9	.8
FFRDCs administered by nonprofit institutions	92.6	100.7	8.7	93.8	-6.8
State and local governments	155.2	240.5	55.0	257.8	7.2
Foreign	64.1	63.4	-1.2	64.0	1.0
By fields of science:					
Life sciences	5,704.1	6,395.0	12.1	6,378.8	-.3
Psychology	279.0	304.3	9.1	309.4	1.7
Physical sciences	1,268.3	1,258.5	-.8	1,300.9	3.4
Environmental sciences	1,533.2	1,529.5	-.2	1,413.7	-7.6
Mathematics and computer sciences	1,131.4	1,253.3	10.8	1,291.5	3.0
Engineering	4,301.0	4,438.1	3.2	4,415.2	-.5
Social sciences	581.3	645.4	11.0	637.3	-1.3
Other sciences, n.e.c.	510.9	630.7	23.4	723.2	14.7
Development, total	40,981.0	41,529.6	1.3	40,424.8	-2.7
By performers:					
Intramural[1]	9,149.3	9,831.5	7.5	8,866.0	-9.8
Industrial firms	27,204.6	26,999.1	-.8	26,930.3	-.3
FFRDCs administered by industrial firms	344.7	398.2	15.5	389.3	-2.2
Universities and colleges	1,624.8	1,789.9	10.2	1,769.4	-1.1
FFRDCs administered by universities and colleges	1,147.2	1,145.6	-.1	1,097.9	-4.2
Other nonprofit institutions	729.9	747.5	2.4	711.3	-4.8
FFRDCs administered by nonprofit institutions	388.5	410.8	5.7	447.8	9.0
State and local governments	207.4	84.3	-59.4	74.5	-11.6
Foreign	184.6	122.6	-33.6	138.3	12.8
R&D plant, total	1,840.2	2,298.8	24.9	2,081.2	-9.5
By performers supported:					
Intramural	475.3	717.4	51.0	476.6	-33.6
Industrial firms	487.7	570.8	17.0	516.6	-9.5
FFRDCs administered by industrial firms	45.6	172.3	278.0	248.9	44.4
Universities and colleges	139.5	157.1	12.6	147.3	-6.2
FFRDCs administered by universities and colleges	663.6	650.6	-2.0	668.2	2.7
Other nonprofit institutions	10.9	10.4	-3.9	10.2	-2.6
FFRDCs administered by nonprofit institutions	12.1	14.6	20.4	12.0	-18.2
State and local governments	5.5	5.5	.3	1.5	-72.6

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

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

KEY: FFRDCs = Federally funded research and development centers
n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-3. Federal funds for research and development and for R&D plant, by agency: fiscal years 1998, 1999, and 2000

[Dollars in millions]

Agency and subdivision	Obligations			Outlays		
	1998	Preliminary		1998	Preliminary	
		1999	2000		1999	2000
Total, all agencies	73,743.5	77,650.1	77,185.6	72,295.6	75,412.6	75,122.7
Departments:						
Department of Agriculture, total	1,530.8	1,758.0	1,709.0	1,538.6	1,657.0	1,655.1
Agricultural Marketing Service	4.7	4.7	5.0	4.2	4.8	5.0
Agricultural Research Service	844.2	948.7	962.1	782.1	891.2	918.9
Animal & Plant Health Inspection Service	20.5	20.0	20.0	20.5	20.0	20.0
Cooperative State Rsch, Ed, & Extension Svc	387.3	506.2	451.0	474.2	472.1	448.6
Economic Research Service	71.5	65.0	55.6	55.0	55.9	47.8
Food Safety Inspection Service	.2	.2	.2	.2	.2	.2
Foreign Agricultural Service	1.4	1.4	1.4	1.4	1.4	1.4
Forest Service	190.4	202.4	202.4	190.6	202.0	202.0
Grain Inspection Packers & Stockyards Admin	2.7	2.7	3.4	2.7	2.7	3.4
National Agricultural Statistics Service	3.3	3.2	3.2	3.3	3.2	3.2
Rural Business-Cooperative Service	4.4	3.5	4.5	4.4	3.5	4.5
Department of Commerce, total	996.9	1,197.0	1,162.5	1,063.5	1,093.2	1,087.2
Bureau of the Census	8.6	16.3	8.3	8.6	16.3	8.3
Economic Development Administration	.6	.6	.6	.6	.6	.6
National Institute of Standards & Technology	415.7	583.2	566.0	482.3	479.3	490.6
National Oceanic & Atmospheric Administration	546.4	572.8	561.5	546.5	572.8	561.5
Nat'l Telecommunications & Information Admin	25.5	24.2	26.3	25.5	24.2	26.3
Department of Defense, total	35,352.0	35,745.3	34,474.7	35,530.3	36,190.2	33,500.2
Department of the Air Force	13,865.2	13,570.9	14,382.3	14,246.2	13,972.6	13,344.9
Department of the Army, total	5,041.7	5,185.3	4,501.3	4,920.4	5,301.8	4,589.8
Department of the Army, Civil Functions	39.4	37.8	44.8	39.4	37.8	44.8
Department of the Army, Military Functions	5,002.2	5,147.4	4,456.5	4,881.0	5,264.0	4,545.0
Department of the Navy	8,190.8	8,740.7	8,225.7	8,038.1	8,659.1	8,230.4
Defense Agencies, total	7,981.9	7,980.0	7,086.8	8,047.4	7,968.7	7,055.2
Ballistic Missile Defense Organization	3,422.3	3,844.6	2,944.4	3,422.3	3,844.6	2,944.4
Defense Advanced Research Projects Agency	2,003.1	1,914.2	1,993.0	2,067.3	1,976.7	1,962.2
Defense Information Systems Agency	55.6	110.5	117.3	49.1	77.1	106.3
Defense Logistics Agency	122.3	71.9	37.2	56.0	63.6	52.7
Defense Threat Reduction Agency[1]	275.8	307.0	349.8	239.4	302.9	337.2
Joint Staff	53.9	161.2	49.1	53.9	161.2	49.1
Special Operations Command	142.7	207.3	191.9	183.0	170.4	190.0
Washington Headquarters Services	1,906.0	1,363.2	1,404.1	1,976.4	1,372.2	1,413.3
Operational Test & Evaluation, Director	30.3	31.8	25.4	27.8	37.0	26.4
Test & Evaluation, Deputy Under Sec of Defense	242.0	236.6	253.1	250.4	251.1	253.5
Department of Education	204.5	221.8	272.1	192.0	212.9	267.5
Department of Energy	6,600.9	7,347.3	7,458.4	6,652.9	7,224.9	7,657.0
Department of Health & Human Services, total	13,990.5	16,009.0	16,361.4	12,786.4	14,257.3	15,776.4
Administration on Aging	10.4	18.4	18.4	10.4	18.4	18.4
Administration for Children & Families	23.5	18.8	28.0	15.8	14.6	21.6
Agency for Health Care Policy & Research	146.5	171.0	206.3	77.0	101.0	90.0
Centers for Disease Control & Prevention	343.6	382.6	468.6	343.6	382.6	468.6
Food & Drug Administration	171.0	152.6	183.5	155.9	163.2	170.7
Health Care Financing Administration	51.2	50.0	55.0	51.3	50.0	55.0
Health Resources & Services Administration	13.8	13.8	13.9	13.8	13.8	13.9
National Institutes of Health	13,137.5	15,108.1	15,289.2	12,035.6	13,421.2	14,841.2
Office of the Secretary, total	17.0	17.7	18.5	7.0	16.4	17.0
Office of the Asst Sec, Planning & Evaluation	13.9	14.0	14.0	5.0	14.0	14.0
Office of Public Health & Science	3.1	3.7	4.5	2.0	2.4	3.0
Substance Abuse & Mental Health Svcs Admin[2]	76.0	76.0	80.0	76.0	76.0	80.0
Department of Housing & Urban Development	28.0	59.4	50.6	31.6	42.4	52.5

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

Table C-3. Federal funds for research and development and for R&D plant, by agency: fiscal years 1998, 1999, and 2000

[Dollars in millions]

Agency and subdivision	Obligations			Outlays		
	1998	Preliminary		1998	Preliminary	
		1999	2000		1999	2000
Department of the Interior, total	533.5	565.2	585.7	566.9	593.7	575.5
Bureau of Reclamation	8.8	8.1	9.9	8.8	8.1	9.9
Geological Survey	464.1	497.2	514.3	499.9	526.2	503.9
Minerals Management Service	30.8	30.2	29.7	28.4	29.7	29.9
National Park Service	29.7	29.7	31.8	29.7	29.7	31.8
Department of Justice, total	100.6	110.2	81.8	73.2	75.5	63.0
Bureau of Prisons	8.1	7.8	8.0	8.1	7.8	8.0
Federal Bureau of Investigation	35.8	36.2	36.2	35.8	36.2	36.2
Immigration & Naturalization Service	.0	.5	.5	.0	.5	.5
Office of Justice Programs	56.7	65.7	37.1	29.3	31.0	18.3
Department of Labor, total	27.8	26.7	25.9	25.2	23.7	27.3
Bureau of Labor Statistics	12.4	12.4	12.4	12.4	12.4	12.4
Employment & Training Administration	7.2	6.6	4.4	4.7	3.7	5.8
Occupational Safety & Health Administration	4.6	5.0	5.3	4.6	5.0	5.2
Office of the Secretary	.2	.2	.2	.2	.2	.2
Pension Benefit Guaranty Corporation	.6	.7	.7	.6	.7	.7
Pension & Welfare Benefits Administration	2.7	1.8	3.0	2.7	1.8	3.0
Department of State[3]	.9	1.0	1.0	.5	.6	.6
Department of Transportation, total	583.7	717.5	943.4	537.3	535.7	788.9
Coast Guard	20.7	18.2	22.9	20.1	21.6	21.6
Federal Aviation Administration	242.3	225.5	246.5	229.5	231.0	237.7
Federal Highway Administration	229.3	355.6	559.7	210.4	185.8	424.2
Federal Railroad Administration	22.6	26.2	24.4	23.0	28.7	30.7
Federal Transit Administration	17.6	22.2	19.2	10.2	14.5	14.1
National Highway Traffic Safety Admin	41.6	50.4	58.7	33.3	40.3	47.0
Office of the Secretary	3.4	9.6	4.5	3.7	4.5	5.3
Research & Special Programs Administration	6.3	9.7	7.5	7.2	9.2	8.2
Department of the Treasury, total	65.2	72.2	86.4	65.2	71.4	86.0
Bureau of Engraving & Printing	2.8	2.4	2.4	2.8	2.4	2.4
Internal Revenue Service	52.0	58.8	73.7	52.0	58.8	73.7
Office of Thrift Supervision	.7	.8	.9	.7	.8	.9
United States Customs Service	9.2	9.0	8.4	9.2	9.0	8.4
United States Mint	.1	.7	.5	.1	.0	.1
United States Secret Service	.5	.5	.6	.5	.5	.6
Department of Veterans Affairs	277.5	320.8	317.0	248.1	310.1	320.1
Other agencies:						
Appalachian Regional Commission	.7	.7	.8	.7	.7	.8
Consumer Product Safety Commission	.0	.1	1.3	-	.1	1.1
Environmental Protection Agency	637.2	661.9	644.9	524.0	594.0	651.0
Federal Communications Commission	3.0	4.2	2.7	3.0	4.2	2.7
Federal Trade Commission	1.1	1.1	1.4	1.1	1.1	1.4
General Services Administration	.0	-	.0	.0	.8	.0
International Development Cooperation Agency, total	212.0	209.3	194.1	212.0	209.3	194.1
Agency for International Development[4]	212.0	209.3	194.1	212.0	209.3	194.1
Library of Congress	1.5	2.1	1.8	1.6	2.0	1.8
National Aeronautics & Space Administration	9,918.0	9,669.4	9,695.2	9,741.0	9,749.0	9,562.0
National Archives & Records Administration	.1	.1	.1	.1	.1	.1
National Science Foundation	2,473.7	2,714.0	2,889.5	2,302.0	2,334.0	2,634.0
Nuclear Regulatory Commission	51.7	49.2	46.6	54.3	49.8	47.2
Smithsonian Institution	123.0	126.0	133.0	115.5	118.0	125.0
Social Security Administration	17.4	53.7	36.9	17.4	53.7	36.9
Tennessee Valley Authority	2.7	.0	.0	2.7	.0	.0

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

Table C-3. Federal funds for research and development and for R&D plant, by agency: fiscal years 1998, 1999, and 2000

[Dollars in millions]

Agency and subdivision	Obligations			Outlays		
	1998	Preliminary		1998	Preliminary	
		1999	2000		1999	2000
United States Arms Control & Disarmament Agency[3]	1.2	0.1	.0	1.2	0.1	.0
United States Information Agency	.3	.1	0.1	.2	.1	0.1
United States International Trade Commission	7.2	6.9	7.1	7.2	6.9	7.1

1 The Defense Threat Reduction Agency (DTRA) was established on October 1, 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.

2 Data for fiscal years 1998-2000 from the Substance Abuse & Mental Health Services Administration (SAMHSA) are estimates based on SAMHSA's obligations by program activity budget and previously reported funding for development.

3 Effective April 1, 1999, all functions and authorities of the United States Arms Control & Disarmament Agency were transferred to the Department of State.

4 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 (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-1996). More accurate data for AID will be reported in future volumes of this survey.

NOTES: Because of rounding, detail may not add to totals.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: - = Amount less than 50 thousand dollars

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-4. Federal funds for total research and development, by agency: fiscal years 1998, 1999, and 2000

[Dollars in millions]

Agency and subdivision	Obligations			Outlays		
	1998	Preliminary		1998	Preliminary	
		1999	2000		1999	2000
Total, all agencies	71,903.3	75,351.3	75,104.3	70,434.5	73,407.9	73,000.0
Departments:						
Department of Agriculture, total	1,441.0	1,637.2	1,597.7	1,379.5	1,496.6	1,514.1
Agricultural Marketing Service	4.7	4.7	5.0	4.2	4.8	5.0
Agricultural Research Service	757.9	832.9	855.9	687.1	775.4	808.1
Animal & Plant Health Inspection Service	20.5	20.0	20.0	20.5	20.0	20.0
Cooperative State Rsch, Ed, & Extension Svc	386.4	506.2	451.0	412.7	432.5	423.4
Economic Research Service	71.5	65.0	55.6	55.0	55.9	47.8
Food Safety Inspection Service	.2	.2	.2	.2	.2	.2
Foreign Agricultural Service	1.4	1.4	1.4	1.4	1.4	1.4
Forest Service	187.8	197.4	197.4	188.0	197.0	197.0
Grain Inspection Packers & Stockyards Admin	2.7	2.7	3.4	2.7	2.7	3.4
National Agricultural Statistics Service	3.3	3.2	3.2	3.3	3.2	3.2
Rural Business-Cooperative Service	4.4	3.5	4.5	4.4	3.5	4.5
Department of Commerce, total	948.6	1,044.6	1,026.0	994.1	1,052.1	1,015.7
Bureau of the Census	8.6	16.3	8.3	8.6	16.3	8.3
Economic Development Administration	.6	.6	.6	.6	.6	.6
National Institute of Standards & Technology	394.4	444.2	459.2	439.8	451.6	448.9
National Oceanic & Atmospheric Administration	519.5	559.4	531.7	519.6	559.4	531.7
Nat'l Telecommunications & Information Admin	25.5	24.2	26.3	25.5	24.2	26.3
Department of Defense, total	35,286.2	35,636.9	34,441.2	35,490.6	36,128.4	33,461.7
Department of the Air Force	13,839.1	13,523.7	14,360.2	14,242.5	13,968.5	13,342.5
Department of the Army, total	5,037.7	5,181.2	4,501.1	4,916.3	5,297.7	4,588.0
Department of the Army, Civil Functions	39.4	37.8	44.8	39.4	37.8	44.8
Department of the Army, Military Functions	4,998.3	5,143.4	4,456.3	4,876.9	5,259.9	4,543.2
Department of the Navy	8,156.3	8,704.9	8,214.6	8,015.2	8,631.5	8,199.4
Defense Agencies, total	7,980.8	7,958.7	7,086.8	8,038.4	7,942.6	7,051.9
Ballistic Missile Defense Organization	3,421.5	3,823.4	2,944.4	3,414.5	3,819.5	2,941.9
Defense Advanced Research Projects Agency	2,003.1	1,914.2	1,993.0	2,067.3	1,976.7	1,962.2
Defense Information Systems Agency	55.6	110.5	117.3	49.1	77.1	106.3
Defense Logistics Agency	122.1	71.7	37.2	55.8	63.5	52.7
Defense Threat Reduction Agency[1]	275.8	307.0	349.8	239.4	302.9	337.2
Joint Staff	53.9	161.2	49.1	53.9	161.2	49.1
Special Operations Command	142.7	207.3	191.9	183.0	170.4	190.0
Washington Headquarters Services	1,906.0	1,363.2	1,404.1	1,975.4	1,371.3	1,412.4
Operational Test & Evaluation, Director	30.3	31.8	25.4	27.8	37.0	26.4
Test & Evaluation, Deputy Under Sec of Defense	242.0	236.6	253.1	250.4	251.1	253.5
Department of Education	204.5	221.8	272.1	192.0	212.9	267.5
Department of Energy	5,873.8	6,499.2	6,518.2	5,876.7	6,390.0	6,716.9
Department of Health & Human Services, total	13,704.2	15,629.4	16,147.5	12,629.5	14,007.6	15,500.7
Administration on Aging	10.4	18.4	18.4	10.4	18.4	18.4
Administration for Children & Families	23.5	18.8	28.0	15.8	14.6	21.6
Agency for Health Care Policy & Research	146.5	171.0	206.3	77.0	101.0	90.0
Centers for Disease Control & Prevention	343.6	382.6	468.6	343.6	382.6	468.6
Food & Drug Administration	142.9	141.2	151.7	142.9	141.2	151.7
Health Care Financing Administration	51.2	50.0	55.0	51.3	50.0	55.0
Health Resources & Services Administration	12.9	13.0	13.1	12.9	13.0	13.1
National Institutes of Health	12,880.2	14,740.7	15,107.9	11,892.5	13,194.4	14,585.3
Office of the Secretary, total	17.0	17.7	18.5	7.0	16.4	17.0
Office of the Asst Sec, Planning & Evaluation	13.9	14.0	14.0	5.0	14.0	14.0
Office of Public Health & Science	3.1	3.7	4.5	2.0	2.4	3.0
Substance Abuse & Mental Health Svcs Admin[2]	76.0	76.0	80.0	76.0	76.0	80.0
Department of Housing & Urban Development	28.0	59.4	50.6	31.6	42.4	52.5

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

Table C-4. Federal funds for total research and development, by agency: fiscal years 1998, 1999, and 2000

[Dollars in millions]

Agency and subdivision	Obligations			Outlays		
	1998	Preliminary		1998	Preliminary	
		1999	2000		1999	2000
Department of the Interior, total	532.0	564.1	584.6	565.3	592.4	574.3
Bureau of Reclamation	8.8	8.1	9.9	8.8	8.1	9.9
Geological Survey	464.1	497.2	514.3	499.9	526.2	503.9
Minerals Management Service	29.3	29.1	28.6	26.8	28.4	28.7
National Park Service	29.7	29.7	31.8	29.7	29.7	31.8
Department of Justice, total	100.6	110.2	81.8	73.2	75.5	63.0
Bureau of Prisons	8.1	7.8	8.0	8.1	7.8	8.0
Federal Bureau of Investigation	35.8	36.2	36.2	35.8	36.2	36.2
Immigration & Naturalization Service	.0	.5	.5	.0	.5	.5
Office of Justice Programs	56.7	65.7	37.1	29.3	31.0	18.3
Department of Labor, total	27.8	26.7	25.9	25.2	23.7	27.3
Bureau of Labor Statistics	12.4	12.4	12.4	12.4	12.4	12.4
Employment & Training Administration	7.2	6.6	4.4	4.7	3.7	5.8
Occupational Safety & Health Administration	4.6	5.0	5.3	4.6	5.0	5.2
Office of the Secretary	.2	.2	.2	.2	.2	.2
Pension Benefit Guaranty Corporation	.6	.7	.7	.6	.7	.7
Pension & Welfare Benefits Administration	2.7	1.8	3.0	2.7	1.8	3.0
Department of State[3]	.9	1.0	1.0	.5	.6	.6
Department of Transportation, total	566.1	702.1	929.8	516.0	518.2	773.3
Coast Guard	20.4	18.0	22.7	19.9	21.3	21.4
Federal Aviation Administration	228.0	211.3	233.7	210.5	215.0	223.5
Federal Highway Administration	227.3	355.6	559.7	209.3	185.3	423.4
Federal Railroad Administration	21.5	25.4	23.9	22.0	28.0	30.3
Federal Transit Administration	17.6	22.2	19.2	10.2	14.5	14.1
National Highway Traffic Safety Admin	41.6	50.4	58.7	33.3	40.3	47.0
Office of the Secretary	3.4	9.6	4.5	3.7	4.5	5.3
Research & Special Programs Administration	6.3	9.7	7.5	7.2	9.2	8.2
Department of the Treasury, total	65.1	72.0	86.3	65.1	71.3	85.9
Bureau of Engraving & Printing	2.8	2.4	2.4	2.8	2.4	2.4
Internal Revenue Service	52.0	58.8	73.7	52.0	58.8	73.7
Office of Thrift Supervision	.7	.8	.9	.7	.8	.9
United States Customs Service	9.0	8.8	8.3	9.0	8.8	8.3
United States Mint	.1	.7	.5	.1	.0	.1
United States Secret Service	.5	.5	.6	.5	.5	.6
Department of Veterans Affairs	277.1	320.5	316.0	246.9	304.0	314.9
Other agencies:						
Appalachian Regional Commission	.7	.7	.8	.7	.7	.8
Consumer Product Safety Commission	.0	.1	1.3	-	.1	1.1
Environmental Protection Agency	571.2	555.9	534.9	503.0	505.0	537.0
Federal Communications Commission	3.0	4.2	2.7	3.0	4.2	2.7
Federal Trade Commission	1.1	1.1	1.4	1.1	1.1	1.4
International Development Cooperation Agency, total	212.0	209.3	194.1	212.0	209.3	194.1
Agency for International Development[4]	212.0	209.3	194.1	212.0	209.3	194.1
Library of Congress	1.5	2.1	1.8	1.6	2.0	1.8
National Aeronautics & Space Administration	9,568.0	9,308.0	9,370.3	9,421.0	9,419.0	9,242.0
National Archives & Records Administration	.1	.1	.1	.1	.1	.1
National Science Foundation	2,289.3	2,512.9	2,698.3	2,010.0	2,125.0	2,437.0
Nuclear Regulatory Commission	51.7	49.2	46.6	54.3	49.8	47.2
Smithsonian Institution	120.0	122.0	129.0	113.0	115.0	122.0
Social Security Administration	17.4	53.7	36.9	17.4	53.7	36.9
Tennessee Valley Authority	2.7	.0	.0	2.7	.0	.0

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

Table C-4. Federal funds for total research and development, by agency: fiscal years 1998, 1999, and 2000

[Dollars in millions]

Agency and subdivision	Obligations			Outlays		
	1998	Preliminary		1998	Preliminary	
		1999	2000		1999	2000
United States Arms Control & Disarmament Agency[3]	1.2	0.1	.0	1.2	0.1	.0
United States Information Agency	.3	.1	0.1	.2	.1	0.1
United States International Trade Commission	7.2	6.9	7.1	7.2	6.9	7.1

1 The Defense Threat Reduction Agency (DTRA) was established on October 1, 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.

2 Data for fiscal years 1998-2000 from the Substance Abuse & Mental Health Services Administration (SAMHSA) are estimates based on SAMHSA's obligations by program activity budget and previously reported funding for development.

3 Effective April 1, 1999, all functions and authorities of the United States Arms Control & Disarmament Agency were transferred to the Department of State.

4 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 (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-1996). More accurate data for AID will be reported in future volumes of this survey.

NOTES: Because of rounding, detail may not add to totals.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: - = Amount less than 50 thousand dollars

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-5. Federal obligations for total research and development, by agency and character of work: fiscal year 1998

[Dollars in thousands]

Agency and subdivision	Total	Research		Development		
		Basic	Applied	Total	Advanced technology	Major systems
Total, all agencies	71,903,293	15,613,012	15,309,257	40,981,024	NA	NA
Departments:						
Department of Agriculture, total	1,441,046	603,763	730,142	107,141	NA	NA
Agricultural Marketing Service	4,721	0	4,018	703	NA	NA
Agricultural Research Service	757,945	401,711	288,019	68,215	NA	NA
Animal & Plant Health Inspection Service	20,462	0	0	20,462	NA	NA
Cooperative State Rsch, Ed, & Extension Svc	386,445	163,451	222,994	0	NA	NA
Economic Research Service	71,547	7,155	64,392	0	NA	NA
Food Safety Inspection Service	190	125	0	65	NA	NA
Foreign Agricultural Service	1,422	924	498	0	NA	NA
Forest Service	187,800	29,300	143,000	15,500	NA	NA
Grain Inspection Packers & Stockyards Admin	2,745	0	549	2,196	NA	NA
National Agricultural Statistics Service	3,333	1,097	2,236	0	NA	NA
Rural Business-Cooperative Service	4,436	0	4,436	0	NA	NA
Department of Commerce, total	948,578	39,593	767,400	141,585	NA	NA
Bureau of the Census	8,562	550	4,616	3,396	NA	NA
Economic Development Administration	557	0	557	0	NA	NA
National Institute of Standards & Technology	394,367	38,636	266,740	88,991	NA	NA
National Oceanic & Atmospheric Administration	519,544	407	491,721	27,416	NA	NA
Nat'l Telecommunications & Information Admin	25,548	0	3,766	21,782	NA	NA
Department of Defense, total	35,286,223	1,030,839	2,939,052	31,316,332	NA	NA
Department of the Air Force	13,839,050	185,564	551,315	13,102,171	1,431,316	11,670,855
Department of the Army, total	5,037,735	181,955	635,886	4,219,894	NA	NA
Department of the Army, Civil Functions[1]	39,446	4,861	18,814	15,771	NA	NA
Department of the Army, Military Functions	4,998,289	177,094	617,072	4,204,123	682,478	3,521,645
Department of the Navy	8,156,275	328,975	493,183	7,334,117	515,810	6,818,307
Defense Agencies, total	7,980,779	334,345	1,258,668	6,387,766	2,879,206	3,508,560
Ballistic Missile Defense Organization	3,421,454	0	126,801	3,294,653	996,052	2,298,601
Defense Advanced Research Projects Agency	2,003,109	78,259	778,009	1,146,841	1,061,711	85,130
Defense Information Systems Agency	55,638	0	1,094	54,544	0	54,544
Defense Logistics Agency	122,138	0	8,016	114,122	105,704	8,418
Defense Threat Reduction Agency[2]	275,777	0	205,073	70,704	70,704	0
Joint Staff	53,945	0	0	53,945	53,945	0
Special Operations Command	142,692	0	15,696	126,996	52,796	74,200
Washington Headquarters Services	1,906,026	256,086	123,979	1,525,961	538,294	987,667
Operational Test & Evaluation, Director	30,339	0	0	30,339	0	30,339
Test & Evaluation, Deputy Under Sec of Defense	242,045	0	0	242,045	0	242,045
Department of Education	204,455	2,063	146,679	55,713	NA	NA
Department of Energy	5,873,804	2,028,805	1,758,706	2,086,293	NA	NA
Department of Health & Human Services, total	13,704,232	7,355,363	4,663,111	1,685,758	NA	NA
Administration on Aging	10,426	0	2,435	7,991	NA	NA
Administration for Children & Families	23,456	0	23,456	0	NA	NA
Agency for Health Care Policy & Research	146,498	0	138,798	7,700	NA	NA
Centers for Disease Control & Prevention	343,559	0	343,559	0	NA	NA
Food & Drug Administration	142,937	0	142,937	0	NA	NA
Health Care Financing Administration	51,236	0	51,236	0	NA	NA
Health Resources & Services Administration	12,925	1,050	11,875	0	NA	NA
National Institutes of Health	12,880,203	7,354,313	3,934,867	1,591,023	NA	NA
Office of the Secretary, total	17,002	0	13,948	3,054	NA	NA
Off of the Asst Sec, Planning & Evaluation	13,948	0	13,948	0	NA	NA
Office of Public Health & Science	3,054	0	0	3,054	NA	NA
Substance Abuse & Mental Health Svcs Admin[3]	75,990	0	0	75,990	NA	NA
Department of Housing & Urban Development	28,007	0	9,211	18,796	NA	NA

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

Table C-5. Federal obligations for total research and development, by agency and character of work: fiscal year 1998

[Dollars in thousands]

Agency and subdivision	Total	Research		Development		
		Basic	Applied	Total	Advanced technology	Major systems
Department of the Interior, total	531,969	48,733	454,119	29,117	NA	NA
Bureau of Reclamation	8,835	0	6,626	2,209	NA	NA
Geological Survey	464,106	48,187	389,011	26,908	NA	NA
Minerals Management Service	29,286	0	29,286	0	NA	NA
National Park Service	29,742	546	29,196	0	NA	NA
Department of Justice, total	100,578	16,000	26,005	58,573	NA	NA
Bureau of Prisons	8,110	0	4,326	3,784	NA	NA
Federal Bureau of Investigation	35,812	0	0	35,812	NA	NA
Office of Justice Programs	56,656	16,000	21,679	18,977	NA	NA
Department of Labor, total	27,761	11,100	10,979	5,682	NA	NA
Bureau of Labor Statistics	12,400	11,100	1,300	0	NA	NA
Employment & Training Administration	7,222	0	2,197	5,025	NA	NA
Occupational Safety & Health Administration	4,592	0	4,592	0	NA	NA
Office of the Secretary	200	0	95	105	NA	NA
Pension Benefit Guaranty Corporation	607	0	55	552	NA	NA
Pension & Welfare Benefits Administration	2,740	0	2,740	0	NA	NA
Department of State[4]	852	0	852	0	NA	NA
Department of Transportation, total	566,117	34,971	366,075	165,071	NA	NA
Coast Guard	20,439	0	5,110	15,329	NA	NA
Federal Aviation Administration	227,981	0	151,550	76,431	NA	NA
Federal Highway Administration	227,269	34,971	134,634	57,664	NA	NA
Federal Railroad Administration	21,503	0	21,191	312	NA	NA
Federal Transit Administration	17,583	0	7,400	10,183	NA	NA
National Highway Traffic Safety Admin	41,621	0	41,621	0	NA	NA
Office of the Secretary	3,433	0	0	3,433	NA	NA
Research & Special Programs Administration	6,288	0	4,569	1,719	NA	NA
Department of the Treasury, total	65,068	34	52,519	12,515	NA	NA
Bureau of Engraving & Printing	2,799	34	2,642	123	NA	NA
Internal Revenue Service	52,028	0	47,942	4,086	NA	NA
Office of Thrift Supervision	684	0	684	0	NA	NA
United States Customs Service	9,026	0	776	8,250	NA	NA
United States Mint	56	0	0	56	NA	NA
United States Secret Service	475	0	475	0	NA	NA
Department of Veterans Affairs	277,094	120,015	149,051	8,028	NA	NA
Other agencies:						
Appalachian Regional Commission	680	0	680	0	NA	NA
Environmental Protection Agency	571,200	57,400	419,800	94,000	NA	NA
Federal Communications Commission	3,025	0	3,025	0	NA	NA
Federal Trade Commission	1,144	0	1,144	0	NA	NA
International Development Cooperation Agency, total	212,032	1,815	171,108	39,109	NA	NA
Agency for International Development[5]	212,032	1,815	171,108	39,109	NA	NA
Library of Congress	1,542	0	455	1,087	NA	NA
National Aeronautics & Space Administration	9,568,029	2,023,793	2,389,858	5,154,378	NA	NA
National Archives & Records Administration	120	0	120	0	NA	NA
National Science Foundation	2,289,337	2,118,677	170,660	0	NA	NA
Nuclear Regulatory Commission	51,700	0	51,700	0	NA	NA
Smithsonian Institution	120,000	120,000	0	0	NA	NA
Social Security Administration	17,422	0	17,422	0	NA	NA
Tennessee Valley Authority	2,655	48	761	1,846	NA	NA

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

Table C-5. Federal obligations for total research and development, by agency and character of work: fiscal year 1998

[Dollars in thousands]

Agency and subdivision	Total	Research		Development		
		Basic	Applied	Total	Advanced technology	Major systems
United States Arms Control & Disarmament Agency[4]	1,200	0	1,200	0	NA	NA
United States Information Agency	258	0	258	0	NA	NA
United States International Trade Commission	7,165	0	7,165	0	NA	NA

1 The Department of the Army, Civil Functions (Corps of Engineers) development activities are appropriated by the Energy & Water Development Act and therefore cannot be categorized according to the advanced technology and major systems development breakdown.

2 The Defense Threat Reduction Agency (DTRA) was established on October 1, 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.

3 Data for fiscal years 1998-2000 from the Substance Abuse & Mental Health Services Administration (SAMHSA) are estimates based on SAMHSA's obligations by program activity budget and previously reported funding for development.

4 Effective April 1, 1999, all functions and authorities of the United States Arms Control & Disarmament Agency were transferred to the Department of State.

5 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 (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-1996). More accurate data for AID will be reported in future volumes of this survey.

NOTES: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

Beginning with Vol. 44, Department of Defense development obligations are reported in two categories: advanced technology and major systems.

KEY: NA = Not applicable (data are not collected in this category for this agency)

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-6. Preliminary Federal obligations for total research and development, by agency and character of work: fiscal year 1999

[Dollars in thousands]

Agency and subdivision	Total	Research		Development		
		Basic	Applied	Total	Advanced technology	Major systems
Total, all agencies	75,351,321	17,366,858	16,454,828	41,529,635	NA	NA
Departments:						
Department of Agriculture, total	1,637,229	715,731	800,701	120,797	NA	NA
Agricultural Marketing Service	4,696	0	4,000	696	NA	NA
Agricultural Research Service	832,903	449,768	308,174	74,961	NA	NA
Animal & Plant Health Inspection Service	19,979	0	0	19,979	NA	NA
Cooperative State Rsch, Ed, & Extension Svc	506,189	227,657	278,532	0	NA	NA
Economic Research Service	64,966	6,497	58,469	0	NA	NA
Food Safety Inspection Service	190	125	0	65	NA	NA
Foreign Agricultural Service	1,422	924	498	0	NA	NA
Forest Service	197,400	29,700	144,800	22,900	NA	NA
Grain Inspection Packers & Stockyards Admin	2,745	0	549	2,196	NA	NA
National Agricultural Statistics Service	3,221	1,060	2,161	0	NA	NA
Rural Business-Cooperative Service	3,518	0	3,518	0	NA	NA
Department of Commerce, total	1,044,573	45,673	836,286	162,614	NA	NA
Bureau of the Census	16,332	1,049	8,805	6,478	NA	NA
Economic Development Administration	550	0	550	0	NA	NA
National Institute of Standards & Technology	444,164	40,765	289,600	113,799	NA	NA
National Oceanic & Atmospheric Administration	559,373	3,859	533,448	22,066	NA	NA
Nat'l Telecommunications & Information Admin	24,154	0	3,883	20,271	NA	NA
Department of Defense, total	35,636,915	1,030,259	3,111,671	31,494,985	NA	NA
Department of the Air Force	13,523,730	195,251	557,335	12,771,144	585,768	12,185,376
Department of the Army, total	5,181,213	178,913	699,293	4,303,007	NA	NA
Department of the Army, Civil Functions[1]	37,824	3,000	20,950	13,874	NA	NA
Department of the Army, Military Functions	5,143,389	175,913	678,343	4,289,133	787,476	3,501,657
Department of the Navy	8,704,932	344,564	551,006	7,809,362	594,793	7,214,569
Defense Agencies, total	7,958,658	311,531	1,304,037	6,343,090	3,759,767	2,583,323
Ballistic Missile Defense Organization	3,823,401	0	115,170	3,708,231	1,973,373	1,734,858
Defense Advanced Research Projects Agency	1,914,227	56,391	880,155	977,681	896,434	81,247
Defense Information Systems Agency	110,521	0	2,389	108,132	0	108,132
Defense Logistics Agency	71,737	0	8,151	63,586	55,736	7,850
Defense Threat Reduction Agency[2]	307,024	0	183,996	123,028	123,028	0
Joint Staff	161,241	0	0	161,241	161,241	0
Special Operations Command	207,296	0	18,657	188,639	78,772	109,867
Washington Headquarters Services	1,363,211	255,140	95,519	1,012,552	471,183	541,369
Operational Test & Evaluation, Director	31,759	0	0	31,759	0	31,759
Test & Evaluation, Deputy Under Sec of Defense	236,623	0	0	236,623	0	236,623
Department of Education	221,811	2,050	151,867	67,894	NA	NA
Department of Energy	6,499,178	2,230,019	1,900,115	2,369,044	NA	NA
Department of Health & Human Services, total	15,629,354	8,428,388	5,268,696	1,932,270	NA	NA
Administration on Aging	18,426	0	1,160	17,266	NA	NA
Administration for Children & Families	18,789	0	18,789	0	NA	NA
Agency for Health Care Policy & Research	171,023	0	160,923	10,100	NA	NA
Centers for Disease Control & Prevention	382,559	0	382,559	0	NA	NA
Food & Drug Administration	141,229	0	141,229	0	NA	NA
Health Care Financing Administration	50,000	0	50,000	0	NA	NA
Health Resources & Services Administration	12,957	1,102	11,855	0	NA	NA
National Institutes of Health	14,740,710	8,427,286	4,488,181	1,825,243	NA	NA
Office of the Secretary, total	17,671	0	14,000	3,671	NA	NA
Off of the Asst Sec, Planning & Evaluation	14,000	0	14,000	0	NA	NA
Office of Public Health & Science	3,671	0	0	3,671	NA	NA
Substance Abuse & Mental Health Svcs Admin[3]	75,990	0	0	75,990	NA	NA
Department of Housing & Urban Development	59,443	0	21,313	38,130	NA	NA

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

Table C-6. Preliminary Federal obligations for total research and development, by agency and character of work: fiscal year 1999

[Dollars in thousands]

Agency and subdivision	Total	Research		Development		
		Basic	Applied	Total	Advanced technology	Major systems
Department of the Interior, total	564,106	50,829	483,145	30,132	NA	NA
Bureau of Reclamation	8,067	0	6,050	2,017	NA	NA
Geological Survey	497,239	50,279	418,845	28,115	NA	NA
Minerals Management Service	29,056	0	29,056	0	NA	NA
National Park Service	29,744	550	29,194	0	NA	NA
Department of Justice, total	110,151	20,075	29,443	60,633	NA	NA
Bureau of Prisons	7,833	0	3,950	3,883	NA	NA
Federal Bureau of Investigation	36,160	0	0	36,160	NA	NA
Immigration & Naturalization Service	500	0	0	500	NA	NA
Office of Justice Programs	65,658	20,075	25,493	20,090	NA	NA
Department of Labor, total	26,672	11,100	10,267	5,305	NA	NA
Bureau of Labor Statistics	12,400	11,100	1,300	0	NA	NA
Employment & Training Administration	6,579	0	2,000	4,579	NA	NA
Occupational Safety & Health Administration	5,010	0	5,010	0	NA	NA
Office of the Secretary	200	0	100	100	NA	NA
Pension Benefit Guaranty Corporation	683	0	57	626	NA	NA
Pension & Welfare Benefits Administration	1,800	0	1,800	0	NA	NA
Department of State[4]	964	0	964	0	NA	NA
Department of Transportation, total	702,104	39,897	450,645	211,562	NA	NA
Coast Guard	17,963	0	4,491	13,472	NA	NA
Federal Aviation Administration	211,254	0	150,000	61,254	NA	NA
Federal Highway Administration	355,587	39,897	210,725	104,965	NA	NA
Federal Railroad Administration	25,413	0	25,113	300	NA	NA
Federal Transit Administration	22,218	0	4,100	18,118	NA	NA
National Highway Traffic Safety Admin	50,350	0	50,350	0	NA	NA
Office of the Secretary	9,631	0	0	9,631	NA	NA
Research & Special Programs Administration	9,688	0	5,866	3,822	NA	NA
Department of the Treasury, total	72,042	38	60,665	11,339	NA	NA
Bureau of Engraving & Printing	2,368	38	2,198	132	NA	NA
Internal Revenue Service	58,807	0	55,496	3,311	NA	NA
Office of Thrift Supervision	766	0	766	0	NA	NA
United States Customs Service	8,845	0	1,679	7,166	NA	NA
United States Mint	730	0	0	730	NA	NA
United States Secret Service	526	0	526	0	NA	NA
Department of Veterans Affairs	320,477	139,855	171,294	9,328	NA	NA
Other agencies:						
Appalachian Regional Commission	738	0	738	0	NA	NA
Consumer Product Safety Commission	140	0	0	140	NA	NA
Environmental Protection Agency	555,863	75,663	387,200	93,000	NA	NA
Federal Communications Commission	4,178	0	4,178	0	NA	NA
Federal Trade Commission	1,097	0	1,097	0	NA	NA
International Development Cooperation Agency, total	209,259	60	163,160	46,039	NA	NA
Agency for International Development[5]	209,259	60	163,160	46,039	NA	NA
Library of Congress	2,106	0	595	1,511	NA	NA
National Aeronautics & Space Administration	9,308,029	2,122,562	2,310,555	4,874,912	NA	NA
National Archives & Records Administration	120	0	120	0	NA	NA
National Science Foundation	2,512,892	2,332,659	180,233	0	NA	NA
Nuclear Regulatory Commission	49,201	0	49,201	0	NA	NA
Smithsonian Institution	122,000	122,000	0	0	NA	NA
Social Security Administration	53,656	0	53,656	0	NA	NA

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

Table C-6. Preliminary Federal obligations for total research and development, by agency and character of work: fiscal year 1999

[Dollars in thousands]

Agency and subdivision	Total	Research		Development		
		Basic	Applied	Total	Advanced technology	Major systems
United States Arms Control & Disarmament Agency[4]	50	0	50	0	NA	NA
United States Information Agency	100	0	100	0	NA	NA
United States International Trade Commission	6,873	0	6,873	0	NA	NA

1 The Department of the Army, Civil Functions (Corps of Engineers) development activities are appropriated by the Energy & Water Development Act and therefore cannot be categorized according to the advanced technology and major systems development breakdown.

2 The Defense Threat Reduction Agency (DTRA) was established on October 1, 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.

3 Data for fiscal years 1998-2000 from the Substance Abuse & Mental Health Services Administration (SAMHSA) are estimates based on SAMHSA's obligations by program activity budget and previously reported funding for development.

4 Effective April 1, 1999, all functions and authorities of the United States Arms Control & Disarmament Agency were transferred to the Department of State.

5 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 (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-1996). More accurate data for AID will be reported in future volumes of this survey.

NOTES: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

Beginning with Vol. 44, Department of Defense development obligations are reported in two categories: advanced technology and major systems.

KEY: NA = Not applicable (data are not collected in this category for this agency)

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-7. Preliminary Federal obligations for total research and development, by agency and character of work: fiscal year 2000

[Dollars in thousands]

Agency and subdivision	Total	Research		Development		
		Basic	Applied	Total	Advanced technology	Major systems
Total, all agencies	75,104,342	18,209,439	16,470,143	40,424,760	NA	NA
Departments:						
Department of Agriculture, total	1,597,721	718,941	755,277	123,503	NA	NA
Agricultural Marketing Service	5,017	0	4,268	749	NA	NA
Agricultural Research Service	855,868	462,169	316,671	77,028	NA	NA
Animal & Plant Health Inspection Service	20,033	0	0	20,033	NA	NA
Cooperative State Rsch, Ed, & Extension Svc	451,032	219,400	231,632	0	NA	NA
Economic Research Service	55,628	5,563	50,065	0	NA	NA
Food Safety Inspection Service	190	125	0	65	NA	NA
Foreign Agricultural Service	1,422	924	498	0	NA	NA
Forest Service	197,400	29,700	144,800	22,900	NA	NA
Grain Inspection Packers & Stockyards Admin	3,410	0	682	2,728	NA	NA
National Agricultural Statistics Service	3,221	1,060	2,161	0	NA	NA
Rural Business-Cooperative Service	4,500	0	4,500	0	NA	NA
Department of Commerce, total	1,025,978	44,780	814,958	166,240	NA	NA
Bureau of the Census	8,272	531	4,460	3,281	NA	NA
Economic Development Administration	550	0	550	0	NA	NA
National Institute of Standards & Technology	459,158	40,335	299,272	119,551	NA	NA
National Oceanic & Atmospheric Administration	531,702	3,914	504,482	23,306	NA	NA
Nat'l Telecommunications & Information Admin	26,296	0	6,194	20,102	NA	NA
Department of Defense, total	34,441,249	1,115,141	3,001,119	30,324,989	NA	NA
Department of the Air Force	14,360,234	209,528	513,837	13,636,869	662,005	12,974,864
Department of the Army, total	4,501,085	189,515	582,300	3,729,270	NA	NA
Department of the Army, Civil Functions[1]	44,799	2,800	23,400	18,599	NA	NA
Department of the Army, Military Functions	4,456,286	186,715	558,900	3,710,671	531,330	3,179,341
Department of the Navy	8,214,614	375,832	526,418	7,312,364	523,944	6,788,420
Defense Agencies, total	7,086,797	340,266	1,378,564	5,367,967	2,839,241	2,528,726
Ballistic Missile Defense Organization	2,944,448	0	74,831	2,869,617	1,110,250	1,759,367
Defense Advanced Research Projects Agency	1,992,976	62,609	954,772	975,595	894,326	81,269
Defense Information Systems Agency	117,253	0	1,966	115,287	0	115,287
Defense Logistics Agency	37,236	0	8,261	28,975	24,001	4,974
Defense Threat Reduction Agency[2]	349,832	0	204,689	145,143	145,143	0
Joint Staff	49,073	0	0	49,073	49,073	0
Special Operations Command	191,882	0	17,269	174,613	72,916	101,697
Washington Headquarters Services	1,404,097	277,657	116,776	1,009,664	543,532	466,132
Operational Test & Evaluation, Director	25,415	0	0	25,415	0	25,415
Test & Evaluation, Deputy Under Sec of Defense	253,104	0	0	253,104	0	253,104
Department of Education	272,142	2,010	170,886	99,246	NA	NA
Department of Energy	6,518,213	2,285,784	2,087,458	2,144,971	NA	NA
Department of Health & Human Services, total	16,147,486	8,588,895	5,511,350	2,047,241	NA	NA
Administration on Aging	18,426	0	1,085	17,341	NA	NA
Administration for Children & Families	28,049	0	28,049	0	NA	NA
Agency for Health Care Policy & Research	206,255	0	197,255	9,000	NA	NA
Centers for Disease Control & Prevention	468,559	0	468,559	0	NA	NA
Food & Drug Administration	151,745	0	151,745	0	NA	NA
Health Care Financing Administration	55,000	0	55,000	0	NA	NA
Health Resources & Services Administration	13,081	1,157	11,924	0	NA	NA
National Institutes of Health	15,107,871	8,587,738	4,583,733	1,936,400	NA	NA
Office of the Secretary, total	18,500	0	14,000	4,500	NA	NA
Off of the Asst Sec, Planning & Evaluation	14,000	0	14,000	0	NA	NA
Office of Public Health & Science	4,500	0	0	4,500	NA	NA
Substance Abuse & Mental Health Svcs Admin[3]	80,000	0	0	80,000	NA	NA
Department of Housing & Urban Development	50,625	0	18,054	32,571	NA	NA

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

Table C-7. Preliminary Federal obligations for total research and development, by agency and character of work: fiscal year 2000

[Dollars in thousands]

Agency and subdivision	Total	Research		Development		
		Basic	Applied	Total	Advanced technology	Major systems
Department of the Interior, total	584,626	51,906	500,152	32,568	NA	NA
Bureau of Reclamation	9,915	0	7,436	2,479	NA	NA
Geological Survey	514,316	51,356	432,871	30,089	NA	NA
Minerals Management Service	28,565	0	28,565	0	NA	NA
National Park Service	31,830	550	31,280	0	NA	NA
Department of Justice, total	81,828	15,200	9,841	56,787	NA	NA
Bureau of Prisons	7,984	0	4,000	3,984	NA	NA
Federal Bureau of Investigation	36,208	0	0	36,208	NA	NA
Immigration & Naturalization Service	500	0	0	500	NA	NA
Office of Justice Programs	37,136	15,200	5,841	16,095	NA	NA
Department of Labor, total	25,933	11,100	11,041	3,792	NA	NA
Bureau of Labor Statistics	12,400	11,100	1,300	0	NA	NA
Employment & Training Administration	4,379	0	1,331	3,048	NA	NA
Occupational Safety & Health Administration	5,255	0	5,255	0	NA	NA
Office of the Secretary	200	0	100	100	NA	NA
Pension Benefit Guaranty Corporation	699	0	55	644	NA	NA
Pension & Welfare Benefits Administration	3,000	0	3,000	0	NA	NA
Department of State[4]	964	0	964	0	NA	NA
Department of Transportation, total	929,804	67,623	607,936	254,245	NA	NA
Coast Guard	22,667	0	5,667	17,000	NA	NA
Federal Aviation Administration	233,657	0	173,000	60,657	NA	NA
Federal Highway Administration	559,657	67,623	338,401	153,633	NA	NA
Federal Railroad Administration	23,901	0	23,601	300	NA	NA
Federal Transit Administration	19,225	0	4,100	15,125	NA	NA
National Highway Traffic Safety Admin	58,713	0	58,713	0	NA	NA
Office of the Secretary	4,475	0	0	4,475	NA	NA
Research & Special Programs Administration	7,509	0	4,454	3,055	NA	NA
Department of the Treasury, total	86,253	28	74,817	11,408	NA	NA
Bureau of Engraving & Printing	2,424	28	2,286	110	NA	NA
Internal Revenue Service	73,652	0	70,217	3,435	NA	NA
Office of Thrift Supervision	855	0	855	0	NA	NA
United States Customs Service	8,283	0	900	7,383	NA	NA
United States Mint	480	0	0	480	NA	NA
United States Secret Service	559	0	559	0	NA	NA
Department of Veterans Affairs	316,000	137,500	169,500	9,000	NA	NA
Other agencies:						
Appalachian Regional Commission	750	0	750	0	NA	NA
Consumer Product Safety Commission	1,314	0	1,168	146	NA	NA
Environmental Protection Agency	534,900	78,800	368,100	88,000	NA	NA
Federal Communications Commission	2,747	0	2,747	0	NA	NA
Federal Trade Commission	1,379	0	1,379	0	NA	NA
International Development Cooperation Agency, total	194,074	99	143,474	50,501	NA	NA
Agency for International Development[5]	194,074	99	143,474	50,501	NA	NA
Library of Congress	1,844	0	614	1,230	NA	NA
National Aeronautics & Space Administration	9,370,333	2,448,845	1,943,166	4,978,322	NA	NA
National Archives & Records Administration	120	0	120	0	NA	NA
National Science Foundation	2,698,326	2,513,787	184,539	0	NA	NA
Nuclear Regulatory Commission	46,594	0	46,594	0	NA	NA
Smithsonian Institution	129,000	129,000	0	0	NA	NA
Social Security Administration	36,895	0	36,895	0	NA	NA

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

Table C-7. Preliminary Federal obligations for total research and development, by agency and character of work: fiscal year 2000

[Dollars in thousands]

Agency and subdivision	Total	Research		Development		
		Basic	Applied	Total	Advanced technology	Major systems
United States Information Agency	100	0	100	0	NA	NA
United States International Trade Commission	7,144	0	7,144	0	NA	NA

1 The Department of the Army, Civil Functions (Corps of Engineers) development activities are appropriated by the Energy & Water Development Act and therefore cannot be categorized according to the advanced technology and major systems development breakdown.

2 The Defense Threat Reduction Agency (DTRA) was established on October 1, 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.

3 Data for fiscal years 1998-2000 from the Substance Abuse & Mental Health Services Administration (SAMHSA) are estimates based on SAMHSA's obligations by program activity budget and previously reported funding for development.

4 Effective April 1, 1999, all functions and authorities of the United States Arms Control & Disarmament Agency were transferred to the Department of State.

5 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 (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-1996). More accurate data for AID will be reported in future volumes of this survey.

NOTES: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

Beginning with Vol. 44, Department of Defense development obligations are reported in two categories: advanced technology and major systems.

KEY: NA = Not applicable (data are not collected in this category for this agency)

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-8. Federal obligations for total research and development, by agency and performer: fiscal year 1998

[Dollars in millions]

Agency and subdivision	Total	Intra-mural [1]	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by in-dustrial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other non-profit insti-tutions	FFRDCs admin by nonprofit insti-tutions	State and local govts	
Total, all agencies	71,903.3	17,114.0	31,839.7	1,188.9	13,365.9	3,890.1	3,155.1	603.0	447.5	299.1
Departments:										
Department of Agriculture, total	1,441.0	996.4	10.9	.0	415.4	.0	12.5	.0	1.8	4.1
Agricultural Marketing Service	4.7	4.4	.0	.0	.3	.0	.0	.0	-	.0
Agricultural Research Service	757.9	714.0	.0	.0	38.1	.0	2.7	.0	-	3.1
Animal & Plant Hlth Inspection Svc	20.5	16.6	.0	.0	3.8	.0	-	.0	.0	.0
Cooperative State Research, Education, & Extension Service	386.4	19.9	8.9	.0	350.0	.0	6.4	.0	1.2	.0
Economic Research Service	71.5	63.1	1.9	.0	5.0	.0	.5	.0	.3	.8
Food Safety Inspection Service	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0
Foreign Agricultural Service	1.4	1.0	.0	.0	.5	.0	.0	.0	.0	.0
Forest Service	187.8	170.2	-	.0	15.6	.0	1.6	.0	.3	.1
Grain Inspection Packers & Stockyards Administration	2.7	2.7	.0	.0	.0	.0	.0	.0	.0	.0
Nat'l Agricultural Statistics Svc	3.3	3.1	.0	.0	.2	.0	-	.0	.0	.0
Rural Business-Cooperative Service	4.4	1.2	.0	.0	1.9	.0	1.3	.0	.0	.0
Department of Commerce, total	948.6	673.8	151.9	.0	106.7	.0	12.3	-	3.7	.2
Bureau of the Census	8.6	8.6	.0	.0	.0	.0	.0	.0	.0	.0
Economic Development Admin	.6	.1	-	.0	.3	.0	.2	.0	.0	.0
Nat'l Inst of Standards & Tech	394.4	226.0	148.0	.0	19.5	.0	.6	-	.0	.2
Nat'l Oceanic & Atmospheric Admin	519.5	432.2	3.9	.0	81.1	.0	2.0	.0	.3	.0
National Telecommunications & Information Administration	25.5	7.0	.0	.0	5.7	.0	9.5	.0	3.3	.0
Department of Defense, research	3,969.9	1,407.9	1,371.6	12.1	964.7	84.4	86.5	17.5	.0	25.3
Dept of Defense, development, total	31,316.3	6,870.9	22,969.8	73.0	457.5	262.8	139.3	290.5	110.4	142.1
Department of Defense, advanced technology development	5,524.6	1,478.7	3,278.2	22.0	277.0	152.2	131.3	65.0	12.6	107.6
Department of Defense, major systems development	25,791.8	5,392.2	19,691.5	51.0	180.5	110.7	8.0	225.5	97.8	34.5
Department of the Air Force, research & development (R&D)	13,839.1	1,529.9	11,800.1	18.5	116.7	104.5	15.0	138.7	110.4	5.3
Department of the Army, R&D	5,037.7	1,864.4	2,886.7	2.7	167.9	30.1	41.8	25.8	.1	18.2
Department of the Navy, R&D	8,156.3	2,900.3	4,663.0	6.8	401.4	42.7	51.3	61.9	.0	28.9
Defense Agencies, R&D, total	7,980.8	1,752.9	4,971.0	57.0	736.1	169.9	117.7	61.1	-	115.0
Ballistic Missile Defense Organization, R&D	3,421.5	608.4	2,536.6	23.6	71.8	58.3	.6	22.6	.0	99.5
Defense Advanced Research Projects Agency, R&D	2,003.1	294.8	1,184.9	10.0	350.7	68.7	62.4	24.2	.0	7.4
Defense Information Systems Agency, R&D	55.6	17.1	32.8	.5	.0	.3	.0	4.9	.0	.0
Defense Logistics Agency, R&D	122.1	36.7	32.8	.0	4.1	.1	47.3	1.1	.0	.0
Defense Threat Reduction Agency, R&D [2]	275.8	70.9	183.9	4.1	7.3	5.4	.0	.8	.0	3.3
Joint Staff, R&D	53.9	53.9	.0	.0	.0	.0	.0	.0	.0	.0
Special Operations Command, R&D	142.7	43.2	96.6	1.5	1.4	.0	.0	.0	.0	.0
Washington Headquarters Services, R&D	1,906.0	627.8	903.5	17.2	300.8	37.2	7.3	7.4	-	4.8
Operational Test & Evaluation, R&D, Director	30.3	7.3	8.3	.0	.0	.0	.0	14.8	.0	.0
Test & Evaluation, R&D, Deputy Under Secretary of Defense	242.0	224.2	12.2	.0	.0	.0	.0	5.7	.0	.0
Department of Education	204.5	9.6	15.3	.0	125.3	.0	53.0	.0	1.3	.0
Department of Energy	5,873.8	463.2	1,286.8	918.2	623.2	2,236.2	80.3	260.5	3.4	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: fiscal year 1998

[Dollars in millions]

Agency and subdivision	Total	Intra-mural [1]	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by in-dustrial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other non-profit insti-tutions	FFRDCs admin by nonprofit insti-tutions	State and local govts	
Dept of Health & Human Svcs, total	13,704.2	2,809.4	758.0	163.2	7,728.8	30.2	2,005.1	20.5	147.5	41.6
Administration on Aging	10.4	.5	.2	.0	.9	.0	4.9	.0	3.9	.0
Admin for Children & Families	23.5	.9	2.1	.0	9.9	.0	8.6	.0	1.9	-
Agcy for Health Care Policy & Rsch	146.5	36.2	52.3	.0	37.0	.0	20.8	.0	.0	.2
Centers for Disease Control & Prevention	343.6	239.8	33.3	.0	61.4	.0	3.3	.0	5.8	.0
Food & Drug Administration	142.9	118.8	4.1	.0	14.2	.0	5.5	.0	.1	.3
Health Care Financing Admin	51.2	.4	38.2	.0	5.3	.0	6.0	.0	1.1	.3
Health Resources & Services Admin	12.9	3.0	.0	.0	7.5	.0	2.4	.0	.0	.0
National Institutes of Health	12,880.2	2,405.0	626.5	163.2	7,564.9	30.2	1,917.9	20.5	111.2	40.7
Office of the Secretary, total	17.0	4.8	1.3	.0	5.7	.0	2.2	.0	3.0	.0
Office of the Assistant Secretary, Planning & Evaluation	13.9	4.5	1.3	.0	2.9	.0	2.2	.0	3.0	.0
Office of Public Hlth & Science	3.1	.3	.0	.0	2.8	.0	.0	.0	.0	.0
Substance Abuse & Mental Health Services Administration [3]	76.0	-	.0	.0	22.0	.0	33.4	.0	20.5	.0
Dept of Housing & Urban Development	28.0	17.0	6.5	.0	.7	.0	3.9	.0	.0	.0
Department of the Interior, total	532.0	460.8	14.0	.0	48.0	.0	.7	.0	7.3	1.1
Bureau of Reclamation	8.8	6.6	.0	.0	1.9	.0	.2	.0	.2	.0
Geological Survey	464.1	431.0	4.8	.0	21.4	.0	.0	.0	6.9	.0
Minerals Management Service	29.3	6.6	7.5	.0	13.6	.0	.3	.0	.2	1.1
National Park Service	29.7	16.6	1.7	.0	11.1	.0	.3	.0	.0	.0
Department of Justice, total	100.6	39.7	12.4	.0	19.9	.0	11.3	.0	17.3	.0
Bureau of Prisons	8.1	3.0	.0	.0	.0	.0	.0	.0	5.1	.0
Federal Bureau of Investigation	35.8	35.8	.0	.0	.0	.0	.0	.0	.0	.0
Office of Justice Programs	56.7	.9	12.4	.0	19.9	.0	11.3	.0	12.2	.0
Department of Labor, total	27.8	11.0	4.5	.0	6.3	.0	6.0	.0	.0	.0
Bureau of Labor Statistics	12.4	8.4	.0	.0	4.0	.0	.0	.0	.0	.0
Employment & Training Admin	7.2	.2	.0	.0	2.1	.0	5.0	.0	.0	.0
Occupational Safety & Health Admin	4.6	1.7	2.9	.0	.0	.0	.0	.0	.0	.0
Office of the Secretary	.2	.1	.0	.0	.1	.0	.0	.0	.0	.0
Pension Benefit Guaranty Corp	.6	.3	.4	.0	.0	.0	.0	.0	.0	.0
Pension & Welfare Benefits Admin	2.7	.5	1.2	.0	-	.0	1.0	.0	.0	.0
Department of State [4]	.9	.3	.5	.0	.0	-	.0	.0	.0	.0
Department of Transportation, total	566.1	190.8	191.1	4.3	37.9	3.4	15.3	6.2	116.5	.6
Coast Guard	20.4	12.8	7.2	.5	.0	.0	.0	.0	.0	.0
Federal Aviation Administration	228.0	92.6	117.6	2.2	9.4	.0	.0	6.2	.0	.0
Federal Highway Administration	227.3	39.6	44.0	1.6	14.1	3.4	9.1	.0	115.5	.0
Federal Railroad Administration	21.5	9.5	10.1	.0	.4	.0	1.4	.0	.0	.1
Federal Transit Administration	17.6	2.3	.0	.0	9.9	.0	4.4	.0	1.0	.0
Nat'l Highway Traffic Safety Admin	41.6	26.6	10.2	.0	4.0	.0	.3	.0	.0	.4
Office of the Secretary	3.4	3.4	.0	.0	.0	.0	.0	.0	.0	.0
Research & Special Programs Admin	6.3	3.9	2.1	.0	.1	.1	.1	.1	.0	.0
Department of the Treasury, total	65.1	43.6	21.5	.0	.0	.0	.0	.0	.0	.0
Bureau of Engraving & Printing	2.8	2.8	.0	.0	.0	.0	.0	.0	.0	.0
Internal Revenue Service	52.0	36.9	15.1	.0	.0	.0	.0	.0	.0	.0
Office of Thrift Supervision	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0
United States Customs Service	9.0	2.9	6.1	.0	.0	.0	.0	.0	.0	.0
United States Mint	.1	-	.1	.0	.0	.0	.0	.0	.0	.0
United States Secret Service	.5	.3	.2	.0	.0	.0	.0	.0	.0	.0
Department of Veterans Affairs	277.1	277.1	.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: fiscal year 1998

[Dollars in millions]

Agency and subdivision	Total	Intra-mural [1]	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by in-dustrial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other non-profit insti-tutions	FFRDCs admin by nonprofit insti-tutions	State and local govts	
Other agencies:										
Appalachian Regional Commission	.7	-	.2	.0	.4	.0	.1	.0	.0	.0
Environmental Protection Agency	571.2	255.0	91.3	.0	145.7	.0	61.4	.0	15.4	2.3
Federal Communications Commission	3.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0
Federal Trade Commission	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0
International Development Cooperation Agency, total	212.0	22.6	10.7	.0	13.6	.0	144.1	.0	.0	21.1
Agcy for International Dvlpmt [5]	212.0	22.6	10.7	.0	13.6	.0	144.1	.0	.0	21.1
Library of Congress	1.5	.9	.6	.0	-	.0	.0	.0	.0	.0
National Aeronautics & Space Admin	9,568.0	2,395.5	4,814.1	4.0	786.6	1,123.5	377.5	5.9	13.5	47.5
National Archives & Records Admin	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0
National Science Foundation	2,289.3	17.0	101.4	.0	1,874.9	139.1	144.0	.2	3.6	9.2
Nuclear Regulatory Commission	51.7	14.3	3.5	14.1	5.2	10.5	.4	1.7	.0	2.1
Smithsonian Institution	120.0	120.0	.0	.0	.0	.0	.0	.0	.0	.0
Social Security Administration	17.4	2.3	2.4	.0	5.3	.0	1.5	.0	5.8	.0
Tennessee Valley Authority	2.7	2.7	.0	.0	.0	.0	.0	.0	.0	.0
US Arms Control & Disarmament Agency [4]	1.2	.5	.7	.0	.0	.0	.0	.0	.0	.0
United States Information Agency	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0
US International Trade Commission	7.2	7.2	.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 The Defense Threat Reduction Agency (DTRA) was established on October 1, 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.

3 Data for fiscal years 1998-2000 from the Substance Abuse & Mental Health Services Administration (SAMHSA) are estimates based on SAMHSA's obligations by program activity budget and previously reported funding for development.

4 Effective April 1, 1999, all functions and authorities of the United States Arms Control & Disarmament Agency were transferred to the Department of State.

5 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 (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-1996). More accurate data for AID will be reported in future volumes of this survey.

NOTES: Because of rounding, detail may not add to totals.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

Beginning with Vol. 44, Department of Defense development obligations are reported in two categories: advanced technology and major systems.

KEY: - = Amount less than 50 thousand dollars
FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-9. Preliminary Federal obligations for total research and development, by agency and performer: fiscal year 1999

[Dollars in millions]

Agency and subdivision	Total	Intra-mural [1]	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by in-dustrial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other non-profit insti-tutions	FFRDCs admin by nonprofit insti-tutions	State and local govts	
Total, all agencies	75,351.3	18,271.6	31,906.1	1,294.6	14,981.6	4,108.0	3,477.4	656.4	414.1	241.6
Departments:										
Department of Agriculture, total	1,637.2	1,070.0	14.1	.0	536.3	.0	12.0	.0	1.4	3.4
Agricultural Marketing Service	4.7	4.7	.0	.0	.0	.0	.0	.0	.0	.0
Agricultural Research Service	832.9	781.4	.0	.0	45.5	.0	2.7	.0	-	3.3
Animal & Plant Hlth Inspection Svc	20.0	16.9	.0	.0	3.0	.0	-	.0	.0	.0
Cooperative State Research, Education, & Extension Service	506.2	23.0	14.1	.0	461.6	.0	6.3	.0	1.2	.0
Economic Research Service	65.0	55.9	.0	.0	9.1	.0	.0	.0	.0	.0
Food Safety Inspection Service	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0
Foreign Agricultural Service	1.4	1.0	.0	.0	.5	.0	.0	.0	.0	.0
Forest Service	197.4	179.8	-	.0	15.6	.0	1.6	.0	.3	.1
Grain Inspection Packers & Stockyards Administration	2.7	2.7	.0	.0	.0	.0	.0	.0	.0	.0
Nat'l Agricultural Statistics Svc	3.2	3.0	.0	.0	.2	.0	.1	.0	.0	.0
Rural Business-Cooperative Service	3.5	1.4	.0	.0	.8	.0	1.3	.0	.0	.0
Department of Commerce, total	1,044.6	728.2	201.5	.0	101.2	.1	10.2	.0	3.1	.2
Bureau of the Census	16.3	16.3	.0	.0	.0	.0	.0	.0	.0	.0
Economic Development Admin	.6	.1	.3	.0	.0	.0	.2	.0	.0	.0
Nat'l Inst of Standards & Tech	444.2	234.8	197.1	.0	11.4	-	.6	.0	.0	.2
Nat'l Oceanic & Atmospheric Admin	559.4	468.5	4.1	.0	84.9	.1	1.4	.0	.3	.0
National Telecommunications & Information Administration	24.2	8.5	.0	.0	4.8	.0	8.0	.0	2.8	.0
Department of Defense, research	4,141.9	1,427.6	1,437.0	18.1	1,025.5	75.2	104.4	29.5	2.0	22.6
Dept of Defense, development, total	31,495.0	7,494.2	22,708.6	91.5	467.4	219.3	123.7	298.7	11.6	80.0
Department of Defense, advanced technology development	5,741.7	1,401.2	3,703.8	21.1	294.0	112.0	89.9	60.5	11.5	47.6
Department of Defense, major systems development	25,753.3	6,093.0	19,004.8	70.4	173.3	107.3	33.9	238.1	.1	32.4
Department of the Air Force, research & development (R&D)	13,523.7	1,591.0	11,556.4	18.4	108.8	72.5	28.7	129.0	9.6	9.3
Department of the Army, R&D	5,181.2	1,922.4	2,865.5	10.7	221.1	37.8	70.7	42.3	3.9	6.9
Department of the Navy, R&D	8,704.9	3,131.0	4,950.4	6.7	434.3	30.2	57.1	68.3	-	27.1
Defense Agencies, R&D, total	7,958.7	2,065.5	4,742.9	73.9	728.8	154.0	71.6	62.6	-	59.3
Ballistic Missile Defense Organization, R&D	3,823.4	926.3	2,702.5	44.3	43.3	48.7	.1	15.2	.0	43.1
Defense Advanced Research Projects Agency, R&D	1,914.2	269.7	1,116.2	9.9	359.2	68.5	60.2	22.4	.0	8.1
Defense Information Systems Agency, R&D	110.5	47.6	50.3	.0	.0	.3	6.1	6.1	.0	.0
Defense Logistics Agency, R&D	71.7	30.8	35.9	.1	3.3	.0	.0	1.6	.0	.0
Defense Threat Reduction Agency, R&D [2]	307.0	71.9	209.9	3.9	10.6	5.8	.0	1.4	.0	3.6
Joint Staff, R&D	161.2	161.2	.0	.0	.0	.0	.0	.0	.0	.0
Special Operations Command, R&D	207.3	62.8	142.3	1.3	.9	.0	.0	.0	.0	.0
Washington Headquarters Services, R&D	1,363.2	495.1	485.7	14.5	311.5	30.7	5.2	15.9	-	4.6
Operational Test & Evaluation, R&D, Director	31.8	5.2	8.7	.0	.0	.0	.0	17.8	.0	.0
Test & Evaluation, R&D, Deputy Under Secretary of Defense	236.6	206.8	21.7	.0	.0	.0	.0	8.1	.0	.0
Department of Education	221.8	13.4	14.7	.0	133.4	.0	59.0	.0	1.4	.0
Department of Energy	6,499.2	572.2	1,494.7	970.8	619.9	2,473.0	72.5	290.5	3.8	1.7

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

Table C-9. Preliminary Federal obligations for total research and development, by agency and performer: fiscal year 1999

[Dollars in millions]

Agency and subdivision	Total	Intra-mural [1]	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by in-dustrial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other non-profit insti-tutions	FFRDCs admin by nonprofit insti-tutions	State and local govts	
Dept of Health & Human Svcs, total	15,629.4	3,028.8	855.8	189.8	8,960.7	35.1	2,319.6	23.9	167.5	48.2
Administration on Aging	18.4	.5	.2	.0	1.3	.0	10.0	.0	6.4	.0
Admin for Children & Families	18.8	1.2	1.8	.0	9.5	.0	5.4	.0	.8	-
Agcy for Health Care Policy & Rsch	171.0	70.9	46.9	.0	34.0	.0	19.0	.0	.0	.3
Centers for Disease Control & Prevention	382.6	272.8	39.3	.0	61.4	.0	3.3	.0	5.8	.0
Food & Drug Administration	141.2	117.5	4.0	.0	14.0	.0	5.4	.0	.1	.3
Health Care Financing Admin	50.0	.1	32.9	.0	7.0	.0	8.2	.0	1.5	.3
Health Resources & Services Admin	13.0	2.7	.0	.0	7.8	.0	2.5	.0	.0	.0
National Institutes of Health	14,740.7	2,558.8	728.6	189.8	8,797.5	35.1	2,230.4	23.9	129.4	47.3
Office of the Secretary, total	17.7	4.3	2.0	.0	6.4	.0	2.0	.0	3.0	.0
Office of the Assistant Secretary, Planning & Evaluation	14.0	4.0	2.0	.0	3.0	.0	2.0	.0	3.0	.0
Office of Public Hlth & Science	3.7	.3	.0	.0	3.4	.0	.0	.0	.0	.0
Substance Abuse & Mental Health Services Administration [3]	76.0	-	.0	.0	22.0	.0	33.4	.0	20.5	.0
Dept of Housing & Urban Development	59.4	31.3	15.0	.0	2.1	.0	11.1	.0	.0	.0
Department of the Interior, total	564.1	491.5	14.0	.0	49.1	.0	.7	.0	7.2	1.7
Bureau of Reclamation	8.1	6.0	.0	.0	1.8	.0	.2	.0	.1	.0
Geological Survey	497.2	461.6	4.8	.0	24.0	.0	.0	.0	6.9	.0
Minerals Management Service	29.1	7.2	7.5	.0	12.2	.0	.3	.0	.2	1.7
National Park Service	29.7	16.6	1.7	.0	11.1	.0	.3	.0	.0	.0
Department of Justice, total	110.2	41.0	16.6	.0	20.5	.0	14.3	.0	17.8	.0
Bureau of Prisons	7.8	3.0	.0	.0	.0	.0	.0	.0	4.8	.0
Federal Bureau of Investigation	36.2	36.2	.0	.0	.0	.0	.0	.0	.0	.0
Immigration & Naturalization Svc	.5	.2	.3	.0	.0	.0	.0	.0	.0	.0
Office of Justice Programs	65.7	1.6	16.3	.0	20.5	.0	14.3	.0	13.0	.0
Department of Labor, total	26.7	15.1	5.0	.0	2.0	.0	4.5	.0	.0	.0
Bureau of Labor Statistics	12.4	12.4	.0	.0	.0	.0	.0	.0	.0	.0
Employment & Training Admin	6.6	.2	.0	.0	1.9	.0	4.5	.0	.0	.0
Occupational Safety & Health Admin	5.0	1.7	3.3	.0	.0	.0	.0	.0	.0	.0
Office of the Secretary	.2	.1	.0	.0	.1	.0	.0	.0	.0	.0
Pension Benefit Guaranty Corp	.7	.3	.4	.0	.0	.0	.0	.0	.0	.0
Pension & Welfare Benefits Admin	1.8	.5	1.3	.0	.0	.0	.0	.0	.0	.0
Department of State [4]	1.0	.3	.6	.0	.0	-	.0	.0	.0	.0
Department of Transportation, total	702.1	224.0	244.9	4.9	46.1	.6	14.8	6.2	159.7	.7
Coast Guard	18.0	11.7	5.8	.4	.0	.0	.0	.0	.0	.0
Federal Aviation Administration	211.3	69.5	119.7	2.3	13.6	.0	.0	6.2	.0	.0
Federal Highway Administration	355.6	80.1	92.6	2.3	14.7	.4	8.6	.0	157.0	.0
Federal Railroad Administration	25.4	12.8	10.4	.0	1.8	.0	.2	.0	.0	.2
Federal Transit Administration	22.2	2.4	.7	.0	10.9	.0	5.5	.0	2.8	.0
Nat'l Highway Traffic Safety Admin	50.4	32.2	12.1	.0	5.0	.0	.5	.0	.0	.5
Office of the Secretary	9.6	9.6	.0	.0	.0	.0	.0	.0	.0	.0
Research & Special Programs Admin	9.7	5.7	3.7	.0	.0	.2	.1	.0	.0	.0
Department of the Treasury, total	72.0	44.1	27.9	.0	.0	.0	.0	.0	.0	.0
Bureau of Engraving & Printing	2.4	2.4	.0	.0	.0	.0	.0	.0	.0	.0
Internal Revenue Service	58.8	37.6	21.2	.0	.0	.0	.0	.0	.0	.0
Office of Thrift Supervision	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0
United States Customs Service	8.8	2.9	5.9	.0	.0	.0	.0	.0	.0	.0
United States Mint	.7	.1	.7	.0	.0	.0	.0	.0	.0	.0
United States Secret Service	.5	.4	.2	.0	.0	.0	.0	.0	.0	.0
Department of Veterans Affairs	320.5	320.5	.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 total research and development, by agency and performer: fiscal year 1999

[Dollars in millions]

Agency and subdivision	Total	Intra-mural [1]	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by in-dustrial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other non-profit insti-tutions	FFRDCs admin by nonprofit insti-tutions	State and local govts	
Other agencies:										
Appalachian Regional Commission	.7	-	.2	.0	.4	.0	.1	.0	.0	.0
Consumer Product Safety Commission	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0
Environmental Protection Agency	555.9	241.6	90.5	.0	144.4	.0	60.9	.0	15.2	3.2
Federal Communications Commission	4.2	4.2	.0	.0	.0	.0	.0	.0	.0	.0
Federal Trade Commission	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0
International Development Cooperation Agency, total	209.3	23.5	10.3	.0	13.3	.0	142.2	.0	.0	20.0
Agcy for International Dvlpmt [5]	209.3	23.5	10.3	.0	13.3	.0	142.2	.0	.0	20.0
Library of Congress	2.1	1.2	.9	.0	-	.0	.0	.0	.0	.0
National Aeronautics & Space Admin	9,308.0	2,330.5	4,609.1	4.0	786.6	1,143.8	367.2	5.9	13.5	47.5
National Archives & Records Admin	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0
National Science Foundation	2,512.9	18.6	109.0	.0	2,059.8	153.1	158.1	.2	4.0	10.1
Nuclear Regulatory Commission	49.2	14.5	3.2	15.4	4.3	7.7	.4	1.4	.0	2.3
Smithsonian Institution	122.0	122.0	.0	.0	.0	.0	.0	.0	.0	.0
Social Security Administration	53.7	4.9	32.6	.0	8.7	.0	1.6	.0	6.0	.0
US Arms Control & Disarmament Agency [4]	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0
United States Information Agency	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0
US International Trade Commission	6.9	6.9	.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 The Defense Threat Reduction Agency (DTRA) was established on October 1, 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.

3 Data for fiscal years 1998-2000 from the Substance Abuse & Mental Health Services Administration (SAMHSA) are estimates based on SAMHSA's obligations by program activity budget and previously reported funding for development.

4 Effective April 1, 1999, all functions and authorities of the United States Arms Control & Disarmament Agency were transferred to the Department of State.

5 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 (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-1996). More accurate data for AID will be reported in future volumes of this survey.

NOTES: Because of rounding, detail may not add to totals.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

Beginning with Vol. 44, Department of Defense development obligations are reported in two categories: advanced technology and major systems.

KEY: - = Amount less than 50 thousand dollars
FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-10. Preliminary Federal obligations for total research and development, by agency and performer: fiscal year 2000

[Dollars in millions]

Agency and subdivision	Total	Intra-mural [1]	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by in-dustrial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other non-profit insti-tutions	FFRDCs admin by nonprofit insti-tutions	State and local govts	
Total, all agencies	75,104.3	17,641.7	31,640.0	1,337.0	15,191.3	4,470.7	3,472.9	670.5	420.1	260.3
Departments:										
Department of Agriculture, total	1,597.7	1,099.8	11.3	.0	474.8	.0	7.1	.0	1.2	3.7
Agricultural Marketing Service	5.0	5.0	.0	.0	.0	.0	.0	.0	.0	.0
Agricultural Research Service	855.9	813.5	.0	.0	37.8	.0	1.0	.0	-	3.6
Animal & Plant Hlth Inspection Svc	20.0	17.0	.0	.0	3.0	.0	.0	.0	.0	.0
Cooperative State Research, Education, & Extension Service	451.0	24.8	11.2	.0	411.7	.0	2.4	.0	.9	.0
Economic Research Service	55.6	50.6	.0	.0	5.0	.0	.0	.0	.0	.0
Food Safety Inspection Service	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0
Foreign Agricultural Service	1.4	1.0	.0	.0	.5	.0	.0	.0	.0	.0
Forest Service	197.4	179.8	-	.0	15.6	.0	1.6	.0	.3	.1
Grain Inspection Packers & Stockyards Administration	3.4	3.4	.0	.0	.0	.0	.0	.0	.0	.0
Nat'l Agricultural Statistics Svc	3.2	3.0	.0	.0	.2	.0	.1	.0	.0	.0
Rural Business-Cooperative Service	4.5	1.5	.0	.0	1.0	.0	2.0	.0	.0	.0
Department of Commerce, total	1,026.0	711.5	212.4	.0	88.0	-	10.4	.0	3.4	.2
Bureau of the Census	8.3	8.3	.0	.0	.0	.0	.0	.0	.0	.0
Economic Development Admin	.6	.1	.3	.0	.0	.0	.2	.0	.0	.0
Nat'l Inst of Standards & Tech	459.2	238.2	208.2	.0	11.7	-	.9	.0	.0	.2
Nat'l Oceanic & Atmospheric Admin	531.7	455.7	3.9	.0	71.1	.0	.6	.0	.4	.0
National Telecommunications & Information Administration	26.3	9.3	.0	.0	5.3	.0	8.7	.0	3.1	.0
Department of Defense, research	4,116.3	1,439.1	1,424.5	17.8	1,032.0	92.2	74.4	12.0	.0	24.3
Dept of Defense, development, total	30,325.0	6,438.5	22,824.4	82.8	351.3	139.0	59.6	326.2	4.1	99.1
Department of Defense, advanced technology development	4,575.1	1,045.3	3,042.5	25.4	204.1	47.1	40.1	103.1	3.1	64.4
Department of Defense, major systems development	25,749.9	5,393.3	19,781.9	57.4	147.2	91.8	19.4	223.1	1.1	34.7
Department of the Air Force, research & development (R&D)	14,360.2	1,415.5	12,657.9	22.1	126.6	8.2	4.1	106.3	4.1	15.5
Department of the Army, R&D	4,501.1	1,504.6	2,804.4	8.5	103.1	30.3	22.3	23.4	.0	4.5
Department of the Navy, R&D	8,214.6	2,959.0	4,687.5	6.4	402.2	30.8	31.4	71.1	.0	26.3
Defense Agencies, R&D, total	7,086.8	1,775.6	4,070.3	63.7	751.5	161.8	76.2	110.6	-	77.1
Ballistic Missile Defense Organization, R&D	2,944.4	773.6	1,997.0	33.6	33.9	35.1	1.7	10.1	.0	59.5
Defense Advanced Research Projects Agency, R&D	1,993.0	275.8	1,156.0	10.4	383.6	72.6	62.8	23.1	.0	8.7
Defense Information Systems Agency, R&D	117.3	53.2	51.1	.0	.0	.3	7.2	5.5	.0	.0
Defense Logistics Agency, R&D	37.2	22.9	11.2	.2	2.8	.0	.0	.1	.0	.0
Defense Threat Reduction Agency, R&D [2]	349.8	81.3	239.9	4.3	12.3	6.6	.0	1.6	.0	3.8
Joint Staff, R&D	49.1	49.1	.0	.0	.0	.0	.0	.0	.0	.0
Special Operations Command, R&D	191.9	58.1	131.7	1.2	.8	.0	.0	.0	.0	.0
Washington Headquarters Services, R&D	1,404.1	461.7	483.4	14.0	317.9	47.2	4.5	70.2	-	5.1
Operational Test & Evaluation, R&D, Director	25.4	3.0	4.5	.0	.0	.0	.0	17.9	.0	.0
Test & Evaluation, R&D, Deputy Under Secretary of Defense	253.1	219.9	24.2	.0	.0	.0	.0	9.0	.0	.0
Department of Education	272.1	36.0	11.8	.0	151.1	.0	72.0	.0	1.4	.0
Department of Energy	6,518.2	666.6	1,185.4	1,018.0	642.2	2,662.9	46.1	292.9	3.0	1.1

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

Table C-10. Preliminary Federal obligations for total research and development, by agency and performer: fiscal year 2000

[Dollars in millions]

Agency and subdivision	Total	Intra-mural [1]	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by in-dustrial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other non-profit insti-tutions	FFRDCs admin by nonprofit insti-tutions	State and local govts	
Dept of Health & Human Svcs, total	16,147.5	3,225.0	884.6	194.3	9,181.5	35.9	2,380.8	24.4	171.8	49.0
Administration on Aging	18.4	.5	.2	.0	1.4	.0	10.1	.0	6.3	.0
Admin for Children & Families	28.0	1.1	2.7	.0	14.7	.0	8.3	.0	1.3	-
Agcy for Health Care Policy & Rsch	206.3	94.8	52.2	.0	37.8	.0	21.1	.0	.0	.3
Centers for Disease Control & Prevention	468.6	357.1	41.1	.0	61.4	.0	3.3	.0	5.8	.0
Food & Drug Administration	151.7	126.2	4.3	.0	15.0	.0	5.8	.0	.1	.3
Health Care Financing Admin	55.0	.1	36.2	.0	7.7	.0	9.4	.0	1.7	.0
Health Resources & Services Admin	13.1	2.8	.0	.0	7.8	.0	2.5	.0	.0	.0
National Institutes of Health	15,107.9	2,637.8	745.8	194.3	9,005.6	35.9	2,283.2	24.4	132.4	48.4
Office of the Secretary, total	18.5	4.5	2.0	.0	7.1	.0	2.0	.0	3.0	.0
Office of the Assistant Secretary, Planning & Evaluation	14.0	4.0	2.0	.0	3.0	.0	2.0	.0	3.0	.0
Office of Public Hlth & Science	4.5	.5	.0	.0	4.1	.0	.0	.0	.0	.0
Substance Abuse & Mental Health Services Administration [3]	80.0	.1	.0	.0	23.3	.0	35.3	.0	21.3	.0
Dept of Housing & Urban Development	50.6	31.4	10.6	.0	1.3	.0	7.2	.0	.0	.0
Department of the Interior, total	584.6	511.8	14.6	.0	49.1	.0	.7	.0	7.2	1.2
Bureau of Reclamation	9.9	7.9	.0	.0	1.8	.0	.2	.0	.1	.0
Geological Survey	514.3	478.5	5.0	.0	24.0	.0	.0	.0	6.9	.0
Minerals Management Service	28.6	7.3	7.6	.0	11.9	.0	.3	.0	.2	1.2
National Park Service	31.8	18.2	2.0	.0	11.4	.0	.3	.0	.0	.0
Department of Justice, total	81.8	39.7	8.7	.0	11.7	.0	6.6	.0	15.0	.0
Bureau of Prisons	8.0	3.0	.0	.0	.0	.0	.0	.0	5.0	.0
Federal Bureau of Investigation	36.2	36.2	.0	.0	.0	.0	.0	.0	.0	.0
Immigration & Naturalization Svc	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0
Office of Justice Programs	37.1	-	8.7	.0	11.7	.0	6.6	.0	10.0	.0
Department of Labor, total	25.9	15.5	6.1	.0	1.3	.0	3.0	.0	.0	.0
Bureau of Labor Statistics	12.4	12.4	.0	.0	.0	.0	.0	.0	.0	.0
Employment & Training Admin	4.4	.2	.0	.0	1.2	.0	3.0	.0	.0	.0
Occupational Safety & Health Admin	5.3	1.8	3.4	.0	.0	.0	.0	.0	.0	.0
Office of the Secretary	.2	.1	.0	.0	.1	.0	.0	.0	.0	.0
Pension Benefit Guaranty Corp	.7	.3	.4	.0	.0	.0	.0	.0	.0	.0
Pension & Welfare Benefits Admin	3.0	.8	2.2	.0	.0	.0	.0	.0	.0	.0
Department of State [4]	1.0	.3	.6	.0	.0	-	.0	.0	.0	.0
Department of Transportation, total	929.8	286.2	337.3	5.8	44.7	.1	71.5	7.2	176.3	.7
Coast Guard	22.7	13.5	8.9	.3	.0	.0	.0	.0	.0	.0
Federal Aviation Administration	233.7	73.1	135.2	2.6	15.6	.0	.0	7.2	.0	.0
Federal Highway Administration	559.7	137.4	164.3	2.3	13.9	.0	68.4	.0	173.4	.0
Federal Railroad Administration	23.9	13.0	8.7	.0	1.7	.0	.4	.0	.0	.2
Federal Transit Administration	19.2	2.5	3.6	.6	7.7	.0	2.0	.0	2.9	.0
Nat'l Highway Traffic Safety Admin	58.7	37.6	14.1	.0	5.9	.0	.6	.0	.0	.6
Office of the Secretary	4.5	4.5	.0	.0	.0	.0	.0	.0	.0	.0
Research & Special Programs Admin	7.5	4.8	2.6	.0	.0	.1	.1	.0	.0	.0
Department of the Treasury, total	86.3	44.8	41.4	.0	.0	.0	.0	.0	.0	.0
Bureau of Engraving & Printing	2.4	2.4	.0	.0	.0	.0	.0	.0	.0	.0
Internal Revenue Service	73.7	38.1	35.6	.0	.0	.0	.0	.0	.0	.0
Office of Thrift Supervision	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0
United States Customs Service	8.3	3.0	5.2	.0	.0	.0	.0	.0	.0	.0
United States Mint	.5	.1	.4	.0	.0	.0	.0	.0	.0	.0
United States Secret Service	.6	.4	.2	.0	.0	.0	.0	.0	.0	.0
Department of Veterans Affairs	316.0	316.0	.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 total research and development, by agency and performer: fiscal year 2000

[Dollars in millions]

Agency and subdivision	Total	Intra-mural [1]	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by in-dustrial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other non-profit insti-tutions	FFRDCs admin by nonprofit insti-tutions	State and local govts	
Other agencies:										
Appalachian Regional Commission	.8	-	.2	.0	.4	.0	.2	.0	.0	.0
Consumer Product Safety Commission	1.3	.3	1.1	.0	.0	.0	.0	.0	.0	.0
Environmental Protection Agency	534.9	230.5	87.3	.0	139.3	.0	60.1	.0	14.7	3.0
Federal Communications Commission	2.7	2.7	.0	.0	.0	.0	.0	.0	.0	.0
Federal Trade Commission	1.4	1.4	.0	.0	.0	.0	.0	.0	.0	.0
International Development Cooperation Agency, total	194.1	23.1	9.0	.0	12.0	.0	132.4	.0	.0	17.6
Agcy for International Dvlpmt [5]	194.1	23.1	9.0	.0	12.0	.0	132.4	.0	.0	17.6
Library of Congress	1.8	1.3	.5	.0	-	.0	.0	.0	.0	.0
National Aeronautics & Space Admin	9,370.3	2,346.1	4,429.7	4.0	786.6	1,367.4	369.7	5.9	13.5	47.5
National Archives & Records Admin	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0
National Science Foundation	2,698.3	20.0	114.0	.0	2,214.1	165.0	169.8	.2	4.3	10.9
Nuclear Regulatory Commission	46.6	14.3	2.3	14.3	3.6	8.2	.3	1.6	.0	2.1
Smithsonian Institution	129.0	129.0	.0	.0	.0	.0	.0	.0	.0	.0
Social Security Administration	36.9	3.4	22.1	.0	6.1	.0	1.1	.0	4.2	.0
United States Information Agency	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0
US International Trade Commission	7.1	7.1	.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 The Defense Threat Reduction Agency (DTRA) was established on October 1, 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.

3 Data for fiscal years 1998-2000 from the Substance Abuse & Mental Health Services Administration (SAMHSA) are estimates based on SAMHSA's obligations by program activity budget and previously reported funding for development.

4 Effective April 1, 1999, all functions and authorities of the United States Arms Control & Disarmament Agency were transferred to the Department of State.

5 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 (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-1996). More accurate data for AID will be reported in future volumes of this survey.

NOTES: Because of rounding, detail may not add to totals.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

Beginning with Vol. 44, Department of Defense development obligations are reported in two categories: advanced technology and major systems.

KEY: - = Amount less than 50 thousand dollars
FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-11. Federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: fiscal year 1998

[Dollars in thousands]

Agency and subdivision	Research and development				R&D plant			
	Total	Admin by indus-trial firms	Admin by univs & colleges	Admin by other nonprofit insts	Total	Admin by indus-trial firms	Admin by univs & colleges	Admin by other nonprofit insts
Total, all agencies	5,681,992	1,188,850	3,890,155	602,987	721,349	45,581	663,620	12,148
Department of Commerce, total	27	0	27	0	0	0	0	0
Nat'l Inst of Standards & Tech	27	0	27	0	0	0	0	0
Department of Defense, total	740,154	85,021	347,206	307,927	127	0	127	0
Department of the Air Force	261,670	18,500	104,504	138,666	0	0	0	0
Department of the Army	58,587	2,736	30,099	25,752	127	0	127	0
Department of the Navy	111,427	6,798	42,702	61,927	0	0	0	0
Defense Agencies, total	288,005	56,987	169,901	61,117	0	0	0	0
Ballistic Missile Defense Org	104,531	23,646	58,313	22,572	0	0	0	0
Defense Adv Rsch Projects Agcy	102,893	9,989	68,658	24,246	0	0	0	0
Defense Info Systems Agcy	5,755	506	312	4,937	0	0	0	0
Defense Logistics Agency	1,235	0	100	1,135	0	0	0	0
Defense Threat Reduction Agency[1]	10,320	4,132	5,361	827	0	0	0	0
Special Operations Command	1,543	1,543	0	0	0	0	0	0
Washington Headquarters Svcs	61,728	17,171	37,157	7,400	0	0	0	0
Operational Test & Evaluation, Director	14,805	0	0	14,805	0	0	0	0
Test & Evaluation, Deputy Under Secretary of Defense	5,660	0	0	5,660	0	0	0	0
Department of Energy	3,414,868	918,225	2,236,172	260,471	684,667	44,081	628,438	12,148
Dept of Health & Human Svcs, total	213,916	163,223	30,182	20,511	1,500	1,500	0	0
National Institutes of Health	213,916	163,223	30,182	20,511	1,500	1,500	0	0
Department of State[2]	15	0	15	0	0	0	0	0
Department of Transportation, total	13,995	4,337	3,427	6,231	0	0	0	0
Coast Guard	500	500	0	0	0	0	0	0
Federal Aviation Administration	8,389	2,228	0	6,161	0	0	0	0
Federal Highway Administration	4,979	1,609	3,370	0	0	0	0	0
Research & Special Programs Admin	127	0	57	70	0	0	0	0
Other agencies:								
National Aeronautics & Space Admin	1,133,437	3,980	1,123,543	5,914	12,000	0	12,000	0
National Science Foundation	139,290	0	139,079	211	23,055	0	23,055	0
Nuclear Regulatory Commission	26,290	14,064	10,504	1,722	0	0	0	0

1 The Defense Threat Reduction Agency (DTRA) was established on October 1, 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.

2 Effective April 1, 1999, all functions and authorities of the United States Arms Control & Disarmament Agency were transferred to the Department of State.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-12. Preliminary Federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: fiscal year 1999

[Dollars in thousands]

Agency and subdivision	Research and development				R&D plant			
	Total	Admin by indus-trial firms	Admin by univs & colleges	Admin by other nonprofit insts	Total	Admin by indus-trial firms	Admin by univs & colleges	Admin by other nonprofit insts
Total, all agencies	6,058,902	1,294,582	4,107,968	656,352	837,578	172,300	650,647	14,631
Department of Commerce, total	111	0	111	0	0	0	0	0
Nat'l Inst of Standards & Tech	29	0	29	0	0	0	0	0
Nat'l Oceanic & Atmospheric Admin	82	0	82	0	0	0	0	0
Department of Defense, total	732,299	109,598	294,508	328,193	180	0	180	0
Department of the Air Force	219,894	18,391	72,456	129,047	0	0	0	0
Department of the Army	90,807	10,691	37,825	42,291	180	0	180	0
Department of the Navy	105,134	6,651	30,187	68,296	0	0	0	0
Defense Agencies, total	290,496	73,865	154,040	62,591	0	0	0	0
Ballistic Missile Defense Org	108,138	44,254	48,703	15,181	0	0	0	0
Defense Adv Rsch Projects Agcy	100,866	9,903	68,533	22,430	0	0	0	0
Defense Info Systems Agcy	6,429	0	318	6,111	0	0	0	0
Defense Logistics Agency	1,705	115	0	1,590	0	0	0	0
Defense Threat Reduction Agency[1]	11,053	3,870	5,828	1,355	0	0	0	0
Special Operations Command	1,250	1,250	0	0	0	0	0	0
Washington Headquarters Svcs	61,055	14,473	30,658	15,924	0	0	0	0
Operational Test & Evaluation, Director	17,835	0	0	17,835	0	0	0	0
Test & Evaluation, Deputy Under Secretary of Defense	8,133	0	0	8,133	0	0	0	0
Department of Energy	3,734,291	970,841	2,472,953	290,497	797,046	170,800	611,615	14,631
Dept of Health & Human Svcs, total	248,768	189,816	35,099	23,853	1,500	1,500	0	0
National Institutes of Health	248,768	189,816	35,099	23,853	1,500	1,500	0	0
Department of State[2]	15	0	15	0	0	0	0	0
Department of Transportation, total	11,753	4,900	630	6,223	0	0	0	0
Coast Guard	400	400	0	0	0	0	0	0
Federal Aviation Administration	8,473	2,250	0	6,223	0	0	0	0
Federal Highway Administration	2,640	2,250	390	0	0	0	0	0
Research & Special Programs Admin	240	0	240	0	0	0	0	0
Other agencies:								
National Aeronautics & Space Admin	1,153,676	3,980	1,143,782	5,914	13,700	0	13,700	0
National Science Foundation	153,357	0	153,126	231	25,152	0	25,152	0
Nuclear Regulatory Commission	24,632	15,447	7,744	1,441	0	0	0	0

[1] The Defense Threat Reduction Agency (DTRA) was established on October 1, 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.

[2] Effective April 1, 1999, all functions and authorities of the United States Arms Control & Disarmament Agency were transferred to the Department of State.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-13. Preliminary Federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: fiscal year 2000

[Dollars in thousands]

Agency and subdivision	Research and development				R&D plant			
	Total	Admin by indus-trial firms	Admin by univs & colleges	Admin by other nonprofit insts	Total	Admin by indus-trial firms	Admin by univs & colleges	Admin by other nonprofit insts
Total, all agencies	6,478,165	1,336,966	4,470,653	670,546	929,011	248,852	668,184	11,975
Department of Commerce, total	29	0	29	0	0	0	0	0
Nat'l Inst of Standards & Tech	29	0	29	0	0	0	0	0
Department of Defense, total	670,032	100,632	231,119	338,281	0	0	0	0
Department of the Air Force	136,647	22,117	8,227	106,303	0	0	0	0
Department of the Army	62,147	8,463	30,271	23,413	0	0	0	0
Department of the Navy	108,249	6,361	30,823	71,065	0	0	0	0
Defense Agencies, total	336,130	63,691	161,798	110,641	0	0	0	0
Ballistic Missile Defense Org	78,738	33,557	35,079	10,102	0	0	0	0
Defense Adv Rsch Projects Agcy	106,096	10,384	72,577	23,135	0	0	0	0
Defense Info Systems Agcy	5,835	0	325	5,510	0	0	0	0
Defense Logistics Agency	300	200	0	100	0	0	0	0
Defense Threat Reduction Agency[1]	12,547	4,349	6,622	1,576	0	0	0	0
Special Operations Command	1,163	1,163	0	0	0	0	0	0
Washington Headquarters Svcs	131,451	14,038	47,195	70,218	0	0	0	0
Operational Test & Evaluation, Director	17,900	0	0	17,900	0	0	0	0
Test & Evaluation, Deputy Under Secretary of Defense	8,959	0	0	8,959	0	0	0	0
Department of Energy	3,973,798	1,018,016	2,662,866	292,916	893,797	247,352	634,470	11,975
Dept of Health & Human Svcs, total	254,654	194,307	35,930	24,417	1,500	1,500	0	0
National Institutes of Health	254,654	194,307	35,930	24,417	1,500	1,500	0	0
Department of State[2]	15	0	15	0	0	0	0	0
Department of Transportation, total	12,998	5,768	74	7,156	0	0	0	0
Coast Guard	300	300	0	0	0	0	0	0
Federal Aviation Administration	9,744	2,588	0	7,156	0	0	0	0
Federal Highway Administration	2,280	2,280	0	0	0	0	0	0
Federal Transit Administration	600	600	0	0	0	0	0	0
Research & Special Programs Admin	74	0	74	0	0	0	0	0
Other agencies:								
National Aeronautics & Space Admin	1,377,337	3,980	1,367,443	5,914	9,800	0	9,800	0
National Science Foundation	165,264	0	165,016	248	23,914	0	23,914	0
Nuclear Regulatory Commission	24,038	14,263	8,161	1,614	0	0	0	0

[1] The Defense Threat Reduction Agency (DTRA) was established on October 1, 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.

[2] Effective April 1, 1999, all functions and authorities of the United States Arms Control & Disarmament Agency were transferred to the Department of State.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-14. Federal obligations for research and development to federally funded research and development centers (FFRDCs), by individual FFRDC and agency: fiscal year 1998

[Dollars in thousands]

Federally funded research and development centers	Total	Dept of Commerce	Dept of Defense	Dept of Energy	Dept of Health & Human Services	National Aero-nautics & Space Admin	National Science Founda-tion	Other
Total, all FFRDCs	5,681,992	27	740,154	3,414,868	213,916	1,133,437	139,290	40,300
FFRDCs administered by industrial firms	1,188,850	0	85,021	918,225	163,223	3,980	0	18,401
Idaho National Engineering Lab	59,825	0	2,442	53,167	0	100	0	4,116
NCI Frederick Cancer Rsch & Dvlpmt Ctr	163,223	0	0	0	163,223	0	0	0
Oak Ridge National Laboratory	313,532	0	15,868	286,521	0	3,628	0	7,515
Sandia National Laboratories	634,029	0	66,661	560,346	0	252	0	6,770
Savannah River Technology Center	18,241	0	50	18,191	0	0	0	0
FFRDCs administered by universities & colleges[1]	3,890,155	27	347,206	2,236,172	30,182	1,123,543	139,079	13,946
Ames Laboratory	20,824	0	1,205	19,619	0	0	0	0
Argonne National Laboratory	225,021	0	8,601	210,692	0	270	0	5,458
Brookhaven National Laboratory	216,647	27	1,100	207,628	1,749	1,953	842	3,348
Ernest Orlando Lawrence Berkeley National Laboratory	236,981	0	17,849	199,991	16,588	2,382	171	0
Fermi National Accelerator Lab	179,376	0	0	179,376	0	0	0	0
Jet Propulsion Laboratory	1,134,804	0	18,998	0	0	1,115,763	43	0
Lawrence Livermore National Lab	648,135	0	34,816	605,393	5,442	2,148	0	336
Lincoln Laboratory	152,146	0	151,890	0	0	256	0	0
Los Alamos National Laboratory	605,519	0	19,666	574,436	6,122	390	101	4,804
National Astronomy & Ionosphere Ctr	8,058	0	0	0	0	0	8,058	0
National Center for Atmospheric Rsch	63,328	0	16	0	0	381	62,931	0
National Optical Astronomy Observatories[2]	36,485	0	0	0	0	0	36,485	0
National Radio Astronomy Observatory	30,448	0	0	0	0	0	30,448	0
Oak Ridge Institute for Science & Ed	10,256	0	0	9,975	281	0	0	0
Princeton Plasma Physics Laboratory	113,451	0	76,179	37,272	0	0	0	0
Software Engineering Institute	16,886	0	16,886	0	0	0	0	0
Stanford Linear Accelerator Center	130,045	0	0	130,045	0	0	0	0
Thomas Jefferson National Accelerator Facility[3]	61,745	0	0	61,745	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 (FFRDCs), by individual FFRDC and agency: fiscal year 1998

[Dollars in thousands]

Federally funded research and development centers	Total	Dept of Commerce	Dept of Defense	Dept of Energy	Dept of Health & Human Services	National Aero-nautics & Space Admin	National Science Founda-tion	Other
FFRDCs administered by nonprofit institutions[4]	602,987	0	307,927	260,471	20,511	5,914	211	7,953
Aerospace Federally Funded Research & Development Center	89,270	0	86,265	0	0	2,892	113	0
Arroyo Center[5]	4,663	0	4,663	0	0	0	0	0
C3I Federally Funded Research & Development Center[6]	129,893	0	129,347	0	546	0	0	0
Center for Advanced Aviation System Development[6]	12,719	0	7,825	0	0	0	0	4,894
Center for Naval Analyses	40,357	0	40,346	0	0	0	11	0
Center for Nuclear Waste Regulatory Analyses[7]	700	0	700	0	0	0	0	0
Critical Technologies Institute[5]	70	0	0	0	0	0	0	70
Institute for Defense Analyses Studies & Analyses FFRDC	31,170	0	31,083	0	0	0	87	0
Logistics Management Institute[8]	3,800	0	828	0	0	2,972	0	0
National Defense Research Institute[5]	16,452	0	1,713	0	14,689	50	0	0
National Renewable Energy Laboratory[9]	123,027	0	30	122,997	0	0	0	0
Pacific Northwest National Laboratory	150,455	0	4,716	137,474	5,276	0	0	2,989

1 Includes university consortia.

2 Since February 1984 this center has included three former FFRDCs: Cerro Tololo Inter-American Observatory, Kitt Peak National Observatory and the National Solar Observatory (formerly Sacramento Peak Observatory).

3 In May 1996 the name was changed from Continuous Electron Beam Accelerator Facility.

4 That is, other than universities and colleges.

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

6 Only the C3I Federally Funded Research & Development Center and the Center for Advanced Aviation System Development parts of the MITRE Corp. are FFRDCs. All other agency support to MITRE is reported under "other nonprofit institutions excluding FFRDCs."

7 Beginning in fiscal year 1996, the Nuclear Regulatory Commission classified its funds to the Center for Nuclear Waste Regulatory Analyses (Southwest Research Institute) as technical support, not research and development.

8 Logistics Management Institute moved from Bethesda, MD, to McLean, VA, in May 1994.

9 In September 1991 the name was changed from Solar Energy Research Institute.

NOTES: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

The Department of the Army decertified the Institute for Advanced Technology (University of Texas), Austin, TX as an FFRDC in November 1993.

The Department of Energy decertified Bettis Atomic Power Laboratory, Hanford Engineering Development Laboratory, and Knolls Atomic Power Laboratory as FFRDCs in October/November 1992. The Department of Energy removed from the Master Government List of FFRDCs: the Energy Technology Engineering Center in November 1995, and the Inhalation Toxicology Research Institute in May 1996.

Critical Technologies Institute (CTI), as established in 1992, supports sciences and technology policy. The National Science Foundation has determined that CTI's activities are classified as non-investment and do not fit within the definitions of basic or applied research or development.

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-15. Federal obligations for R&D plant to federally funded research and development centers (FFRDCs), by individual FFRDC and agency: fiscal year 1998

[Dollars in thousands]

Federally funded research and development centers	Total	Dept of Commerce	Dept of Defense	Dept of Energy	Dept of Health & Human Services	National Aero-nautics & Space Admin	National Science Founda-tion	Other
Total, all FFRDCs	721,349	0	127	684,667	1,500	12,000	23,055	0
FFRDCs administered by industrial firms	45,581	0	0	44,081	1,500	0	0	0
Idaho National Engineering Lab	366	0	0	366	0	0	0	0
NCI Frederick Cancer Rsch & Dvlpmt Ctr	1,500	0	0	0	1,500	0	0	0
Oak Ridge National Laboratory	26,414	0	0	26,414	0	0	0	0
Sandia National Laboratories	17,301	0	0	17,301	0	0	0	0
FFRDCs administered by universities & colleges[1]	663,620	0	127	628,438	0	12,000	23,055	0
Ames Laboratory	3,877	0	0	3,877	0	0	0	0
Argonne National Laboratory	33,965	0	127	33,838	0	0	0	0
Brookhaven National Laboratory	97,839	0	0	97,839	0	0	0	0
Ernest Orlando Lawrence Berkeley National Laboratory	37,815	0	0	37,815	0	0	0	0
Fermi National Accelerator Lab	97,517	0	0	97,517	0	0	0	0
Jet Propulsion Laboratory	12,000	0	0	0	0	12,000	0	0
Lawrence Livermore National Lab	218,673	0	0	218,673	0	0	0	0
Los Alamos National Laboratory	75,194	0	0	75,194	0	0	0	0
National Center for Atmospheric Rsch	9,641	0	0	0	0	0	9,641	0
National Optical Astronomy Observatories[2]	4,000	0	0	0	0	0	4,000	0
National Radio Astronomy Observatory	9,414	0	0	0	0	0	9,414	0
Oak Ridge Institute for Science & Ed	1,284	0	0	1,284	0	0	0	0
Princeton Plasma Physics Laboratory	13,293	0	0	13,293	0	0	0	0
Stanford Linear Accelerator Center	41,613	0	0	41,613	0	0	0	0
Thomas Jefferson National Accelerator Facility[3]	7,495	0	0	7,495	0	0	0	0
FFRDCs administered by nonprofit institutions[4]	12,148	0	0	12,148	0	0	0	0
National Renewable Energy Laboratory[5]	2,738	0	0	2,738	0	0	0	0
Pacific Northwest National Laboratory	9,410	0	0	9,410	0	0	0	0

1 Includes university consortia.

2 Since February 1984 this center has included three former FFRDCs: Cerro Tololo Inter-American Observatory, Kitt Peak National Observatory and the National Solar Observatory (formerly Sacramento Peak Observatory).

3 In May 1996 the name was changed from Continuous Electron Beam Accelerator Facility.

4 That is, other than universities and colleges.

5 In September 1991 the name was changed from Solar Energy Research Institute.

NOTES: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

The Department of the Army decertified the Institute for Advanced Technology (University of Texas), Austin, TX as an FFRDC in November 1993.

The Department of Energy decertified Bettis Atomic Power Laboratory, Hanford Engineering Development Laboratory, and Knolls Atomic Power Laboratory as FFRDCs in October/November 1992. The Department of Energy removed from the Master Government List of FFRDCs: the Energy Technology Engineering Center in November 1995, and the Inhalation Toxicology Research Institute in May 1996.

Critical Technologies Institute (CTI), as established in 1992, supports sciences and technology policy. The National Science Foundation has determined that CTI's activities are classified as non-investment and do not fit within the definitions of basic or applied research or development.

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-16. Federal obligations for research, by agency and performer: fiscal year 1998 (revised)

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural [1]	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by in-dustrial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Total, all agencies	30,922,269	7,964,727	4,635,074	844,134	11,741,033	2,742,980	2,425,249	214,489	240,080	114,503
Departments:										
Department of Agriculture, total	1,333,905	897,124	10,858	0	408,122	0	12,206	0	1,827	3,768
Agricultural Marketing Service	4,018	3,714	0	0	274	0	0	0	30	0
Agricultural Research Service	689,730	649,727	0	0	34,704	0	2,438	0	9	2,852
Cooperative State Research, Education, & Extension Service	386,445	19,923	8,920	0	349,997	0	6,383	0	1,222	0
Economic Research Service	71,547	63,077	1,900	0	4,961	0	467	0	311	831
Food Safety Inspection Service	125	125	0	0	0	0	0	0	0	0
Foreign Agricultural Service	1,422	971	0	0	451	0	0	0	0	0
Forest Service	172,300	154,710	38	0	15,610	0	1,602	0	255	85
Grain Inspection Packers & Stockyards Administration	549	549	0	0	0	0	0	0	0	0
Nat'l Agricultural Statistics Svc	3,333	3,112	0	0	205	0	16	0	0	0
Rural Business-Cooperative Svc	4,436	1,216	0	0	1,920	0	1,300	0	0	0
Department of Commerce, total	806,993	625,411	79,211	0	99,042	22	2,787	0	323	197
Bureau of the Census	5,166	5,166	0	0	0	0	0	0	0	0
Economic Development Admin	557	50	19	0	288	0	200	0	0	0
Nat'l Inst of Standards & Tech	305,376	209,924	75,266	0	19,356	22	611	0	0	197
Nat'l Oceanic & Atmospheric Admin	492,128	406,505	3,926	0	79,398	0	1,976	0	323	0
National Telecommunications & Information Administration	3,766	3,766	0	0	0	0	0	0	0	0
Department of Defense, total	3,969,891	1,407,916	1,371,604	12,053	964,689	84,369	86,489	17,464	0	25,307
Department of the Air Force	736,879	394,410	236,047	275	85,722	521	14,467	2,715	0	2,722
Department of the Army	817,841	454,988	224,863	274	108,916	655	20,562	3,793	0	3,790
Department of the Navy	822,158	323,021	231,196	2,258	225,873	8,319	22,169	1,968	0	7,354
Defense Agencies, total	1,593,013	235,497	679,498	9,246	544,178	74,874	29,291	8,988	0	11,441
Ballistic Missile Defense Org	126,801	24,783	83,050	100	7,081	9,536	541	0	0	1,710
Defense Adv Rsch Projects Agcy	856,268	68,221	434,870	5,121	261,874	43,494	28,332	7,818	0	6,538
Defense Info Systems Agcy	1,094	1,094	0	0	0	0	0	0	0	0
Defense Logistics Agency	8,016	7,171	0	0	0	0	0	845	0	0
Defense Threat Reduction Agency [2]	205,073	61,136	130,687	3,940	2,414	3,985	0	125	0	2,786
Special Operations Command	15,696	4,755	9,578	0	1,363	0	0	0	0	0
Washington Headquarters Svcs	380,065	68,337	21,313	85	271,446	17,859	418	200	0	407
Department of Education	148,742	6,997	5,158	0	103,202	0	32,383	0	1,002	0
Department of Energy	3,787,511	183,005	202,914	669,206	563,536	1,934,102	65,786	164,943	2,955	1,064

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

Table C-16. Federal obligations for research, by agency and performer: fiscal year 1998 (revised)

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural [1]	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by in-dustrial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Dept of Health & Human Svcs, total	12,018,474	2,437,547	655,528	143,310	6,854,037	27,722	1,729,181	19,124	114,666	37,359
Administration on Aging	2,435	185	0	0	0	0	250	0	2,000	0
Admin for Children & Families	23,456	948	2,080	0	9,874	0	8,621	0	1,895	38
Agcy for Hlth Care Policy & Rsch	138,798	28,467	52,297	0	37,020	0	20,770	0	0	244
Centers for Disease Control & Prevention	343,559	239,825	33,336	0	61,368	0	3,260	0	5,770	0
Food & Drug Administration	142,937	118,796	4,089	0	14,155	0	5,492	0	70	335
Health Care Financing Admin	51,236	353	38,190	0	5,329	0	6,006	0	1,089	269
Health Resources & Services Admin	12,925	2,960	0	0	7,529	0	2,436	0	0	0
National Institutes of Health	11,289,180	2,041,475	524,275	143,310	6,715,863	27,722	1,680,106	19,124	100,832	36,473
Office of the Secretary, total	13,948	4,538	1,261	0	2,899	0	2,240	0	3,010	0
Office of the Asst Secretary, Planning & Evaluation	13,948	4,538	1,261	0	2,899	0	2,240	0	3,010	0
Dept of Housing & Urban Development	9,211	6,263	913	0	478	0	1,557	0	0	0
Department of the Interior, total	502,852	436,263	11,136	0	46,365	0	731	0	7,292	1,065
Bureau of Reclamation	6,626	5,557	0	0	656	0	173	0	240	0
Geological Survey	437,198	407,461	1,930	0	20,997	0	0	0	6,810	0
Minerals Management Service	29,286	6,614	7,505	0	13,578	0	282	0	242	1,065
National Park Service	29,742	16,631	1,701	0	11,134	0	276	0	0	0
Department of Justice, total	42,005	3,366	10,920	0	18,201	0	7,312	0	2,206	0
Bureau of Prisons	4,326	2,500	0	0	0	0	0	0	1,826	0
Office of Justice Programs	37,679	866	10,920	0	18,201	0	7,312	0	380	0
Department of Labor, total	22,079	10,689	4,108	0	6,208	0	1,074	0	0	0
Bureau of Labor Statistics	12,400	8,400	0	0	4,000	0	0	0	0	0
Employment & Training Admin	2,197	47	0	0	2,100	0	50	0	0	0
Occupational Safety & Hlth Admin	4,592	1,697	2,895	0	0	0	0	0	0	0
Office of the Secretary	95	30	0	0	65	0	0	0	0	0
Pension Benefit Guaranty Corp	55	55	0	0	0	0	0	0	0	0
Pension & Welfare Benefits Admin	2,740	460	1,213	0	43	0	1,024	0	0	0
Department of State [3]	852	324	513	0	0	15	0	0	0	0
Department of Transportation, total	401,046	104,542	164,759	4,147	25,801	3,427	10,125	6,231	81,452	562
Coast Guard	5,110	3,285	1,325	500	0	0	0	0	0	0
Federal Aviation Administration	151,550	31,506	107,989	2,228	3,666	0	0	6,161	0	0
Federal Highway Administration	169,605	30,417	33,975	1,419	11,633	3,370	7,339	0	81,452	0
Federal Railroad Administration	21,191	9,360	9,945	0	350	0	1,404	0	0	132
Federal Transit Administration	7,400	400	0	0	6,000	0	1,000	0	0	0
National Highway Traffic Safety Administration	41,621	26,637	10,199	0	4,048	0	307	0	0	430
Research & Special Programs Admin	4,569	2,937	1,326	0	104	57	75	70	0	0
Department of the Treasury, total	52,553	38,746	13,807	0	0	0	0	0	0	0
Bureau of Engraving & Printing	2,676	2,676	0	0	0	0	0	0	0	0
Internal Revenue Service	47,942	35,053	12,889	0	0	0	0	0	0	0
Office of Thrift Supervision	684	684	0	0	0	0	0	0	0	0
United States Customs Service	776	50	726	0	0	0	0	0	0	0
United States Secret Service	475	283	192	0	0	0	0	0	0	0
Department of Veterans Affairs	269,066	269,066	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: fiscal year 1998 (revised)

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural [1]	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by in-dustrial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Other agencies:										
Appalachian Regional Commission	680	15	200	0	400	0	65	0	0	0
Environmental Protection Agency	477,200	246,929	66,512	0	106,099	0	44,748	0	11,204	1,708
Federal Communications Commission	3,025	3,025	0	0	0	0	0	0	0	0
Federal Trade Commission	1,144	1,144	0	0	0	0	0	0	0	0
Internat'l Development Cooperation Agency, total	172,923	19,040	10,266	0	11,996	0	110,870	0	0	20,751
Agcy for Internat'l Development [4]	172,923	19,040	10,266	0	11,996	0	110,870	0	0	20,751
Library of Congress	455	455	0	0	0	0	0	0	0	0
National Aeronautics & Space Admin	4,413,651	1,104,392	1,918,670	1,354	647,500	543,740	174,016	4,794	7,747	11,438
National Archives & Records Admin	120	120	0	0	0	0	0	0	0	0
National Science Foundation	2,289,337	16,954	101,421	0	1,874,860	139,079	144,022	211	3,596	9,194
Nuclear Regulatory Commission	51,700	14,301	3,486	14,064	5,180	10,504	353	1,722	0	2,090
Smithsonian Institution	120,000	120,000	0	0	0	0	0	0	0	0
Social Security Administration	17,422	2,336	2,415	0	5,317	0	1,544	0	5,810	0
Tennessee Valley Authority	809	809	0	0	0	0	0	0	0	0
US Arms Control & Disarmament Agcy [3]	1,200	525	675	0	0	0	0	0	0	0
United States Information Agency	258	258	0	0	0	0	0	0	0	0
US International Trade Commission	7,165	7,165	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 The Defense Threat Reduction Agency (DTRA) was established on October 1, 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.

3 Effective April 1, 1999, all functions and authorities of the United States Arms Control & Disarmament Agency were transferred to the Department of State.

4 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 (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-1996). More accurate data for AID will be reported in future volumes of this survey.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-17. Preliminary Federal obligations for research, by agency and performer: fiscal year 1999

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural [1]	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by in-dustrial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Total, all agencies	33,821,686	8,440,098	4,906,953	896,428	13,191,687	2,962,339	2,729,830	245,534	329,832	118,985
Departments:										
Department of Agriculture, total	1,516,432	956,872	14,111	0	529,192	0	11,745	0	1,426	3,086
Agricultural Marketing Service	4,000	4,000	0	0	0	0	0	0	0	0
Agricultural Research Service	757,942	711,060	0	0	41,434	0	2,438	0	9	3,001
Cooperative State Research, Education, & Extension Service	506,189	22,971	14,073	0	461,648	0	6,335	0	1,162	0
Economic Research Service	64,966	55,897	0	0	9,069	0	0	0	0	0
Food Safety Inspection Service	125	125	0	0	0	0	0	0	0	0
Foreign Agricultural Service	1,422	971	0	0	451	0	0	0	0	0
Forest Service	174,500	156,910	38	0	15,610	0	1,602	0	255	85
Grain Inspection Packers & Stockyards Administration	549	549	0	0	0	0	0	0	0	0
Nat'l Agricultural Statistics Svc	3,221	2,971	0	0	180	0	70	0	0	0
Rural Business-Cooperative Svc	3,518	1,418	0	0	800	0	1,300	0	0	0
Department of Commerce, total	881,959	680,447	104,276	0	94,443	104	2,226	0	266	197
Bureau of the Census	9,854	9,854	0	0	0	0	0	0	0	0
Economic Development Admin	550	50	300	0	0	0	200	0	0	0
Nat'l Inst of Standards & Tech	330,365	218,446	99,908	0	11,181	22	611	0	0	197
Nat'l Oceanic & Atmospheric Admin	537,307	448,214	4,068	0	83,262	82	1,415	0	266	0
National Telecommunications & Information Administration	3,883	3,883	0	0	0	0	0	0	0	0
Department of Defense, total	4,141,930	1,427,588	1,437,009	18,065	1,025,537	75,240	104,412	29,529	1,982	22,568
Department of the Air Force	752,586	379,657	237,663	2,092	101,437	874	25,071	2,372	0	3,420
Department of the Army	878,206	457,803	239,067	4,296	135,682	372	22,974	15,126	1,982	904
Department of the Navy	895,570	355,057	256,477	2,303	243,414	4,868	23,675	1,757	0	8,019
Defense Agencies, total	1,615,568	235,071	703,802	9,374	545,004	69,126	32,692	10,274	0	10,225
Ballistic Missile Defense Org	115,170	21,559	87,756	0	4,304	1,451	100	0	0	0
Defense Adv Rsch Projects Agcy	936,546	74,563	477,429	5,793	284,136	47,286	31,446	8,559	0	7,334
Defense Info Systems Agcy	2,389	2,389	0	0	0	0	0	0	0	0
Defense Logistics Agency	8,151	6,761	0	0	0	0	0	1,390	0	0
Defense Threat Reduction Agency [2]	183,996	54,831	117,264	3,501	2,208	3,491	0	125	0	2,576
Special Operations Command	18,657	5,653	12,107	0	897	0	0	0	0	0
Washington Headquarters Svcs	350,659	69,315	9,246	80	253,459	16,898	1,146	200	0	315
Department of Education	153,917	7,864	6,053	0	105,814	0	33,104	0	1,082	0
Department of Energy	4,130,134	229,667	273,779	690,203	565,628	2,117,873	67,625	180,985	3,250	1,124

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

Table C-17. Preliminary Federal obligations for research, by agency and performer: fiscal year 1999

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural [1]	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by in-dustrial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Dept of Health & Human Svcs, total	13,697,084	2,631,288	736,684	166,659	7,936,304	32,238	1,999,949	22,240	128,427	43,295
Administration on Aging	1,160	185	0	0	600	0	375	0	0	0
Admin for Children & Families	18,789	1,219	1,775	0	9,549	0	5,379	0	827	40
Agcy for Hlth Care Policy & Rsch	160,923	60,800	46,940	0	33,957	0	18,976	0	0	250
Centers for Disease Control & Prevention	382,559	272,825	39,336	0	61,368	0	3,260	0	5,770	0
Food & Drug Administration	141,229	117,459	4,000	0	14,000	0	5,400	0	70	300
Health Care Financing Admin	50,000	60	32,940	0	7,000	0	8,210	0	1,500	290
Health Resources & Services Admin	12,957	2,693	0	0	7,755	0	2,509	0	0	0
National Institutes of Health	12,915,467	2,172,047	609,693	166,659	7,799,075	32,238	1,953,840	22,240	117,260	42,415
Office of the Secretary, total	14,000	4,000	2,000	0	3,000	0	2,000	0	3,000	0
Office of the Asst Secretary, Planning & Evaluation	14,000	4,000	2,000	0	3,000	0	2,000	0	3,000	0
Dept of Housing & Urban Development	21,313	11,493	3,038	0	1,596	0	5,186	0	0	0
Department of the Interior, total	533,974	465,731	11,149	0	47,609	0	678	0	7,132	1,675
Bureau of Reclamation	6,050	5,017	0	0	783	0	150	0	100	0
Geological Survey	469,124	436,874	1,930	0	23,510	0	0	0	6,810	0
Minerals Management Service	29,056	7,211	7,518	0	12,180	0	250	0	222	1,675
National Park Service	29,744	16,629	1,701	0	11,136	0	278	0	0	0
Department of Justice, total	49,518	4,125	13,544	0	18,210	0	11,514	0	2,125	0
Bureau of Prisons	3,950	2,500	0	0	0	0	0	0	1,450	0
Office of Justice Programs	45,568	1,625	13,544	0	18,210	0	11,514	0	675	0
Department of Labor, total	21,367	14,782	4,565	0	1,970	0	50	0	0	0
Bureau of Labor Statistics	12,400	12,400	0	0	0	0	0	0	0	0
Employment & Training Admin	2,000	50	0	0	1,900	0	50	0	0	0
Occupational Safety & Hlth Admin	5,010	1,741	3,269	0	0	0	0	0	0	0
Office of the Secretary	100	30	0	0	70	0	0	0	0	0
Pension Benefit Guaranty Corp	57	57	0	0	0	0	0	0	0	0
Pension & Welfare Benefits Admin	1,800	504	1,296	0	0	0	0	0	0	0
Department of State [3]	964	327	622	0	0	15	0	0	0	0
Department of Transportation, total	490,542	125,591	159,720	4,628	28,100	630	9,585	6,223	155,357	708
Coast Guard	4,491	3,000	1,091	400	0	0	0	0	0	0
Federal Aviation Administration	150,000	37,125	97,912	2,250	6,490	0	0	6,223	0	0
Federal Highway Administration	250,622	36,475	36,082	1,978	13,530	390	6,810	0	155,357	0
Federal Railroad Administration	25,113	12,609	10,233	0	1,845	0	218	0	0	208
Federal Transit Administration	4,100	600	300	0	1,200	0	2,000	0	0	0
National Highway Traffic Safety Administration	50,350	32,224	12,084	0	5,035	0	507	0	0	500
Research & Special Programs Admin	5,866	3,558	2,018	0	0	240	50	0	0	0
Department of the Treasury, total	60,703	39,285	21,418	0	0	0	0	0	0	0
Bureau of Engraving & Printing	2,236	2,236	0	0	0	0	0	0	0	0
Internal Revenue Service	55,496	35,845	19,651	0	0	0	0	0	0	0
Office of Thrift Supervision	766	766	0	0	0	0	0	0	0	0
United States Customs Service	1,679	75	1,604	0	0	0	0	0	0	0
United States Secret Service	526	363	163	0	0	0	0	0	0	0
Department of Veterans Affairs	311,149	311,149	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: fiscal year 1999

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural [1]	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by in-dustrial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Other agencies:										
Appalachian Regional Commission	738	1	225	0	400	0	112	0	0	0
Environmental Protection Agency	462,863	233,656	65,955	0	105,211	0	44,373	0	11,110	2,558
Federal Communications Commission	4,178	4,178	0	0	0	0	0	0	0	0
Federal Trade Commission	1,097	1,097	0	0	0	0	0	0	0	0
Internat'l Development Cooperation Agency, total	163,220	17,954	9,790	0	11,421	0	104,470	0	0	19,585
Agcy for Internat'l Development[4]	163,220	17,954	9,790	0	11,421	0	104,470	0	0	19,585
Library of Congress	595	595	0	0	0	0	0	0	0	0
National Aeronautics & Space Admin	4,433,117	1,109,318	1,900,275	1,426	647,500	575,369	174,792	4,885	7,749	11,803
National Archives & Records Admin	120	120	0	0	0	0	0	0	0	0
National Science Foundation	2,512,892	18,625	108,964	0	2,059,772	153,126	158,092	231	3,958	10,124
Nuclear Regulatory Commission	49,201	14,467	3,213	15,447	4,272	7,744	355	1,441	0	2,262
Smithsonian Institution	122,000	122,000	0	0	0	0	0	0	0	0
Social Security Administration	53,656	4,855	32,563	0	8,708	0	1,562	0	5,968	0
US Arms Control & Disarmament Agcy[3]	50	50	0	0	0	0	0	0	0	0
United States Information Agency	100	100	0	0	0	0	0	0	0	0
US International Trade Commission	6,873	6,873	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 The Defense Threat Reduction Agency (DTRA) was established on October 1, 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.

3 Effective April 1, 1999, all functions and authorities of the United States Arms Control & Disarmament Agency were transferred to the Department of State.

4 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 (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-1996). More accurate data for AID will be reported in future volumes of this survey.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-18. Preliminary Federal obligations for research, by agency and performer: fiscal year 2000

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural [1]	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by in-dustrial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Total, all agencies	34,679,582	8,775,726	4,709,641	947,663	13,421,819	3,372,770	2,761,623	222,791	345,536	122,013
Departments:										
Department of Agriculture, total	1,474,218	983,107	11,287	0	468,349	0	6,967	0	1,176	3,332
Agricultural Marketing Service	4,268	4,268	0	0	0	0	0	0	0	0
Agricultural Research Service	778,840	740,302	0	0	34,393	0	889	0	9	3,247
Cooperative State Research, Education, & Extension Service	451,032	24,790	11,249	0	411,675	0	2,406	0	912	0
Economic Research Service	55,628	50,588	0	0	5,040	0	0	0	0	0
Food Safety Inspection Service	125	125	0	0	0	0	0	0	0	0
Foreign Agricultural Service	1,422	971	0	0	451	0	0	0	0	0
Forest Service	174,500	156,910	38	0	15,610	0	1,602	0	255	85
Grain Inspection Packers & Stockyards Administration	682	682	0	0	0	0	0	0	0	0
Nat'l Agricultural Statistics Svc	3,221	2,971	0	0	180	0	70	0	0	0
Rural Business-Cooperative Svc	4,500	1,500	0	0	1,000	0	2,000	0	0	0
Department of Commerce, total	859,738	666,734	109,955	0	80,840	22	1,704	0	286	197
Bureau of the Census	4,991	4,991	0	0	0	0	0	0	0	0
Economic Development Admin	550	50	300	0	0	0	200	0	0	0
Nat'l Inst of Standards & Tech	339,607	221,331	105,708	0	11,461	22	888	0	0	197
Nat'l Oceanic & Atmospheric Admin	508,396	434,168	3,947	0	69,379	0	616	0	286	0
National Telecommunications & Information Administration	6,194	6,194	0	0	0	0	0	0	0	0
Department of Defense, total	4,116,260	1,439,063	1,424,494	17,806	1,032,019	92,164	74,385	12,042	0	24,287
Department of the Air Force	723,365	373,670	237,672	300	106,097	590	1,171	861	0	3,004
Department of the Army	771,815	462,238	205,738	4,692	83,693	292	13,402	255	0	1,505
Department of the Navy	902,250	359,905	246,971	2,536	254,342	3,662	24,870	1,504	0	8,460
Defense Agencies, total	1,718,830	243,250	734,113	10,278	587,887	87,620	34,942	9,422	0	11,318
Ballistic Missile Defense Org	74,831	11,013	58,817	0	3,810	1,191	0	0	0	0
Defense Adv Rsch Projects Agcy	1,017,381	81,001	518,556	6,284	308,766	51,380	34,139	9,297	0	7,958
Defense Info Systems Agcy	1,966	1,966	0	0	0	0	0	0	0	0
Defense Logistics Agency	8,261	8,261	0	0	0	0	0	0	0	0
Defense Threat Reduction Agency [2]	204,689	61,083	130,587	3,914	2,456	3,864	0	125	0	2,660
Special Operations Command	17,269	5,232	11,203	0	834	0	0	0	0	0
Washington Headquarters Svcs	394,433	74,694	14,950	80	272,021	31,185	803	0	0	700
Department of Education	172,896	13,015	5,987	0	115,320	0	37,480	0	1,094	0
Department of Energy	4,373,242	311,024	229,683	738,589	575,023	2,299,326	42,748	173,831	2,500	518

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

Table C-18. Preliminary Federal obligations for research, by agency and performer: fiscal year 2000

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural [1]	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by in-dustrial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Dept of Health & Human Svcs, total	14,100,245	2,816,346	762,728	170,602	8,081,497	33,002	2,037,468	22,766	131,825	44,011
Administration on Aging	1,085	185	0	0	500	0	400	0	0	0
Admin for Children & Families	28,049	1,074	2,728	0	14,671	0	8,264	0	1,270	42
Agcy for Hlth Care Policy & Rsch	197,255	85,849	52,243	0	37,793	0	21,120	0	0	250
Centers for Disease Control & Prevention	468,559	357,052	41,109	0	61,368	0	3,260	0	5,770	0
Food & Drug Administration	151,745	126,245	4,300	0	15,000	0	5,800	0	100	300
Health Care Financing Admin	55,000	70	36,230	0	7,700	0	9,350	0	1,650	0
Health Resources & Services Admin	13,081	2,817	0	0	7,755	0	2,509	0	0	0
National Institutes of Health	13,171,471	2,239,054	624,118	170,602	7,933,710	33,002	1,984,765	22,766	120,035	43,419
Office of the Secretary, total	14,000	4,000	2,000	0	3,000	0	2,000	0	3,000	0
Office of the Asst Secretary, Planning & Evaluation	14,000	4,000	2,000	0	3,000	0	2,000	0	3,000	0
Dept of Housing & Urban Development	18,054	12,277	1,787	0	939	0	3,051	0	0	0
Department of the Interior, total	552,058	483,768	11,587	0	47,670	0	678	0	7,130	1,225
Bureau of Reclamation	7,436	6,365	0	0	821	0	150	0	100	0
Geological Survey	484,227	451,891	2,016	0	23,510	0	0	0	6,810	0
Minerals Management Service	28,565	7,329	7,618	0	11,923	0	250	0	220	1,225
National Park Service	31,830	18,183	1,953	0	11,416	0	278	0	0	0
Department of Justice, total	25,041	2,502	6,167	0	7,285	0	6,471	0	2,616	0
Bureau of Prisons	4,000	2,500	0	0	0	0	0	0	1,500	0
Office of Justice Programs	21,041	2	6,167	0	7,285	0	6,471	0	1,116	0
Department of Labor, total	22,141	15,128	5,663	0	1,270	0	80	0	0	0
Bureau of Labor Statistics	12,400	12,400	0	0	0	0	0	0	0	0
Employment & Training Admin	1,331	51	0	0	1,200	0	80	0	0	0
Occupational Safety & Hlth Admin	5,255	1,817	3,438	0	0	0	0	0	0	0
Office of the Secretary	100	30	0	0	70	0	0	0	0	0
Pension Benefit Guaranty Corp	55	55	0	0	0	0	0	0	0	0
Pension & Welfare Benefits Admin	3,000	775	2,225	0	0	0	0	0	0	0
Department of State [3]	964	327	622	0	0	15	0	0	0	0
Department of Transportation, total	675,559	167,557	225,019	4,920	27,677	74	70,769	7,156	171,650	737
Coast Guard	5,667	3,237	2,130	300	0	0	0	0	0	0
Federal Aviation Administration	173,000	46,219	109,573	2,588	7,464	0	0	7,156	0	0
Federal Highway Administration	406,024	64,351	88,817	2,032	11,480	0	67,694	0	171,650	0
Federal Railroad Administration	23,601	12,815	8,537	0	1,662	0	400	0	0	187
Federal Transit Administration	4,100	500	400	0	1,200	0	2,000	0	0	0
National Highway Traffic Safety Administration	58,713	37,576	14,091	0	5,871	0	625	0	0	550
Research & Special Programs Admin	4,454	2,859	1,471	0	0	74	50	0	0	0
Department of the Treasury, total	74,845	39,857	34,988	0	0	0	0	0	0	0
Bureau of Engraving & Printing	2,314	2,314	0	0	0	0	0	0	0	0
Internal Revenue Service	70,217	36,199	34,018	0	0	0	0	0	0	0
Office of Thrift Supervision	855	855	0	0	0	0	0	0	0	0
United States Customs Service	900	100	800	0	0	0	0	0	0	0
United States Secret Service	559	389	170	0	0	0	0	0	0	0
Department of Veterans Affairs	307,000	307,000	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: fiscal year 2000

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural [1]	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by in-dustrial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Other agencies:										
Appalachian Regional Commission	750	1	200	0	399	0	150	0	0	0
Consumer Product Safety Commission	1,168	168	1,000	0	0	0	0	0	0	0
Environmental Protection Agency	446,900	222,910	64,095	0	102,244	0	44,495	0	10,797	2,359
Federal Communications Commission	2,747	2,747	0	0	0	0	0	0	0	0
Federal Trade Commission	1,379	1,379	0	0	0	0	0	0	0	0
Internat'l Development Cooperation Agency, total	143,573	17,086	8,521	0	9,950	0	90,971	0	0	17,045
Agcy for Internat'l Development[4]	143,573	17,086	8,521	0	9,950	0	90,971	0	0	17,045
Library of Congress	614	614	0	0	0	0	0	0	0	0
National Aeronautics & Space Admin	4,392,011	1,099,061	1,667,525	1,483	647,500	774,990	173,003	5,134	8,003	15,312
National Archives & Records Admin	120	120	0	0	0	0	0	0	0	0
National Science Foundation	2,698,326	20,026	114,010	0	2,214,089	165,016	169,765	248	4,262	10,910
Nuclear Regulatory Commission	46,594	14,251	2,260	14,263	3,625	8,161	340	1,614	0	2,080
Smithsonian Institution	129,000	129,000	0	0	0	0	0	0	0	0
Social Security Administration	36,895	3,414	22,063	0	6,123	0	1,098	0	4,197	0
United States Information Agency	100	100	0	0	0	0	0	0	0	0
US International Trade Commission	7,144	7,144	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 The Defense Threat Reduction Agency (DTRA) was established on October 1, 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.

3 Effective April 1, 1999, all functions and authorities of the United States Arms Control & Disarmament Agency were transferred to the Department of State.

4 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 (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-1996). More accurate data for AID will be reported in future volumes of this survey.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-19. Federal obligations for research, by detailed field of science and engineering: fiscal years 1998, 1999, and 2000

[Dollars in thousands]

Field of science and engineering	1998	Preliminary	
		1999	2000
Total, all fields	30,922,269	33,821,686	34,679,582
Life sciences, total	13,557,574	15,385,371	15,561,737
Biological (excluding environmental)	5,706,572	NA	NA
Environmental biology	604,483	NA	NA
Agricultural	762,785	NA	NA
Medical	5,996,325	NA	NA
Life sciences, n.e.c.	487,409	NA	NA
Psychology, total	590,968	661,681	686,111
Biological aspects	41,592	NA	NA
Social aspects	97,490	NA	NA
Psychological sciences, n.e.c.	451,886	NA	NA
Physical sciences, total	4,209,679	4,456,494	4,719,341
Astronomy	732,150	NA	NA
Chemistry	819,030	NA	NA
Physics	2,131,758	NA	NA
Physical sciences, n.e.c.	526,741	NA	NA
Environmental sciences, total	3,061,979	3,171,129	3,208,959
Atmospheric	1,174,426	NA	NA
Geological	603,316	NA	NA
Oceanography	559,794	NA	NA
Environmental sciences, n.e.c.	724,443	NA	NA
Mathematics & computer sciences, total	1,836,842	2,008,016	2,131,083
Mathematics	334,063	NA	NA
Computer sciences	1,398,740	NA	NA
Mathematics & computer sciences, n.e.c.	104,039	NA	NA
Engineering, total	5,895,423	6,091,572	6,218,596
Aeronautical	1,596,427	NA	NA
Astronautical	631,111	NA	NA
Chemical	190,147	NA	NA
Civil	244,126	NA	NA
Electrical	639,349	NA	NA
Mechanical	249,551	NA	NA
Metallurgy & materials	789,098	NA	NA
Engineering, n.e.c.	1,555,614	NA	NA
Social sciences, total	806,129	894,503	889,932
Anthropology	18,186	NA	NA
Economics	230,450	NA	NA
Political science	20,224	NA	NA
Sociology	100,831	NA	NA
Social sciences, n.e.c.	436,438	NA	NA
Other sciences, n.e.c.	963,675	1,152,920	1,263,823

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: NA = Not applicable (indicates that the data collected for this table were not recorded at that level in that particular fiscal year)
n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-20. Federal obligations for research, by agency and field of science and engineering: fiscal year 1998

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psy-chology	Physical sciences	Environ-mental sciences	Mathe-matics and com-puter sciences	Engi-neering	Social sciences	Other sciences, n.e.c.
Total, all agencies	30,922,269	13,557,574	590,968	4,209,679	3,061,979	1,836,842	5,895,423	806,129	963,675
Departments:									
Department of Agriculture, total	1,333,905	1,037,559	410	87,338	10,355	15,068	57,335	122,385	3,455
Agricultural Marketing Service	4,018	4,018	0	0	0	0	0	0	0
Agricultural Research Service	689,730	609,376	0	64,804	3,551	980	11,019	0	0
Cooperative State Research, Education, & Extension Service	386,445	317,284	0	15,229	1,027	0	17,068	35,837	0
Economic Research Service	71,547	0	0	0	0	0	0	71,547	0
Food Safety Inspection Service	125	125	0	0	0	0	0	0	0
Foreign Agricultural Service	1,422	1,422	0	0	0	0	0	0	0
Forest Service	172,300	103,485	410	7,305	5,777	10,755	29,248	11,865	3,455
Grain Inspection Packers & Stockyards Administration	549	549	0	0	0	0	0	0	0
Nat'l Agricultural Statistics Svc	3,333	0	0	0	0	3,333	0	0	0
Rural Business-Cooperative Svc	4,436	1,300	0	0	0	0	0	3,136	0
Department of Commerce, total	806,993	150,568	506	104,488	250,820	78,103	158,476	21,448	42,584
Bureau of the Census	5,166	0	506	0	0	3,353	0	1,307	0
Economic Development Admin	557	0	0	0	0	0	0	557	0
Nat'l Inst of Standards & Tech	305,376	23,880	0	81,272	767	54,944	144,513	0	0
Nat'l Oceanic & Atmospheric Admin	492,128	126,688	0	23,216	250,053	19,806	10,197	19,584	42,584
National Telecommunications & Information Administration	3,766	0	0	0	0	0	3,766	0	0
Department of Defense, total	3,969,891	438,542	74,069	440,286	361,300	658,680	1,805,538	176	191,300
Department of the Air Force	736,879	42,569	21,725	133,079	5,474	56,219	461,742	0	16,071
Department of the Army	817,841	157,994	13,808	63,891	75,322	80,132	333,667	176	92,851
Department of the Navy	822,158	52,085	27,674	48,190	249,896	40,552	403,761	0	0
Defense Agencies, total	1,593,013	185,894	10,862	195,126	30,608	481,777	606,368	0	82,378
Ballistic Missile Defense Org	126,801	0	0	37,975	2,701	30,344	55,781	0	0
Defense Adv Rsch Projects Agcy	856,268	61,391	0	44,552	6,313	407,975	321,292	0	14,745
Defense Info Systems Agcy	1,094	0	0	0	0	0	0	0	1,094
Defense Logistics Agency	8,016	0	8,016	0	0	0	0	0	0
Defense Threat Reduction Agency[1]	205,073	4,307	0	59,266	6,767	9,638	58,856	0	66,239
Special Operations Command	15,696	602	0	0	0	0	14,794	0	300
Washington Headquarters Svcs	380,065	119,594	2,846	53,333	14,827	33,820	155,645	0	0
Department of Education	148,742	11,169	7,319	0	0	1,156	7,704	121,394	0
Department of Energy	3,787,511	255,805	0	1,868,593	350,010	494,617	797,891	0	20,595

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: fiscal year 1998

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psy-chology	Physical sciences	Environ-mental sciences	Mathe-matics and com-puter sciences	Engi-neering	Social sciences	Other sciences, n.e.c.
Dept of Health & Human Svcs, total	12,018,474	10,394,174	422,294	178,803	34,518	113,978	163,397	187,026	524,284
Administration on Aging	2,435	0	0	0	0	0	0	2,435	0
Admin for Children & Families	23,456	0	0	0	0	0	0	23,456	0
Agcy for Hlth Care Policy & Rsch	138,798	42,076	2,193	0	0	12,372	0	42,528	39,629
Centers for Disease Control & Prevention	343,559	343,559	0	0	0	0	0	0	0
Food & Drug Administration	142,937	142,937	0	0	0	0	0	0	0
Health Care Financing Admin	51,236	51,236	0	0	0	0	0	0	0
Health Resources & Services Admin	12,925	12,925	0	0	0	0	0	0	0
National Institutes of Health	11,289,180	9,801,441	420,101	178,803	34,518	101,606	163,397	104,659	484,655
Office of the Secretary, total	13,948	0	0	0	0	0	0	13,948	0
Office of the Asst Secretary, Planning & Evaluation	13,948	0	0	0	0	0	0	13,948	0
Dept of Housing & Urban Development	9,211	0	0	0	0	123	571	8,313	204
Department of the Interior, total	502,852	116,412	0	1,553	348,475	6,874	8,653	20,885	0
Bureau of Reclamation	6,626	0	0	0	2,650	0	3,876	100	0
Geological Survey	437,198	110,809	0	0	320,013	4,126	1,125	1,125	0
Minerals Management Service	29,286	0	0	90	20,371	1,155	3,652	4,018	0
National Park Service	29,742	5,603	0	1,463	5,441	1,593	0	15,642	0
Department of Justice, total	42,005	0	500	0	0	500	7,000	34,005	0
Bureau of Prisons	4,326	0	500	0	0	500	0	3,326	0
Office of Justice Programs	37,679	0	0	0	0	0	7,000	30,679	0
Department of Labor, total	22,079	0	0	0	0	95	0	21,984	0
Bureau of Labor Statistics	12,400	0	0	0	0	0	0	12,400	0
Employment & Training Admin	2,197	0	0	0	0	0	0	2,197	0
Occupational Safety & Hlth Admin	4,592	0	0	0	0	0	0	4,592	0
Office of the Secretary	95	0	0	0	0	95	0	0	0
Pension Benefit Guaranty Corp	55	0	0	0	0	0	0	55	0
Pension & Welfare Benefits Admin	2,740	0	0	0	0	0	0	2,740	0
Department of State[2]	852	0	0	0	0	0	0	852	0
Department of Transportation, total	401,046	8,738	25,764	37,589	23,961	24,242	244,711	8,602	27,439
Coast Guard	5,110	0	647	0	551	1,133	2,779	0	0
Federal Aviation Administration	151,550	4,499	24,430	35,551	20,183	0	49,595	0	17,292
Federal Highway Administration	169,605	493	687	2,038	3,152	16,686	133,662	2,775	10,112
Federal Railroad Administration	21,191	0	0	0	0	1,925	19,266	0	0
Federal Transit Administration	7,400	0	0	0	0	0	7,400	0	0
National Highway Traffic Safety Administration	41,621	3,746	0	0	0	4,162	27,886	5,827	0
Research & Special Programs Admin	4,569	0	0	0	75	336	4,123	0	35
Department of the Treasury, total	52,553	0	475	2,676	776	0	0	48,626	0
Bureau of Engraving & Printing	2,676	0	0	2,676	0	0	0	0	0
Internal Revenue Service	47,942	0	0	0	0	0	0	47,942	0
Office of Thrift Supervision	684	0	0	0	0	0	0	684	0
United States Customs Service	776	0	0	0	776	0	0	0	0
United States Secret Service	475	0	475	0	0	0	0	0	0
Department of Veterans Affairs	269,066	214,078	33,016	0	0	0	21,972	0	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: fiscal year 1998

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psy-chology	Physical sciences	Environ-mental sciences	Mathe-matics and com-puter sciences	Engi-neering	Social sciences	Other sciences, n.e.c.
Other agencies:									
Appalachian Regional Commission	680	0	0	0	0	0	0	680	0
Environmental Protection Agency	477,200	131,921	0	0	204,215	0	141,064	0	0
Federal Communications Commission	3,025	0	0	0	0	180	1,400	1,445	0
Federal Trade Commission	1,144	0	0	0	0	0	0	1,144	0
Internat'l Development Cooperation Agency, total	172,923	105,830	0	0	3,246	0	0	62,032	1,815
Agcy for Internat'l Development[3]	172,923	105,830	0	0	3,246	0	0	62,032	1,815
Library of Congress	455	0	0	455	0	0	0	0	0
National Aeronautics & Space Admin	4,413,651	285,857	20,720	979,466	1,032,414	80,142	1,984,062	387	30,603
National Archives & Records Admin	120	0	0	120	0	0	0	0	0
National Science Foundation	2,289,337	366,845	5,895	467,920	436,868	363,084	443,631	85,028	120,066
Nuclear Regulatory Commission	51,700	0	0	0	0	0	51,700	0	0
Smithsonian Institution	120,000	39,968	0	39,453	4,395	0	0	35,004	1,180
Social Security Administration	17,422	0	0	0	0	0	0	17,422	0
Tennessee Valley Authority	809	48	0	561	200	0	0	0	0
US Arms Control & Disarmament Agcy[2]	1,200	60	0	378	426	0	60	126	150
United States Information Agency	258	0	0	0	0	0	258	0	0
US International Trade Commission	7,165	0	0	0	0	0	0	7,165	0

1 The Defense Threat Reduction Agency (DTRA) was established on October 1, 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.

2 Effective April 1, 1999, all functions and authorities of the United States Arms Control & Disarmament Agency were transferred to the Department of State.

3 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 (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-1996). More accurate data for AID will be reported in future volumes of this survey.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-21. Preliminary Federal obligations for research, by agency and field of science and engineering: fiscal year 1999

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psy-chology	Physical sciences	Environ-mental sciences	Mathe-matics and com-puter sciences	Engi-neering	Social sciences	Other sciences, n.e.c.
Total, all agencies	33,821,686	15,385,371	661,681	4,456,494	3,171,129	2,008,016	6,091,572	894,503	1,152,920
Departments:									
Department of Agriculture, total	1,516,432	1,215,127	415	86,497	10,914	14,992	62,928	122,059	3,500
Agricultural Marketing Service	4,000	4,000	0	0	0	0	0	0	0
Agricultural Research Service	757,942	680,842	0	60,850	3,936	886	11,428	0	0
Cooperative State Research, Education, & Extension Service	506,189	422,079	0	18,247	1,128	0	21,885	42,850	0
Economic Research Service	64,966	0	0	0	0	0	0	64,966	0
Food Safety Inspection Service	125	125	0	0	0	0	0	0	0
Foreign Agricultural Service	1,422	1,422	0	0	0	0	0	0	0
Forest Service	174,500	104,810	415	7,400	5,850	10,885	29,615	12,025	3,500
Grain Inspection Packers & Stockyards Administration	549	549	0	0	0	0	0	0	0
Nat'l Agricultural Statistics Svc	3,221	0	0	0	0	3,221	0	0	0
Rural Business-Cooperative Svc	3,518	1,300	0	0	0	0	0	2,218	0
Department of Commerce, total	881,959	166,045	964	112,709	266,838	88,552	172,891	25,137	48,823
Bureau of the Census	9,854	0	964	0	0	6,398	0	2,492	0
Economic Development Admin	550	0	0	0	0	0	0	550	0
Nat'l Inst of Standards & Tech	330,365	25,791	0	87,346	817	59,614	156,797	0	0
Nat'l Oceanic & Atmospheric Admin	537,307	140,254	0	25,363	266,021	22,540	12,211	22,095	48,823
National Telecommunications & Information Administration	3,883	0	0	0	0	0	3,883	0	0
Department of Defense, total	4,141,930	518,820	74,948	412,268	383,194	657,373	1,836,649	14,494	244,184
Department of the Air Force	752,586	41,702	19,696	122,682	10,120	59,733	437,050	14,362	47,241
Department of the Army	878,206	198,590	11,777	59,018	86,794	74,062	320,335	132	127,498
Department of the Navy	895,570	57,521	26,920	69,180	262,494	43,194	436,261	0	0
Defense Agencies, total	1,615,568	221,007	16,555	161,388	23,786	480,384	643,003	0	69,445
Ballistic Missile Defense Org	115,170	0	0	39,485	292	21,423	52,820	0	1,150
Defense Adv Rsch Projects Agcy	936,546	96,069	0	28,744	0	423,436	382,161	0	6,136
Defense Info Systems Agcy	2,389	0	0	0	0	0	0	0	2,389
Defense Logistics Agency	8,151	0	8,151	0	0	0	0	0	0
Defense Threat Reduction Agency[1]	183,996	3,864	0	53,175	6,072	8,648	52,807	0	59,430
Special Operations Command	18,657	815	0	0	0	0	17,502	0	340
Washington Headquarters Svcs	350,659	120,259	8,404	39,984	17,422	26,877	137,713	0	0
Department of Education	153,917	11,758	7,705	0	0	1,217	8,110	125,127	0
Department of Energy	4,130,134	287,840	0	2,012,184	334,842	622,876	850,650	0	21,742

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: fiscal year 1999

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psy-chology	Physical sciences	Environ-mental sciences	Mathe-matics and com-puter sciences	Engi-neering	Social sciences	Other sciences, n.e.c.
Dept of Health & Human Svcs, total	13,697,084	11,838,105	482,616	204,561	39,491	127,229	186,936	192,635	625,511
Administration on Aging	1,160	0	0	0	0	0	0	1,160	0
Admin for Children & Families	18,789	0	0	0	0	0	0	18,789	0
Agcy for Hlth Care Policy & Rsch	160,923	37,952	1,997	0	0	10,986	0	38,950	71,038
Centers for Disease Control & Prevention	382,559	382,559	0	0	0	0	0	0	0
Food & Drug Administration	141,229	141,229	0	0	0	0	0	0	0
Health Care Financing Admin	50,000	50,000	0	0	0	0	0	0	0
Health Resources & Services Admin	12,957	12,957	0	0	0	0	0	0	0
National Institutes of Health	12,915,467	11,213,408	480,619	204,561	39,491	116,243	186,936	119,736	554,473
Office of the Secretary, total	14,000	0	0	0	0	0	0	14,000	0
Office of the Asst Secretary, Planning & Evaluation	14,000	0	0	0	0	0	0	14,000	0
Dept of Housing & Urban Development	21,313	0	0	0	0	278	1,321	19,239	475
Department of the Interior, total	533,974	132,416	0	2,193	363,521	6,796	9,395	19,653	0
Bureau of Reclamation	6,050	0	0	0	2,420	0	3,530	100	0
Geological Survey	469,124	126,813	0	0	335,935	4,126	1,125	1,125	0
Minerals Management Service	29,056	0	0	634	19,801	1,093	4,740	2,788	0
National Park Service	29,744	5,603	0	1,559	5,365	1,577	0	15,640	0
Department of Justice, total	49,518	0	500	0	0	500	0	34,118	14,400
Bureau of Prisons	3,950	0	500	0	0	500	0	2,950	0
Office of Justice Programs	45,568	0	0	0	0	0	0	31,168	14,400
Department of Labor, total	21,367	0	0	0	0	100	0	21,267	0
Bureau of Labor Statistics	12,400	0	0	0	0	0	0	12,400	0
Employment & Training Admin	2,000	0	0	0	0	0	0	2,000	0
Occupational Safety & Hlth Admin	5,010	0	0	0	0	0	0	5,010	0
Office of the Secretary	100	0	0	0	0	100	0	0	0
Pension Benefit Guaranty Corp	57	0	0	0	0	0	0	57	0
Pension & Welfare Benefits Admin	1,800	0	0	0	0	0	0	1,800	0
Department of State[2]	964	0	0	0	0	0	0	964	0
Department of Transportation, total	490,542	9,772	28,703	49,942	31,540	9,308	322,985	8,177	30,115
Coast Guard	4,491	0	713	0	680	1,039	2,059	0	0
Federal Aviation Administration	150,000	4,065	26,282	44,408	21,303	0	37,158	0	16,784
Federal Highway Administration	250,622	1,177	1,708	5,534	9,457	761	215,753	3,170	13,062
Federal Railroad Administration	25,113	0	0	0	0	1,630	23,483	0	0
Federal Transit Administration	4,100	0	0	0	0	0	4,100	0	0
National Highway Traffic Safety Administration	50,350	4,530	0	0	0	5,539	35,274	5,007	0
Research & Special Programs Admin	5,866	0	0	0	100	339	5,158	0	269
Department of the Treasury, total	60,703	0	526	2,276	1,639	0	0	56,262	0
Bureau of Engraving & Printing	2,236	0	0	2,236	0	0	0	0	0
Internal Revenue Service	55,496	0	0	0	0	0	0	55,496	0
Office of Thrift Supervision	766	0	0	0	0	0	0	766	0
United States Customs Service	1,679	0	0	40	1,639	0	0	0	0
United States Secret Service	526	0	526	0	0	0	0	0	0
Department of Veterans Affairs	311,149	254,966	38,471	0	0	0	17,712	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: fiscal year 1999

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psy-chology	Physical sciences	Environ-mental sciences	Mathe-matics and com-puter sciences	Engi-neering	Social sciences	Other sciences, n.e.c.
Other agencies:									
Appalachian Regional Commission	738	0	0	0	0	0	0	738	0
Environmental Protection Agency	462,863	122,808	0	0	201,127	0	138,928	0	0
Federal Communications Commission	4,178	0	0	0	0	134	1,516	2,528	0
Federal Trade Commission	1,097	0	0	0	0	0	0	1,097	0
Internat'l Development Cooperation Agency, total	163,220	100,277	0	0	2,216	0	0	60,667	60
Agcy for Internat'l Development[3]	163,220	100,277	0	0	2,216	0	0	60,667	60
Library of Congress	595	0	0	595	0	0	0	0	0
National Aeronautics & Space Admin	4,433,117	284,094	20,345	1,018,603	1,050,589	79,316	1,948,330	407	31,433
National Archives & Records Admin	120	0	0	120	0	0	0	0	0
National Science Foundation	2,512,892	403,208	6,488	514,492	480,797	399,345	483,920	93,176	131,466
Nuclear Regulatory Commission	49,201	0	0	0	0	0	49,201	0	0
Smithsonian Institution	122,000	40,135	0	40,004	4,421	0	0	36,229	1,211
Social Security Administration	53,656	0	0	0	0	0	0	53,656	0
US Arms Control & Disarmament Agcy[2]	50	0	0	50	0	0	0	0	0
United States Information Agency	100	0	0	0	0	0	100	0	0
US International Trade Commission	6,873	0	0	0	0	0	0	6,873	0

1 The Defense Threat Reduction Agency (DTRA) was established on October 1, 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.

2 Effective April 1, 1999, all functions and authorities of the United States Arms Control & Disarmament Agency were transferred to the Department of State.

3 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 (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-1996). More accurate data for AID will be reported in future volumes of this survey.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-22. Preliminary Federal obligations for research, by agency and field of science and engineering: fiscal year 2000

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psy-chology	Physical sciences	Environ-mental sciences	Mathe-matics and com-puter sciences	Engi-neering	Social sciences	Other sciences, n.e.c.
Total, all agencies	34,679,582	15,561,737	686,111	4,719,341	3,208,959	2,131,083	6,218,596	889,932	1,263,823
Departments:									
Department of Agriculture, total	1,474,218	1,187,314	415	87,134	10,886	15,016	62,115	107,838	3,500
Agricultural Marketing Service	4,268	4,268	0	0	0	0	0	0	0
Agricultural Research Service	778,840	699,614	0	62,528	4,045	910	11,743	0	0
Cooperative State Research, Education, & Extension Service	451,032	374,393	0	17,206	991	0	20,757	37,685	0
Economic Research Service	55,628	0	0	0	0	0	0	55,628	0
Food Safety Inspection Service	125	125	0	0	0	0	0	0	0
Foreign Agricultural Service	1,422	1,422	0	0	0	0	0	0	0
Forest Service	174,500	104,810	415	7,400	5,850	10,885	29,615	12,025	3,500
Grain Inspection Packers & Stockyards Administration	682	682	0	0	0	0	0	0	0
Nat'l Agricultural Statistics Svc	3,221	0	0	0	0	3,221	0	0	0
Rural Business-Cooperative Svc	4,500	2,000	0	0	0	0	0	2,500	0
Department of Commerce, total	859,738	150,075	488	113,413	267,173	84,842	179,714	21,253	42,780
Bureau of the Census	4,991	0	488	0	0	3,241	0	1,262	0
Economic Development Admin	550	0	0	0	0	0	0	550	0
Nat'l Inst of Standards & Tech	339,607	26,446	0	88,915	820	61,547	161,879	0	0
Nat'l Oceanic & Atmospheric Admin	508,396	123,629	0	24,498	266,353	20,054	11,641	19,441	42,780
National Telecommunications & Information Administration	6,194	0	0	0	0	0	6,194	0	0
Department of Defense, total	4,116,260	434,258	90,075	409,644	350,629	625,631	1,885,739	1,693	318,591
Department of the Air Force	723,365	42,529	19,519	119,283	10,659	62,106	452,466	1,500	15,303
Department of the Army	771,815	93,970	15,036	60,089	46,766	83,214	356,433	193	116,114
Department of the Navy	902,250	58,795	28,063	75,153	266,706	45,492	428,041	0	0
Defense Agencies, total	1,718,830	238,964	27,457	155,119	26,498	434,819	648,799	0	187,174
Ballistic Missile Defense Org	74,831	0	0	21,248	28	6,241	47,287	0	27
Defense Adv Rsch Projects Agcy	1,017,381	106,672	0	31,260	0	387,199	373,499	0	118,751
Defense Info Systems Agcy	1,966	0	0	0	0	0	0	0	1,966
Defense Logistics Agency	8,261	0	8,261	0	0	0	0	0	0
Defense Threat Reduction Agency[1]	204,689	4,298	0	59,155	6,755	9,620	58,746	0	66,115
Special Operations Command	17,269	640	0	0	0	0	16,314	0	315
Washington Headquarters Svcs	394,433	127,354	19,196	43,456	19,715	31,759	152,953	0	0
Department of Education	172,896	11,857	8,209	0	0	4,104	9,121	139,605	0
Department of Energy	4,373,242	251,563	0	2,107,392	327,186	748,479	918,849	0	19,773

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: fiscal year 2000

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psy-chology	Physical sciences	Environ-mental sciences	Mathe-matics and com-puter sciences	Engi-neering	Social sciences	Other sciences, n.e.c.
Dept of Health & Human Svcs, total	14,100,245	12,166,300	492,369	208,615	40,274	130,774	190,641	208,594	662,678
Administration on Aging	1,085	0	0	0	0	0	0	1,085	0
Admin for Children & Families	28,049	0	0	0	0	0	0	28,049	0
Agcy for Hlth Care Policy & Rsch	197,255	42,239	2,223	0	0	12,227	0	43,351	97,215
Centers for Disease Control & Prevention	468,559	468,559	0	0	0	0	0	0	0
Food & Drug Administration	151,745	151,745	0	0	0	0	0	0	0
Health Care Financing Admin	55,000	55,000	0	0	0	0	0	0	0
Health Resources & Services Admin	13,081	13,081	0	0	0	0	0	0	0
National Institutes of Health	13,171,471	11,435,676	490,146	208,615	40,274	118,547	190,641	122,109	565,463
Office of the Secretary, total	14,000	0	0	0	0	0	0	14,000	0
Office of the Asst Secretary, Planning & Evaluation	14,000	0	0	0	0	0	0	14,000	0
Dept of Housing & Urban Development	18,054	0	0	0	0	235	1,119	16,298	402
Department of the Interior, total	552,058	143,968	0	1,620	367,469	6,988	10,104	21,909	0
Bureau of Reclamation	7,436	0	0	0	2,974	0	4,262	200	0
Geological Survey	484,227	138,365	0	0	339,199	4,311	1,176	1,176	0
Minerals Management Service	28,565	0	0	61	19,931	1,100	4,666	2,807	0
National Park Service	31,830	5,603	0	1,559	5,365	1,577	0	17,726	0
Department of Justice, total	25,041	0	500	0	0	500	0	24,041	0
Bureau of Prisons	4,000	0	500	0	0	500	0	3,000	0
Office of Justice Programs	21,041	0	0	0	0	0	0	21,041	0
Department of Labor, total	22,141	0	0	0	0	100	0	22,041	0
Bureau of Labor Statistics	12,400	0	0	0	0	0	0	12,400	0
Employment & Training Admin	1,331	0	0	0	0	0	0	1,331	0
Occupational Safety & Hlth Admin	5,255	0	0	0	0	0	0	5,255	0
Office of the Secretary	100	0	0	0	0	100	0	0	0
Pension Benefit Guaranty Corp	55	0	0	0	0	0	0	55	0
Pension & Welfare Benefits Admin	3,000	0	0	0	0	0	0	3,000	0
Department of State[2]	964	0	0	0	0	0	0	964	0
Department of Transportation, total	675,559	12,004	30,147	51,952	35,674	10,471	484,192	10,962	40,157
Coast Guard	5,667	0	986	0	691	1,554	2,436	0	0
Federal Aviation Administration	173,000	4,829	26,380	42,961	19,608	0	60,532	0	18,690
Federal Highway Administration	406,024	1,890	2,781	8,991	15,275	1,236	349,440	5,091	21,320
Federal Railroad Administration	23,601	0	0	0	0	1,000	22,601	0	0
Federal Transit Administration	4,100	0	0	0	0	0	4,100	0	0
National Highway Traffic Safety Administration	58,713	5,285	0	0	0	6,458	41,099	5,871	0
Research & Special Programs Admin	4,454	0	0	0	100	223	3,984	0	147
Department of the Treasury, total	74,845	0	559	2,914	300	0	0	71,072	0
Bureau of Engraving & Printing	2,314	0	0	2,314	0	0	0	0	0
Internal Revenue Service	70,217	0	0	0	0	0	0	70,217	0
Office of Thrift Supervision	855	0	0	0	0	0	0	855	0
United States Customs Service	900	0	0	600	300	0	0	0	0
United States Secret Service	559	0	559	0	0	0	0	0	0
Department of Veterans Affairs	307,000	252,000	38,000	0	0	0	17,000	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: fiscal year 2000

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psy-chology	Physical sciences	Environ-mental sciences	Mathe-matics and com-puter sciences	Engi-neering	Social sciences	Other sciences, n.e.c.
Other agencies:									
Appalachian Regional Commission	750	0	0	0	0	0	0	750	0
Consumer Product Safety Commission	1,168	0	0	0	0	0	1,168	0	0
Environmental Protection Agency	446,900	123,559	0	0	191,242	0	132,099	0	0
Federal Communications Commission	2,747	0	0	0	0	78	1,824	845	0
Federal Trade Commission	1,379	0	0	0	0	0	0	1,379	0
Internat'l Development Cooperation Agency, total	143,573	82,978	0	0	2,479	0	0	58,017	99
Agcy for Internat'l Development[3]	143,573	82,978	0	0	2,479	0	0	58,017	99
Library of Congress	614	0	0	614	0	0	0	0	0
National Aeronautics & Space Admin	4,392,011	269,779	18,358	1,140,045	1,093,089	74,029	1,762,430	468	33,813
National Archives & Records Admin	120	0	0	120	0	0	0	0	0
National Science Foundation	2,698,326	433,647	6,991	553,576	517,885	429,836	515,787	99,854	140,750
Nuclear Regulatory Commission	46,594	0	0	0	0	0	46,594	0	0
Smithsonian Institution	129,000	42,435	0	42,302	4,673	0	0	38,310	1,280
Social Security Administration	36,895	0	0	0	0	0	0	36,895	0
United States Information Agency	100	0	0	0	0	0	100	0	0
US International Trade Commission	7,144	0	0	0	0	0	0	7,144	0

1 The Defense Threat Reduction Agency (DTRA) was established on October 1, 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.

2 Effective April 1, 1999, all functions and authorities of the United States Arms Control & Disarmament Agency were transferred to the Department of State.

3 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 (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-1996). More accurate data for AID will be reported in future volumes of this survey.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-23. Federal obligations for research in psychology and life sciences, by agency and detailed field of science: fiscal year 1998

[Dollars in thousands]

Agency and subdivision	Psychology				Life sciences					
	Total	Bio-logical aspects	Social aspects	Psycho-logical sci-ences, n.e.c.	Total	Bio-logical	Environ-mental biology	Agri-cultural	Medical	Life sci-ences, n.e.c.
Total, all agencies	590,968	41,592	97,490	451,886	13,557,574	5,706,572	604,483	762,785	5,996,325	487,409
Departments:										
Department of Agriculture, total	410	0	410	0	1,037,559	128,843	224,489	659,927	24,300	0
Agricultural Marketing Service	0	0	0	0	4,018	0	0	4,018	0	0
Agricultural Research Service	0	0	0	0	609,376	39,460	71,720	486,912	11,284	0
Cooperative State Research, Education, & Extension Service	0	0	0	0	317,284	67,693	77,159	163,921	8,511	0
Food Safety Inspection Service	0	0	0	0	125	125	0	0	0	0
Foreign Agricultural Service	0	0	0	0	1,422	0	0	1,422	0	0
Forest Service	410	0	410	0	103,485	21,565	75,610	1,805	4,505	0
Grain Inspection Packers & Stockyards Administration	0	0	0	0	549	0	0	549	0	0
Rural Business-Cooperative Svc	0	0	0	0	1,300	0	0	1,300	0	0
Department of Commerce, total	506	0	0	506	150,568	35,491	75,544	24,503	11,312	3,718
Bureau of the Census	506	0	0	506	0	0	0	0	0	0
Nat'l Inst of Standards & Tech	0	0	0	0	23,880	14,032	0	1,089	5,901	2,858
Nat'l Oceanic & Atmospheric Admin	0	0	0	0	126,688	21,459	75,544	23,414	5,411	860
Department of Defense, total	74,069	28,661	38,503	6,905	438,542	137,328	17,454	539	254,965	28,256
Department of the Air Force	21,725	325	18,470	2,930	42,569	12,441	9,154	0	9,367	11,607
Department of the Army	13,808	0	11,478	2,330	157,994	6,251	0	0	148,605	3,138
Department of the Navy	27,674	26,029	0	1,645	52,085	9,869	7,895	0	21,412	12,909
Defense Agencies, total	10,862	2,307	8,555	0	185,894	108,767	405	539	75,581	602
Defense Adv Rsch Projects Agcy	0	0	0	0	61,391	50,840	0	0	10,551	0
Defense Logistics Agency	8,016	0	8,016	0	0	0	0	0	0	0
Defense Threat Reduction Agency[1]	0	0	0	0	4,307	3,144	0	0	1,163	0
Special Operations Command	0	0	0	0	602	0	0	0	0	602
Washington Headquarters Svcs	2,846	2,307	539	0	119,594	54,783	405	539	63,867	0
Department of Education	7,319	0	4,237	3,082	11,169	0	0	0	2,310	8,859
Department of Energy	0	0	0	0	255,805	189,119	8,500	0	53,695	4,491
Dept of Health & Human Svcs, total	422,294	12,866	6,618	402,810	10,394,174	4,726,379	87	0	5,284,521	383,187
Agcy for Hlth Care Policy & Rsch	2,193	0	279	1,914	42,076	0	0	0	39,447	2,629
Centers for Disease Control & Prevention	0	0	0	0	343,559	0	0	0	343,559	0
Food & Drug Administration	0	0	0	0	142,937	142,937	0	0	0	0
Health Care Financing Admin	0	0	0	0	51,236	0	0	0	0	51,236
Health Resources & Services Admin	0	0	0	0	12,925	0	0	0	12,925	0
National Institutes of Health	420,101	12,866	6,339	400,896	9,801,441	4,583,442	87	0	4,888,590	329,322
Department of the Interior, total	0	0	0	0	116,412	61,893	54,023	496	0	0
Geological Survey	0	0	0	0	110,809	58,063	52,558	188	0	0
National Park Service	0	0	0	0	5,603	3,830	1,465	308	0	0
Department of Justice, total	500	0	300	200	0	0	0	0	0	0
Bureau of Prisons	500	0	300	200	0	0	0	0	0	0
Department of Transportation, total	25,764	0	25,764	0	8,738	0	473	20	4,499	3,746
Coast Guard	647	0	647	0	0	0	0	0	0	0
Federal Aviation Administration	24,430	0	24,430	0	4,499	0	0	0	4,499	0
Federal Highway Administration	687	0	687	0	493	0	473	20	0	0
National Highway Traffic Safety Administration	0	0	0	0	3,746	0	0	0	0	3,746
Department of the Treasury, total	475	0	0	475	0	0	0	0	0	0
United States Secret Service	475	0	0	475	0	0	0	0	0	0
Department of Veterans Affairs	33,016	0	0	33,016	214,078	0	0	0	214,078	0

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 of science: fiscal year 1998

[Dollars in thousands]

Agency and subdivision	Psychology				Life sciences					
	Total	Bio-logical aspects	Social aspects	Psycho-logical sci-ences, n.e.c.	Total	Bio-logical	Environ-mental biology	Agri-cultural	Medical	Life sci-ences, n.e.c.
Other agencies:										
Environmental Protection Agency	0	0	0	0	131,921	0	106,900	0	25,021	0
Internat'l Development Cooperation Agency, total	0	0	0	0	105,830	0	0	76,685	0	29,145
Agcy for Internat'l Development[2]	0	0	0	0	105,830	0	0	76,685	0	29,145
National Aeronautics & Space Admin	20,720	65	15,763	4,892	285,857	126,817	10,854	615	121,624	25,947
National Science Foundation	5,895	0	5,895	0	366,845	281,965	84,880	0	0	0
Smithsonian Institution	0	0	0	0	39,968	18,689	21,279	0	0	0
Tennessee Valley Authority	0	0	0	0	48	48	0	0	0	0
US Arms Control & Disarmament Agcy[3]	0	0	0	0	60	0	0	0	0	60

1 The Defense Threat Reduction Agency (DTRA) was established on October 1, 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.

2 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 (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-1996). More accurate data for AID will be reported in future volumes of this survey.

3 Effective April 1, 1999, all functions and authorities of the United States Arms Control & Disarmament Agency were transferred to the Department of State.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-24. Federal obligations for research in physical and environmental sciences, by agency and detailed field of science: fiscal year 1998

[Dollars in thousands]

Agency and subdivision	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences, n.e.c.	Total	Atmospheric	Geological	Oceanography	Environmental sciences, n.e.c.
Total, all agencies	4,209,679	732,150	819,030	2,131,758	526,741	3,061,979	1,174,426	603,316	559,794	724,443
Departments:										
Department of Agriculture, total	87,338	0	82,210	5,128	0	10,355	8,937	1,418	0	0
Agricultural Research Service	64,804	0	61,426	3,378	0	3,551	3,440	111	0	0
Cooperative State Research, Education, & Extension Service	15,229	0	15,229	0	0	1,027	1,027	0	0	0
Forest Service	7,305	0	5,555	1,750	0	5,777	4,470	1,307	0	0
Department of Commerce, total	104,488	371	41,569	62,213	335	250,820	105,181	4,698	126,409	14,532
Nat'l Inst of Standards & Tech	81,272	371	28,885	51,681	335	767	0	767	0	0
Nat'l Oceanic & Atmospheric Admin	23,216	0	12,684	10,532	0	250,053	105,181	3,931	126,409	14,532
Department of Defense, total	440,286	6,270	124,332	238,376	71,308	361,300	51,863	11,242	112,459	185,736
Department of the Air Force	133,079	0	34,478	98,520	81	5,474	3,352	1,455	0	667
Department of the Army	63,891	0	18,004	29,691	16,196	75,322	14,622	3,856	0	56,844
Department of the Navy	48,190	0	25,001	15,294	7,895	249,896	26,435	4,934	97,429	121,098
Defense Agencies, total	195,126	6,270	46,849	94,871	47,136	30,608	7,454	997	15,030	7,127
Ballistic Missile Defense Org	37,975	0	20,519	17,456	0	2,701	2,701	0	0	0
Defense Adv Rsch Projects Agcy	44,552	0	0	28,826	15,726	6,313	0	0	6,313	0
Defense Threat Reduction Agency[1]	59,266	0	0	27,856	31,410	6,767	0	0	0	6,767
Washington Headquarters Svcs	53,333	6,270	26,330	20,733	0	14,827	4,753	997	8,717	360
Department of Energy	1,868,593	0	236,788	1,321,650	310,155	350,010	90,544	84,298	4,244	170,924
Dept of Health & Human Svcs, total	178,803	0	158,732	20,071	0	34,518	0	0	0	34,518
National Institutes of Health	178,803	0	158,732	20,071	0	34,518	0	0	0	34,518
Department of the Interior, total	1,553	0	917	90	546	348,475	3,445	200,987	17,491	126,552
Bureau of Reclamation	0	0	0	0	0	2,650	0	0	0	2,650
Geological Survey	0	0	0	0	0	320,013	0	199,617	0	120,396
Minerals Management Service	90	0	0	90	0	20,371	1,092	1,010	17,128	1,141
National Park Service	1,463	0	917	0	546	5,441	2,353	360	363	2,365
Department of Transportation, total	37,589	0	0	35,815	1,774	23,961	21,314	0	551	2,096
Coast Guard	0	0	0	0	0	551	0	0	551	0
Federal Aviation Administration	35,551	0	0	35,551	0	20,183	20,183	0	0	0
Federal Highway Administration	2,038	0	0	264	1,774	3,152	1,131	0	0	2,021
Research & Special Programs Admin	0	0	0	0	0	75	0	0	0	75
Department of the Treasury, total	2,676	0	243	25	2,408	776	0	0	0	776
Bureau of Engraving & Printing	2,676	0	243	25	2,408	0	0	0	0	0
United States Customs Service	0	0	0	0	0	776	0	0	0	776

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 of science: fiscal year 1998

[Dollars in thousands]

Agency and subdivision	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences, n.e.c.	Total	Atmospheric	Geological	Oceanography	Environmental sciences, n.e.c.
Other agencies:										
Environmental Protection Agency	0	0	0	0	0	204,215	95,230	13,287	0	95,698
Internat'l Development Cooperation Agency, total	0	0	0	0	0	3,246	0	0	0	3,246
Agcy for Internat'l Development[2]	0	0	0	0	0	3,246	0	0	0	3,246
Library of Congress	455	0	364	0	91	0	0	0	0	0
National Aeronautics & Space Admin	979,466	575,093	48,325	317,333	38,715	1,032,414	662,846	185,533	110,437	73,598
National Archives & Records Admin	120	0	70	50	0	0	0	0	0	0
National Science Foundation	467,920	113,248	124,019	129,376	101,277	436,868	134,858	97,402	187,916	16,692
Smithsonian Institution	39,453	37,168	660	1,625	0	4,395	83	4,025	287	0
Tennessee Valley Authority	561	0	561	0	0	200	125	0	0	75
US Arms Control & Disarmament Agcy[3]	378	0	240	6	132	426	0	426	0	0

1 The Defense Threat Reduction Agency (DTRA) was established on October 1, 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.

2 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 (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-1996). More accurate data for AID will be reported in future volumes of this survey.

3 Effective April 1, 1999, all functions and authorities of the United States Arms Control & Disarmament Agency were transferred to the Department of State.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-25. Federal obligations for research in engineering, by agency and detailed field of engineering: fiscal year 1998

[Dollars in thousands]

Agency and subdivision	Total	Aero-nautical	Astro-nauti-cal	Chemical	Civil	Elec-trical	Mechan-ical	Metal-lurgy and materials	Engi-neering, n.e.c.
Total, all agencies	5,895,423	1,596,427	631,111	190,147	244,126	639,349	249,551	789,098	1,555,614
Departments:									
Department of Agriculture, total	57,335	0	0	8,069	5,745	635	3,405	0	39,481
Agricultural Research Service	11,019	0	0	5,904	1,698	569	675	0	2,173
Cooperative State Research, Education, & Extension Service	17,068	0	0	0	0	0	0	0	17,068
Forest Service	29,248	0	0	2,165	4,047	66	2,730	0	20,240
Department of Commerce, total	158,476	0	0	6,813	23,129	41,566	3,642	37,459	45,867
Nat'l Inst of Standards & Tech	144,513	0	0	6,813	23,129	32,137	3,642	37,459	41,333
Nat'l Oceanic & Atmospheric Admin	10,197	0	0	0	0	5,663	0	0	4,534
National Telecommunications & Information Administration	3,766	0	0	0	0	3,766	0	0	0
Department of Defense, total	1,805,538	308,623	36,643	34,798	51,871	507,238	179,151	340,555	346,659
Department of the Air Force	461,742	199,253	33,870	1,824	9,700	89,379	34,689	57,253	35,774
Department of the Army	333,667	32,717	904	13,226	33,719	120,061	63,691	27,867	41,482
Department of the Navy	403,761	33,855	0	4,746	0	140,750	48,186	64,921	111,303
Defense Agencies, total	606,368	42,798	1,869	15,002	8,452	157,048	32,585	190,514	158,100
Ballistic Missile Defense Org	55,781	1,575	994	3,570	0	13,826	0	13,515	22,301
Defense Adv Rsch Projects Agcy	321,292	38,717	0	1,929	361	49,576	89	136,335	94,285
Defense Threat Reduction Agency[1]	58,856	235	0	883	5,886	23,013	8,946	0	19,893
Special Operations Command	14,794	0	0	0	0	0	0	0	14,794
Washington Headquarters Svcs	155,645	2,271	875	8,620	2,205	70,633	23,550	40,664	6,827
Department of Education	7,704	0	0	0	0	0	0	0	7,704
Department of Energy	797,891	0	0	91,325	37,979	25,230	17,499	260,618	365,240
Dept of Health & Human Svcs, total	163,397	0	0	0	0	0	0	0	163,397
National Institutes of Health	163,397	0	0	0	0	0	0	0	163,397
Dept of Housing & Urban Development	571	0	0	0	0	0	0	0	571
Department of the Interior, total	8,653	0	0	3,094	4,468	187	0	904	0
Bureau of Reclamation	3,876	0	0	1,300	2,250	0	0	326	0
Geological Survey	1,125	0	0	0	938	187	0	0	0
Minerals Management Service	3,652	0	0	1,794	1,280	0	0	578	0
Department of Justice, total	7,000	0	0	0	0	0	0	0	7,000
Office of Justice Programs	7,000	0	0	0	0	0	0	0	7,000
Department of Transportation, total	244,711	0	0	18	82,550	2,920	19,299	25,071	114,853
Coast Guard	2,779	0	0	0	326	1,285	570	598	0
Federal Aviation Administration	49,595	0	0	0	44,315	0	2,769	2,511	0
Federal Highway Administration	133,662	0	0	18	33,385	0	0	21,068	79,191
Federal Railroad Administration	19,266	0	0	0	4,524	1,635	5,555	425	7,127
Federal Transit Administration	7,400	0	0	0	0	0	0	0	7,400
National Highway Traffic Safety Administration	27,886	0	0	0	0	0	10,405	0	17,481
Research & Special Programs Admin	4,123	0	0	0	0	0	0	469	3,654
Department of Veterans Affairs	21,972	0	0	0	0	0	0	0	21,972

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: fiscal year 1998

[Dollars in thousands]

Agency and subdivision	Total	Aero-nautical	Astro-nauti-cal	Chemical	Civil	Elec-trical	Mechan-ical	Metal-lurgy and materials	Engi-neering, n.e.c.
Other agencies:									
Environmental Protection Agency	141,064	0	0	3,109	0	0	0	0	137,955
Federal Communications Commission	1,400	0	0	0	0	1,250	0	0	150
National Aeronautics & Space Admin	1,984,062	1,287,804	594,468	2,783	118	20,076	18,372	18,038	42,403
National Science Foundation	443,631	0	0	40,138	38,266	40,247	8,183	106,453	210,344
Nuclear Regulatory Commission	51,700	0	0	0	0	0	0	0	51,700
US Arms Control & Disarmament Agcy[2] ..	60	0	0	0	0	0	0	0	60
United States Information Agency	258	0	0	0	0	0	0	0	258

[1] The Defense Threat Reduction Agency (DTRA) was established on October 1, 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.

[2] Effective April 1, 1999, all functions and authorities of the United States Arms Control & Disarmament Agency were transferred to the Department of State.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-26. Federal obligations for research in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1998

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences, n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences, n.e.c.
Total, all agencies	1,836,842	334,063	1,398,740	104,039	806,129	18,186	230,450	20,224	100,831	436,438
Departments:										
Department of Agriculture, total	15,068	15,068	0	0	122,385	275	112,479	0	9,631	0
Agricultural Research Service	980	980	0	0	0	0	0	0	0	0
Cooperative State Research, Education, & Extension Service	0	0	0	0	35,837	0	27,256	0	8,581	0
Economic Research Service	0	0	0	0	71,547	0	71,547	0	0	0
Forest Service	10,755	10,755	0	0	11,865	275	10,540	0	1,050	0
Nat'l Agricultural Statistics Svc	3,333	3,333	0	0	0	0	0	0	0	0
Rural Business-Cooperative Svc	0	0	0	0	3,136	0	3,136	0	0	0
Department of Commerce, total	78,103	12,610	57,589	7,904	21,448	0	5,414	8,228	6,499	1,307
Bureau of the Census	3,353	0	0	3,353	1,307	0	0	0	0	1,307
Economic Development Admin	0	0	0	0	557	0	557	0	0	0
Nat'l Inst of Standards & Tech	54,944	3,449	46,944	4,551	0	0	0	0	0	0
Nat'l Oceanic & Atmospheric Admin	19,806	9,161	10,645	0	19,584	0	4,857	8,228	6,499	0
Department of Defense, total	658,680	63,966	561,667	33,047	176	0	0	0	176	0
Department of the Air Force	56,219	7,689	23,633	24,897	0	0	0	0	0	0
Department of the Army	80,132	11,252	65,589	3,291	176	0	0	0	176	0
Department of the Navy	40,552	13,816	26,736	0	0	0	0	0	0	0
Defense Agencies, total	481,777	31,209	445,709	4,859	0	0	0	0	0	0
Ballistic Missile Defense Org	30,344	0	27,000	3,344	0	0	0	0	0	0
Defense Adv Rsch Projects Agcy	407,975	21,542	386,433	0	0	0	0	0	0	0
Defense Threat Reduction Agency[1]	9,638	0	9,638	0	0	0	0	0	0	0
Washington Headquarters Svcs	33,820	9,667	22,638	1,515	0	0	0	0	0	0
Department of Education	1,156	0	1,156	0	121,394	0	0	0	0	121,394
Department of Energy	494,617	93,586	395,801	5,230	0	0	0	0	0	0
Dept of Health & Human Svcs, total	113,978	47,639	66,339	0	187,026	0	39,092	0	1,179	146,755
Administration on Aging	0	0	0	0	2,435	0	0	0	0	2,435
Admin for Children & Families	0	0	0	0	23,456	0	0	0	0	23,456
Agcy for Hlth Care Policy & Rsch	12,372	309	12,063	0	42,528	0	39,092	0	921	2,515
National Institutes of Health	101,606	47,330	54,276	0	104,659	0	0	0	258	104,401
Office of the Secretary, total	0	0	0	0	13,948	0	0	0	0	13,948
Office of the Asst Secretary, Planning & Evaluation	0	0	0	0	13,948	0	0	0	0	13,948
Dept of Housing & Urban Development	123	0	0	123	8,313	0	6,972	133	620	588
Department of the Interior, total	6,874	904	5,970	0	20,885	3,761	2,593	0	1,543	12,988
Bureau of Reclamation	0	0	0	0	100	0	50	0	0	50
Geological Survey	4,126	844	3,282	0	1,125	0	0	0	656	469
Minerals Management Service	1,155	60	1,095	0	4,018	597	2,534	0	887	0
National Park Service	1,593	0	1,593	0	15,642	3,164	9	0	0	12,469
Department of Justice, total	500	0	0	500	34,005	0	100	0	31,879	2,026
Bureau of Prisons	500	0	0	500	3,326	0	100	0	1,200	2,026
Office of Justice Programs	0	0	0	0	30,679	0	0	0	30,679	0
Department of Labor, total	95	0	95	0	21,984	0	21,984	0	0	0
Bureau of Labor Statistics	0	0	0	0	12,400	0	12,400	0	0	0
Employment & Training Admin	0	0	0	0	2,197	0	2,197	0	0	0
Occupational Safety & Hlth Admin	0	0	0	0	4,592	0	4,592	0	0	0
Office of the Secretary	95	0	95	0	0	0	0	0	0	0
Pension Benefit Guaranty Corp	0	0	0	0	55	0	55	0	0	0
Pension & Welfare Benefits Admin	0	0	0	0	2,740	0	2,740	0	0	0
Department of State[2]	0	0	0	0	852	0	51	409	128	264

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 of science: fiscal year 1998

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences, n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences, n.e.c.
Department of Transportation, total	24,242	212	17,827	6,203	8,602	0	1,943	240	0	6,419
Coast Guard	1,133	0	1,133	0	0	0	0	0	0	0
Federal Highway Administration	16,686	212	15,739	735	2,775	0	1,943	240	0	592
Federal Railroad Administration	1,925	0	955	970	0	0	0	0	0	0
National Highway Traffic Safety Administration	4,162	0	0	4,162	5,827	0	0	0	0	5,827
Research & Special Programs Admin	336	0	0	336	0	0	0	0	0	0
Department of the Treasury, total	0	0	0	0	48,626	0	2,850	0	0	45,776
Internal Revenue Service	0	0	0	0	47,942	0	2,166	0	0	45,776
Office of Thrift Supervision	0	0	0	0	684	0	684	0	0	0
Other agencies:										
Appalachian Regional Commission	0	0	0	0	680	0	680	0	0	0
Federal Communications Commission	180	0	180	0	1,445	0	1,445	0	0	0
Federal Trade Commission	0	0	0	0	1,144	0	1,144	0	0	0
Internat'l Development Cooperation Agency, total	0	0	0	0	62,032	0	7,109	5,914	43,169	5,840
Agcy for Internat'l Development[3]	0	0	0	0	62,032	0	7,109	5,914	43,169	5,840
National Aeronautics & Space Admin	80,142	3,823	25,287	51,032	387	0	0	0	250	137
National Science Foundation	363,084	96,255	266,829	0	85,028	11,476	19,429	5,174	5,385	43,564
Smithsonian Institution	0	0	0	0	35,004	2,674	0	0	372	31,958
Social Security Administration	0	0	0	0	17,422	0	0	0	0	17,422
US Arms Control & Disarmament Agcy[2]	0	0	0	0	126	0	0	126	0	0
US International Trade Commission	0	0	0	0	7,165	0	7,165	0	0	0

1 The Defense Threat Reduction Agency (DTRA) was established on October 1, 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.

2 Effective April 1, 1999, all functions and authorities of the United States Arms Control & Disarmament Agency were transferred to the Department of State.

3 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 (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-1996). More accurate data for AID will be reported in future volumes of this survey.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-27. Federal obligations for basic research, by agency and performer: fiscal year 1998 (revised)

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural [1]	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by in-dustrial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Total, all agencies	15,613,012	2,917,780	1,119,681	326,405	7,952,176	1,642,306	1,397,565	121,849	84,876	50,374
Departments:										
Department of Agriculture, total	603,763	421,443	3,798	0	173,716	0	2,730	0	404	1,672
Agricultural Research Service	401,711	378,413	0	0	20,212	0	1,420	0	5	1,661
Cooperative State Research, Education, & Extension Service	163,451	8,576	3,797	0	149,481	0	1,208	0	389	0
Economic Research Service	7,155	7,155	0	0	0	0	0	0	0	0
Food Safety Inspection Service	125	125	0	0	0	0	0	0	0	0
Foreign Agricultural Service	924	721	0	0	203	0	0	0	0	0
Forest Service	29,300	25,356	1	0	3,820	0	102	0	10	11
Nat'l Agricultural Statistics Svc	1,097	1,097	0	0	0	0	0	0	0	0
Department of Commerce, total	39,593	35,394	456	0	3,521	20	102	0	100	0
Bureau of the Census	550	550	0	0	0	0	0	0	0	0
Nat'l Inst of Standards & Tech	38,636	34,639	456	0	3,521	20	0	0	0	0
Nat'l Oceanic & Atmospheric Admin	407	205	0	0	0	0	102	0	100	0
Department of Defense, total	1,030,839	309,521	123,947	404	546,477	11,416	25,250	3,850	0	9,974
Department of the Air Force	185,564	85,523	24,014	0	68,477	417	4,613	0	0	2,520
Department of the Army	181,955	87,492	29,610	100	58,001	206	2,267	3,155	0	1,124
Department of the Navy	328,975	109,119	32,956	226	157,677	6,123	16,896	0	0	5,978
Defense Agencies, total	334,345	27,387	37,367	78	262,322	4,670	1,474	695	0	352
Defense Adv Rsch Projects Agcy	78,259	6,367	35,394	0	29,507	4,670	1,474	695	0	152
Washington Headquarters Svcs	256,086	21,020	1,973	78	232,815	0	0	0	0	200
Department of Education	2,063	146	0	0	1,917	0	0	0	0	0
Department of Energy	2,028,805	46,895	48,315	231,118	449,065	1,100,508	44,076	104,964	2,800	1,064
Dept of Health & Human Svcs, total	7,355,363	1,263,026	322,957	93,364	4,467,813	18,555	1,098,686	10,596	57,352	23,014
Health Resources & Services Admin	1,050	1,050	0	0	0	0	0	0	0	0
National Institutes of Health	7,354,313	1,261,976	322,957	93,364	4,467,813	18,555	1,098,686	10,596	57,352	23,014
Department of the Interior, total	48,733	45,384	0	0	3,168	0	120	0	61	0
Geological Survey	48,187	45,344	0	0	2,782	0	0	0	61	0
National Park Service	546	40	0	0	386	0	120	0	0	0
Department of Justice, total	16,000	250	3,545	0	8,825	0	3,200	0	180	0
Office of Justice Programs	16,000	250	3,545	0	8,825	0	3,200	0	180	0
Department of Labor, total	11,100	7,100	0	0	4,000	0	0	0	0	0
Bureau of Labor Statistics	11,100	7,100	0	0	4,000	0	0	0	0	0
Department of Transportation, total	34,971	8,458	3,871	627	3,743	3,370	971	0	13,931	0
Federal Highway Administration	34,971	8,458	3,871	627	3,743	3,370	971	0	13,931	0
Department of the Treasury, total	34	34	0	0	0	0	0	0	0	0
Bureau of Engraving & Printing	34	34	0	0	0	0	0	0	0	0
Department of Veterans Affairs	120,015	120,015	0	0	0	0	0	0	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: fiscal year 1998 (revised)

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural [1]	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by in-dustrial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Other agencies:										
Environmental Protection Agency	57,400	17,095	11,642	0	18,571	0	7,832	0	1,961	299
Internat'l Development Cooperation Agency, total	1,815	218	0	0	18	0	1,361	0	0	218
Agcy for Internat'l Development[2]	1,815	218	0	0	18	0	1,361	0	0	218
National Aeronautics & Space Admin	2,023,793	506,613	559,885	892	495,494	369,358	79,826	2,239	4,547	4,939
National Science Foundation	2,118,677	16,140	41,265	0	1,775,848	139,079	133,411	200	3,540	9,194
Smithsonian Institution	120,000	120,000	0	0	0	0	0	0	0	0
Tennessee Valley Authority	48	48	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] 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 (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-1996). More accurate data for AID will be reported in future volumes of this survey.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-28. Preliminary Federal obligations for basic research, by agency and performer: fiscal year 1999

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural [1]	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by in-dustrial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Total, all agencies	17,366,858	3,107,467	1,292,460	336,921	8,931,601	1,807,172	1,601,450	144,871	89,289	55,627
Departments:										
Department of Agriculture, total	715,731	465,963	6,014	0	238,783	0	2,755	0	424	1,792
Agricultural Research Service	449,768	421,948	0	0	24,587	0	1,447	0	5	1,781
Cooperative State Research, Education, & Extension Service	227,657	9,856	6,013	0	210,173	0	1,206	0	409	0
Economic Research Service	6,497	6,497	0	0	0	0	0	0	0	0
Food Safety Inspection Service	125	125	0	0	0	0	0	0	0	0
Foreign Agricultural Service	924	721	0	0	203	0	0	0	0	0
Forest Service	29,700	25,756	1	0	3,820	0	102	0	10	11
Nat'l Agricultural Statistics Svc	1,060	1,060	0	0	0	0	0	0	0	0
Department of Commerce, total	45,673	41,152	491	0	3,792	20	118	0	100	0
Bureau of the Census	1,049	1,049	0	0	0	0	0	0	0	0
Nat'l Inst of Standards & Tech	40,765	36,709	491	0	3,545	20	0	0	0	0
Nat'l Oceanic & Atmospheric Admin	3,859	3,394	0	0	247	0	118	0	100	0
Department of Defense, total	1,030,259	306,745	110,034	417	547,628	5,487	34,208	15,727	0	10,013
Department of the Air Force	195,251	71,432	23,264	0	85,250	299	12,133	30	0	2,843
Department of the Army	178,913	82,476	25,468	90	53,645	125	2,013	14,796	0	300
Department of the Navy	344,564	120,484	33,552	247	163,638	1,498	18,400	200	0	6,545
Defense Agencies, total	311,531	32,353	27,750	80	245,095	3,565	1,662	701	0	325
Defense Adv Rsch Projects Agcy	56,391	4,588	25,504	0	21,261	3,365	1,062	501	0	110
Washington Headquarters Svcs	255,140	27,765	2,246	80	223,834	200	600	200	0	215
Department of Education	2,050	135	0	0	1,915	0	0	0	0	0
Department of Energy	2,230,019	45,322	117,473	225,950	448,316	1,234,576	39,823	114,185	3,250	1,124
Dept of Health & Human Svcs, total	8,428,388	1,343,794	375,575	108,576	5,195,393	21,578	1,277,691	12,322	66,696	26,763
Health Resources & Services Admin	1,102	1,102	0	0	0	0	0	0	0	0
National Institutes of Health	8,427,286	1,342,692	375,575	108,576	5,195,393	21,578	1,277,691	12,322	66,696	26,763
Department of the Interior, total	50,829	47,426	0	0	3,220	0	122	0	61	0
Geological Survey	50,279	47,386	0	0	2,832	0	0	0	61	0
National Park Service	550	40	0	0	388	0	122	0	0	0
Department of Justice, total	20,075	275	4,100	0	10,375	0	4,725	0	600	0
Office of Justice Programs	20,075	275	4,100	0	10,375	0	4,725	0	600	0
Department of Labor, total	11,100	11,100	0	0	0	0	0	0	0	0
Bureau of Labor Statistics	11,100	11,100	0	0	0	0	0	0	0	0
Department of Transportation, total	39,897	11,999	11,330	1,028	7,000	390	1,028	0	7,122	0
Federal Highway Administration	39,897	11,999	11,330	1,028	7,000	390	1,028	0	7,122	0
Department of the Treasury, total	38	38	0	0	0	0	0	0	0	0
Bureau of Engraving & Printing	38	38	0	0	0	0	0	0	0	0
Department of Veterans Affairs	139,855	139,855	0	0	0	0	0	0	0	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: fiscal year 1999

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural [1]	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by in-dustrial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Other agencies:										
Environmental Protection Agency	75,663	22,534	15,346	0	24,480	0	10,324	0	2,585	394
Internat'l Development Cooperation Agency, total	60	8	0	0	0	0	46	0	0	6
Agcy for Internat'l Development[2]	60	8	0	0	0	0	46	0	0	6
National Aeronautics & Space Admin	2,122,562	531,354	606,664	950	495,494	391,995	83,724	2,417	4,553	5,411
National Science Foundation	2,332,659	17,767	45,433	0	1,955,205	153,126	146,886	220	3,898	10,124
Smithsonian Institution	122,000	122,000	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] 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 (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-1996). More accurate data for AID will be reported in future volumes of this survey.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-29. Preliminary Federal obligations for basic research, by agency and performer: fiscal year 2000

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural [1]	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by in-dustrial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Total, all agencies	18,209,439	3,336,199	1,439,629	338,845	9,226,882	1,969,382	1,623,730	129,012	87,754	58,006
Departments:										
Department of Agriculture, total	718,941	483,146	4,799	0	226,804	0	1,836	0	418	1,938
Agricultural Research Service	462,169	439,300	0	0	20,409	0	528	0	5	1,927
Cooperative State Research, Education, & Extension Service	219,400	10,621	4,798	0	202,372	0	1,206	0	403	0
Economic Research Service	5,563	5,563	0	0	0	0	0	0	0	0
Food Safety Inspection Service	125	125	0	0	0	0	0	0	0	0
Foreign Agricultural Service	924	721	0	0	203	0	0	0	0	0
Forest Service	29,700	25,756	1	0	3,820	0	102	0	10	11
Nat'l Agricultural Statistics Svc	1,060	1,060	0	0	0	0	0	0	0	0
Department of Commerce, total	44,780	40,259	491	0	3,792	20	118	0	100	0
Bureau of the Census	531	531	0	0	0	0	0	0	0	0
Nat'l Inst of Standards & Tech	40,335	36,279	491	0	3,545	20	0	0	0	0
Nat'l Oceanic & Atmospheric Admin	3,914	3,449	0	0	247	0	118	0	100	0
Department of Defense, total	1,115,141	354,956	122,919	426	597,316	5,318	23,152	563	0	10,491
Department of the Air Force	209,528	89,200	24,990	0	92,738	0	0	0	0	2,600
Department of the Army	189,515	102,390	29,222	88	55,166	82	2,220	7	0	340
Department of the Navy	375,832	130,816	37,240	258	180,136	1,250	19,303	0	0	6,829
Defense Agencies, total	340,266	32,550	31,467	80	269,276	3,986	1,629	556	0	722
Defense Adv Rsch Projects Agcy	62,609	5,094	28,317	0	23,605	3,736	1,179	556	0	122
Washington Headquarters Svcs	277,657	27,456	3,150	80	245,671	250	450	0	0	600
Department of Education	2,010	95	0	0	1,915	0	0	0	0	0
Department of Energy	2,285,784	66,032	114,715	225,030	475,533	1,265,563	23,549	112,344	2,500	518
Dept of Health & Human Svcs, total	8,588,895	1,385,270	384,461	111,144	5,279,513	22,089	1,298,133	12,614	68,274	27,397
Health Resources & Services Admin	1,157	1,157	0	0	0	0	0	0	0	0
National Institutes of Health	8,587,738	1,384,113	384,461	111,144	5,279,513	22,089	1,298,133	12,614	68,274	27,397
Department of the Interior, total	51,906	48,503	0	0	3,220	0	122	0	61	0
Geological Survey	51,356	48,463	0	0	2,832	0	0	0	61	0
National Park Service	550	40	0	0	388	0	122	0	0	0
Department of Justice, total	15,200	1	4,087	0	5,360	0	4,636	0	1,116	0
Office of Justice Programs	15,200	1	4,087	0	5,360	0	4,636	0	1,116	0
Department of Labor, total	11,100	11,100	0	0	0	0	0	0	0	0
Bureau of Labor Statistics	11,100	11,100	0	0	0	0	0	0	0	0
Department of Transportation, total	67,623	26,131	25,795	1,240	5,408	0	5,210	0	3,839	0
Federal Highway Administration	67,623	26,131	25,795	1,240	5,408	0	5,210	0	3,839	0
Department of the Treasury, total	28	28	0	0	0	0	0	0	0	0
Bureau of Engraving & Printing	28	28	0	0	0	0	0	0	0	0
Department of Veterans Affairs	137,500	137,500	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: fiscal year 2000

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural [1]	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by in-dustrial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Other agencies:										
Environmental Protection Agency	78,800	22,080	15,982	0	25,495	0	12,125	0	2,692	426
Internat'l Development Cooperation Agency, total	99	13	0	0	8	0	76	0	0	2
Agcy for Internat'l Development[2]	99	13	0	0	8	0	76	0	0	2
National Aeronautics & Space Admin	2,448,845	612,938	717,419	1,005	495,494	511,376	96,482	3,254	4,553	6,324
National Science Foundation	2,513,787	19,147	48,961	0	2,107,024	165,016	158,291	237	4,201	10,910
Smithsonian Institution	129,000	129,000	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] 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 (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-1996). More accurate data for AID will be reported in future volumes of this survey.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-30. Federal obligations for basic research, by detailed field of science and engineering: fiscal years 1998, 1999, and 2000

[Dollars in thousands]

Field of science and engineering	1998	Preliminary	
		1999	2000
Total, all fields	15,613,012	17,366,858	18,209,439
Life sciences, total	7,853,424	8,990,397	9,182,929
Biological (excluding environmental)	3,652,992	NA	NA
Environmental biology	196,843	NA	NA
Agricultural	372,509	NA	NA
Medical	3,392,433	NA	NA
Life sciences, n.e.c.	238,647	NA	NA
Psychology, total	312,016	357,361	376,673
Biological aspects	27,321	NA	NA
Social aspects	12,862	NA	NA
Psychological sciences, n.e.c.	271,833	NA	NA
Physical sciences, total	2,941,381	3,198,021	3,418,455
Astronomy	706,921	NA	NA
Chemistry	517,523	NA	NA
Physics	1,579,807	NA	NA
Physical sciences, n.e.c.	137,130	NA	NA
Environmental sciences, total	1,528,734	1,641,667	1,795,219
Atmospheric	655,184	NA	NA
Geological	391,170	NA	NA
Oceanography	285,997	NA	NA
Environmental sciences, n.e.c.	196,383	NA	NA
Mathematics & computer sciences, total	705,486	754,671	839,548
Mathematics	250,725	NA	NA
Computer sciences	419,128	NA	NA
Mathematics & computer sciences, n.e.c.	35,633	NA	NA
Engineering, total	1,594,442	1,653,457	1,803,372
Aeronautical	285,233	NA	NA
Astronautical	67,952	NA	NA
Chemical	52,266	NA	NA
Civil	35,854	NA	NA
Electrical	213,922	NA	NA
Mechanical	106,670	NA	NA
Metallurgy & materials	478,243	NA	NA
Engineering, n.e.c.	354,302	NA	NA
Social sciences, total	224,799	249,105	252,648
Anthropology	13,522	NA	NA
Economics	41,510	NA	NA
Political science	4,624	NA	NA
Sociology	23,463	NA	NA
Social sciences, n.e.c.	141,680	NA	NA
Other sciences, n.e.c.	452,730	522,179	540,595

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: NA = Not applicable (indicates that the data collected for this table were not recorded at that level in that particular fiscal year)
n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-31. Federal obligations for basic research, by agency and field of science and engineering: fiscal year 1998

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psy-chology	Physical sciences	Environ-mental sciences	Mathe-matics and computer sciences	Engi-neering	Social sciences	Other sciences, n.e.c.
Total, all agencies	15,613,012	7,853,424	312,016	2,941,381	1,528,734	705,486	1,594,442	224,799	452,730
Departments:									
Department of Agriculture, total	603,763	528,885	40	40,692	3,051	2,217	11,812	16,836	230
Agricultural Research Service	401,711	362,321	0	32,756	1,877	640	4,117	0	0
Cooperative State Research, Education, & Extension Service	163,451	144,820	0	5,946	522	0	3,707	8,456	0
Economic Research Service	7,155	0	0	0	0	0	0	7,155	0
Food Safety Inspection Service	125	125	0	0	0	0	0	0	0
Foreign Agricultural Service	924	924	0	0	0	0	0	0	0
Forest Service	29,300	20,695	40	1,990	652	480	3,988	1,225	230
Nat'l Agricultural Statistics Svc	1,097	0	0	0	0	1,097	0	0	0
Department of Commerce, total	39,593	4,447	104	29,089	925	1,699	3,329	0	0
Bureau of the Census	550	0	104	0	0	446	0	0	0
Nat'l Inst of Standards & Tech	38,636	4,447	0	29,089	518	1,253	3,329	0	0
Nat'l Oceanic & Atmospheric Admin	407	0	0	0	407	0	0	0	0
Department of Defense, total	1,030,839	115,682	25,153	159,621	137,121	137,169	450,095	0	5,998
Department of the Air Force	185,564	19,165	0	44,276	0	24,204	95,422	0	2,497
Department of the Army	181,955	26,957	4,634	31,716	14,814	34,699	65,634	0	3,501
Department of the Navy	328,975	25,001	18,751	46,054	108,558	29,935	100,676	0	0
Defense Agencies, total	334,345	44,559	1,768	37,575	13,749	48,331	188,363	0	0
Defense Adv Rsch Projects Agcy	78,259	1,770	0	0	0	18,968	57,521	0	0
Washington Headquarters Svcs	256,086	42,789	1,768	37,575	13,749	29,363	130,842	0	0
Department of Education	2,063	0	0	0	0	0	0	2,063	0
Department of Energy	2,028,805	192,810	0	1,229,268	225,585	120,490	259,207	0	1,445
Dept of Health & Human Svcs, total	7,355,363	6,386,178	273,675	116,480	22,487	66,191	106,444	68,180	315,728
Health Resources & Services Admin	1,050	1,050	0	0	0	0	0	0	0
National Institutes of Health	7,354,313	6,385,128	273,675	116,480	22,487	66,191	106,444	68,180	315,728
Department of the Interior, total	48,733	9,415	0	546	38,772	0	0	0	0
Geological Survey	48,187	9,415	0	0	38,772	0	0	0	0
National Park Service	546	0	0	546	0	0	0	0	0
Department of Justice, total	16,000	0	0	0	0	0	0	16,000	0
Office of Justice Programs	16,000	0	0	0	0	0	0	16,000	0
Department of Labor, total	11,100	0	0	0	0	0	0	11,100	0
Bureau of Labor Statistics	11,100	0	0	0	0	0	0	11,100	0
Department of Transportation, total	34,971	0	64	161	174	1,437	33,123	0	12
Federal Highway Administration	34,971	0	64	161	174	1,437	33,123	0	12
Department of the Treasury, total	34	0	0	34	0	0	0	0	0
Bureau of Engraving & Printing	34	0	0	34	0	0	0	0	0
Department of Veterans Affairs	120,015	114,516	3,302	0	0	0	2,197	0	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: fiscal year 1998

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psy-chology	Physical sciences	Environ-mental sciences	Mathe-matics and computer sciences	Engi-neering	Social sciences	Other sciences, n.e.c.
Other agencies:									
Environmental Protection Agency	57,400	15,869	0	0	24,564	0	16,967	0	0
Internat'l Development Cooperation Agency, total	1,815	0	0	0	0	0	0	0	1,815
Agcy for Internat'l Development[1]	1,815	0	0	0	0	0	0	0	1,815
National Aeronautics & Space Admin	2,023,793	94,073	3,801	873,384	639,119	22,326	368,194	387	22,509
National Science Foundation	2,118,677	351,533	5,877	452,653	432,541	353,957	343,074	75,229	103,813
Smithsonian Institution	120,000	39,968	0	39,453	4,395	0	0	35,004	1,180
Tennessee Valley Authority	48	48	0	0	0	0	0	0	0

[1] 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 (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-1996). More accurate data for AID will be reported in future volumes of this survey.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-32. Preliminary Federal obligations for basic research, by agency and field of science and engineering: fiscal year 1999

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psy-chology	Physical sciences	Environ-mental sciences	Mathe-matics and computer sciences	Engi-neering	Social sciences	Other sciences, n.e.c.
Total, all agencies	17,366,858	8,990,397	357,361	3,198,021	1,641,667	754,671	1,653,457	249,105	522,179
Departments:									
Department of Agriculture, total	715,731	638,453	40	40,181	3,287	2,104	13,141	18,290	235
Agricultural Research Service	449,768	412,268	0	30,752	2,030	559	4,159	0	0
Cooperative State Research, Education, & Extension Service	227,657	204,156	0	7,414	597	0	4,947	10,543	0
Economic Research Service	6,497	0	0	0	0	0	0	6,497	0
Food Safety Inspection Service	125	125	0	0	0	0	0	0	0
Foreign Agricultural Service	924	924	0	0	0	0	0	0	0
Forest Service	29,700	20,980	40	2,015	660	485	4,035	1,250	235
Nat'l Agricultural Statistics Svc	1,060	0	0	0	0	1,060	0	0	0
Department of Commerce, total	45,673	4,693	198	30,691	4,406	2,173	3,512	0	0
Bureau of the Census	1,049	0	198	0	0	851	0	0	0
Nat'l Inst of Standards & Tech	40,765	4,693	0	30,691	547	1,322	3,512	0	0
Nat'l Oceanic & Atmospheric Admin	3,859	0	0	0	3,859	0	0	0	0
Department of Defense, total	1,030,259	134,592	28,789	164,366	142,551	128,484	411,436	0	20,041
Department of the Air Force	195,251	20,537	0	40,361	3,000	32,024	96,486	0	2,843
Department of the Army	178,913	29,518	3,675	28,100	13,463	29,662	57,297	0	17,198
Department of the Navy	344,564	26,563	16,710	66,736	108,666	30,457	95,432	0	0
Defense Agencies, total	311,531	57,974	8,404	29,169	17,422	36,341	162,221	0	0
Defense Adv Rsch Projects Agcy	56,391	5,187	0	0	0	10,614	40,590	0	0
Washington Headquarters Svcs	255,140	52,787	8,404	29,169	17,422	25,727	121,631	0	0
Department of Education	2,050	0	0	0	0	0	0	2,050	0
Department of Energy	2,230,019	208,224	0	1,373,146	238,766	132,773	276,200	0	910
Dept of Health & Human Svcs, total	8,428,388	7,317,802	313,603	133,474	25,768	75,848	121,974	78,127	361,792
Health Resources & Services Admin	1,102	1,102	0	0	0	0	0	0	0
National Institutes of Health	8,427,286	7,316,700	313,603	133,474	25,768	75,848	121,974	78,127	361,792
Department of the Interior, total	50,829	10,790	0	550	39,489	0	0	0	0
Geological Survey	50,279	10,790	0	0	39,489	0	0	0	0
National Park Service	550	0	0	550	0	0	0	0	0
Department of Justice, total	20,075	0	0	0	0	0	0	20,075	0
Office of Justice Programs	20,075	0	0	0	0	0	0	20,075	0
Department of Labor, total	11,100	0	0	0	0	0	0	11,100	0
Bureau of Labor Statistics	11,100	0	0	0	0	0	0	11,100	0
Department of Transportation, total	39,897	0	427	1,165	998	167	37,118	0	22
Federal Highway Administration	39,897	0	427	1,165	998	167	37,118	0	22
Department of the Treasury, total	38	0	0	38	0	0	0	0	0
Bureau of Engraving & Printing	38	0	0	38	0	0	0	0	0
Department of Veterans Affairs	139,855	134,237	3,847	0	0	0	1,771	0	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: fiscal year 1999

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psy-chology	Physical sciences	Environ-mental sciences	Mathe-matics and computer sciences	Engi-neering	Social sciences	Other sciences, n.e.c.
Other agencies:									
Environmental Protection Agency	75,663	15,767	0	0	35,423	0	24,473	0	0
Internat'l Development Cooperation Agency, total	60	0	0	0	0	0	0	0	60
Agcy for Internat'l Development[1]	60	0	0	0	0	0	0	0	60
National Aeronautics & Space Admin	2,122,562	98,667	3,987	916,037	670,331	23,416	386,109	407	23,608
National Science Foundation	2,332,659	387,037	6,470	498,369	476,227	389,706	377,723	82,827	114,300
Smithsonian Institution	122,000	40,135	0	40,004	4,421	0	0	36,229	1,211

[1] 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 (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-1996). More accurate data for AID will be reported in future volumes of this survey.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-33. Preliminary Federal obligations for basic research, by agency and field of science and engineering: fiscal year 2000

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psy-chology	Physical sciences	Environ-mental sciences	Mathe-matics and computer sciences	Engi-neering	Social sciences	Other sciences, n.e.c.
Total, all agencies	18,209,439	9,182,929	376,673	3,418,455	1,795,219	839,548	1,803,372	252,648	540,595
Departments:									
Department of Agriculture, total	718,941	642,235	40	41,034	3,303	2,119	13,288	16,687	235
Agricultural Research Service	462,169	423,635	0	31,600	2,086	574	4,274	0	0
Cooperative State Research, Education, & Extension Service	219,400	196,571	0	7,419	557	0	4,979	9,874	0
Economic Research Service	5,563	0	0	0	0	0	0	5,563	0
Food Safety Inspection Service	125	125	0	0	0	0	0	0	0
Foreign Agricultural Service	924	924	0	0	0	0	0	0	0
Forest Service	29,700	20,980	40	2,015	660	485	4,035	1,250	235
Nat'l Agricultural Statistics Svc	1,060	0	0	0	0	1,060	0	0	0
Department of Commerce, total	44,780	4,643	100	30,368	4,455	1,739	3,475	0	0
Bureau of the Census	531	0	100	0	0	431	0	0	0
Nat'l Inst of Standards & Tech	40,335	4,643	0	30,368	541	1,308	3,475	0	0
Nat'l Oceanic & Atmospheric Admin	3,914	0	0	0	3,914	0	0	0	0
Department of Defense, total	1,115,141	139,213	40,865	181,272	153,237	140,177	441,863	0	18,514
Department of the Air Force	209,528	21,696	0	49,301	3,661	27,945	104,119	0	2,806
Department of the Army	189,515	30,848	4,659	29,617	12,542	33,832	62,309	0	15,708
Department of the Navy	375,832	28,976	18,228	72,799	118,537	33,224	104,068	0	0
Defense Agencies, total	340,266	57,693	17,978	29,555	18,497	45,176	171,367	0	0
Defense Adv Rsch Projects Agcy	62,609	2,921	0	0	0	18,504	41,184	0	0
Washington Headquarters Svcs	277,657	54,772	17,978	29,555	18,497	26,672	130,183	0	0
Department of Education	2,010	0	0	0	0	0	0	2,010	0
Department of Energy	2,285,784	201,156	0	1,394,067	241,450	170,960	277,151	0	1,000
Dept of Health & Human Svcs, total	8,588,895	7,457,164	319,574	136,015	26,259	77,292	124,296	79,615	368,680
Health Resources & Services Admin	1,157	1,157	0	0	0	0	0	0	0
National Institutes of Health	8,587,738	7,456,007	319,574	136,015	26,259	77,292	124,296	79,615	368,680
Department of the Interior, total	51,906	11,378	0	550	39,978	0	0	0	0
Geological Survey	51,356	11,378	0	0	39,978	0	0	0	0
National Park Service	550	0	0	550	0	0	0	0	0
Department of Justice, total	15,200	0	0	0	0	0	0	15,200	0
Office of Justice Programs	15,200	0	0	0	0	0	0	15,200	0
Department of Labor, total	11,100	0	0	0	0	0	0	11,100	0
Bureau of Labor Statistics	11,100	0	0	0	0	0	0	11,100	0
Department of Transportation, total	67,623	0	723	1,975	1,691	283	62,571	0	380
Federal Highway Administration	67,623	0	723	1,975	1,691	283	62,571	0	380
Department of the Treasury, total	28	0	0	28	0	0	0	0	0
Bureau of Engraving & Printing	28	0	0	28	0	0	0	0	0
Department of Veterans Affairs	137,500	132,000	3,800	0	0	0	1,700	0	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: fiscal year 2000

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psy-chology	Physical sciences	Environ-mental sciences	Mathe-matics and computer sciences	Engi-neering	Social sciences	Other sciences, n.e.c.
Other agencies:									
Environmental Protection Agency	78,800	21,798	0	0	33,712	0	23,290	0	0
Internat'l Development Cooperation Agency, total	99	0	0	0	0	0	0	0	99
Agcy for Internat'l Development[1]	99	0	0	0	0	0	0	0	99
National Aeronautics & Space Admin	2,448,845	113,817	4,599	1,053,777	773,255	27,012	448,685	468	27,232
National Science Foundation	2,513,787	417,090	6,972	537,067	513,206	419,966	407,053	89,258	123,175
Smithsonian Institution	129,000	42,435	0	42,302	4,673	0	0	38,310	1,280

[1] 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 (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-1996). More accurate data for AID will be reported in future volumes of this survey.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-34. Federal obligations for basic research in psychology and life sciences, by agency and detailed field of science: fiscal year 1998

[Dollars in thousands]

Agency and subdivision	Psychology				Life sciences					
	Total	Bio-logical aspects	Social aspects	Psycho-logical sciences, n.e.c.	Total	Biological	Environ-mental biology	Agri-cultural	Medical	Life sciences, n.e.c.
Total, all agencies	312,016	27,321	12,862	271,833	7,853,424	3,652,992	196,843	372,509	3,392,433	238,647
Departments:										
Department of Agriculture, total	40	0	40	0	528,885	75,124	68,012	371,894	13,855	0
Agricultural Research Service	0	0	0	0	362,321	30,979	29,517	293,769	8,056	0
Cooperative State Research, Education, & Extension Service	0	0	0	0	144,820	38,275	25,525	76,761	4,259	0
Food Safety Inspection Service	0	0	0	0	125	125	0	0	0	0
Foreign Agricultural Service	0	0	0	0	924	0	0	924	0	0
Forest Service	40	0	40	0	20,695	5,745	12,970	440	1,540	0
Department of Commerce, total	104	0	0	104	4,447	4,447	0	0	0	0
Bureau of the Census	104	0	0	104	0	0	0	0	0	0
Nat'l Inst of Standards & Tech	0	0	0	0	4,447	4,447	0	0	0	0
Department of Defense, total	25,153	18,874	2,304	3,975	115,682	36,728	8,300	0	67,516	3,138
Department of the Air Force	0	0	0	0	19,165	9,798	0	0	9,367	0
Department of the Army	4,634	0	2,304	2,330	26,957	4,028	0	0	19,791	3,138
Department of the Navy	18,751	17,106	0	1,645	25,001	9,869	7,895	0	7,237	0
Defense Agencies, total	1,768	1,768	0	0	44,559	13,033	405	0	31,121	0
Defense Adv Rsch Projects Agcy	0	0	0	0	1,770	1,770	0	0	0	0
Washington Headquarters Svcs	1,768	1,768	0	0	42,789	11,263	405	0	31,121	0
Department of Energy	0	0	0	0	192,810	186,819	1,500	0	0	4,491
Dept of Health & Human Svcs, total	273,675	8,382	4,130	261,163	6,386,178	2,985,873	57	0	3,185,712	214,536
Health Resources & Services Admin	0	0	0	0	1,050	0	0	0	1,050	0
National Institutes of Health	273,675	8,382	4,130	261,163	6,385,128	2,985,873	57	0	3,184,662	214,536
Department of the Interior, total	0	0	0	0	9,415	4,990	4,425	0	0	0
Geological Survey	0	0	0	0	9,415	4,990	4,425	0	0	0
Department of Transportation, total	64	0	64	0	0	0	0	0	0	0
Federal Highway Administration	64	0	64	0	0	0	0	0	0	0
Department of Veterans Affairs	3,302	0	0	3,302	114,516	0	0	0	114,516	0
Other agencies:										
Environmental Protection Agency	0	0	0	0	15,869	0	12,859	0	3,010	0
National Aeronautics & Space Admin	3,801	65	447	3,289	94,073	64,190	4,962	615	7,824	16,482
National Science Foundation	5,877	0	5,877	0	351,533	276,084	75,449	0	0	0
Smithsonian Institution	0	0	0	0	39,968	18,689	21,279	0	0	0
Tennessee Valley Authority	0	0	0	0	48	48	0	0	0	0

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-35. Federal obligations for basic research in physical and environmental sciences, by agency and detailed field of science: fiscal year 1998

[Dollars in thousands]

Agency and subdivision	Physical sciences					Environmental sciences				
	Total	Astronomy	Chem-istry	Physics	Physical sciences, n.e.c.	Total	Atmos-pheric	Geo-logical	Ocean-ography	Environ-mental sciences, n.e.c.
Total, all agencies	2,941,381	706,921	517,523	1,579,807	137,130	1,528,734	655,184	391,170	285,997	196,383
Departments:										
Department of Agriculture, total	40,692	0	38,804	1,888	0	3,051	2,911	140	0	0
Agricultural Research Service	32,756	0	31,178	1,578	0	1,877	1,834	43	0	0
Cooperative State Research, Education, & Extension Service	5,946	0	5,946	0	0	522	522	0	0	0
Forest Service	1,990	0	1,680	310	0	652	555	97	0	0
Department of Commerce, total	29,089	371	9,668	18,918	132	925	0	518	0	407
Nat'l Inst of Standards & Tech	29,089	371	9,668	18,918	132	518	0	518	0	0
Nat'l Oceanic & Atmospheric Admin	0	0	0	0	0	407	0	0	0	407
Department of Defense, total	159,621	6,270	68,396	73,778	11,177	137,121	23,840	8,386	57,045	47,850
Department of the Air Force	44,276	0	22,000	22,276	0	0	0	0	0	0
Department of the Army	31,716	0	10,284	18,150	3,282	14,814	4,971	2,455	0	7,388
Department of the Navy	46,054	0	25,001	13,158	7,895	108,558	14,475	4,934	48,687	40,462
Defense Agencies, total	37,575	6,270	11,111	20,194	0	13,749	4,394	997	8,358	0
Washington Headquarters Svcs	37,575	6,270	11,111	20,194	0	13,749	4,394	997	8,358	0
Department of Energy	1,229,268	0	137,786	1,089,581	1,901	225,585	90,544	84,298	4,004	46,739
Dept of Health & Human Svcs, total	116,480	0	103,405	13,075	0	22,487	0	0	0	22,487
National Institutes of Health	116,480	0	103,405	13,075	0	22,487	0	0	0	22,487
Department of the Interior, total	546	0	0	0	546	38,772	0	38,772	0	0
Geological Survey	0	0	0	0	0	38,772	0	38,772	0	0
National Park Service	546	0	0	0	546	0	0	0	0	0
Department of Transportation, total	161	0	0	5	156	174	0	0	0	174
Federal Highway Administration	161	0	0	5	156	174	0	0	0	174
Department of the Treasury, total	34	0	30	4	0	0	0	0	0	0
Bureau of Engraving & Printing	34	0	30	4	0	0	0	0	0	0
Other agencies:										
Environmental Protection Agency	0	0	0	0	0	24,564	11,455	1,599	0	11,510
National Aeronautics & Space Admin	873,384	549,878	39,854	256,396	27,256	639,119	391,555	158,872	37,810	50,882
National Science Foundation	452,653	113,234	118,920	124,537	95,962	432,541	134,796	94,560	186,851	16,334
Smithsonian Institution	39,453	37,168	660	1,625	0	4,395	83	4,025	287	0

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-36. Federal obligations for basic research in engineering, by agency and detailed field of engineering: fiscal year 1998

[Dollars in thousands]

Agency and subdivision	Total	Aero-nautical	Astro-nautical	Chemical	Civil	Elec-trical	Mechan-ical	Metal-lurgy and materials	Engi-neering, n.e.c.
Total, all agencies	1,594,442	285,233	67,952	52,266	35,854	213,922	106,670	478,243	354,302
Departments:									
Department of Agriculture, total	11,812	0	0	2,682	972	399	485	0	7,274
Agricultural Research Service	4,117	0	0	2,112	680	393	255	0	677
Cooperative State Research, Education, & Extension Service	3,707	0	0	0	0	0	0	0	3,707
Forest Service	3,988	0	0	570	292	6	230	0	2,890
Department of Commerce, total	3,329	0	0	1,019	126	233	454	1,377	120
Nat'l Inst of Standards & Tech	3,329	0	0	1,019	126	233	454	1,377	120
Department of Defense, total	450,095	21,494	4,843	9,786	8,541	167,575	72,885	110,146	54,825
Department of the Air Force	95,422	9,951	3,968	0	0	22,573	18,826	10,539	29,565
Department of the Army	65,634	9,272	0	1,971	7,141	21,999	8,945	10,995	5,311
Department of the Navy	100,676	0	0	0	0	36,201	22,369	23,684	18,422
Defense Agencies, total	188,363	2,271	875	7,815	1,400	86,802	22,745	64,928	1,527
Defense Adv Rsch Projects Agcy	57,521	0	0	0	0	33,257	0	24,264	0
Washington Headquarters Svcs	130,842	2,271	875	7,815	1,400	53,545	22,745	40,664	1,527
Department of Energy	259,207	0	0	4,605	0	0	16,782	230,547	7,273
Dept of Health & Human Svcs, total	106,444	0	0	0	0	0	0	0	106,444
National Institutes of Health	106,444	0	0	0	0	0	0	0	106,444
Department of Transportation, total	33,123	0	0	3	2,867	0	0	18,885	11,368
Federal Highway Administration	33,123	0	0	3	2,867	0	0	18,885	11,368
Department of Veterans Affairs	2,197	0	0	0	0	0	0	0	2,197
Other agencies:									
Environmental Protection Agency	16,967	0	0	374	0	0	0	0	16,593
National Aeronautics & Space Admin	368,194	263,739	63,109	2,341	90	5,918	8,907	14,737	9,353
National Science Foundation	343,074	0	0	31,456	23,258	39,797	7,157	102,551	138,855

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-37. Federal obligations for basic research in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1998

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences, n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences, n.e.c.
Total, all agencies	705,486	250,725	419,128	35,633	224,799	13,522	41,510	4,624	23,463	141,680
Departments:										
Department of Agriculture, total	2,217	2,217	0	0	16,836	35	14,489	0	2,312	0
Agricultural Research Service	640	640	0	0	0	0	0	0	0	0
Cooperative State Research, Education, & Extension Service	0	0	0	0	8,456	0	6,269	0	2,187	0
Economic Research Service	0	0	0	0	7,155	0	7,155	0	0	0
Forest Service	480	480	0	0	1,225	35	1,065	0	125	0
Nat'l Agricultural Statistics Svc	1,097	1,097	0	0	0	0	0	0	0	0
Department of Commerce, total	1,699	0	1,253	446	0	0	0	0	0	0
Bureau of the Census	446	0	0	446	0	0	0	0	0	0
Nat'l Inst of Standards & Tech	1,253	0	1,253	0	0	0	0	0	0	0
Department of Defense, total	137,169	26,882	84,957	25,330	0	0	0	0	0	0
Department of the Air Force	24,204	0	1,415	22,789	0	0	0	0	0	0
Department of the Army	34,699	5,016	28,657	1,026	0	0	0	0	0	0
Department of the Navy	29,935	13,816	16,119	0	0	0	0	0	0	0
Defense Agencies, total	48,331	8,050	38,766	1,515	0	0	0	0	0	0
Defense Adv Rsch Projects Agcy	18,968	0	18,968	0	0	0	0	0	0	0
Washington Headquarters Svcs	29,363	8,050	19,798	1,515	0	0	0	0	0	0
Department of Education	0	0	0	0	2,063	0	0	0	0	2,063
Department of Energy	120,490	93,586	21,674	5,230	0	0	0	0	0	0
Dept of Health & Human Svcs, total	66,191	30,833	35,358	0	68,180	0	0	0	168	68,012
National Institutes of Health	66,191	30,833	35,358	0	68,180	0	0	0	168	68,012
Department of Justice, total	0	0	0	0	16,000	0	0	0	16,000	0
Office of Justice Programs	0	0	0	0	16,000	0	0	0	16,000	0
Department of Labor, total	0	0	0	0	11,100	0	11,100	0	0	0
Bureau of Labor Statistics	0	0	0	0	11,100	0	11,100	0	0	0
Department of Transportation, total	1,437	17	1,362	58	0	0	0	0	0	0
Federal Highway Administration	1,437	17	1,362	58	0	0	0	0	0	0
Other agencies:										
National Aeronautics & Space Admin	22,326	1,135	16,622	4,569	387	0	0	0	250	137
National Science Foundation	353,957	96,055	257,902	0	75,229	10,813	15,921	4,624	4,361	39,510
Smithsonian Institution	0	0	0	0	35,004	2,674	0	0	372	31,958

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-38. Federal obligations for applied research, by agency and performer: fiscal year 1998 (revised)

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural [1]	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by in-dustrial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Total, all agencies	15,309,257	5,046,947	3,515,393	517,729	3,788,857	1,100,674	1,027,684	92,640	155,204	64,129
Departments:										
Department of Agriculture, total	730,142	475,681	7,060	0	234,406	0	9,476	0	1,423	2,096
Agricultural Marketing Service	4,018	3,714	0	0	274	0	0	0	30	0
Agricultural Research Service	288,019	271,314	0	0	14,492	0	1,018	0	4	1,191
Cooperative State Research, Education, & Extension Service	222,994	11,347	5,123	0	200,516	0	5,175	0	833	0
Economic Research Service	64,392	55,922	1,900	0	4,961	0	467	0	311	831
Foreign Agricultural Service	498	250	0	0	248	0	0	0	0	0
Forest Service	143,000	129,354	37	0	11,790	0	1,500	0	245	74
Grain Inspection Packers & Stockyards Administration	549	549	0	0	0	0	0	0	0	0
Nat'l Agricultural Statistics Svc	2,236	2,015	0	0	205	0	16	0	0	0
Rural Business-Cooperative Svc	4,436	1,216	0	0	1,920	0	1,300	0	0	0
Department of Commerce, total	767,400	590,017	78,755	0	95,521	2	2,685	0	223	197
Bureau of the Census	4,616	4,616	0	0	0	0	0	0	0	0
Economic Development Admin	557	50	19	0	288	0	200	0	0	0
Nat'l Inst of Standards & Tech	266,740	175,285	74,810	0	15,835	2	611	0	0	197
Nat'l Oceanic & Atmospheric Admin	491,721	406,300	3,926	0	79,398	0	1,874	0	223	0
National Telecommunications & Information Administration	3,766	3,766	0	0	0	0	0	0	0	0
Department of Defense, total	2,939,052	1,098,395	1,247,657	11,649	418,212	72,953	61,239	13,614	0	15,333
Department of the Air Force	551,315	308,887	212,033	275	17,245	104	9,854	2,715	0	202
Department of the Army	635,886	367,496	195,253	174	50,915	449	18,295	638	0	2,666
Department of the Navy	493,183	213,902	198,240	2,032	68,196	2,196	5,273	1,968	0	1,376
Defense Agencies, total	1,258,668	208,110	642,131	9,168	281,856	70,204	27,817	8,293	0	11,089
Ballistic Missile Defense Org	126,801	24,783	83,050	100	7,081	9,536	541	0	0	1,710
Defense Adv Rsch Projects Agcy	778,009	61,854	399,476	5,121	232,367	38,824	26,858	7,123	0	6,386
Defense Info Systems Agcy	1,094	1,094	0	0	0	0	0	0	0	0
Defense Logistics Agency	8,016	7,171	0	0	0	0	0	845	0	0
Defense Threat Reduction Agency [2]	205,073	61,136	130,687	3,940	2,414	3,985	0	125	0	2,786
Special Operations Command	15,696	4,755	9,578	0	1,363	0	0	0	0	0
Washington Headquarters Svcs	123,979	47,317	19,340	7	38,631	17,859	418	200	0	207
Department of Education	146,679	6,851	5,158	0	101,285	0	32,383	0	1,002	0
Department of Energy	1,758,706	136,110	154,599	438,088	114,471	833,594	21,710	59,979	155	0

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

Table C-38. Federal obligations for applied research, by agency and performer: fiscal year 1998 (revised)

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural [1]	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by in-dustrial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Dept of Health & Human Svcs, total	4,663,111	1,174,521	332,571	49,946	2,386,224	9,167	630,495	8,528	57,314	14,345
Administration on Aging	2,435	185	0	0	0	0	250	0	2,000	0
Admin for Children & Families	23,456	948	2,080	0	9,874	0	8,621	0	1,895	38
Agcy for Hlth Care Policy & Rsch	138,798	28,467	52,297	0	37,020	0	20,770	0	0	244
Centers for Disease Control & Prevention	343,559	239,825	33,336	0	61,368	0	3,260	0	5,770	0
Food & Drug Administration	142,937	118,796	4,089	0	14,155	0	5,492	0	70	335
Health Care Financing Admin	51,236	353	38,190	0	5,329	0	6,006	0	1,089	269
Health Resources & Services Admin	11,875	1,910	0	0	7,529	0	2,436	0	0	0
National Institutes of Health	3,934,867	779,499	201,318	49,946	2,248,050	9,167	581,420	8,528	43,480	13,459
Office of the Secretary, total	13,948	4,538	1,261	0	2,899	0	2,240	0	3,010	0
Office of the Asst Secretary, Planning & Evaluation	13,948	4,538	1,261	0	2,899	0	2,240	0	3,010	0
Dept of Housing & Urban Development	9,211	6,263	913	0	478	0	1,557	0	0	0
Department of the Interior, total	454,119	390,879	11,136	0	43,197	0	611	0	7,231	1,065
Bureau of Reclamation	6,626	5,557	0	0	656	0	173	0	240	0
Geological Survey	389,011	362,117	1,930	0	18,215	0	0	0	6,749	0
Minerals Management Service	29,286	6,614	7,505	0	13,578	0	282	0	242	1,065
National Park Service	29,196	16,591	1,701	0	10,748	0	156	0	0	0
Department of Justice, total	26,005	3,116	7,375	0	9,376	0	4,112	0	2,026	0
Bureau of Prisons	4,326	2,500	0	0	0	0	0	0	1,826	0
Office of Justice Programs	21,679	616	7,375	0	9,376	0	4,112	0	200	0
Department of Labor, total	10,979	3,589	4,108	0	2,208	0	1,074	0	0	0
Bureau of Labor Statistics	1,300	1,300	0	0	0	0	0	0	0	0
Employment & Training Admin	2,197	47	0	0	2,100	0	50	0	0	0
Occupational Safety & Hlth Admin	4,592	1,697	2,895	0	0	0	0	0	0	0
Office of the Secretary	95	30	0	0	65	0	0	0	0	0
Pension Benefit Guaranty Corp	55	55	0	0	0	0	0	0	0	0
Pension & Welfare Benefits Admin	2,740	460	1,213	0	43	0	1,024	0	0	0
Department of State [3]	852	324	513	0	0	15	0	0	0	0
Department of Transportation, total	366,075	96,084	160,888	3,520	22,058	57	9,154	6,231	67,521	562
Coast Guard	5,110	3,285	1,325	500	0	0	0	0	0	0
Federal Aviation Administration	151,550	31,506	107,989	2,228	3,666	0	0	6,161	0	0
Federal Highway Administration	134,634	21,959	30,104	792	7,890	0	6,368	0	67,521	0
Federal Railroad Administration	21,191	9,360	9,945	0	350	0	1,404	0	0	132
Federal Transit Administration	7,400	400	0	0	6,000	0	1,000	0	0	0
National Highway Traffic Safety Administration	41,621	26,637	10,199	0	4,048	0	307	0	0	430
Research & Special Programs Admin	4,569	2,937	1,326	0	104	57	75	70	0	0
Department of the Treasury, total	52,519	38,712	13,807	0	0	0	0	0	0	0
Bureau of Engraving & Printing	2,642	2,642	0	0	0	0	0	0	0	0
Internal Revenue Service	47,942	35,053	12,889	0	0	0	0	0	0	0
Office of Thrift Supervision	684	684	0	0	0	0	0	0	0	0
United States Customs Service	776	50	726	0	0	0	0	0	0	0
United States Secret Service	475	283	192	0	0	0	0	0	0	0
Department of Veterans Affairs	149,051	149,051	0	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: fiscal year 1998 (revised)

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural [1]	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by in-dustrial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Other agencies:										
Appalachian Regional Commission	680	15	200	0	400	0	65	0	0	0
Environmental Protection Agency	419,800	229,834	54,870	0	87,528	0	36,916	0	9,243	1,409
Federal Communications Commission	3,025	3,025	0	0	0	0	0	0	0	0
Federal Trade Commission	1,144	1,144	0	0	0	0	0	0	0	0
Internat'l Development Cooperation Agency, total	171,108	18,822	10,266	0	11,978	0	109,509	0	0	20,533
Agcy for Internat'l Development [4]	171,108	18,822	10,266	0	11,978	0	109,509	0	0	20,533
Library of Congress	455	455	0	0	0	0	0	0	0	0
National Aeronautics & Space Admin	2,389,858	597,779	1,358,785	462	152,006	174,382	94,190	2,555	3,200	6,499
National Archives & Records Admin	120	120	0	0	0	0	0	0	0	0
National Science Foundation	170,660	814	60,156	0	99,012	0	10,611	11	56	0
Nuclear Regulatory Commission	51,700	14,301	3,486	14,064	5,180	10,504	353	1,722	0	2,090
Social Security Administration	17,422	2,336	2,415	0	5,317	0	1,544	0	5,810	0
Tennessee Valley Authority	761	761	0	0	0	0	0	0	0	0
US Arms Control & Disarmament Agcy [3]	1,200	525	675	0	0	0	0	0	0	0
United States Information Agency	258	258	0	0	0	0	0	0	0	0
US International Trade Commission	7,165	7,165	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] The Defense Threat Reduction Agency (DTRA) was established on October 1, 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.

[3] Effective April 1, 1999, all functions and authorities of the United States Arms Control & Disarmament Agency were transferred to the Department of State.

[4] 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 (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-1996). More accurate data for AID will be reported in future volumes of this survey.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-39. Preliminary Federal obligations for applied research, by agency and performer: fiscal year 1999

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural [1]	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by in-dustrial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Total, all agencies	16,454,828	5,332,631	3,614,493	559,507	4,260,086	1,155,167	1,128,380	100,663	240,543	63,358
Departments:										
Department of Agriculture, total	800,701	490,909	8,097	0	290,409	0	8,990	0	1,002	1,294
Agricultural Marketing Service	4,000	4,000	0	0	0	0	0	0	0	0
Agricultural Research Service	308,174	289,112	0	0	16,847	0	991	0	4	1,220
Cooperative State Research, Education, & Extension Service	278,532	13,115	8,060	0	251,475	0	5,129	0	753	0
Economic Research Service	58,469	49,400	0	0	9,069	0	0	0	0	0
Foreign Agricultural Service	498	250	0	0	248	0	0	0	0	0
Forest Service	144,800	131,154	37	0	11,790	0	1,500	0	245	74
Grain Inspection Packers & Stockyards Administration	549	549	0	0	0	0	0	0	0	0
Nat'l Agricultural Statistics Svc	2,161	1,911	0	0	180	0	70	0	0	0
Rural Business-Cooperative Svc	3,518	1,418	0	0	800	0	1,300	0	0	0
Department of Commerce, total	836,286	639,295	103,785	0	90,651	84	2,108	0	166	197
Bureau of the Census	8,805	8,805	0	0	0	0	0	0	0	0
Economic Development Admin	550	50	300	0	0	0	200	0	0	0
Nat'l Inst of Standards & Tech	289,600	181,737	99,417	0	7,636	2	611	0	0	197
Nat'l Oceanic & Atmospheric Admin	533,448	444,820	4,068	0	83,015	82	1,297	0	166	0
National Telecommunications & Information Administration	3,883	3,883	0	0	0	0	0	0	0	0
Department of Defense, total	3,111,671	1,120,843	1,326,975	17,648	477,909	69,753	70,204	13,802	1,982	12,555
Department of the Air Force	557,335	308,225	214,399	2,092	16,187	575	12,938	2,342	0	577
Department of the Army	699,293	375,327	213,599	4,206	82,037	247	20,961	330	1,982	604
Department of the Navy	551,006	234,573	222,925	2,056	79,776	3,370	5,275	1,557	0	1,474
Defense Agencies, total	1,304,037	202,718	676,052	9,294	299,909	65,561	31,030	9,573	0	9,900
Ballistic Missile Defense Org	115,170	21,559	87,756	0	4,304	1,451	100	0	0	0
Defense Adv Rsch Projects Agcy	880,155	69,975	451,925	5,793	262,875	43,921	30,384	8,058	0	7,224
Defense Info Systems Agcy	2,389	2,389	0	0	0	0	0	0	0	0
Defense Logistics Agency	8,151	6,761	0	0	0	0	0	1,390	0	0
Defense Threat Reduction Agency [2]	183,996	54,831	117,264	3,501	2,208	3,491	0	125	0	2,576
Special Operations Command	18,657	5,653	12,107	0	897	0	0	0	0	0
Washington Headquarters Svcs	95,519	41,550	7,000	0	29,625	16,698	546	0	0	100
Department of Education	151,867	7,729	6,053	0	103,899	0	33,104	0	1,082	0
Department of Energy	1,900,115	184,345	156,306	464,253	117,312	883,297	27,802	66,800	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: fiscal year 1999

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural [1]	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by in-dustrial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Dept of Health & Human Svcs, total	5,268,696	1,287,494	361,109	58,083	2,740,911	10,660	722,258	9,918	61,731	16,532
Administration on Aging	1,160	185	0	0	600	0	375	0	0	0
Admin for Children & Families	18,789	1,219	1,775	0	9,549	0	5,379	0	827	40
Agcy for Hlth Care Policy & Rsch	160,923	60,800	46,940	0	33,957	0	18,976	0	0	250
Centers for Disease Control & Prevention	382,559	272,825	39,336	0	61,368	0	3,260	0	5,770	0
Food & Drug Administration	141,229	117,459	4,000	0	14,000	0	5,400	0	70	300
Health Care Financing Admin	50,000	60	32,940	0	7,000	0	8,210	0	1,500	290
Health Resources & Services Admin	11,855	1,591	0	0	7,755	0	2,509	0	0	0
National Institutes of Health	4,488,181	829,355	234,118	58,083	2,603,682	10,660	676,149	9,918	50,564	15,652
Office of the Secretary, total	14,000	4,000	2,000	0	3,000	0	2,000	0	3,000	0
Office of the Asst Secretary, Planning & Evaluation	14,000	4,000	2,000	0	3,000	0	2,000	0	3,000	0
Dept of Housing & Urban Development	21,313	11,493	3,038	0	1,596	0	5,186	0	0	0
Department of the Interior, total	483,145	418,305	11,149	0	44,389	0	556	0	7,071	1,675
Bureau of Reclamation	6,050	5,017	0	0	783	0	150	0	100	0
Geological Survey	418,845	389,488	1,930	0	20,678	0	0	0	6,749	0
Minerals Management Service	29,056	7,211	7,518	0	12,180	0	250	0	222	1,675
National Park Service	29,194	16,589	1,701	0	10,748	0	156	0	0	0
Department of Justice, total	29,443	3,850	9,444	0	7,835	0	6,789	0	1,525	0
Bureau of Prisons	3,950	2,500	0	0	0	0	0	0	1,450	0
Office of Justice Programs	25,493	1,350	9,444	0	7,835	0	6,789	0	75	0
Department of Labor, total	10,267	3,682	4,565	0	1,970	0	50	0	0	0
Bureau of Labor Statistics	1,300	1,300	0	0	0	0	0	0	0	0
Employment & Training Admin	2,000	50	0	0	1,900	0	50	0	0	0
Occupational Safety & Hlth Admin	5,010	1,741	3,269	0	0	0	0	0	0	0
Office of the Secretary	100	30	0	0	70	0	0	0	0	0
Pension Benefit Guaranty Corp	57	57	0	0	0	0	0	0	0	0
Pension & Welfare Benefits Admin	1,800	504	1,296	0	0	0	0	0	0	0
Department of State [3]	964	327	622	0	0	15	0	0	0	0
Department of Transportation, total	450,645	113,592	148,390	3,600	21,100	240	8,557	6,223	148,235	708
Coast Guard	4,491	3,000	1,091	400	0	0	0	0	0	0
Federal Aviation Administration	150,000	37,125	97,912	2,250	6,490	0	0	6,223	0	0
Federal Highway Administration	210,725	24,476	24,752	950	6,530	0	5,782	0	148,235	0
Federal Railroad Administration	25,113	12,609	10,233	0	1,845	0	218	0	0	208
Federal Transit Administration	4,100	600	300	0	1,200	0	2,000	0	0	0
National Highway Traffic Safety Administration	50,350	32,224	12,084	0	5,035	0	507	0	0	500
Research & Special Programs Admin	5,866	3,558	2,018	0	0	240	50	0	0	0
Department of the Treasury, total	60,665	39,247	21,418	0	0	0	0	0	0	0
Bureau of Engraving & Printing	2,198	2,198	0	0	0	0	0	0	0	0
Internal Revenue Service	55,496	35,845	19,651	0	0	0	0	0	0	0
Office of Thrift Supervision	766	766	0	0	0	0	0	0	0	0
United States Customs Service	1,679	75	1,604	0	0	0	0	0	0	0
United States Secret Service	526	363	163	0	0	0	0	0	0	0
Department of Veterans Affairs	171,294	171,294	0	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: fiscal year 1999

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural [1]	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by in-dustrial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Other agencies:										
Appalachian Regional Commission	738	1	225	0	400	0	112	0	0	0
Environmental Protection Agency	387,200	211,122	50,609	0	80,731	0	34,049	0	8,525	2,164
Federal Communications Commission	4,178	4,178	0	0	0	0	0	0	0	0
Federal Trade Commission	1,097	1,097	0	0	0	0	0	0	0	0
Internat'l Development Cooperation Agency, total	163,160	17,946	9,790	0	11,421	0	104,424	0	0	19,579
Agcy for Internat'l Development[4]	163,160	17,946	9,790	0	11,421	0	104,424	0	0	19,579
Library of Congress	595	595	0	0	0	0	0	0	0	0
National Aeronautics & Space Admin	2,310,555	577,964	1,293,611	476	152,006	183,374	91,068	2,468	3,196	6,392
National Archives & Records Admin	120	120	0	0	0	0	0	0	0	0
National Science Foundation	180,233	858	63,531	0	104,567	0	11,206	11	60	0
Nuclear Regulatory Commission	49,201	14,467	3,213	15,447	4,272	7,744	355	1,441	0	2,262
Social Security Administration	53,656	4,855	32,563	0	8,708	0	1,562	0	5,968	0
US Arms Control & Disarmament Agcy[3]	50	50	0	0	0	0	0	0	0	0
United States Information Agency	100	100	0	0	0	0	0	0	0	0
US International Trade Commission	6,873	6,873	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 The Defense Threat Reduction Agency (DTRA) was established on October 1, 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.

3 Effective April 1, 1999, all functions and authorities of the United States Arms Control & Disarmament Agency were transferred to the Department of State.

4 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 (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-1996). More accurate data for AID will be reported in future volumes of this survey.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-40. Preliminary Federal obligations for applied research, by agency and performer: fiscal year 2000

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural [1]	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by in-dustrial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Total, all agencies	16,470,143	5,439,527	3,270,012	608,818	4,194,937	1,403,388	1,137,893	93,779	257,782	64,007
Departments:										
Department of Agriculture, total	755,277	499,961	6,488	0	241,545	0	5,131	0	758	1,394
Agricultural Marketing Service	4,268	4,268	0	0	0	0	0	0	0	0
Agricultural Research Service	316,671	301,002	0	0	13,984	0	361	0	4	1,320
Cooperative State Research, Education, & Extension Service	231,632	14,169	6,451	0	209,303	0	1,200	0	509	0
Economic Research Service	50,065	45,025	0	0	5,040	0	0	0	0	0
Foreign Agricultural Service	498	250	0	0	248	0	0	0	0	0
Forest Service	144,800	131,154	37	0	11,790	0	1,500	0	245	74
Grain Inspection Packers & Stockyards Administration	682	682	0	0	0	0	0	0	0	0
Nat'l Agricultural Statistics Svc	2,161	1,911	0	0	180	0	70	0	0	0
Rural Business-Cooperative Svc	4,500	1,500	0	0	1,000	0	2,000	0	0	0
Department of Commerce, total	814,958	626,475	109,464	0	77,048	2	1,586	0	186	197
Bureau of the Census	4,460	4,460	0	0	0	0	0	0	0	0
Economic Development Admin	550	50	300	0	0	0	200	0	0	0
Nat'l Inst of Standards & Tech	299,272	185,052	105,217	0	7,916	2	888	0	0	197
Nat'l Oceanic & Atmospheric Admin	504,482	430,719	3,947	0	69,132	0	498	0	186	0
National Telecommunications & Information Administration	6,194	6,194	0	0	0	0	0	0	0	0
Department of Defense, total	3,001,119	1,084,107	1,301,575	17,380	434,703	86,846	51,233	11,479	0	13,796
Department of the Air Force	513,837	284,470	212,682	300	13,359	590	1,171	861	0	404
Department of the Army	582,300	359,848	176,516	4,604	28,527	210	11,182	248	0	1,165
Department of the Navy	526,418	229,089	209,731	2,278	74,206	2,412	5,567	1,504	0	1,631
Defense Agencies, total	1,378,564	210,700	702,646	10,198	318,611	83,634	33,313	8,866	0	10,596
Ballistic Missile Defense Org	74,831	11,013	58,817	0	3,810	1,191	0	0	0	0
Defense Adv Rsch Projects Agcy	954,772	75,907	490,239	6,284	285,161	47,644	32,960	8,741	0	7,836
Defense Info Systems Agcy	1,966	1,966	0	0	0	0	0	0	0	0
Defense Logistics Agency	8,261	8,261	0	0	0	0	0	0	0	0
Defense Threat Reduction Agency [2]	204,689	61,083	130,587	3,914	2,456	3,864	0	125	0	2,660
Special Operations Command	17,269	5,232	11,203	0	834	0	0	0	0	0
Washington Headquarters Svcs	116,776	47,238	11,800	0	26,350	30,935	353	0	0	100
Department of Education	170,886	12,920	5,987	0	113,405	0	37,480	0	1,094	0
Department of Energy	2,087,458	244,992	114,968	513,559	99,490	1,033,763	19,199	61,487	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: fiscal year 2000

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural [1]	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by in-dustrial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Dept of Health & Human Svcs, total	5,511,350	1,431,076	378,267	59,458	2,801,984	10,913	739,335	10,152	63,551	16,614
Administration on Aging	1,085	185	0	0	500	0	400	0	0	0
Admin for Children & Families	28,049	1,074	2,728	0	14,671	0	8,264	0	1,270	42
Agcy for Hlth Care Policy & Rsch	197,255	85,849	52,243	0	37,793	0	21,120	0	0	250
Centers for Disease Control & Prevention	468,559	357,052	41,109	0	61,368	0	3,260	0	5,770	0
Food & Drug Administration	151,745	126,245	4,300	0	15,000	0	5,800	0	100	300
Health Care Financing Admin	55,000	70	36,230	0	7,700	0	9,350	0	1,650	0
Health Resources & Services Admin	11,924	1,660	0	0	7,755	0	2,509	0	0	0
National Institutes of Health	4,583,733	854,941	239,657	59,458	2,654,197	10,913	686,632	10,152	51,761	16,022
Office of the Secretary, total	14,000	4,000	2,000	0	3,000	0	2,000	0	3,000	0
Office of the Asst Secretary, Planning & Evaluation	14,000	4,000	2,000	0	3,000	0	2,000	0	3,000	0
Dept of Housing & Urban Development	18,054	12,277	1,787	0	939	0	3,051	0	0	0
Department of the Interior, total	500,152	435,265	11,587	0	44,450	0	556	0	7,069	1,225
Bureau of Reclamation	7,436	6,365	0	0	821	0	150	0	100	0
Geological Survey	432,871	403,428	2,016	0	20,678	0	0	0	6,749	0
Minerals Management Service	28,565	7,329	7,618	0	11,923	0	250	0	220	1,225
National Park Service	31,280	18,143	1,953	0	11,028	0	156	0	0	0
Department of Justice, total	9,841	2,501	2,080	0	1,925	0	1,835	0	1,500	0
Bureau of Prisons	4,000	2,500	0	0	0	0	0	0	1,500	0
Office of Justice Programs	5,841	1	2,080	0	1,925	0	1,835	0	0	0
Department of Labor, total	11,041	4,028	5,663	0	1,270	0	80	0	0	0
Bureau of Labor Statistics	1,300	1,300	0	0	0	0	0	0	0	0
Employment & Training Admin	1,331	51	0	0	1,200	0	80	0	0	0
Occupational Safety & Hlth Admin	5,255	1,817	3,438	0	0	0	0	0	0	0
Office of the Secretary	100	30	0	0	70	0	0	0	0	0
Pension Benefit Guaranty Corp	55	55	0	0	0	0	0	0	0	0
Pension & Welfare Benefits Admin	3,000	775	2,225	0	0	0	0	0	0	0
Department of State [3]	964	327	622	0	0	15	0	0	0	0
Department of Transportation, total	607,936	141,426	199,224	3,680	22,269	74	65,559	7,156	167,811	737
Coast Guard	5,667	3,237	2,130	300	0	0	0	0	0	0
Federal Aviation Administration	173,000	46,219	109,573	2,588	7,464	0	0	7,156	0	0
Federal Highway Administration	338,401	38,220	63,022	792	6,072	0	62,484	0	167,811	0
Federal Railroad Administration	23,601	12,815	8,537	0	1,662	0	400	0	0	187
Federal Transit Administration	4,100	500	400	0	1,200	0	2,000	0	0	0
National Highway Traffic Safety Administration	58,713	37,576	14,091	0	5,871	0	625	0	0	550
Research & Special Programs Admin	4,454	2,859	1,471	0	0	74	50	0	0	0
Department of the Treasury, total	74,817	39,829	34,988	0	0	0	0	0	0	0
Bureau of Engraving & Printing	2,286	2,286	0	0	0	0	0	0	0	0
Internal Revenue Service	70,217	36,199	34,018	0	0	0	0	0	0	0
Office of Thrift Supervision	855	855	0	0	0	0	0	0	0	0
United States Customs Service	900	100	800	0	0	0	0	0	0	0
United States Secret Service	559	389	170	0	0	0	0	0	0	0
Department of Veterans Affairs	169,500	169,500	0	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: fiscal year 2000

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural [1]	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by in-dustrial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Other agencies:										
Appalachian Regional Commission	750	1	200	0	399	0	150	0	0	0
Consumer Product Safety Commission	1,168	168	1,000	0	0	0	0	0	0	0
Environmental Protection Agency	368,100	200,830	48,113	0	76,749	0	32,370	0	8,105	1,933
Federal Communications Commission	2,747	2,747	0	0	0	0	0	0	0	0
Federal Trade Commission	1,379	1,379	0	0	0	0	0	0	0	0
Internat'l Development Cooperation Agency, total	143,474	17,073	8,521	0	9,942	0	90,895	0	0	17,043
Agcy for Internat'l Development[4]	143,474	17,073	8,521	0	9,942	0	90,895	0	0	17,043
Library of Congress	614	614	0	0	0	0	0	0	0	0
National Aeronautics & Space Admin	1,943,166	486,123	950,106	478	152,006	263,614	76,521	1,880	3,450	8,988
National Archives & Records Admin	120	120	0	0	0	0	0	0	0	0
National Science Foundation	184,539	879	65,049	0	107,065	0	11,474	11	61	0
Nuclear Regulatory Commission	46,594	14,251	2,260	14,263	3,625	8,161	340	1,614	0	2,080
Social Security Administration	36,895	3,414	22,063	0	6,123	0	1,098	0	4,197	0
United States Information Agency	100	100	0	0	0	0	0	0	0	0
US International Trade Commission	7,144	7,144	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 The Defense Threat Reduction Agency (DTRA) was established on October 1, 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.

3 Effective April 1, 1999, all functions and authorities of the United States Arms Control & Disarmament Agency were transferred to the Department of State.

4 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 (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-1996). More accurate data for AID will be reported in future volumes of this survey.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-41. Federal obligations for applied research, by detailed field of science and engineering: fiscal years 1998, 1999, and 2000

[Dollars in thousands]

Field of science and engineering	1998	Preliminary	
		1999	2000
Total, all fields	15,309,257	16,454,828	16,470,143
Life sciences, total	5,704,150	6,394,974	6,378,808
Biological (excluding environmental)	2,053,580	NA	NA
Environmental biology	407,640	NA	NA
Agricultural	390,276	NA	NA
Medical	2,603,892	NA	NA
Life sciences, n.e.c.	248,762	NA	NA
Psychology, total	278,952	304,320	309,438
Biological aspects	14,271	NA	NA
Social aspects	84,628	NA	NA
Psychological sciences, n.e.c.	180,053	NA	NA
Physical sciences, total	1,268,298	1,258,473	1,300,886
Astronomy	25,229	NA	NA
Chemistry	301,507	NA	NA
Physics	551,951	NA	NA
Physical sciences, n.e.c.	389,611	NA	NA
Environmental sciences, total	1,533,245	1,529,462	1,413,740
Atmospheric	519,242	NA	NA
Geological	212,146	NA	NA
Oceanography	273,797	NA	NA
Environmental sciences, n.e.c.	528,060	NA	NA
Mathematics & computer sciences, total	1,131,356	1,253,345	1,291,535
Mathematics	83,338	NA	NA
Computer sciences	979,612	NA	NA
Mathematics & computer sciences, n.e.c.	68,406	NA	NA
Engineering, total	4,300,981	4,438,115	4,415,224
Aeronautical	1,311,194	NA	NA
Astronautical	563,159	NA	NA
Chemical	137,881	NA	NA
Civil	208,272	NA	NA
Electrical	425,427	NA	NA
Mechanical	142,881	NA	NA
Metallurgy & materials	310,855	NA	NA
Engineering, n.e.c.	1,201,312	NA	NA
Social sciences, total	581,330	645,398	637,284
Anthropology	4,664	NA	NA
Economics	188,940	NA	NA
Political science	15,600	NA	NA
Sociology	77,368	NA	NA
Social sciences, n.e.c.	294,758	NA	NA
Other sciences, n.e.c.	510,945	630,741	723,228

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: NA = Not applicable (indicates that the data collected for this table were not recorded at that level in that particular fiscal year)
n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-42. Federal obligations for applied research, by agency and field of science and engineering: fiscal year 1998

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psy-chology	Physical sciences	Environ-mental sciences	Mathe-matics and com-puter sciences	Engi-neering	Social sciences	Other sciences, n.e.c.
Total, all agencies	15,309,257	5,704,150	278,952	1,268,298	1,533,245	1,131,356	4,300,981	581,330	510,945
Departments:									
Department of Agriculture, total	730,142	508,674	370	46,646	7,304	12,851	45,523	105,549	3,225
Agricultural Marketing Service	4,018	4,018	0	0	0	0	0	0	0
Agricultural Research Service	288,019	247,055	0	32,048	1,674	340	6,902	0	0
Cooperative State Research, Education, & Extension Service	222,994	172,464	0	9,283	505	0	13,361	27,381	0
Economic Research Service	64,392	0	0	0	0	0	0	64,392	0
Foreign Agricultural Service	498	498	0	0	0	0	0	0	0
Forest Service	143,000	82,790	370	5,315	5,125	10,275	25,260	10,640	3,225
Grain Inspection Packers & Stockyards Administration	549	549	0	0	0	0	0	0	0
Nat'l Agricultural Statistics Svc	2,236	0	0	0	0	2,236	0	0	0
Rural Business-Cooperative Svc	4,436	1,300	0	0	0	0	0	3,136	0
Department of Commerce, total	767,400	146,121	402	75,399	249,895	76,404	155,147	21,448	42,584
Bureau of the Census	4,616	0	402	0	0	2,907	0	1,307	0
Economic Development Admin	557	0	0	0	0	0	0	557	0
Nat'l Inst of Standards & Tech	266,740	19,433	0	52,183	249	53,691	141,184	0	0
Nat'l Oceanic & Atmospheric Admin	491,721	126,688	0	23,216	249,646	19,806	10,197	19,584	42,584
National Telecommunications & Information Administration	3,766	0	0	0	0	0	3,766	0	0
Department of Defense, total	2,939,052	322,860	48,916	280,665	224,179	521,511	1,355,443	176	185,302
Department of the Air Force	551,315	23,404	21,725	88,803	5,474	32,015	366,320	0	13,574
Department of the Army	635,886	131,037	9,174	32,175	60,508	45,433	268,033	176	89,350
Department of the Navy	493,183	27,084	8,923	2,136	141,338	10,617	303,085	0	0
Defense Agencies, total	1,258,668	141,335	9,094	157,551	16,859	433,446	418,005	0	82,378
Ballistic Missile Defense Org	126,801	0	0	37,975	2,701	30,344	55,781	0	0
Defense Adv Rsch Projects Agcy	778,009	59,621	0	44,552	6,313	389,007	263,771	0	14,745
Defense Info Systems Agcy	1,094	0	0	0	0	0	0	0	1,094
Defense Logistics Agency	8,016	0	8,016	0	0	0	0	0	0
Defense Threat Reduction Agency[1]	205,073	4,307	0	59,266	6,767	9,638	58,856	0	66,239
Special Operations Command	15,696	602	0	0	0	0	14,794	0	300
Washington Headquarters Svcs	123,979	76,805	1,078	15,758	1,078	4,457	24,803	0	0
Department of Education	146,679	11,169	7,319	0	0	1,156	7,704	119,331	0
Department of Energy	1,758,706	62,995	0	639,325	124,425	374,127	538,684	0	19,150
Dept of Health & Human Svcs, total	4,663,111	4,007,996	148,619	62,323	12,031	47,787	56,953	118,846	208,556
Administration on Aging	2,435	0	0	0	0	0	0	2,435	0
Admin for Children & Families	23,456	0	0	0	0	0	0	23,456	0
Agcy for Hlth Care Policy & Rsch	138,798	42,076	2,193	0	0	12,372	0	42,528	39,629
Centers for Disease Control & Prevention	343,559	343,559	0	0	0	0	0	0	0
Food & Drug Administration	142,937	142,937	0	0	0	0	0	0	0
Health Care Financing Admin	51,236	51,236	0	0	0	0	0	0	0
Health Resources & Services Admin	11,875	11,875	0	0	0	0	0	0	0
National Institutes of Health	3,934,867	3,416,313	146,426	62,323	12,031	35,415	56,953	36,479	168,927
Office of the Secretary, total	13,948	0	0	0	0	0	0	13,948	0
Office of the Asst Secretary, Planning & Evaluation	13,948	0	0	0	0	0	0	13,948	0
Dept of Housing & Urban Development	9,211	0	0	0	0	123	571	8,313	204

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: fiscal year 1998

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psy-chology	Physical sciences	Environ-mental sciences	Mathe-matics and com-puter sciences	Engi-neering	Social sciences	Other sciences, n.e.c.
Department of the Interior, total	454,119	106,997	0	1,007	309,703	6,874	8,653	20,885	0
Bureau of Reclamation	6,626	0	0	0	2,650	0	3,876	100	0
Geological Survey	389,011	101,394	0	0	281,241	4,126	1,125	1,125	0
Minerals Management Service	29,286	0	0	90	20,371	1,155	3,652	4,018	0
National Park Service	29,196	5,603	0	917	5,441	1,593	0	15,642	0
Department of Justice, total	26,005	0	500	0	0	500	7,000	18,005	0
Bureau of Prisons	4,326	0	500	0	0	500	0	3,326	0
Office of Justice Programs	21,679	0	0	0	0	0	7,000	14,679	0
Department of Labor, total	10,979	0	0	0	0	95	0	10,884	0
Bureau of Labor Statistics	1,300	0	0	0	0	0	0	1,300	0
Employment & Training Admin	2,197	0	0	0	0	0	0	2,197	0
Occupational Safety & Hlth Admin	4,592	0	0	0	0	0	0	4,592	0
Office of the Secretary	95	0	0	0	0	95	0	0	0
Pension Benefit Guaranty Corp	55	0	0	0	0	0	0	55	0
Pension & Welfare Benefits Admin	2,740	0	0	0	0	0	0	2,740	0
Department of State[2]	852	0	0	0	0	0	0	852	0
Department of Transportation, total	366,075	8,738	25,700	37,428	23,787	22,805	211,588	8,602	27,427
Coast Guard	5,110	0	647	0	551	1,133	2,779	0	0
Federal Aviation Administration	151,550	4,499	24,430	35,551	20,183	0	49,595	0	17,292
Federal Highway Administration	134,634	493	623	1,877	2,978	15,249	100,539	2,775	10,100
Federal Railroad Administration	21,191	0	0	0	0	1,925	19,266	0	0
Federal Transit Administration	7,400	0	0	0	0	0	7,400	0	0
National Highway Traffic Safety Administration	41,621	3,746	0	0	0	4,162	27,886	5,827	0
Research & Special Programs Admin	4,569	0	0	0	75	336	4,123	0	35
Department of the Treasury, total	52,519	0	475	2,642	776	0	0	48,626	0
Bureau of Engraving & Printing	2,642	0	0	2,642	0	0	0	0	0
Internal Revenue Service	47,942	0	0	0	0	0	0	47,942	0
Office of Thrift Supervision	684	0	0	0	0	0	0	684	0
United States Customs Service	776	0	0	0	776	0	0	0	0
United States Secret Service	475	0	475	0	0	0	0	0	0
Department of Veterans Affairs	149,051	99,562	29,714	0	0	0	19,775	0	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: fiscal year 1998

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psy-chology	Physical sciences	Environ-mental sciences	Mathe-matics and com-puter sciences	Engi-neering	Social sciences	Other sciences, n.e.c.
Other agencies:									
Appalachian Regional Commission	680	0	0	0	0	0	0	680	0
Environmental Protection Agency	419,800	116,052	0	0	179,651	0	124,097	0	0
Federal Communications Commission	3,025	0	0	0	0	180	1,400	1,445	0
Federal Trade Commission	1,144	0	0	0	0	0	0	1,144	0
Internat'l Development Cooperation Agency, total	171,108	105,830	0	0	3,246	0	0	62,032	0
Agcy for Internat'l Development[3]	171,108	105,830	0	0	3,246	0	0	62,032	0
Library of Congress	455	0	0	455	0	0	0	0	0
National Aeronautics & Space Admin	2,389,858	191,784	16,919	106,082	393,295	57,816	1,615,868	0	8,094
National Archives & Records Admin	120	0	0	120	0	0	0	0	0
National Science Foundation	170,660	15,312	18	15,267	4,327	9,127	100,557	9,799	16,253
Nuclear Regulatory Commission	51,700	0	0	0	0	0	51,700	0	0
Social Security Administration	17,422	0	0	0	0	0	0	17,422	0
Tennessee Valley Authority	761	0	0	561	200	0	0	0	0
US Arms Control & Disarmament Agcy[2]	1,200	60	0	378	426	0	60	126	150
United States Information Agency	258	0	0	0	0	0	258	0	0
US International Trade Commission	7,165	0	0	0	0	0	0	7,165	0

1 The Defense Threat Reduction Agency (DTRA) was established on October 1, 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.

2 Effective April 1, 1999, all functions and authorities of the United States Arms Control & Disarmament Agency were transferred to the Department of State.

3 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 (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-1996). More accurate data for AID will be reported in future volumes of this survey.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-43. Preliminary Federal obligations for applied research, by agency and field of science and engineering: fiscal year 1999

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psy-chology	Physical sciences	Environ-mental sciences	Mathe-matics and com-puter sciences	Engi-neering	Social sciences	Other sciences, n.e.c.
Total, all agencies	16,454,828	6,394,974	304,320	1,258,473	1,529,462	1,253,345	4,438,115	645,398	630,741
Departments:									
Department of Agriculture, total	800,701	576,674	375	46,316	7,627	12,888	49,787	103,769	3,265
Agricultural Marketing Service	4,000	4,000	0	0	0	0	0	0	0
Agricultural Research Service	308,174	268,574	0	30,098	1,906	327	7,269	0	0
Cooperative State Research, Education, & Extension Service	278,532	217,923	0	10,833	531	0	16,938	32,307	0
Economic Research Service	58,469	0	0	0	0	0	0	58,469	0
Foreign Agricultural Service	498	498	0	0	0	0	0	0	0
Forest Service	144,800	83,830	375	5,385	5,190	10,400	25,580	10,775	3,265
Grain Inspection Packers & Stockyards Administration	549	549	0	0	0	0	0	0	0
Nat'l Agricultural Statistics Svc	2,161	0	0	0	0	2,161	0	0	0
Rural Business-Cooperative Svc	3,518	1,300	0	0	0	0	0	2,218	0
Department of Commerce, total	836,286	161,352	766	82,018	262,432	86,379	169,379	25,137	48,823
Bureau of the Census	8,805	0	766	0	0	5,547	0	2,492	0
Economic Development Admin	550	0	0	0	0	0	0	550	0
Nat'l Inst of Standards & Tech	289,600	21,098	0	56,655	270	58,292	153,285	0	0
Nat'l Oceanic & Atmospheric Admin	533,448	140,254	0	25,363	262,162	22,540	12,211	22,095	48,823
National Telecommunications & Information Administration	3,883	0	0	0	0	0	3,883	0	0
Department of Defense, total	3,111,671	384,228	46,159	247,902	240,643	528,889	1,425,213	14,494	224,143
Department of the Air Force	557,335	21,165	19,696	82,321	7,120	27,709	340,564	14,362	44,398
Department of the Army	699,293	169,072	8,102	30,918	73,331	44,400	263,038	132	110,300
Department of the Navy	551,006	30,958	10,210	2,444	153,828	12,737	340,829	0	0
Defense Agencies, total	1,304,037	163,033	8,151	132,219	6,364	444,043	480,782	0	69,445
Ballistic Missile Defense Org	115,170	0	0	39,485	292	21,423	52,820	0	1,150
Defense Adv Rsch Projects Agcy	880,155	90,882	0	28,744	0	412,822	341,571	0	6,136
Defense Info Systems Agcy	2,389	0	0	0	0	0	0	0	2,389
Defense Logistics Agency	8,151	0	8,151	0	0	0	0	0	0
Defense Threat Reduction Agency[1]	183,996	3,864	0	53,175	6,072	8,648	52,807	0	59,430
Special Operations Command	18,657	815	0	0	0	0	17,502	0	340
Washington Headquarters Svcs	95,519	67,472	0	10,815	0	1,150	16,082	0	0
Department of Education	151,867	11,758	7,705	0	0	1,217	8,110	123,077	0
Department of Energy	1,900,115	79,616	0	639,038	96,076	490,103	574,450	0	20,832
Dept of Health & Human Svcs, total	5,268,696	4,520,303	169,013	71,087	13,723	51,381	64,962	114,508	263,719
Administration on Aging	1,160	0	0	0	0	0	0	1,160	0
Admin for Children & Families	18,789	0	0	0	0	0	0	18,789	0
Agcy for Hlth Care Policy & Rsch	160,923	37,952	1,997	0	0	10,986	0	38,950	71,038
Centers for Disease Control & Prevention	382,559	382,559	0	0	0	0	0	0	0
Food & Drug Administration	141,229	141,229	0	0	0	0	0	0	0
Health Care Financing Admin	50,000	50,000	0	0	0	0	0	0	0
Health Resources & Services Admin	11,855	11,855	0	0	0	0	0	0	0
National Institutes of Health	4,488,181	3,896,708	167,016	71,087	13,723	40,395	64,962	41,609	192,681
Office of the Secretary, total	14,000	0	0	0	0	0	0	14,000	0
Office of the Asst Secretary, Planning & Evaluation	14,000	0	0	0	0	0	0	14,000	0
Dept of Housing & Urban Development	21,313	0	0	0	0	278	1,321	19,239	475

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: fiscal year 1999

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psy-chology	Physical sciences	Environ-mental sciences	Mathe-matics and com-puter sciences	Engi-neering	Social sciences	Other sciences, n.e.c.
Department of the Interior, total	483,145	121,626	0	1,643	324,032	6,796	9,395	19,653	0
Bureau of Reclamation	6,050	0	0	0	2,420	0	3,530	100	0
Geological Survey	418,845	116,023	0	0	296,446	4,126	1,125	1,125	0
Minerals Management Service	29,056	0	0	634	19,801	1,093	4,740	2,788	0
National Park Service	29,194	5,603	0	1,009	5,365	1,577	0	15,640	0
Department of Justice, total	29,443	0	500	0	0	500	0	14,043	14,400
Bureau of Prisons	3,950	0	500	0	0	500	0	2,950	0
Office of Justice Programs	25,493	0	0	0	0	0	0	11,093	14,400
Department of Labor, total	10,267	0	0	0	0	100	0	10,167	0
Bureau of Labor Statistics	1,300	0	0	0	0	0	0	1,300	0
Employment & Training Admin	2,000	0	0	0	0	0	0	2,000	0
Occupational Safety & Hlth Admin	5,010	0	0	0	0	0	0	5,010	0
Office of the Secretary	100	0	0	0	0	100	0	0	0
Pension Benefit Guaranty Corp	57	0	0	0	0	0	0	57	0
Pension & Welfare Benefits Admin	1,800	0	0	0	0	0	0	1,800	0
Department of State[2]	964	0	0	0	0	0	0	964	0
Department of Transportation, total	450,645	9,772	28,276	48,777	30,542	9,141	285,867	8,177	30,093
Coast Guard	4,491	0	713	0	680	1,039	2,059	0	0
Federal Aviation Administration	150,000	4,065	26,282	44,408	21,303	0	37,158	0	16,784
Federal Highway Administration	210,725	1,177	1,281	4,369	8,459	594	178,635	3,170	13,040
Federal Railroad Administration	25,113	0	0	0	0	1,630	23,483	0	0
Federal Transit Administration	4,100	0	0	0	0	0	4,100	0	0
National Highway Traffic Safety Administration	50,350	4,530	0	0	0	5,539	35,274	5,007	0
Research & Special Programs Admin	5,866	0	0	0	100	339	5,158	0	269
Department of the Treasury, total	60,665	0	526	2,238	1,639	0	0	56,262	0
Bureau of Engraving & Printing	2,198	0	0	2,198	0	0	0	0	0
Internal Revenue Service	55,496	0	0	0	0	0	0	55,496	0
Office of Thrift Supervision	766	0	0	0	0	0	0	766	0
United States Customs Service	1,679	0	0	40	1,639	0	0	0	0
United States Secret Service	526	0	526	0	0	0	0	0	0
Department of Veterans Affairs	171,294	120,729	34,624	0	0	0	15,941	0	0

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: fiscal year 1999

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psy-chology	Physical sciences	Environ-mental sciences	Mathe-matics and com-puter sciences	Engi-neering	Social sciences	Other sciences, n.e.c.
Other agencies:									
Appalachian Regional Commission	738	0	0	0	0	0	0	738	0
Environmental Protection Agency	387,200	107,041	0	0	165,704	0	114,455	0	0
Federal Communications Commission	4,178	0	0	0	0	134	1,516	2,528	0
Federal Trade Commission	1,097	0	0	0	0	0	0	1,097	0
Internat'l Development Cooperation Agency, total	163,160	100,277	0	0	2,216	0	0	60,667	0
Agcy for Internat'l Development[3]	163,160	100,277	0	0	2,216	0	0	60,667	0
Library of Congress	595	0	0	595	0	0	0	0	0
National Aeronautics & Space Admin	2,310,555	185,427	16,358	102,566	380,258	55,900	1,562,221	0	7,825
National Archives & Records Admin	120	0	0	120	0	0	0	0	0
National Science Foundation	180,233	16,171	18	16,123	4,570	9,639	106,197	10,349	17,166
Nuclear Regulatory Commission	49,201	0	0	0	0	0	49,201	0	0
Social Security Administration	53,656	0	0	0	0	0	0	53,656	0
US Arms Control & Disarmament Agcy[2]	50	0	0	50	0	0	0	0	0
United States Information Agency	100	0	0	0	0	0	100	0	0
US International Trade Commission	6,873	0	0	0	0	0	0	6,873	0

1 The Defense Threat Reduction Agency (DTRA) was established on October 1, 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.

2 Effective April 1, 1999, all functions and authorities of the United States Arms Control & Disarmament Agency were transferred to the Department of State.

3 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 (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-1996). More accurate data for AID will be reported in future volumes of this survey.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-44. Preliminary Federal obligations for applied research, by agency and field of science and engineering: fiscal year 2000

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psy-chology	Physical sciences	Environ-mental sciences	Mathe-matics and com-puter sciences	Engi-neering	Social sciences	Other sciences, n.e.c.
Total, all agencies	16,470,143	6,378,808	309,438	1,300,886	1,413,740	1,291,535	4,415,224	637,284	723,228
Departments:									
Department of Agriculture, total	755,277	545,079	375	46,100	7,583	12,897	48,827	91,151	3,265
Agricultural Marketing Service	4,268	4,268	0	0	0	0	0	0	0
Agricultural Research Service	316,671	275,979	0	30,928	1,959	336	7,469	0	0
Cooperative State Research, Education, & Extension Service	231,632	177,822	0	9,787	434	0	15,778	27,811	0
Economic Research Service	50,065	0	0	0	0	0	0	50,065	0
Foreign Agricultural Service	498	498	0	0	0	0	0	0	0
Forest Service	144,800	83,830	375	5,385	5,190	10,400	25,580	10,775	3,265
Grain Inspection Packers & Stockyards Administration	682	682	0	0	0	0	0	0	0
Nat'l Agricultural Statistics Svc	2,161	0	0	0	0	2,161	0	0	0
Rural Business-Cooperative Svc	4,500	2,000	0	0	0	0	0	2,500	0
Department of Commerce, total	814,958	145,432	388	83,045	262,718	83,103	176,239	21,253	42,780
Bureau of the Census	4,460	0	388	0	0	2,810	0	1,262	0
Economic Development Admin	550	0	0	0	0	0	0	550	0
Nat'l Inst of Standards & Tech	299,272	21,803	0	58,547	279	60,239	158,404	0	0
Nat'l Oceanic & Atmospheric Admin	504,482	123,629	0	24,498	262,439	20,054	11,641	19,441	42,780
National Telecommunications & Information Administration	6,194	0	0	0	0	0	6,194	0	0
Department of Defense, total	3,001,119	295,045	49,210	228,372	197,392	485,454	1,443,876	1,693	300,077
Department of the Air Force	513,837	20,833	19,519	69,982	6,998	34,161	348,347	1,500	12,497
Department of the Army	582,300	63,122	10,377	30,472	34,224	49,382	294,124	193	100,406
Department of the Navy	526,418	29,819	9,835	2,354	148,169	12,268	323,973	0	0
Defense Agencies, total	1,378,564	181,271	9,479	125,564	8,001	389,643	477,432	0	187,174
Ballistic Missile Defense Org	74,831	0	0	21,248	28	6,241	47,287	0	27
Defense Adv Rsch Projects Agcy	954,772	103,751	0	31,260	0	368,695	332,315	0	118,751
Defense Info Systems Agcy	1,966	0	0	0	0	0	0	0	1,966
Defense Logistics Agency	8,261	0	8,261	0	0	0	0	0	0
Defense Threat Reduction Agency[1]	204,689	4,298	0	59,155	6,755	9,620	58,746	0	66,115
Special Operations Command	17,269	640	0	0	0	0	16,314	0	315
Washington Headquarters Svcs	116,776	72,582	1,218	13,901	1,218	5,087	22,770	0	0
Department of Education	170,886	11,857	8,209	0	0	4,104	9,121	137,595	0
Department of Energy	2,087,458	50,407	0	713,325	85,736	577,519	641,698	0	18,773
Dept of Health & Human Svcs, total	5,511,350	4,709,136	172,795	72,600	14,015	53,482	66,345	128,979	293,998
Administration on Aging	1,085	0	0	0	0	0	0	1,085	0
Admin for Children & Families	28,049	0	0	0	0	0	0	28,049	0
Agcy for Hlth Care Policy & Rsch	197,255	42,239	2,223	0	0	12,227	0	43,351	97,215
Centers for Disease Control & Prevention	468,559	468,559	0	0	0	0	0	0	0
Food & Drug Administration	151,745	151,745	0	0	0	0	0	0	0
Health Care Financing Admin	55,000	55,000	0	0	0	0	0	0	0
Health Resources & Services Admin	11,924	11,924	0	0	0	0	0	0	0
National Institutes of Health	4,583,733	3,979,669	170,572	72,600	14,015	41,255	66,345	42,494	196,783
Office of the Secretary, total	14,000	0	0	0	0	0	0	14,000	0
Office of the Asst Secretary, Planning & Evaluation	14,000	0	0	0	0	0	0	14,000	0
Dept of Housing & Urban Development	18,054	0	0	0	0	235	1,119	16,298	402

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: fiscal year 2000

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psy-chology	Physical sciences	Environ-mental sciences	Mathe-matics and com-puter sciences	Engi-neering	Social sciences	Other sciences, n.e.c.
Department of the Interior, total	500,152	132,590	0	1,070	327,491	6,988	10,104	21,909	0
Bureau of Reclamation	7,436	0	0	0	2,974	0	4,262	200	0
Geological Survey	432,871	126,987	0	0	299,221	4,311	1,176	1,176	0
Minerals Management Service	28,565	0	0	61	19,931	1,100	4,666	2,807	0
National Park Service	31,280	5,603	0	1,009	5,365	1,577	0	17,726	0
Department of Justice, total	9,841	0	500	0	0	500	0	8,841	0
Bureau of Prisons	4,000	0	500	0	0	500	0	3,000	0
Office of Justice Programs	5,841	0	0	0	0	0	0	5,841	0
Department of Labor, total	11,041	0	0	0	0	100	0	10,941	0
Bureau of Labor Statistics	1,300	0	0	0	0	0	0	1,300	0
Employment & Training Admin	1,331	0	0	0	0	0	0	1,331	0
Occupational Safety & Hlth Admin	5,255	0	0	0	0	0	0	5,255	0
Office of the Secretary	100	0	0	0	0	100	0	0	0
Pension Benefit Guaranty Corp	55	0	0	0	0	0	0	55	0
Pension & Welfare Benefits Admin	3,000	0	0	0	0	0	0	3,000	0
Department of State [2]	964	0	0	0	0	0	0	964	0
Department of Transportation, total	607,936	12,004	29,424	49,977	33,983	10,188	421,621	10,962	39,777
Coast Guard	5,667	0	986	0	691	1,554	2,436	0	0
Federal Aviation Administration	173,000	4,829	26,380	42,961	19,608	0	60,532	0	18,690
Federal Highway Administration	338,401	1,890	2,058	7,016	13,584	953	286,869	5,091	20,940
Federal Railroad Administration	23,601	0	0	0	0	1,000	22,601	0	0
Federal Transit Administration	4,100	0	0	0	0	0	4,100	0	0
National Highway Traffic Safety Administration	58,713	5,285	0	0	0	6,458	41,099	5,871	0
Research & Special Programs Admin	4,454	0	0	0	100	223	3,984	0	147
Department of the Treasury, total	74,817	0	559	2,886	300	0	0	71,072	0
Bureau of Engraving & Printing	2,286	0	0	2,286	0	0	0	0	0
Internal Revenue Service	70,217	0	0	0	0	0	0	70,217	0
Office of Thrift Supervision	855	0	0	0	0	0	0	855	0
United States Customs Service	900	0	0	600	300	0	0	0	0
United States Secret Service	559	0	559	0	0	0	0	0	0
Department of Veterans Affairs	169,500	120,000	34,200	0	0	0	15,300	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: fiscal year 2000

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psy-chology	Physical sciences	Environ-mental sciences	Mathe-matics and com-puter sciences	Engi-neering	Social sciences	Other sciences, n.e.c.
Other agencies:									
Appalachian Regional Commission	750	0	0	0	0	0	0	750	0
Consumer Product Safety Commission	1,168	0	0	0	0	0	1,168	0	0
Environmental Protection Agency	368,100	101,761	0	0	157,530	0	108,809	0	0
Federal Communications Commission	2,747	0	0	0	0	78	1,824	845	0
Federal Trade Commission	1,379	0	0	0	0	0	0	1,379	0
Internat'l Development Cooperation Agency, total	143,474	82,978	0	0	2,479	0	0	58,017	0
Agcy for Internat'l Development[3]	143,474	82,978	0	0	2,479	0	0	58,017	0
Library of Congress	614	0	0	614	0	0	0	0	0
National Aeronautics & Space Admin	1,943,166	155,962	13,759	86,268	319,834	47,017	1,313,745	0	6,581
National Archives & Records Admin	120	0	0	120	0	0	0	0	0
National Science Foundation	184,539	16,557	19	16,509	4,679	9,870	108,734	10,596	17,575
Nuclear Regulatory Commission	46,594	0	0	0	0	0	46,594	0	0
Social Security Administration	36,895	0	0	0	0	0	0	36,895	0
United States Information Agency	100	0	0	0	0	0	100	0	0
US International Trade Commission	7,144	0	0	0	0	0	0	7,144	0

1 The Defense Threat Reduction Agency (DTRA) was established on October 1, 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.

2 Effective April 1, 1999, all functions and authorities of the United States Arms Control & Disarmament Agency were transferred to the Department of State.

3 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 (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-1996). More accurate data for AID will be reported in future volumes of this survey.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-45. Federal obligations for applied research in psychology and life sciences, by agency and detailed field of science: fiscal year 1998

[Dollars in thousands]

Agency and subdivision	Psychology				Life sciences					
	Total	Bio-logical aspects	Social aspects	Psycho-logical sciences, n.e.c.	Total	Bio-logical	Environ-mental biology	Agri-cultural	Medical	Life sciences, n.e.c.
Total, all agencies	278,952	14,271	84,628	180,053	5,704,150	2,053,580	407,640	390,276	2,603,892	248,762
Departments:										
Department of Agriculture, total	370	0	370	0	508,674	53,719	156,477	288,033	10,445	0
Agricultural Marketing Service	0	0	0	0	4,018	0	0	4,018	0	0
Agricultural Research Service	0	0	0	0	247,055	8,481	42,203	193,143	3,228	0
Cooperative State Research, Education, & Extension Service	0	0	0	0	172,464	29,418	51,634	87,160	4,252	0
Foreign Agricultural Service	0	0	0	0	498	0	0	498	0	0
Forest Service	370	0	370	0	82,790	15,820	62,640	1,365	2,965	0
Grain Inspection Packers & Stockyards Administration	0	0	0	0	549	0	0	549	0	0
Rural Business-Cooperative Svc	0	0	0	0	1,300	0	0	1,300	0	0
Department of Commerce, total	402	0	0	402	146,121	31,044	75,544	24,503	11,312	3,718
Bureau of the Census	402	0	0	402	0	0	0	0	0	0
Nat'l Inst of Standards & Tech	0	0	0	0	19,433	9,585	0	1,089	5,901	2,858
Nat'l Oceanic & Atmospheric Admin	0	0	0	0	126,688	21,459	75,544	23,414	5,411	860
Department of Defense, total	48,916	9,787	36,199	2,930	322,860	100,600	9,154	539	187,449	25,118
Department of the Air Force	21,725	325	18,470	2,930	23,404	2,643	9,154	0	0	11,607
Department of the Army	9,174	0	9,174	0	131,037	2,223	0	0	128,814	0
Department of the Navy	8,923	8,923	0	0	27,084	0	0	0	14,175	12,909
Defense Agencies, total	9,094	539	8,555	0	141,335	95,734	0	539	44,460	602
Defense Adv Rsch Projects Agcy	0	0	0	0	59,621	49,070	0	0	10,551	0
Defense Logistics Agency	8,016	0	8,016	0	0	0	0	0	0	0
Defense Threat Reduction Agency[1]	0	0	0	0	4,307	3,144	0	0	1,163	0
Special Operations Command	0	0	0	0	602	0	0	0	0	602
Washington Headquarters Svcs	1,078	539	539	0	76,805	43,520	0	539	32,746	0
Department of Education	7,319	0	4,237	3,082	11,169	0	0	0	2,310	8,859
Department of Energy	0	0	0	0	62,995	2,300	7,000	0	53,695	0
Dept of Health & Human Svcs, total	148,619	4,484	2,488	141,647	4,007,996	1,740,506	30	0	2,098,809	168,651
Agcy for Hlth Care Policy & Rsch	2,193	0	279	1,914	42,076	0	0	0	39,447	2,629
Centers for Disease Control & Prevention	0	0	0	0	343,559	0	0	0	343,559	0
Food & Drug Administration	0	0	0	0	142,937	142,937	0	0	0	0
Health Care Financing Admin	0	0	0	0	51,236	0	0	0	0	51,236
Health Resources & Services Admin	0	0	0	0	11,875	0	0	0	11,875	0
National Institutes of Health	146,426	4,484	2,209	139,733	3,416,313	1,597,569	30	0	1,703,928	114,786
Department of the Interior, total	0	0	0	0	106,997	56,903	49,598	496	0	0
Geological Survey	0	0	0	0	101,394	53,073	48,133	188	0	0
National Park Service	0	0	0	0	5,603	3,830	1,465	308	0	0
Department of Justice, total	500	0	300	200	0	0	0	0	0	0
Bureau of Prisons	500	0	300	200	0	0	0	0	0	0
Department of Transportation, total	25,700	0	25,700	0	8,738	0	473	20	4,499	3,746
Coast Guard	647	0	647	0	0	0	0	0	0	0
Federal Aviation Administration	24,430	0	24,430	0	4,499	0	0	0	4,499	0
Federal Highway Administration	623	0	623	0	493	0	473	20	0	0
National Highway Traffic Safety Administration	0	0	0	0	3,746	0	0	0	0	3,746
Department of the Treasury, total	475	0	0	475	0	0	0	0	0	0
United States Secret Service	475	0	0	475	0	0	0	0	0	0
Department of Veterans Affairs	29,714	0	0	29,714	99,562	0	0	0	99,562	0

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 of science: fiscal year 1998

[Dollars in thousands]

Agency and subdivision	Psychology				Life sciences					
	Total	Bio-logical aspects	Social aspects	Psycho-logical sciences, n.e.c.	Total	Bio-logical	Environ-mental biology	Agri-cultural	Medical	Life sciences, n.e.c.
Other agencies:										
Environmental Protection Agency	0	0	0	0	116,052	0	94,041	0	22,011	0
Internat'l Development Cooperation Agency, total	0	0	0	0	105,830	0	0	76,685	0	29,145
Agcy for Internat'l Development[2]	0	0	0	0	105,830	0	0	76,685	0	29,145
National Aeronautics & Space Admin	16,919	0	15,316	1,603	191,784	62,627	5,892	0	113,800	9,465
National Science Foundation	18	0	18	0	15,312	5,881	9,431	0	0	0
US Arms Control & Disarmament Agcy[3]	0	0	0	0	60	0	0	0	0	60

1 The Defense Threat Reduction Agency (DTRA) was established on October 1, 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.

2 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 (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-1996). More accurate data for AID will be reported in future volumes of this survey.

3 Effective April 1, 1999, all functions and authorities of the United States Arms Control & Disarmament Agency were transferred to the Department of State.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-46. Federal obligations for applied research in physical and environmental sciences, by agency and detailed field of science: fiscal year 1998

[Dollars in thousands]

Agency and subdivision	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences, n.e.c.	Total	Atmospheric	Geological	Oceanography	Environmental sciences, n.e.c.
Total, all agencies	1,268,298	25,229	301,507	551,951	389,611	1,533,245	519,242	212,146	273,797	528,060
Departments:										
Department of Agriculture, total	46,646	0	43,406	3,240	0	7,304	6,026	1,278	0	0
Agricultural Research Service	32,048	0	30,248	1,800	0	1,674	1,606	68	0	0
Cooperative State Research, Education, & Extension Service	9,283	0	9,283	0	0	505	505	0	0	0
Forest Service	5,315	0	3,875	1,440	0	5,125	3,915	1,210	0	0
Department of Commerce, total	75,399	0	31,901	43,295	203	249,895	105,181	4,180	126,409	14,125
Nat'l Inst of Standards & Tech	52,183	0	19,217	32,763	203	249	0	249	0	0
Nat'l Oceanic & Atmospheric Admin	23,216	0	12,684	10,532	0	249,646	105,181	3,931	126,409	14,125
Department of Defense, total	280,665	0	55,936	164,598	60,131	224,179	28,023	2,856	55,414	137,886
Department of the Air Force	88,803	0	12,478	76,244	81	5,474	3,352	1,455	0	667
Department of the Army	32,175	0	7,720	11,541	12,914	60,508	9,651	1,401	0	49,456
Department of the Navy	2,136	0	0	2,136	0	141,338	11,960	0	48,742	80,636
Defense Agencies, total	157,551	0	35,738	74,677	47,136	16,859	3,060	0	6,672	7,127
Ballistic Missile Defense Org	37,975	0	20,519	17,456	0	2,701	2,701	0	0	0
Defense Adv Rsch Projects Agcy	44,552	0	0	28,826	15,726	6,313	0	0	6,313	0
Defense Threat Reduction Agency[1]	59,266	0	0	27,856	31,410	6,767	0	0	0	6,767
Washington Headquarters Svcs	15,758	0	15,219	539	0	1,078	359	0	359	360
Department of Energy	639,325	0	99,002	232,069	308,254	124,425	0	0	240	124,185
Dept of Health & Human Svcs, total	62,323	0	55,327	6,996	0	12,031	0	0	0	12,031
National Institutes of Health	62,323	0	55,327	6,996	0	12,031	0	0	0	12,031
Department of the Interior, total	1,007	0	917	90	0	309,703	3,445	162,215	17,491	126,552
Bureau of Reclamation	0	0	0	0	0	2,650	0	0	0	2,650
Geological Survey	0	0	0	0	0	281,241	0	160,845	0	120,396
Minerals Management Service	90	0	0	90	0	20,371	1,092	1,010	17,128	1,141
National Park Service	917	0	917	0	0	5,441	2,353	360	363	2,365
Department of Transportation, total	37,428	0	0	35,810	1,618	23,787	21,314	0	551	1,922
Coast Guard	0	0	0	0	0	551	0	0	551	0
Federal Aviation Administration	35,551	0	0	35,551	0	20,183	20,183	0	0	0
Federal Highway Administration	1,877	0	0	259	1,618	2,978	1,131	0	0	1,847
Research & Special Programs Admin	0	0	0	0	0	75	0	0	0	75
Department of the Treasury, total	2,642	0	213	21	2,408	776	0	0	0	776
Bureau of Engraving & Printing	2,642	0	213	21	2,408	0	0	0	0	0
United States Customs Service	0	0	0	0	0	776	0	0	0	776

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 of science: fiscal year 1998

[Dollars in thousands]

Agency and subdivision	Physical sciences					Environmental sciences				
	Total	Astronomy	Chem-istry	Physics	Physical sciences, n.e.c.	Total	Atmos-pheric	Geo-logical	Ocean-ography	Environ-mental sciences, n.e.c.
Other agencies:										
Environmental Protection Agency	0	0	0	0	0	179,651	83,775	11,688	0	84,188
Internat'l Development Cooperation Agency, total	0	0	0	0	0	3,246	0	0	0	3,246
Agcy for Internat'l Development[2]	0	0	0	0	0	3,246	0	0	0	3,246
Library of Congress	455	0	364	0	91	0	0	0	0	0
National Aeronautics & Space Admin	106,082	25,215	8,471	60,937	11,459	393,295	271,291	26,661	72,627	22,716
National Archives & Records Admin	120	0	70	50	0	0	0	0	0	0
National Science Foundation	15,267	14	5,099	4,839	5,315	4,327	62	2,842	1,065	358
Tennessee Valley Authority	561	0	561	0	0	200	125	0	0	75
US Arms Control & Disarmament Agcy[3]	378	0	240	6	132	426	0	426	0	0

1 The Defense Threat Reduction Agency (DTRA) was established on October 1, 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.

2 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 (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-1996). More accurate data for AID will be reported in future volumes of this survey.

3 Effective April 1, 1999, all functions and authorities of the United States Arms Control & Disarmament Agency were transferred to the Department of State.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-47. Federal obligations for applied research in engineering, by agency and detailed field of engineering: fiscal year 1998

[Dollars in thousands]

Agency and subdivision	Total	Aero-nautical	Astro-nautical	Chemical	Civil	Elec-trical	Mechan-ical	Metallurgy and materials	Engi-neering, n.e.c.
Total, all agencies	4,300,981	1,311,194	563,159	137,881	208,272	425,427	142,881	310,855	1,201,312
Departments:									
Department of Agriculture, total	45,523	0	0	5,387	4,773	236	2,920	0	32,207
Agricultural Research Service	6,902	0	0	3,792	1,018	176	420	0	1,496
Cooperative State Research, Education, & Extension Service	13,361	0	0	0	0	0	0	0	13,361
Forest Service	25,260	0	0	1,595	3,755	60	2,500	0	17,350
Department of Commerce, total	155,147	0	0	5,794	23,003	41,333	3,188	36,082	45,747
Nat'l Inst of Standards & Tech	141,184	0	0	5,794	23,003	31,904	3,188	36,082	41,213
Nat'l Oceanic & Atmospheric Admin	10,197	0	0	0	0	5,663	0	0	4,534
National Telecommunications & Information Administration	3,766	0	0	0	0	3,766	0	0	0
Department of Defense, total	1,355,443	287,129	31,800	25,012	43,330	339,663	106,266	230,409	291,834
Department of the Air Force	366,320	189,302	29,902	1,824	9,700	66,806	15,863	46,714	6,209
Department of the Army	268,033	23,445	904	11,255	26,578	98,062	54,746	16,872	36,171
Department of the Navy	303,085	33,855	0	4,746	0	104,549	25,817	41,237	92,881
Defense Agencies, total	418,005	40,527	994	7,187	7,052	70,246	9,840	125,586	156,573
Ballistic Missile Defense Org	55,781	1,575	994	3,570	0	13,826	0	13,515	22,301
Defense Adv Rsch Projects Agcy	263,771	38,717	0	1,929	361	16,319	89	112,071	94,285
Defense Threat Reduction Agency[1]	58,856	235	0	883	5,886	23,013	8,946	0	19,893
Special Operations Command	14,794	0	0	0	0	0	0	0	14,794
Washington Headquarters Svcs	24,803	0	0	805	805	17,088	805	0	5,300
Department of Education	7,704	0	0	0	0	0	0	0	7,704
Department of Energy	538,684	0	0	86,720	37,979	25,230	717	30,071	357,967
Dept of Health & Human Svcs, total	56,953	0	0	0	0	0	0	0	56,953
National Institutes of Health	56,953	0	0	0	0	0	0	0	56,953
Dept of Housing & Urban Development	571	0	0	0	0	0	0	0	571
Department of the Interior, total	8,653	0	0	3,094	4,468	187	0	904	0
Bureau of Reclamation	3,876	0	0	1,300	2,250	0	0	326	0
Geological Survey	1,125	0	0	0	938	187	0	0	0
Minerals Management Service	3,652	0	0	1,794	1,280	0	0	578	0
Department of Justice, total	7,000	0	0	0	0	0	0	0	7,000
Office of Justice Programs	7,000	0	0	0	0	0	0	0	7,000
Department of Transportation, total	211,588	0	0	15	79,683	2,920	19,299	6,186	103,485
Coast Guard	2,779	0	0	0	326	1,285	570	598	0
Federal Aviation Administration	49,595	0	0	0	44,315	0	2,769	2,511	0
Federal Highway Administration	100,539	0	0	15	30,518	0	0	2,183	67,823
Federal Railroad Administration	19,266	0	0	0	4,524	1,635	5,555	425	7,127
Federal Transit Administration	7,400	0	0	0	0	0	0	0	7,400
National Highway Traffic Safety Administration	27,886	0	0	0	0	0	10,405	0	17,481
Research & Special Programs Admin	4,123	0	0	0	0	0	0	469	3,654
Department of Veterans Affairs	19,775	0	0	0	0	0	0	0	19,775

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 of engineering: fiscal year 1998

[Dollars in thousands]

Agency and subdivision	Total	Aero-nautical	Astro-nautical	Chemical	Civil	Elec-trical	Mechan-ical	Metallurgy and materials	Engi-neering, n.e.c.
Other agencies:									
Environmental Protection Agency	124,097	0	0	2,735	0	0	0	0	121,362
Federal Communications Commission	1,400	0	0	0	0	1,250	0	0	150
National Aeronautics & Space Admin	1,615,868	1,024,065	531,359	442	28	14,158	9,465	3,301	33,050
National Science Foundation	100,557	0	0	8,682	15,008	450	1,026	3,902	71,489
Nuclear Regulatory Commission	51,700	0	0	0	0	0	0	0	51,700
US Arms Control & Disarmament Agcy[2] ..	60	0	0	0	0	0	0	0	60
United States Information Agency	258	0	0	0	0	0	0	0	258

1 The Defense Threat Reduction Agency (DTRA) was established on October 1, 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.

2 Effective April 1, 1999, all functions and authorities of the United States Arms Control & Disarmament Agency were transferred to the Department of State.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-48. Federal obligations for applied research in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1998

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences, n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences, n.e.c.
Total, all agencies	1,131,356	83,338	979,612	68,406	581,330	4,664	188,940	15,600	77,368	294,758
Departments:										
Department of Agriculture, total	12,851	12,851	0	0	105,549	240	97,990	0	7,319	0
Agricultural Research Service	340	340	0	0	0	0	0	0	0	0
Cooperative State Research, Education, & Extension Service	0	0	0	0	27,381	0	20,987	0	6,394	0
Economic Research Service	0	0	0	0	64,392	0	64,392	0	0	0
Forest Service	10,275	10,275	0	0	10,640	240	9,475	0	925	0
Nat'l Agricultural Statistics Svc	2,236	2,236	0	0	0	0	0	0	0	0
Rural Business-Cooperative Svc	0	0	0	0	3,136	0	3,136	0	0	0
Department of Commerce, total	76,404	12,610	56,336	7,458	21,448	0	5,414	8,228	6,499	1,307
Bureau of the Census	2,907	0	0	2,907	1,307	0	0	0	0	1,307
Economic Development Admin	0	0	0	0	557	0	557	0	0	0
Nat'l Inst of Standards & Tech	53,691	3,449	45,691	4,551	0	0	0	0	0	0
Nat'l Oceanic & Atmospheric Admin	19,806	9,161	10,645	0	19,584	0	4,857	8,228	6,499	0
Department of Defense, total	521,511	37,084	476,710	7,717	176	0	0	0	176	0
Department of the Air Force	32,015	7,689	22,218	2,108	0	0	0	0	0	0
Department of the Army	45,433	6,236	36,932	2,265	176	0	0	0	176	0
Department of the Navy	10,617	0	10,617	0	0	0	0	0	0	0
Defense Agencies, total	433,446	23,159	406,943	3,344	0	0	0	0	0	0
Ballistic Missile Defense Org	30,344	0	27,000	3,344	0	0	0	0	0	0
Defense Adv Rsch Projects Agcy	389,007	21,542	367,465	0	0	0	0	0	0	0
Defense Threat Reduction Agency[1]	9,638	0	9,638	0	0	0	0	0	0	0
Washington Headquarters Svcs	4,457	1,617	2,840	0	0	0	0	0	0	0
Department of Education	1,156	0	1,156	0	119,331	0	0	0	0	119,331
Department of Energy	374,127	0	374,127	0	0	0	0	0	0	0
Dept of Health & Human Svcs, total	47,787	16,806	30,981	0	118,846	0	39,092	0	1,011	78,743
Administration on Aging	0	0	0	0	2,435	0	0	0	0	2,435
Admin for Children & Families	0	0	0	0	23,456	0	0	0	0	23,456
Agcy for Hlth Care Policy & Rsch	12,372	309	12,063	0	42,528	0	39,092	0	921	2,515
National Institutes of Health	35,415	16,497	18,918	0	36,479	0	0	0	90	36,389
Office of the Secretary, total	0	0	0	0	13,948	0	0	0	0	13,948
Office of the Asst Secretary, Planning & Evaluation	0	0	0	0	13,948	0	0	0	0	13,948
Dept of Housing & Urban Development	123	0	0	123	8,313	0	6,972	133	620	588

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 of science: fiscal year 1998

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences, n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences, n.e.c.
Department of the Interior, total	6,874	904	5,970	0	20,885	3,761	2,593	0	1,543	12,988
Bureau of Reclamation	0	0	0	0	100	0	50	0	0	50
Geological Survey	4,126	844	3,282	0	1,125	0	0	0	656	469
Minerals Management Service	1,155	60	1,095	0	4,018	597	2,534	0	887	0
National Park Service	1,593	0	1,593	0	15,642	3,164	9	0	0	12,469
Department of Justice, total	500	0	0	500	18,005	0	100	0	15,879	2,026
Bureau of Prisons	500	0	0	500	3,326	0	100	0	1,200	2,026
Office of Justice Programs	0	0	0	0	14,679	0	0	0	14,679	0
Department of Labor, total	95	0	95	0	10,884	0	10,884	0	0	0
Bureau of Labor Statistics	0	0	0	0	1,300	0	1,300	0	0	0
Employment & Training Admin	0	0	0	0	2,197	0	2,197	0	0	0
Occupational Safety & Hlth Admin	0	0	0	0	4,592	0	4,592	0	0	0
Office of the Secretary	95	0	95	0	0	0	0	0	0	0
Pension Benefit Guaranty Corp	0	0	0	0	55	0	55	0	0	0
Pension & Welfare Benefits Admin	0	0	0	0	2,740	0	2,740	0	0	0
Department of State[2]	0	0	0	0	852	0	51	409	128	264
Department of Transportation, total	22,805	195	16,465	6,145	8,602	0	1,943	240	0	6,419
Coast Guard	1,133	0	1,133	0	0	0	0	0	0	0
Federal Highway Administration	15,249	195	14,377	677	2,775	0	1,943	240	0	592
Federal Railroad Administration	1,925	0	955	970	0	0	0	0	0	0
National Highway Traffic Safety Administration	4,162	0	0	4,162	5,827	0	0	0	0	5,827
Research & Special Programs Admin	336	0	0	336	0	0	0	0	0	0
Department of the Treasury, total	0	0	0	0	48,626	0	2,850	0	0	45,776
Internal Revenue Service	0	0	0	0	47,942	0	2,166	0	0	45,776
Office of Thrift Supervision	0	0	0	0	684	0	684	0	0	0

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 of science: fiscal year 1998

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences, n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences, n.e.c.
Other agencies:										
Appalachian Regional Commission	0	0	0	0	680	0	680	0	0	0
Federal Communications Commission	180	0	180	0	1,445	0	1,445	0	0	0
Federal Trade Commission	0	0	0	0	1,144	0	1,144	0	0	0
Internat'l Development Cooperation Agency, total	0	0	0	0	62,032	0	7,109	5,914	43,169	5,840
Agcy for Internat'l Development[3]	0	0	0	0	62,032	0	7,109	5,914	43,169	5,840
National Aeronautics & Space Admin	57,816	2,688	8,665	46,463	0	0	0	0	0	0
National Science Foundation	9,127	200	8,927	0	9,799	663	3,508	550	1,024	4,054
Social Security Administration	0	0	0	0	17,422	0	0	0	0	17,422
US Arms Control & Disarmament Agcy[2]	0	0	0	0	126	0	0	126	0	0
US International Trade Commission	0	0	0	0	7,165	0	7,165	0	0	0

1 The Defense Threat Reduction Agency (DTRA) was established on October 1, 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.

2 Effective April 1, 1999, all functions and authorities of the United States Arms Control & Disarmament Agency were transferred to the Department of State.

3 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 (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-1996). More accurate data for AID will be reported in future volumes of this survey.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-49. Federal obligations for development, by agency and performer: fiscal year 1998 (revised)

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural [1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other non-profit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Total, all agencies	40,981,024	9,149,264	27,204,645	344,716	1,624,829	1,147,175	729,882	388,498	207,386	184,629
Departments:										
Department of Agriculture, total	107,141	99,318	0	0	7,257	0	283	0	1	282
Agricultural Marketing Service	703	703	0	0	0	0	0	0	0	0
Agricultural Research Service	68,215	64,259	0	0	3,432	0	241	0	1	282
Animal & Plant Hlth Inspection Svc	20,462	16,595	0	0	3,825	0	42	0	0	0
Food Safety Inspection Service	65	65	0	0	0	0	0	0	0	0
Forest Service	15,500	15,500	0	0	0	0	0	0	0	0
Grain Inspection Packers & Stockyards Administration	2,196	2,196	0	0	0	0	0	0	0	0
Department of Commerce, total	141,585	48,428	72,722	0	7,616	5	9,473	0	3,341	0
Bureau of the Census	3,396	3,396	0	0	0	0	0	0	0	0
Nat'l Inst of Standards & Tech	88,991	16,090	72,722	0	174	5	0	0	0	0
Nat'l Oceanic & Atmospheric Admin	27,416	25,671	0	0	1,720	0	0	0	25	0
National Telecommunications & Information Administration	21,782	3,271	0	0	5,722	0	9,473	0	3,316	0
Department of Defense, total	31,316,332	6,870,947	22,969,765	72,968	457,501	262,837	139,297	290,463	110,448	142,106
Department of the Air Force	13,102,171	1,135,442	11,564,064	18,225	31,008	103,983	522	135,951	110,370	2,606
Department of the Army	4,219,894	1,409,401	2,661,880	2,462	59,033	29,444	21,265	21,959	75	14,375
Department of the Navy	7,334,117	2,577,265	4,431,813	4,540	175,504	34,383	29,136	59,959	0	21,517
Defense Agencies, total	6,387,766	1,517,401	4,291,527	47,741	191,956	95,027	88,374	52,129	3	103,608
Ballistic Missile Defense Org	3,294,653	583,631	2,453,536	23,546	64,724	48,777	100	22,572	0	97,767
Defense Adv Rsch Projects Agcy	1,146,841	226,581	750,014	4,868	88,852	25,164	34,042	16,428	0	892
Defense Info Systems Agcy	54,544	16,026	32,763	506	0	312	0	4,937	0	0
Defense Logistics Agency	114,122	29,503	32,771	0	4,138	100	47,320	290	0	0
Defense Threat Reduction Agency [2]	70,704	9,803	53,242	192	4,849	1,376	0	702	0	540
Joint Staff	53,945	53,945	0	0	0	0	0	0	0	0
Special Operations Command	126,996	38,480	86,973	1,543	0	0	0	0	0	0
Washington Headquarters Svcs	1,525,961	559,432	882,228	17,086	29,393	19,298	6,912	7,200	3	4,409
Operational Test & Evaluation, Director	30,339	7,281	8,253	0	0	0	0	14,805	0	0
Test & Evaluation, Deputy Under Secretary of Defense	242,045	224,157	12,228	0	0	0	0	5,660	0	0
Department of Defense, total advanced technology (at)	5,524,581	1,478,698	3,278,241	21,983	276,993	152,175	131,311	64,955	12,600	107,625
Department of the Air Force (at)	1,431,316	524,758	760,083	5,697	29,672	80,854	0	17,652	12,600	0
Department of the Army (at)	698,249	249,498	383,654	503	35,973	3,968	17,336	1,095	0	6,222
Department of the Navy (at)	515,810	126,014	292,509	0	60,302	7,686	27,620	1,636	0	43
Defense Agencies, total (at)	2,879,206	578,428	1,841,995	15,783	151,046	59,667	86,355	44,572	0	101,360
Ballistic Missile Defense Organization (at)	996,052	133,941	703,779	588	25,705	14,504	50	21,816	0	95,669
Defense Advanced Research Projects Agency (at)	1,061,711	191,744	699,721	4,868	88,852	25,164	34,042	16,428	0	892
Defense Logistics Agency (at)	105,704	27,297	26,739	0	4,138	0	47,320	210	0	0
Defense Threat Reduction Agency (at) [2]	70,704	9,803	53,242	192	4,849	1,376	0	702	0	540
Joint Staff (at)	53,945	53,945	0	0	0	0	0	0	0	0
Special Operations Command (at)	52,796	15,997	36,151	648	0	0	0	0	0	0
Washington Headquarters Services (at)	538,294	145,701	322,363	9,487	27,502	18,623	4,943	5,416	0	4,259

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

Table C-49. Federal obligations for development, by agency and performer: fiscal year 1998 (revised)

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural [1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other non-profit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Department of Defense, total major systems (ms)	25,791,751	5,392,249	19,691,524	50,985	180,508	110,662	7,986	225,508	97,848	34,481
Department of the Air Force (ms)	11,670,855	610,684	10,803,981	12,528	1,336	23,129	522	118,299	97,770	2,606
Department of the Army (ms)	3,521,645	1,159,903	2,278,226	1,959	23,060	25,476	3,929	20,864	75	8,153
Department of the Navy (ms)	6,818,307	2,451,251	4,139,304	4,540	115,202	26,697	1,516	58,323	0	21,474
Defense Agencies, total (ms)	3,508,560	938,973	2,449,532	31,958	40,910	35,360	2,019	7,557	3	2,248
Ballistic Missile Defense Organization (ms)	2,298,601	449,690	1,749,757	22,958	39,019	34,273	50	756	0	2,098
Defense Advanced Research Projects Agency (ms)	85,130	34,837	50,293	0	0	0	0	0	0	0
Defense Information Systems Agency (ms)	54,544	16,026	32,763	506	0	312	0	4,937	0	0
Defense Logistics Agency (ms)	8,418	2,206	6,032	0	0	100	0	80	0	0
Special Operations Command (ms)	74,200	22,483	50,822	895	0	0	0	0	0	0
Washington Headquarters Services (ms)	987,667	413,731	559,865	7,599	1,891	675	1,969	1,784	3	150
Operational Test & Evaluation, Director (ms)	30,339	7,281	8,253	0	0	0	0	14,805	0	0
Test & Evaluation, Deputy Under Secretary of Defense (ms)	242,045	224,157	12,228	0	0	0	0	5,660	0	0
Department of Education	55,713	2,554	10,138	0	22,110	0	20,661	0	250	0
Department of Energy	2,086,293	280,215	1,083,921	249,019	59,660	302,070	14,515	95,528	419	946
Dept of Health & Human Svcs, total	1,685,758	371,845	102,465	19,913	874,728	2,460	275,888	1,387	32,864	4,208
Administration on Aging	7,991	341	228	0	850	0	4,626	0	1,946	0
Agcy for Hlth Care Policy & Rsch	7,700	7,700	0	0	0	0	0	0	0	0
National Institutes of Health	1,591,023	363,526	102,237	19,913	849,063	2,460	237,827	1,387	10,402	4,208
Office of the Secretary, total	3,054	277	0	0	2,777	0	0	0	0	0
Office of Public Hlth & Science	3,054	277	0	0	2,777	0	0	0	0	0
Substance Abuse & Mental Health Services Administration [3]	75,990	1	0	0	22,038	0	33,435	0	20,516	0
Dept of Housing & Urban Development	18,796	10,697	5,594	0	180	0	2,325	0	0	0
Department of the Interior, total	29,117	24,569	2,895	0	1,609	0	0	0	44	0
Bureau of Reclamation	2,209	1,000	0	0	1,209	0	0	0	0	0
Geological Survey	26,908	23,569	2,895	0	400	0	0	0	44	0
Department of Justice, total	58,573	36,313	1,479	0	1,733	0	3,949	0	15,099	0
Bureau of Prisons	3,784	500	0	0	0	0	0	0	3,284	0
Federal Bureau of Investigation	35,812	35,812	0	0	0	0	0	0	0	0
Office of Justice Programs	18,977	1	1,479	0	1,733	0	3,949	0	11,815	0
Department of Labor, total	5,682	334	356	0	75	0	4,917	0	0	0
Employment & Training Admin	5,025	108	0	0	0	0	4,917	0	0	0
Office of the Secretary	105	30	0	0	75	0	0	0	0	0
Pension Benefit Guaranty Corp	552	196	356	0	0	0	0	0	0	0
Department of Transportation, total	165,071	86,251	26,334	190	12,078	0	5,194	0	35,024	0
Coast Guard	15,329	9,504	5,825	0	0	0	0	0	0	0
Federal Aviation Administration	76,431	61,130	9,617	0	5,684	0	0	0	0	0
Federal Highway Administration	57,664	9,148	9,994	190	2,497	0	1,785	0	34,050	0
Federal Railroad Administration	312	156	156	0	0	0	0	0	0	0
Federal Transit Administration	10,183	1,903	0	0	3,897	0	3,409	0	974	0
Office of the Secretary	3,433	3,433	0	0	0	0	0	0	0	0
Research & Special Programs Admin	1,719	977	742	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: fiscal year 1998 (revised)

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural [1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other non-profit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Department of the Treasury, total	12,515	4,807	7,708	0	0	0	0	0	0	0
Bureau of Engraving & Printing	123	123	0	0	0	0	0	0	0	0
Internal Revenue Service	4,086	1,849	2,237	0	0	0	0	0	0	0
United States Customs Service	8,250	2,834	5,416	0	0	0	0	0	0	0
United States Mint	56	1	55	0	0	0	0	0	0	0
Department of Veterans Affairs	8,028	8,028	0	0	0	0	0	0	0	0
Other agencies:										
Environmental Protection Agency	94,000	8,059	24,823	0	39,598	0	16,701	0	4,181	638
Internat'l Development Cooperation Agency, total	39,109	3,520	391	0	1,564	0	33,243	0	0	391
Agcy for Internat'l Development [4]	39,109	3,520	391	0	1,564	0	33,243	0	0	391
Library of Congress	1,087	425	637	0	25	0	0	0	0	0
National Aeronautics & Space Admin	5,154,378	1,291,108	2,895,417	2,626	139,095	579,803	203,436	1,120	5,715	36,058
Tennessee Valley Authority	1,846	1,846	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 The Defense Threat Reduction Agency (DTRA) was established on October 1, 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.

3 Data for fiscal years 1998-2000 from the Substance Abuse & Mental Health Services Administration (SAMHSA) are estimates based on SAMHSA's obligations by program activity budget and previously reported funding for development.

4 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 (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-1996). More accurate data for AID will be reported in future volumes of this survey.

NOTES: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

Beginning with Vol. 44, Department of Defense development obligations are reported in two categories: advanced technology and major systems.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-50. Preliminary Federal obligations for development, by agency and performer: fiscal year 1999

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural [1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other non-profit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Total, all agencies	41,529,635	9,831,528	26,999,147	398,154	1,789,928	1,145,629	747,540	410,818	84,277	122,614
Departments:										
Department of Agriculture, total	120,797	113,118	0	0	7,098	0	283	0	1	297
Agricultural Marketing Service	696	696	0	0	0	0	0	0	0	0
Agricultural Research Service	74,961	70,324	0	0	4,098	0	241	0	1	297
Animal & Plant Hlth Inspection Svc	19,979	16,937	0	0	3,000	0	42	0	0	0
Food Safety Inspection Service	65	65	0	0	0	0	0	0	0	0
Forest Service	22,900	22,900	0	0	0	0	0	0	0	0
Grain Inspection Packers & Stockyards Administration	2,196	2,196	0	0	0	0	0	0	0	0
Department of Commerce, total	162,614	47,795	97,224	0	6,748	7	7,959	0	2,881	0
Bureau of the Census	6,478	6,478	0	0	0	0	0	0	0	0
Nat'l Inst of Standards & Tech	113,799	16,345	97,224	0	223	7	0	0	0	0
Nat'l Oceanic & Atmospheric Admin	22,066	20,307	0	0	1,687	0	0	0	72	0
National Telecommunications & Information Administration	20,271	4,665	0	0	4,838	0	7,959	0	2,809	0
Department of Defense, total	31,494,985	7,494,222	22,708,570	91,533	467,378	219,268	123,715	298,664	11,596	80,039
Department of the Air Force	12,771,144	1,211,343	11,318,758	16,299	7,362	71,582	3,666	126,675	9,607	5,852
Department of the Army	4,303,007	1,464,549	2,626,415	6,395	85,392	37,453	47,718	27,165	1,945	5,975
Department of the Navy	7,809,362	2,775,896	4,693,880	4,348	190,863	25,319	33,382	66,539	10	19,125
Defense Agencies, total	6,343,090	1,830,410	4,039,127	64,491	183,761	84,914	38,949	52,317	34	49,087
Ballistic Missile Defense Org	3,708,231	904,717	2,614,747	44,254	38,970	47,252	0	15,181	0	43,110
Defense Adv Rsch Projects Agcy	977,681	195,143	638,794	4,110	75,020	21,247	28,743	13,871	0	753
Defense Info Systems Agcy	108,132	45,244	50,344	0	0	318	6,115	6,111	0	0
Defense Logistics Agency	63,586	24,003	35,939	115	3,329	0	0	200	0	0
Defense Threat Reduction Agency [2]	123,028	17,101	92,641	369	8,366	2,337	0	1,230	0	984
Joint Staff	161,241	161,241	0	0	0	0	0	0	0	0
Special Operations Command	188,639	57,158	130,231	1,250	0	0	0	0	0	0
Washington Headquarters Svcs	1,012,552	425,803	476,431	14,393	58,076	13,760	4,091	15,724	34	4,240
Operational Test & Evaluation, Director	31,759	5,199	8,725	0	0	0	0	17,835	0	0
Test & Evaluation, Deputy Under Secretary of Defense	236,623	206,825	21,665	0	0	0	0	8,133	0	0
Department of Defense, total advanced technology (at)	5,741,678	1,401,217	3,703,812	21,125	294,038	111,973	89,864	60,516	11,498	47,635
Department of the Air Force (at)	585,768	150,659	351,984	582	5,741	54,320	0	12,850	9,607	25
Department of the Army (at)	801,350	318,932	379,246	4,686	64,622	4,117	26,337	1,540	1,870	0
Department of the Navy (at)	594,793	128,186	360,396	0	67,006	3,311	32,736	2,810	0	348
Defense Agencies, total (at)	3,759,767	803,440	2,612,186	15,857	156,669	50,225	30,791	43,316	21	47,262
Ballistic Missile Defense Organization (at)	1,973,373	292,320	1,594,962	1,800	15,163	13,406	0	14,414	0	41,308
Defense Advanced Research Projects Agency (at)	896,434	161,895	590,795	4,110	75,020	21,247	28,743	13,871	0	753
Defense Logistics Agency (at)	55,736	23,960	28,332	115	3,329	0	0	0	0	0
Defense Threat Reduction Agency (at) [2]	123,028	17,101	92,641	369	8,366	2,337	0	1,230	0	984
Joint Staff (at)	161,241	161,241	0	0	0	0	0	0	0	0
Special Operations Command (at)	78,772	23,868	54,379	525	0	0	0	0	0	0
Washington Headquarters Services (at)	471,183	123,055	251,077	8,938	54,791	13,235	2,048	13,801	21	4,217

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

Table C-50. Preliminary Federal obligations for development, by agency and performer: fiscal year 1999

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural [1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other non-profit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Department of Defense, total major systems (ms)	25,753,307	6,093,005	19,004,758	70,408	173,340	107,295	33,851	238,148	98	32,404
Department of the Air Force (ms)	12,185,376	1,060,684	10,966,774	15,717	1,621	17,262	3,666	113,825	0	5,827
Department of the Army (ms)	3,501,657	1,145,617	2,247,169	1,709	20,770	33,336	21,381	25,625	75	5,975
Department of the Navy (ms)	7,214,569	2,647,710	4,333,484	4,348	123,857	22,008	646	63,729	10	18,777
Defense Agencies, total (ms)	2,583,323	1,026,970	1,426,941	48,634	27,092	34,689	8,158	9,001	13	1,825
Ballistic Missile Defense Organization (ms)	1,734,858	612,397	1,019,785	42,454	23,807	33,846	0	767	0	1,802
Defense Advanced Research Projects Agency (ms)	81,247	33,248	47,999	0	0	0	0	0	0	0
Defense Information Systems Agency (ms)	108,132	45,244	50,344	0	0	318	6,115	6,111	0	0
Defense Logistics Agency (ms)	7,850	43	7,607	0	0	0	0	200	0	0
Special Operations Command (ms)	109,867	33,290	75,852	725	0	0	0	0	0	0
Washington Headquarters Services (ms)	541,369	302,748	225,354	5,455	3,285	525	2,043	1,923	13	23
Operational Test & Evaluation, Director (ms)	31,759	5,199	8,725	0	0	0	0	17,835	0	0
Test & Evaluation, Deputy Under Secretary of Defense (ms)	236,623	206,825	21,665	0	0	0	0	8,133	0	0
Department of Education	67,894	5,554	8,654	0	27,555	0	25,860	0	271	0
Department of Energy	2,369,044	342,577	1,220,883	280,638	54,317	355,080	4,887	109,512	550	600
Dept of Health & Human Svcs, total	1,932,270	397,519	119,094	23,157	1,024,434	2,861	319,660	1,613	39,038	4,894
Administration on Aging	17,266	341	200	0	650	0	9,650	0	6,425	0
Agcy for Hlth Care Policy & Rsch	10,100	10,100	0	0	0	0	0	0	0	0
National Institutes of Health	1,825,243	386,777	118,894	23,157	998,375	2,861	276,575	1,613	12,097	4,894
Office of the Secretary, total	3,671	300	0	0	3,371	0	0	0	0	0
Office of Public Hlth & Science	3,671	300	0	0	3,371	0	0	0	0	0
Substance Abuse & Mental Health Services Administration [3]	75,990	1	0	0	22,038	0	33,435	0	20,516	0
Dept of Housing & Urban Development	38,130	19,800	11,933	0	472	0	5,925	0	0	0
Department of the Interior, total	30,132	25,731	2,895	0	1,462	0	0	0	44	0
Bureau of Reclamation	2,017	1,000	0	0	1,017	0	0	0	0	0
Geological Survey	28,115	24,731	2,895	0	445	0	0	0	44	0
Department of Justice, total	60,633	36,861	3,015	0	2,250	0	2,831	0	15,676	0
Bureau of Prisons	3,883	500	0	0	0	0	0	0	3,383	0
Federal Bureau of Investigation	36,160	36,160	0	0	0	0	0	0	0	0
Immigration & Naturalization Svc	500	200	300	0	0	0	0	0	0	0
Office of Justice Programs	20,090	1	2,715	0	2,250	0	2,831	0	12,293	0
Department of Labor, total	5,305	353	417	0	70	0	4,465	0	0	0
Employment & Training Admin	4,579	114	0	0	0	0	4,465	0	0	0
Office of the Secretary	100	30	0	0	70	0	0	0	0	0
Pension Benefit Guaranty Corp	626	209	417	0	0	0	0	0	0	0
Department of Transportation, total	211,562	98,445	85,208	272	18,005	0	5,262	0	4,370	0
Coast Guard	13,472	8,737	4,735	0	0	0	0	0	0	0
Federal Aviation Administration	61,254	32,388	21,761	0	7,105	0	0	0	0	0
Federal Highway Administration	104,965	43,610	56,501	272	1,200	0	1,762	0	1,620	0
Federal Railroad Administration	300	150	150	0	0	0	0	0	0	0
Federal Transit Administration	18,118	1,785	383	0	9,700	0	3,500	0	2,750	0
Office of the Secretary	9,631	9,631	0	0	0	0	0	0	0	0
Research & Special Programs Admin	3,822	2,144	1,678	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: fiscal year 1999

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural [1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other non-profit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Department of the Treasury, total	11,339	4,819	6,520	0	0	0	0	0	0	0
Bureau of Engraving & Printing	132	132	0	0	0	0	0	0	0	0
Internal Revenue Service	3,311	1,802	1,509	0	0	0	0	0	0	0
United States Customs Service	7,166	2,834	4,332	0	0	0	0	0	0	0
United States Mint	730	51	679	0	0	0	0	0	0	0
Department of Veterans Affairs	9,328	9,328	0	0	0	0	0	0	0	0
Other agencies:										
Consumer Product Safety Commission	140	90	50	0	0	0	0	0	0	0
Environmental Protection Agency	93,000	7,973	24,559	0	39,177	0	16,523	0	4,137	631
Internat'l Development Cooperation Agency, total	46,039	5,525	460	0	1,842	0	37,752	0	0	460
Agcy for Internat'l Development [4]	46,039	5,525	460	0	1,842	0	37,752	0	0	460
Library of Congress	1,511	636	850	0	25	0	0	0	0	0
National Aeronautics & Space Admin	4,874,912	1,221,182	2,708,815	2,554	139,095	568,413	192,418	1,029	5,713	35,693

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

2 The Defense Threat Reduction Agency (DTRA) was established on October 1, 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.

3 Data for fiscal years 1998-2000 from the Substance Abuse & Mental Health Services Administration (SAMHSA) are estimates based on SAMHSA's obligations by program activity budget and previously reported funding for development.

4 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 (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-1996). More accurate data for AID will be reported in future volumes of this survey.

NOTES: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

Beginning with Vol. 44, Department of Defense development obligations are reported in two categories: advanced technology and major systems.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-51. Preliminary Federal obligations for development, by agency and performer: fiscal year 2000

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural [1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other non-profit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Total, all agencies	40,424,760	8,865,954	26,930,342	389,303	1,769,444	1,097,883	711,295	447,755	74,515	138,269
Departments:										
Department of Agriculture, total	123,503	116,691	0	0	6,402	0	88	0	1	321
Agricultural Marketing Service	749	749	0	0	0	0	0	0	0	0
Agricultural Research Service	77,028	73,216	0	0	3,402	0	88	0	1	321
Animal & Plant Hlth Inspection Svc	20,033	17,033	0	0	3,000	0	0	0	0	0
Food Safety Inspection Service	65	65	0	0	0	0	0	0	0	0
Forest Service	22,900	22,900	0	0	0	0	0	0	0	0
Grain Inspection Packers & Stockyards Administration	2,728	2,728	0	0	0	0	0	0	0	0
Department of Commerce, total	166,240	44,773	102,470	0	7,188	7	8,670	0	3,132	0
Bureau of the Census	3,281	3,281	0	0	0	0	0	0	0	0
Nat'l Inst of Standards & Tech	119,551	16,847	102,470	0	227	7	0	0	0	0
Nat'l Oceanic & Atmospheric Admin	23,306	21,543	0	0	1,691	0	0	0	72	0
National Telecommunications & Information Administration	20,102	3,102	0	0	5,270	0	8,670	0	3,060	0
Department of Defense, total	30,324,989	6,438,549	22,824,399	82,826	351,250	138,955	59,577	326,239	4,116	99,078
Department of the Air Force	13,636,869	1,041,815	12,420,184	21,817	20,453	7,637	2,926	105,442	4,075	12,520
Department of the Army	3,729,270	1,042,400	2,598,666	3,771	19,375	29,979	8,933	23,158	0	2,988
Department of the Navy	7,312,364	2,599,134	4,440,572	3,825	147,827	27,161	6,490	69,561	0	17,794
Defense Agencies, total	5,367,967	1,532,309	3,336,208	53,413	163,595	74,178	41,228	101,219	41	65,776
Ballistic Missile Defense Org	2,869,617	762,607	1,938,136	33,557	30,115	33,888	1,700	10,102	0	59,512
Defense Adv Rsch Projects Agcy	975,595	194,771	637,419	4,100	74,844	21,197	28,675	13,838	0	751
Defense Info Systems Agcy	115,287	51,184	51,108	0	0	325	7,160	5,510	0	0
Defense Logistics Agency	28,975	14,604	11,231	200	2,840	0	0	100	0	0
Defense Threat Reduction Agency [2]	145,143	20,175	109,293	435	9,870	2,758	0	1,451	0	1,161
Joint Staff	49,073	49,073	0	0	0	0	0	0	0	0
Special Operations Command	174,613	52,907	120,543	1,163	0	0	0	0	0	0
Washington Headquarters Svcs	1,009,664	386,988	468,478	13,958	45,926	16,010	3,693	70,218	41	4,352
Operational Test & Evaluation, Director	25,415	2,989	4,526	0	0	0	0	17,900	0	0
Test & Evaluation, Deputy Under Secretary of Defense	253,104	219,902	24,243	0	0	0	0	8,959	0	0
Department of Defense, total advanced technology (at)	4,575,119	1,045,262	3,042,541	25,379	204,092	47,139	40,139	103,110	3,051	64,406
Department of the Air Force (at)	662,005	159,135	466,814	3,645	18,916	492	0	9,953	3,030	20
Department of the Army (at)	549,929	208,384	328,608	2,999	5,156	416	1,998	2,265	0	103
Department of the Navy (at)	523,944	126,291	345,193	0	42,755	1,866	5,905	1,880	0	54
Defense Agencies, total (at)	2,839,241	551,452	1,901,926	18,735	137,265	44,365	32,236	89,012	21	64,229
Ballistic Missile Defense Organization (at)	1,110,250	145,963	881,814	1,007	7,602	4,829	1,700	9,335	0	58,000
Defense Advanced Research Projects Agency (at)	894,326	161,514	589,407	4,100	74,844	21,197	28,675	13,838	0	751
Defense Logistics Agency (at)	24,001	14,554	6,407	200	2,840	0	0	0	0	0
Defense Threat Reduction Agency (at) [2]	145,143	20,175	109,293	435	9,870	2,758	0	1,451	0	1,161
Joint Staff (at)	49,073	49,073	0	0	0	0	0	0	0	0
Special Operations Command (at)	72,916	22,093	50,334	489	0	0	0	0	0	0
Washington Headquarters Services (at)	543,532	138,080	264,671	12,504	42,109	15,581	1,861	64,388	21	4,317

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

Table C-51. Preliminary Federal obligations for development, by agency and performer: fiscal year 2000

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural [1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other non-profit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Department of Defense, total major systems (ms)	25,749,870	5,393,287	19,781,858	57,447	147,158	91,816	19,438	223,129	1,065	34,672
Department of the Air Force (ms)	12,974,864	882,680	11,953,370	18,172	1,537	7,145	2,926	95,489	1,045	12,500
Department of the Army (ms)	3,179,341	834,016	2,270,058	772	14,219	29,563	6,935	20,893	0	2,885
Department of the Navy (ms)	6,788,420	2,472,843	4,095,379	3,825	105,072	25,295	585	67,681	0	17,740
Defense Agencies, total (ms)	2,528,726	980,857	1,434,282	34,678	26,330	29,813	8,992	12,207	20	1,547
Ballistic Missile Defense Organization (ms)	1,759,367	616,644	1,056,322	32,550	22,513	29,059	0	767	0	1,512
Defense Advanced Research Projects Agency (ms)	81,269	33,257	48,012	0	0	0	0	0	0	0
Defense Information Systems Agency (ms)	115,287	51,184	51,108	0	0	325	7,160	5,510	0	0
Defense Logistics Agency (ms)	4,974	50	4,824	0	0	0	0	100	0	0
Special Operations Command (ms)	101,697	30,814	70,209	674	0	0	0	0	0	0
Washington Headquarters Services (ms)	466,132	248,908	203,807	1,454	3,817	429	1,832	5,830	20	35
Operational Test & Evaluation, Director (ms)	25,415	2,989	4,526	0	0	0	0	17,900	0	0
Test & Evaluation, Deputy Under Secretary of Defense (ms)	253,104	219,902	24,243	0	0	0	0	8,959	0	0
Department of Education	99,246	22,936	5,795	0	35,750	0	34,492	0	273	0
Department of Energy	2,144,971	355,526	955,712	279,427	67,218	363,540	3,388	119,085	500	575
Dept of Health & Human Svcs, total	2,047,241	408,619	121,907	23,705	1,100,044	2,928	343,358	1,651	40,020	5,009
Administration on Aging	17,341	341	200	0	850	0	9,650	0	6,300	0
Agcy for Hlth Care Policy & Rsch	9,000	9,000	0	0	0	0	0	0	0	0
National Institutes of Health	1,936,400	398,709	121,707	23,705	1,071,887	2,928	298,421	1,651	12,383	5,009
Office of the Secretary, total	4,500	450	0	0	4,050	0	0	0	0	0
Office of Public Hlth & Science	4,500	450	0	0	4,050	0	0	0	0	0
Substance Abuse & Mental Health Services Administration [3]	80,000	119	0	0	23,257	0	35,287	0	21,337	0
Dept of Housing & Urban Development	32,571	19,170	8,839	0	385	0	4,177	0	0	0
Department of the Interior, total	32,568	28,075	3,025	0	1,424	0	0	0	44	0
Bureau of Reclamation	2,479	1,500	0	0	979	0	0	0	0	0
Geological Survey	30,089	26,575	3,025	0	445	0	0	0	44	0
Department of Justice, total	56,787	37,209	2,553	0	4,450	0	162	0	12,413	0
Bureau of Prisons	3,984	500	0	0	0	0	0	0	3,484	0
Federal Bureau of Investigation	36,208	36,208	0	0	0	0	0	0	0	0
Immigration & Naturalization Svc	500	500	0	0	0	0	0	0	0	0
Office of Justice Programs	16,095	1	2,553	0	4,450	0	162	0	8,929	0
Department of Labor, total	3,792	361	430	0	70	0	2,931	0	0	0
Employment & Training Admin	3,048	117	0	0	0	0	2,931	0	0	0
Office of the Secretary	100	30	0	0	70	0	0	0	0	0
Pension Benefit Guaranty Corp	644	214	430	0	0	0	0	0	0	0
Department of Transportation, total	254,245	118,642	112,315	848	17,053	0	744	0	4,643	0
Coast Guard	17,000	10,247	6,753	0	0	0	0	0	0	0
Federal Aviation Administration	60,657	26,891	25,595	0	8,171	0	0	0	0	0
Federal Highway Administration	153,633	73,008	75,458	248	2,432	0	744	0	1,743	0
Federal Railroad Administration	300	150	150	0	0	0	0	0	0	0
Federal Transit Administration	15,125	1,975	3,200	600	6,450	0	0	0	2,900	0
Office of the Secretary	4,475	4,475	0	0	0	0	0	0	0	0
Research & Special Programs Admin	3,055	1,896	1,159	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: fiscal year 2000

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural [1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other non-profit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Department of the Treasury, total	11,408	4,985	6,423	0	0	0	0	0	0	0
Bureau of Engraving & Printing	110	110	0	0	0	0	0	0	0	0
Internal Revenue Service	3,435	1,860	1,575	0	0	0	0	0	0	0
United States Customs Service	7,383	2,940	4,443	0	0	0	0	0	0	0
United States Mint	480	75	405	0	0	0	0	0	0	0
Department of Veterans Affairs	9,000	9,000	0	0	0	0	0	0	0	0
Other agencies:										
Consumer Product Safety Commission	146	96	50	0	0	0	0	0	0	0
Environmental Protection Agency	88,000	7,545	23,239	0	37,070	0	15,635	0	3,914	597
Internat'l Development Cooperation Agency, total	50,501	6,060	505	0	2,020	0	41,411	0	0	505
Agcy for Internat'l Development [4]	50,501	6,060	505	0	2,020	0	41,411	0	0	505
Library of Congress	1,230	705	500	0	25	0	0	0	0	0
National Aeronautics & Space Admin	4,978,322	1,247,012	2,762,180	2,497	139,095	592,453	196,662	780	5,459	32,184

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

2 The Defense Threat Reduction Agency (DTRA) was established on October 1, 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.

3 Data for fiscal years 1998-2000 from the Substance Abuse & Mental Health Services Administration (SAMHSA) are estimates based on SAMHSA's obligations by program activity budget and previously reported funding for development.

4 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 (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-1996). More accurate data for AID will be reported in future volumes of this survey.

NOTES: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

Beginning with Vol. 44, Department of Defense development obligations are reported in two categories: advanced technology and major systems.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-52. Federal funds for R&D plant, by agency: fiscal years 1998, 1999, and 2000

[Dollars in thousands]

Agency and subdivision	Obligations			Outlays		
	1998	Preliminary		1998	Preliminary	
		1999	2000		1999	2000
Total, all agencies	1,840,164	2,298,773	2,081,220	1,861,137	2,004,726	2,122,728
Departments:						
Department of Agriculture, total	89,788	120,751	111,242	159,113	160,400	140,950
Agricultural Research Service	86,302	115,751	106,242	95,033	115,742	110,795
Cooperative State Rsch, Ed, & Extension Svc	886	0	0	61,480	39,658	25,155
Forest Service	2,600	5,000	5,000	2,600	5,000	5,000
Department of Commerce, total	48,272	152,432	136,557	69,390	41,106	71,422
National Institute of Standards & Technology	21,372	139,010	106,796	42,490	27,684	41,661
National Oceanic & Atmospheric Administration	26,900	13,422	29,761	26,900	13,422	29,761
Department of Defense, total	65,763	108,361	33,404	39,729	61,865	38,535
Department of the Air Force	26,195	47,164	22,087	3,690	4,045	2,412
Department of the Army, total	3,936	4,051	209	4,118	4,145	1,754
Department of the Army, Military Functions	3,936	4,051	209	4,118	4,145	1,754
Department of the Navy	34,553	35,783	11,108	22,903	27,515	30,995
Defense Agencies, total	1,079	21,363	0	9,018	26,160	3,374
Ballistic Missile Defense Organization	890	21,235	0	7,819	25,154	2,504
Defense Logistics Agency	189	128	0	189	128	0
Washington Headquarters Services	0	0	0	1,010	878	870
Department of Energy	727,096	848,171	940,184	776,280	834,853	940,105
Department of Health & Human Services, total	286,276	379,605	213,911	156,889	249,667	275,690
Food & Drug Administration	28,094	11,350	31,750	13,000	22,000	19,000
Health Resources & Services Administration	855	875	785	855	875	785
National Institutes of Health	257,327	367,380	181,376	143,034	226,792	255,905
Department of the Interior, total	1,500	1,100	1,100	1,601	1,278	1,132
Minerals Management Service	1,500	1,100	1,100	1,601	1,278	1,132
Department of Transportation, total	17,617	15,394	13,582	21,291	17,495	15,569
Coast Guard	260	266	272	260	266	272
Federal Aviation Administration	14,290	14,290	12,800	18,949	16,036	14,141
Federal Highway Administration	2,000	10	10	1,084	496	756
Federal Railroad Administration	1,067	828	500	998	697	400
Department of the Treasury, total	125	125	125	125	125	125
United States Customs Service	125	125	125	125	125	125
Department of Veterans Affairs	382	277	999	1,219	6,100	5,200
Other agencies:						
Environmental Protection Agency	66,000	106,000	110,000	21,000	89,000	114,000
General Services Administration	0	46	0	0	837	0
National Aeronautics & Space Administration	350,000	361,400	324,900	320,000	330,000	320,000
National Science Foundation	184,345	201,111	191,216	292,000	209,000	197,000
Smithsonian Institution	3,000	4,000	4,000	2,500	3,000	3,000

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-53. Federal obligations for R&D plant, by agency and performer of the research and development the plant supports: fiscal year 1998

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural [1]	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other non-profit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Total, all agencies	1,840,164	475,261	487,733	45,581	139,496	663,620	10,867	12,148	5,458	0
Departments:										
Department of Agriculture, total	89,788	88,902	0	0	0	0	886	0	0	0
Agricultural Research Service	86,302	86,302	0	0	0	0	0	0	0	0
Cooperative State Research, Education, & Extension Service	886	0	0	0	0	0	886	0	0	0
Forest Service	2,600	2,600	0	0	0	0	0	0	0	0
Department of Commerce, total	48,272	48,272	0	0	0	0	0	0	0	0
Nat'l Inst of Standards & Tech	21,372	21,372	0	0	0	0	0	0	0	0
Nat'l Oceanic & Atmospheric Admin	26,900	26,900	0	0	0	0	0	0	0	0
Department of Defense, total	65,763	57,211	8,360	0	0	127	65	0	0	0
Department of the Air Force	26,195	23,369	2,826	0	0	0	0	0	0	0
Department of the Army	3,936	1,392	2,417	0	0	127	0	0	0	0
Department of the Navy	34,553	32,450	2,103	0	0	0	0	0	0	0
Defense Agencies, total	1,079	0	1,014	0	0	0	65	0	0	0
Ballistic Missile Defense Org	890	0	890	0	0	0	0	0	0	0
Defense Logistics Agency	189	0	124	0	0	0	65	0	0	0
Department of Energy	727,096	145	30,385	44,081	11,826	628,438	73	12,148	0	0
Dept of Health & Human Svcs, total	286,276	263,385	0	1,500	16,540	0	4,851	0	0	0
Food & Drug Administration	28,094	28,094	0	0	0	0	0	0	0	0
Health Resources & Services Admin	855	855	0	0	0	0	0	0	0	0
National Institutes of Health	257,327	234,436	0	1,500	16,540	0	4,851	0	0	0
Department of the Interior, total	1,500	224	1,276	0	0	0	0	0	0	0
Minerals Management Service	1,500	224	1,276	0	0	0	0	0	0	0
Department of Transportation, total	17,617	1,000	11,067	0	260	0	0	0	5,290	0
Coast Guard	260	0	0	0	260	0	0	0	0	0
Federal Aviation Administration	14,290	1,000	8,000	0	0	0	0	0	5,290	0
Federal Highway Administration	2,000	0	2,000	0	0	0	0	0	0	0
Federal Railroad Administration	1,067	0	1,067	0	0	0	0	0	0	0
Department of the Treasury, total	125	0	125	0	0	0	0	0	0	0
United States Customs Service	125	0	125	0	0	0	0	0	0	0
Department of Veterans Affairs	382	382	0	0	0	0	0	0	0	0
Other agencies:										
Environmental Protection Agency	66,000	0	66,000	0	0	0	0	0	0	0
National Aeronautics & Space Admin	350,000	9,689	328,311	0	0	12,000	0	0	0	0
National Science Foundation	184,345	3,051	42,209	0	110,870	23,055	4,992	0	168	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.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-54. Preliminary Federal obligations for R&D plant, by agency and performer of the research and development the plant supports: fiscal year 1999

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural [1]	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other non-profit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Total, all agencies	2,298,773	717,425	570,775	172,300	157,075	650,647	10,447	14,631	5,473	0
Departments:										
Department of Agriculture, total	120,751	120,751	0	0	0	0	0	0	0	0
Agricultural Research Service	115,751	115,751	0	0	0	0	0	0	0	0
Forest Service	5,000	5,000	0	0	0	0	0	0	0	0
Department of Commerce, total	152,432	152,432	0	0	0	0	0	0	0	0
Nat'l Inst of Standards & Tech	139,010	139,010	0	0	0	0	0	0	0	0
Nat'l Oceanic & Atmospheric Admin	13,422	13,422	0	0	0	0	0	0	0	0
Department of Defense, total	108,361	78,736	29,445	0	0	180	0	0	0	0
Department of the Air Force	47,164	44,159	3,005	0	0	0	0	0	0	0
Department of the Army	4,051	407	3,464	0	0	180	0	0	0	0
Department of the Navy	35,783	34,170	1,613	0	0	0	0	0	0	0
Defense Agencies, total	21,363	0	21,363	0	0	0	0	0	0	0
Ballistic Missile Defense Org	21,235	0	21,235	0	0	0	0	0	0	0
Defense Logistics Agency	128	0	128	0	0	0	0	0	0	0
Department of Energy	848,171	406	41,408	170,800	9,311	611,615	0	14,631	0	0
Dept of Health & Human Svcs, total	379,605	346,605	0	1,500	26,500	0	5,000	0	0	0
Food & Drug Administration	11,350	11,350	0	0	0	0	0	0	0	0
Health Resources & Services Admin	875	875	0	0	0	0	0	0	0	0
National Institutes of Health	367,380	334,380	0	1,500	26,500	0	5,000	0	0	0
Department of the Interior, total	1,100	200	900	0	0	0	0	0	0	0
Minerals Management Service	1,100	200	900	0	0	0	0	0	0	0
Department of Transportation, total	15,394	1,000	8,838	0	266	0	0	0	5,290	0
Coast Guard	266	0	0	0	266	0	0	0	0	0
Federal Aviation Administration	14,290	1,000	8,000	0	0	0	0	0	5,290	0
Federal Highway Administration	10	0	10	0	0	0	0	0	0	0
Federal Railroad Administration	828	0	828	0	0	0	0	0	0	0
Department of the Treasury, total	125	0	125	0	0	0	0	0	0	0
United States Customs Service	125	0	125	0	0	0	0	0	0	0
Department of Veterans Affairs	277	277	0	0	0	0	0	0	0	0
Other agencies:										
Environmental Protection Agency	106,000	0	106,000	0	0	0	0	0	0	0
General Services Administration	46	0	0	0	45	0	1	0	0	0
National Aeronautics & Space Admin	361,400	9,689	338,011	0	0	13,700	0	0	0	0
National Science Foundation	201,111	3,329	46,048	0	120,953	25,152	5,446	0	183	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.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-55. Preliminary Federal obligations for R&D plant, by agency and performer of the research and development the plant supports: fiscal year 2000

[Dollars in thousands]

Agency and subdivision	Total	Intra-mural [1]	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other non-profit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Total, all agencies	2,081,220	476,586	516,637	248,852	147,311	668,184	10,178	11,975	1,497	0
Departments:										
Department of Agriculture, total	111,242	111,242	0	0	0	0	0	0	0	0
Agricultural Research Service	106,242	106,242	0	0	0	0	0	0	0	0
Forest Service	5,000	5,000	0	0	0	0	0	0	0	0
Department of Commerce, total	136,557	136,557	0	0	0	0	0	0	0	0
Nat'l Inst of Standards & Tech	106,796	106,796	0	0	0	0	0	0	0	0
Nat'l Oceanic & Atmospheric Admin	29,761	29,761	0	0	0	0	0	0	0	0
Department of Defense, total	33,404	28,497	4,907	0	0	0	0	0	0	0
Department of the Air Force	22,087	19,438	2,649	0	0	0	0	0	0	0
Department of the Army	209	1	208	0	0	0	0	0	0	0
Department of the Navy	11,108	9,058	2,050	0	0	0	0	0	0	0
Department of Energy	940,184	430	40,420	247,352	5,537	634,470	0	11,975	0	0
Dept of Health & Human Svcs, total	213,911	180,911	0	1,500	26,500	0	5,000	0	0	0
Food & Drug Administration	31,750	31,750	0	0	0	0	0	0	0	0
Health Resources & Services Admin	785	785	0	0	0	0	0	0	0	0
National Institutes of Health	181,376	148,376	0	1,500	26,500	0	5,000	0	0	0
Department of the Interior, total	1,100	200	900	0	0	0	0	0	0	0
Minerals Management Service	1,100	200	900	0	0	0	0	0	0	0
Department of Transportation, total	13,582	896	11,091	0	272	0	0	0	1,323	0
Coast Guard	272	0	0	0	272	0	0	0	0	0
Federal Aviation Administration	12,800	896	10,581	0	0	0	0	0	1,323	0
Federal Highway Administration	10	0	10	0	0	0	0	0	0	0
Federal Railroad Administration	500	0	500	0	0	0	0	0	0	0
Department of the Treasury, total	125	0	125	0	0	0	0	0	0	0
United States Customs Service	125	0	125	0	0	0	0	0	0	0
Department of Veterans Affairs	999	999	0	0	0	0	0	0	0	0
Other agencies:										
Environmental Protection Agency	110,000	0	110,000	0	0	0	0	0	0	0
National Aeronautics & Space Admin	324,900	9,689	305,411	0	0	9,800	0	0	0	0
National Science Foundation	191,216	3,165	43,783	0	115,002	23,914	5,178	0	174	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.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-56. Federal obligations for research performed at universities and colleges for selected agencies, by detailed field of science and engineering: fiscal years 1998, 1999, and 2000

[Dollars in thousands]

Field of science and engineering	1998	Preliminary	
		1999	2000
Total, all fields	11,312,744	12,763,933	13,018,477
Life sciences, total	7,005,369	8,161,258	8,178,591
Biological (excluding environmental)	3,739,058	NA	NA
Environmental biology	158,273	NA	NA
Agricultural	171,963	NA	NA
Medical	2,714,380	NA	NA
Life sciences, n.e.c.	221,695	NA	NA
Psychology, total	297,318	337,571	355,757
Biological aspects	23,104	NA	NA
Social aspects	11,891	NA	NA
Psychological sciences, n.e.c.	262,323	NA	NA
Physical sciences, total	1,204,162	1,255,084	1,301,418
Astronomy	173,413	NA	NA
Chemistry	331,412	NA	NA
Physics	577,136	NA	NA
Physical sciences, n.e.c.	122,201	NA	NA
Environmental sciences, total	652,837	688,645	728,730
Atmospheric	165,621	NA	NA
Geological	171,408	NA	NA
Oceanography	197,197	NA	NA
Environmental sciences, n.e.c.	118,611	NA	NA
Mathematics & computer sciences, total	624,106	677,743	745,402
Mathematics	132,516	NA	NA
Computer sciences	470,433	NA	NA
Mathematics & computer sciences, n.e.c.	21,157	NA	NA
Engineering, total	993,735	1,034,969	1,085,836
Aeronautical	62,107	NA	NA
Astronautical	8,819	NA	NA
Chemical	73,351	NA	NA
Civil	47,407	NA	NA
Electrical	177,287	NA	NA
Mechanical	76,403	NA	NA
Metallurgy & materials	246,636	NA	NA
Engineering, n.e.c.	301,725	NA	NA
Social sciences, total	189,508	215,831	219,076
Anthropology	10,733	NA	NA
Economics	48,465	NA	NA
Political science	5,077	NA	NA
Sociology	13,846	NA	NA
Social sciences, n.e.c.	111,387	NA	NA
Other sciences, n.e.c.	345,709	392,832	403,667

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 fiscal years 1998, 1999, and 2000.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: NA = Not applicable (indicates that the data collected for this table were not recorded at that level in that particular fiscal year)
n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-57. Federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: fiscal year 1998

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psy-chology	Physical sciences	Environ-mental sciences	Mathe-matics and com-puter sciences	Engi-neering	Social sciences	Other sciences, n.e.c.
Total, all agencies	11,312,744	7,005,369	297,318	1,204,162	652,837	624,106	993,735	189,508	345,709
Departments:									
Department of Agriculture, total	408,122	329,627	0	17,670	2,294	610	14,416	43,505	0
Agricultural Marketing Service	274	274	0	0	0	0	0	0	0
Agricultural Research Service	34,704	30,662	0	3,261	178	49	554	0	0
Cooperative State Research, Education, & Extension Service	349,997	286,335	0	14,409	990	0	13,685	34,578	0
Economic Research Service	4,961	0	0	0	0	0	0	4,961	0
Foreign Agricultural Service	451	451	0	0	0	0	0	0	0
Forest Service	15,610	11,905	0	0	1,126	356	177	2,046	0
Nat'l Agricultural Statistics Svc	205	0	0	0	0	205	0	0	0
Rural Business-Cooperative Svc	1,920	0	0	0	0	0	0	1,920	0
Department of Defense, total	964,689	130,862	16,016	108,535	87,057	243,865	375,916	0	2,438
Department of the Air Force	85,722	7,352	318	23,798	125	17,123	37,006	0	0
Department of the Army	108,916	38,532	1,475	11,850	11,568	9,804	35,673	0	14
Department of the Navy	225,873	16,358	11,413	22,261	60,437	17,901	97,503	0	0
Defense Agencies, total	544,178	68,620	2,810	50,626	14,927	199,037	205,734	0	2,424
Ballistic Missile Defense Org	7,081	0	0	1,044	0	215	5,822	0	0
Defense Adv Rsch Projects Agcy	261,874	18,798	0	9,018	100	167,740	66,218	0	0
Defense Threat Reduction Agency[1]	2,414	0	0	0	0	0	157	0	2,257
Special Operations Command	1,363	0	0	0	0	0	1,196	0	167
Washington Headquarters Svcs	271,446	49,822	2,810	40,564	14,827	31,082	132,341	0	0
Department of Energy	563,536	78,829	0	332,245	64,424	9,893	77,736	0	409
Dept of Health & Human Svcs, total	6,854,037	6,094,445	271,329	101,409	18,133	22,627	50,368	72,852	222,874
Admin for Children & Families	9,874	0	0	0	0	0	0	9,874	0
Agcy for Hlth Care Policy & Rsch	37,020	28,272	2,024	0	0	1,808	0	2,995	1,921
Centers for Disease Control & Prevention	61,368	61,368	0	0	0	0	0	0	0
Food & Drug Administration	14,155	14,155	0	0	0	0	0	0	0
Health Care Financing Admin	5,329	5,329	0	0	0	0	0	0	0
Health Resources & Services Admin	7,529	7,529	0	0	0	0	0	0	0
National Institutes of Health	6,715,863	5,977,792	269,305	101,409	18,133	20,819	50,368	57,084	220,953
Office of the Secretary, total	2,899	0	0	0	0	0	0	2,899	0
Office of the Asst Secretary, Planning & Evaluation	2,899	0	0	0	0	0	0	2,899	0
Other agencies:									
National Aeronautics & Space Admin	647,500	50,446	5,755	261,719	184,945	21,602	92,225	299	30,509
National Science Foundation	1,874,860	321,160	4,218	382,584	295,984	325,509	383,074	72,852	89,479

[1] The Defense Threat Reduction Agency (DTRA) was established on October 1, 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.

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 96 percent of total Federal research obligations to universities and colleges in fiscal year 1998.

Data for only those agencies that had obligations in the variables represented by this in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-58. Preliminary Federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: fiscal year 1999

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psy-chology	Physical sciences	Environ-mental sciences	Mathe-matics and com-puter sciences	Engi-neering	Social sciences	Other sciences, n.e.c.
Total, all agencies	12,763,933	8,161,258	337,571	1,255,084	688,645	677,743	1,034,969	215,831	392,832
Departments:									
Department of Agriculture, total	529,192	432,228	0	20,954	2,429	595	19,469	53,517	0
Agricultural Research Service	41,434	36,628	0	3,880	212	59	655	0	0
Cooperative State Research, Education, & Extension Service	461,648	383,244	0	17,074	1,091	0	18,637	41,602	0
Economic Research Service	9,069	0	0	0	0	0	0	9,069	0
Foreign Agricultural Service	451	451	0	0	0	0	0	0	0
Forest Service	15,610	11,905	0	0	1,126	356	177	2,046	0
Nat'l Agricultural Statistics Svc	180	0	0	0	0	180	0	0	0
Rural Business-Cooperative Svc	800	0	0	0	0	0	0	800	0
Department of Defense, total	1,025,537	187,736	12,510	99,458	91,404	254,449	377,897	0	2,083
Department of the Air Force	101,437	8,907	192	14,529	70	23,264	54,475	0	0
Department of the Army	135,682	71,415	1,153	11,372	8,379	8,162	35,201	0	0
Department of the Navy	243,414	15,293	8,810	31,906	73,541	15,366	98,498	0	0
Defense Agencies, total	545,004	92,121	2,355	41,651	9,414	207,657	189,723	0	2,083
Ballistic Missile Defense Org	4,304	0	0	1,471	0	0	2,833	0	0
Defense Adv Rsch Projects Agcy	284,136	21,266	0	10,202	0	185,930	66,738	0	0
Defense Threat Reduction Agency[1]	2,208	0	0	0	0	0	144	0	2,064
Special Operations Command	897	0	0	0	0	0	878	0	19
Washington Headquarters Svcs	253,459	70,855	2,355	29,978	9,414	21,727	119,130	0	0
Department of Energy	565,628	79,869	0	334,627	62,990	17,067	68,107	0	2,968
Dept of Health & Human Svcs, total	7,936,304	7,058,229	314,440	117,765	21,057	25,876	58,492	82,156	258,289
Administration on Aging	600	0	0	0	0	0	0	600	0
Admin for Children & Families	9,549	0	0	0	0	0	0	9,549	0
Agcy for Hlth Care Policy & Rsch	33,957	26,147	1,698	0	0	1,698	0	2,716	1,698
Centers for Disease Control & Prevention	61,368	61,368	0	0	0	0	0	0	0
Food & Drug Administration	14,000	14,000	0	0	0	0	0	0	0
Health Care Financing Admin	7,000	7,000	0	0	0	0	0	0	0
Health Resources & Services Admin	7,755	7,755	0	0	0	0	0	0	0
National Institutes of Health	7,799,075	6,941,959	312,742	117,765	21,057	24,178	58,492	66,291	256,591
Office of the Secretary, total	3,000	0	0	0	0	0	0	3,000	0
Office of the Asst Secretary, Planning & Evaluation	3,000	0	0	0	0	0	0	3,000	0
Other agencies:									
National Aeronautics & Space Admin	647,500	50,222	5,979	261,719	184,945	21,602	91,301	299	31,433
National Science Foundation	2,059,772	352,974	4,642	420,561	325,820	358,154	419,703	79,859	98,059

[1] The Defense Threat Reduction Agency (DTRA) was established on October 1, 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.

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 fiscal year 1999.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-59. Preliminary Federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: fiscal year 2000

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psy-chology	Physical sciences	Environ-mental sciences	Mathe-matics and com-puter sciences	Engi-neering	Social sciences	Other sciences, n.e.c.
Total, all agencies	13,018,477	8,178,591	355,757	1,301,418	728,730	745,402	1,085,836	219,076	403,667
Departments:									
Department of Agriculture, total	468,349	382,321	0	19,159	2,258	585	19,493	44,533	0
Agricultural Research Service	34,393	30,404	0	3,220	176	49	544	0	0
Cooperative State Research, Education, & Extension Service	411,675	339,561	0	15,939	956	0	18,772	36,447	0
Economic Research Service	5,040	0	0	0	0	0	0	5,040	0
Foreign Agricultural Service	451	451	0	0	0	0	0	0	0
Forest Service	15,610	11,905	0	0	1,126	356	177	2,046	0
Nat'l Agricultural Statistics Svc	180	0	0	0	0	180	0	0	0
Rural Business-Cooperative Svc	1,000	0	0	0	0	0	0	1,000	0
Department of Defense, total	1,032,019	126,551	24,466	105,550	95,634	285,121	392,384	0	2,313
Department of the Air Force	106,097	10,078	145	17,023	0	28,328	50,523	0	0
Department of the Army	83,693	22,205	1,650	10,651	6,831	9,762	32,594	0	0
Department of the Navy	254,342	16,379	9,550	35,086	77,207	16,761	99,359	0	0
Defense Agencies, total	587,887	77,889	13,121	42,790	11,596	230,270	209,908	0	2,313
Ballistic Missile Defense Org	3,810	0	0	1,400	0	80	2,330	0	0
Defense Adv Rsch Projects Agcy	308,766	23,069	0	11,067	0	201,868	72,762	0	0
Defense Threat Reduction Agency[1]	2,456	0	0	0	0	0	160	0	2,296
Special Operations Command	834	0	0	0	0	0	817	0	17
Washington Headquarters Svcs	272,021	54,820	13,121	30,323	11,596	28,322	133,839	0	0
Department of Energy	575,023	57,459	0	342,812	73,427	25,938	75,387	0	0
Dept of Health & Human Svcs, total	8,081,497	7,182,722	320,031	119,798	21,421	26,484	59,502	88,629	262,910
Administration on Aging	500	0	0	0	0	0	0	500	0
Admin for Children & Families	14,671	0	0	0	0	0	0	14,671	0
Agcy for Hlth Care Policy & Rsch	37,793	29,100	1,890	0	0	1,890	0	3,023	1,890
Centers for Disease Control & Prevention	61,368	61,368	0	0	0	0	0	0	0
Food & Drug Administration	15,000	15,000	0	0	0	0	0	0	0
Health Care Financing Admin	7,700	7,700	0	0	0	0	0	0	0
Health Resources & Services Admin	7,755	7,755	0	0	0	0	0	0	0
National Institutes of Health	7,933,710	7,061,799	318,141	119,798	21,421	24,594	59,502	67,435	261,020
Office of the Secretary, total	3,000	0	0	0	0	0	0	3,000	0
Office of the Asst Secretary, Planning & Evaluation	3,000	0	0	0	0	0	0	3,000	0
Other agencies:									
National Aeronautics & Space Admin	647,500	49,943	6,258	261,719	184,945	21,602	89,382	299	33,352
National Science Foundation	2,214,089	379,595	5,002	452,380	351,045	385,672	449,688	85,615	105,092

[1] The Defense Threat Reduction Agency (DTRA) was established on October 1, 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.

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 fiscal year 2000.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-60. Federal obligations for research performed at universities and colleges in psychology and life sciences, by selected agency and detailed field of science: fiscal year 1998

[Dollars in thousands]

Agency and subdivision	Psychology				Life sciences					
	Total	Bio-logical aspects	Social aspects	Psycho-logical sciences, n.e.c.	Total	Bio-logical	Environ-mental biology	Agri-cultural	Medical	Life sciences, n.e.c.
Total, all agencies	297,318	23,104	11,891	262,323	7,005,369	3,739,058	158,273	171,963	2,714,380	221,695
Departments:										
Department of Agriculture, total	0	0	0	0	329,627	72,113	77,876	171,018	8,620	0
Agricultural Marketing Service	0	0	0	0	274	0	0	274	0	0
Agricultural Research Service	0	0	0	0	30,662	1,986	3,608	24,501	567	0
Cooperative State Research, Education, & Extension Service	0	0	0	0	286,335	62,897	69,593	145,792	8,053	0
Foreign Agricultural Service	0	0	0	0	451	0	0	451	0	0
Forest Service	0	0	0	0	11,905	7,230	4,675	0	0	0
Department of Defense, total	16,016	12,741	2,320	955	130,862	65,677	4,927	538	58,724	996
Department of the Air Force	318	0	306	12	7,352	6,680	0	0	672	0
Department of the Army	1,475	0	1,475	0	38,532	2,544	0	0	35,964	24
Department of the Navy	11,413	10,470	0	943	16,358	5,653	4,522	0	5,211	972
Defense Agencies, total	2,810	2,271	539	0	68,620	50,800	405	538	16,877	0
Defense Adv Rsch Projects Agcy	0	0	0	0	18,798	17,098	0	0	1,700	0
Washington Headquarters Svcs	2,810	2,271	539	0	49,822	33,702	405	538	15,177	0
Department of Energy	0	0	0	0	78,829	45,506	0	0	33,168	155
Dept of Health & Human Svcs, total	271,329	10,336	4,517	256,476	6,094,445	3,291,571	0	0	2,608,277	194,597
Agcy for Hlth Care Policy & Rsch	2,024	0	110	1,914	28,272	0	0	0	27,668	604
Centers for Disease Control & Prevention	0	0	0	0	61,368	0	0	0	61,368	0
Food & Drug Administration	0	0	0	0	14,155	14,155	0	0	0	0
Health Care Financing Admin	0	0	0	0	5,329	0	0	0	0	5,329
Health Resources & Services Admin	0	0	0	0	7,529	0	0	0	7,529	0
National Institutes of Health	269,305	10,336	4,407	254,562	5,977,792	3,277,416	0	0	2,511,712	188,664
Other agencies:										
National Aeronautics & Space Admin	5,755	27	836	4,892	50,446	16,866	1,635	407	5,591	25,947
National Science Foundation	4,218	0	4,218	0	321,160	247,325	73,835	0	0	0

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 96 percent of total Federal research obligations to universities and colleges in fiscal year 1998.

Data for only those agencies that had obligations in the variables represented by this in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-61. Federal obligations for research performed at universities and colleges in physical and environmental sciences, by selected agency and detailed field of science: fiscal year 1998

[Dollars in thousands]

Agency and subdivision	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences, n.e.c.	Total	Atmospheric	Geological	Oceanography	Environmental sciences, n.e.c.
Total, all agencies	1,204,162	173,413	331,412	577,136	122,201	652,837	165,621	171,408	197,197	118,611
Departments:										
Department of Agriculture, total	17,670	0	17,500	170	0	2,294	1,964	330	0	0
Agricultural Research Service	3,261	0	3,091	170	0	178	173	5	0	0
Cooperative State Research, Education, & Extension Service	14,409	0	14,409	0	0	990	990	0	0	0
Forest Service	0	0	0	0	0	1,126	801	325	0	0
Department of Defense, total	108,535	6,270	38,629	54,169	9,467	87,057	19,684	5,085	46,231	16,057
Department of the Air Force	23,798	0	8,295	15,503	0	125	0	0	0	125
Department of the Army	11,850	0	5,690	5,485	675	11,568	5,738	1,261	0	4,569
Department of the Navy	22,261	0	10,039	7,700	4,522	60,437	9,193	2,827	37,414	11,003
Defense Agencies, total	50,626	6,270	14,605	25,481	4,270	14,927	4,753	997	8,817	360
Ballistic Missile Defense Org	1,044	0	1,044	0	0	0	0	0	0	0
Defense Adv Rsch Projects Agcy	9,018	0	0	4,748	4,270	100	0	0	100	0
Washington Headquarters Svcs	40,564	6,270	13,561	20,733	0	14,827	4,753	997	8,717	360
Department of Energy	332,245	0	44,287	287,278	680	64,424	20,550	26,332	1,928	15,614
Dept of Health & Human Svcs, total	101,409	0	97,933	3,476	0	18,133	0	0	0	18,133
National Institutes of Health	101,409	0	97,933	3,476	0	18,133	0	0	0	18,133
Other agencies:										
National Aeronautics & Space Admin	261,719	128,219	10,367	104,588	18,545	184,945	56,821	60,802	9,094	58,228
National Science Foundation	382,584	38,924	122,696	127,455	93,509	295,984	66,602	78,859	139,944	10,579

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 96 percent of total Federal research obligations to universities and colleges in fiscal year 1998.

Data for only those agencies that had obligations in the variables represented by this in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-62. Federal obligations for research performed at universities and colleges in engineering, by selected agency and detailed field of engineering: fiscal year 1998

[Dollars in thousands]

Agency and subdivision	Total	Aero-nautical	Astro-nautical	Chemical	Civil	Elec-trical	Mechan-ical	Metal-lurgy and materials	Engi-neering, n.e.c.
Total, all agencies	993,735	62,107	8,819	73,351	47,407	177,287	76,403	246,636	301,725
Departments:									
Department of Agriculture, total	14,416	0	0	297	85	29	34	0	13,971
Agricultural Research Service	554	0	0	297	85	29	34	0	109
Cooperative State Research, Education, & Extension Service	13,685	0	0	0	0	0	0	0	13,685
Forest Service	177	0	0	0	0	0	0	0	177
Department of Defense, total	375,916	26,116	1,901	10,419	5,135	125,486	48,390	107,612	50,857
Department of the Air Force	37,006	15,549	1,014	0	250	12,161	3,178	3,669	1,185
Department of the Army	35,673	3,399	12	1,397	2,684	11,741	6,653	8,163	1,624
Department of the Navy	97,503	2,974	0	358	0	25,837	15,009	25,226	28,099
Defense Agencies, total	205,734	4,194	875	8,664	2,201	75,747	23,550	70,554	19,949
Ballistic Missile Defense Org	5,822	0	0	0	0	2,322	0	2,884	616
Defense Adv Rsch Projects Agcy	66,218	1,930	0	50	0	19,782	0	27,006	17,450
Defense Threat Reduction Agency[1]	157	0	0	0	0	0	0	0	157
Special Operations Command	1,196	0	0	0	0	0	0	0	1,196
Washington Headquarters Svcs	132,341	2,264	875	8,614	2,201	53,643	23,550	40,664	530
Department of Energy	77,736	0	0	20,968	5,536	3,605	10,470	18,904	18,253
Dept of Health & Human Svcs, total	50,368	0	0	0	0	0	0	0	50,368
National Institutes of Health	50,368	0	0	0	0	0	0	0	50,368
Other agencies:									
National Aeronautics & Space Admin	92,225	35,991	6,918	1,812	0	8,200	9,415	14,327	15,562
National Science Foundation	383,074	0	0	39,855	36,651	39,967	8,094	105,793	152,714

[1] The Defense Threat Reduction Agency (DTRA) was established on October 1, 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.

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 96 percent of total Federal research obligations to universities and colleges in fiscal year 1998.

Data for only those agencies that had obligations in the variables represented by this in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

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 of science: fiscal year 1998

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences, n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences, n.e.c.
Total, all agencies	624,106	132,516	470,433	21,157	189,508	10,733	48,465	5,077	13,846	111,387
Departments:										
Department of Agriculture, total	610	610	0	0	43,505	0	34,952	0	8,553	0
Agricultural Research Service	49	49	0	0	0	0	0	0	0	0
Cooperative State Research, Education, & Extension Service	0	0	0	0	34,578	0	26,353	0	8,225	0
Economic Research Service	0	0	0	0	4,961	0	4,961	0	0	0
Forest Service	356	356	0	0	2,046	0	1,718	0	328	0
Nat'l Agricultural Statistics Svc	205	205	0	0	0	0	0	0	0	0
Rural Business-Cooperative Svc	0	0	0	0	1,920	0	1,920	0	0	0
Department of Defense, total	243,865	29,183	198,192	16,490	0	0	0	0	0	0
Department of the Air Force	17,123	166	1,069	15,888	0	0	0	0	0	0
Department of the Army	9,804	2,771	6,646	387	0	0	0	0	0	0
Department of the Navy	17,901	7,915	9,986	0	0	0	0	0	0	0
Defense Agencies, total	199,037	18,331	180,491	215	0	0	0	0	0	0
Ballistic Missile Defense Org	215	0	0	215	0	0	0	0	0	0
Defense Adv Rsch Projects Agcy	167,740	8,664	159,076	0	0	0	0	0	0	0
Washington Headquarters Svcs	31,082	9,667	21,415	0	0	0	0	0	0	0
Department of Energy	9,893	7,280	2,613	0	0	0	0	0	0	0
Dept of Health & Human Svcs, total	22,627	10,301	12,326	0	72,852	0	456	0	921	71,475
Admin for Children & Families	0	0	0	0	9,874	0	0	0	0	9,874
Agcy for Hlth Care Policy & Rsch	1,808	308	1,500	0	2,995	0	456	0	921	1,618
National Institutes of Health	20,819	9,993	10,826	0	57,084	0	0	0	0	57,084
Office of the Secretary, total	0	0	0	0	2,899	0	0	0	0	2,899
Office of the Asst Secretary, Planning & Evaluation	0	0	0	0	2,899	0	0	0	0	2,899
Other agencies:										
National Aeronautics & Space Admin	21,602	816	16,119	4,667	299	0	0	0	162	137
National Science Foundation	325,509	84,326	241,183	0	72,852	10,733	13,057	5,077	4,210	39,775

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 96 percent of total Federal research obligations to universities and colleges in fiscal year 1998.

Data for only those agencies that had obligations in the variables represented by this in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-64. Federal obligations for basic research performed at universities and colleges for selected agencies, by detailed field of science and engineering: fiscal years 1998, 1999, and 2000

[Dollars in thousands]

Field of science and engineering	1998	Preliminary	
		1999	2000
Total, all fields	7,908,413	8,880,819	9,181,684
Life sciences, total	4,571,071	5,328,548	5,415,331
Biological (excluding environmental)	2,545,590	NA	NA
Environmental biology	97,824	NA	NA
Agricultural	83,923	NA	NA
Medical	1,701,561	NA	NA
Life sciences, n.e.c.	142,173	NA	NA
Psychology, total	200,953	228,309	243,146
Biological aspects	18,301	NA	NA
Social aspects	8,872	NA	NA
Psychological sciences, n.e.c.	173,780	NA	NA
Physical sciences, total	1,011,650	1,054,295	1,099,474
Astronomy	148,197	NA	NA
Chemistry	273,252	NA	NA
Physics	480,058	NA	NA
Physical sciences, n.e.c.	110,143	NA	NA
Environmental sciences, total	603,157	634,699	677,861
Atmospheric	154,124	NA	NA
Geological	170,002	NA	NA
Oceanography	186,390	NA	NA
Environmental sciences, n.e.c.	92,641	NA	NA
Mathematics & computer sciences, total	438,490	474,380	521,070
Mathematics	117,547	NA	NA
Computer sciences	301,055	NA	NA
Mathematics & computer sciences, n.e.c.	19,888	NA	NA
Engineering, total	722,362	751,941	797,857
Aeronautical	42,289	NA	NA
Astronautical	4,920	NA	NA
Chemical	45,072	NA	NA
Civil	25,340	NA	NA
Electrical	141,701	NA	NA
Mechanical	68,584	NA	NA
Metallurgy & materials	203,573	NA	NA
Engineering, n.e.c.	190,883	NA	NA
Social sciences, total	111,963	126,843	132,434
Anthropology	10,157	NA	NA
Economics	17,294	NA	NA
Political science	4,546	NA	NA
Sociology	5,781	NA	NA
Social sciences, n.e.c.	74,185	NA	NA
Other sciences, n.e.c.	248,767	281,804	294,511

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 approximately 99 percent of total Federal basic research obligations to universities and colleges in fiscal years 1998, 1999, and 2000.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: NA = Not applicable (indicates that the data collected for this table were not recorded at that level in that particular fiscal year)
n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-65. Federal obligations for basic research performed at universities and colleges, by selected agency and field of science and engineering: fiscal year 1998

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psy-chology	Physical sciences	Environ-mental sciences	Mathe-matics and com-puter sciences	Engi-neering	Social sciences	Other sciences, n.e.c.
Total, all agencies	7,908,413	4,571,071	200,953	1,011,650	603,157	438,490	722,362	111,963	248,767
Departments:									
Department of Agriculture, total	173,716	153,557	0	7,272	882	122	3,223	8,660	0
Agricultural Research Service	20,212	18,231	0	1,648	94	32	207	0	0
Cooperative State Research, Education, & Extension Service	149,481	132,218	0	5,624	503	0	2,972	8,164	0
Foreign Agricultural Service	203	203	0	0	0	0	0	0	0
Forest Service	3,820	2,905	0	0	285	90	44	496	0
Department of Defense, total	546,477	51,746	13,831	89,702	62,672	78,900	249,626	0	0
Department of the Air Force	68,477	7,352	0	19,310	0	15,767	26,048	0	0
Department of the Army	58,001	6,032	1,357	11,423	2,815	8,528	27,846	0	0
Department of the Navy	157,677	14,320	10,742	22,099	46,108	17,149	47,259	0	0
Defense Agencies, total	262,322	24,042	1,732	36,870	13,749	37,456	148,473	0	0
Defense Adv Rsch Projects Agcy	29,507	0	0	0	0	9,608	19,899	0	0
Washington Headquarters Svcs	232,815	24,042	1,732	36,870	13,749	27,848	128,574	0	0
Department of Energy	449,065	45,661	0	300,550	60,553	9,893	32,403	0	5
Dept of Health & Human Svcs, total	4,467,813	3,976,802	179,159	67,464	12,063	13,850	33,508	37,976	146,991
National Institutes of Health	4,467,813	3,976,802	179,159	67,464	12,063	13,850	33,508	37,976	146,991
Other agencies:									
National Aeronautics & Space Admin	495,494	36,015	3,763	178,838	172,307	15,367	66,396	299	22,509
National Science Foundation	1,775,848	307,290	4,200	367,824	294,680	320,358	337,206	65,028	79,262

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 approximately 99 percent of total Federal basic research obligations to universities and colleges in fiscal year 1998.

Data for only those agencies that had obligations in the variables represented by this in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-66. Preliminary Federal obligations for basic research performed at universities and colleges, by selected agency and field of science and engineering: fiscal year 1999

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psy-chology	Physical sciences	Environ-mental sciences	Mathe-matics and com-puter sciences	Engi-neering	Social sciences	Other sciences, n.e.c.
Total, all agencies	8,880,819	5,328,548	228,309	1,054,295	634,699	474,380	751,941	126,843	281,804
Departments:									
Department of Agriculture, total	238,783	213,384	0	8,974	980	129	4,528	10,788	0
Agricultural Research Service	24,587	22,177	0	2,005	114	39	252	0	0
Cooperative State Research, Education, & Extension Service	210,173	188,099	0	6,969	581	0	4,232	10,292	0
Foreign Agricultural Service	203	203	0	0	0	0	0	0	0
Forest Service	3,820	2,905	0	0	285	90	44	496	0
Department of Defense, total	547,628	70,787	11,363	82,218	63,660	72,998	246,602	0	0
Department of the Air Force	85,250	8,907	0	11,105	0	22,180	43,058	0	0
Department of the Army	53,645	6,449	1,072	11,009	2,635	7,702	24,778	0	0
Department of the Navy	163,638	12,616	7,936	31,697	51,611	14,466	45,312	0	0
Defense Agencies, total	245,095	42,815	2,355	28,407	9,414	28,650	133,454	0	0
Defense Adv Rsch Projects Agcy	21,261	0	0	0	0	6,923	14,338	0	0
Washington Headquarters Svcs	223,834	42,815	2,355	28,407	9,414	21,727	119,116	0	0
Department of Energy	448,316	45,839	0	300,842	59,282	17,067	25,286	0	0
Dept of Health & Human Svcs, total	5,195,393	4,624,421	208,335	78,450	14,027	16,106	38,965	44,160	170,929
National Institutes of Health	5,195,393	4,624,421	208,335	78,450	14,027	16,106	38,965	44,160	170,929
Other agencies:									
National Aeronautics & Space Admin	495,494	35,791	3,987	178,838	172,307	15,367	65,297	299	23,608
National Science Foundation	1,955,205	338,326	4,624	404,973	324,443	352,713	371,263	71,596	87,267

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 approximately 99 percent of total Federal basic research obligations to universities and colleges in fiscal year 1999.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-67. Preliminary Federal obligations for basic research performed at universities and colleges, by selected agency and field of science and engineering: fiscal year 2000

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psy-chology	Physical sciences	Environ-mental sciences	Mathe-matics and com-puter sciences	Engi-neering	Social sciences	Other sciences, n.e.c.
Total, all agencies	9,181,684	5,415,331	243,146	1,099,474	677,861	521,070	797,857	132,434	294,511
Departments:									
Department of Agriculture, total	226,804	202,307	0	8,571	920	122	4,779	10,105	0
Agricultural Research Service	20,409	18,409	0	1,664	95	32	209	0	0
Cooperative State Research, Education, & Extension Service	202,372	180,790	0	6,907	540	0	4,526	9,609	0
Foreign Agricultural Service	203	203	0	0	0	0	0	0	0
Forest Service	3,820	2,905	0	0	285	90	44	496	0
Department of Defense, total	597,316	70,403	22,189	88,521	71,003	83,176	262,024	0	0
Department of the Air Force	92,738	10,028	0	14,544	0	27,550	40,616	0	0
Department of the Army	55,166	6,706	1,549	10,330	3,810	7,344	25,427	0	0
Department of the Navy	180,136	13,888	8,737	34,892	56,815	15,924	49,880	0	0
Defense Agencies, total	269,276	39,781	11,903	28,755	10,378	32,358	146,101	0	0
Defense Adv Rsch Projects Agcy	23,605	0	0	0	0	7,686	15,919	0	0
Washington Headquarters Svcs	245,671	39,781	11,903	28,755	10,378	24,672	130,182	0	0
Department of Energy	475,533	43,215	0	307,405	69,742	25,938	29,233	0	0
Dept of Health & Human Svcs, total	5,279,513	4,699,297	211,708	79,720	14,254	16,366	39,596	44,875	173,697
National Institutes of Health	5,279,513	4,699,297	211,708	79,720	14,254	16,366	39,596	44,875	173,697
Other agencies:									
National Aeronautics & Space Admin	495,494	35,512	4,266	178,838	172,307	15,367	62,134	299	26,771
National Science Foundation	2,107,024	364,597	4,983	436,419	349,635	380,101	400,091	77,155	94,043

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 approximately 99 percent of total Federal basic research obligations to universities and colleges in fiscal year 2000.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-68. Federal obligations for basic research performed at universities and colleges in psychology and life sciences, by selected agency and detailed field of science: fiscal year 1998

[Dollars in thousands]

Agency and subdivision	Psychology				Life sciences					
	Total	Bio-logical aspects	Social aspects	Psycho-logical sciences, n.e.c.	Total	Bio-logical	Environ-mental biology	Agri-cultural	Medical	Life sciences, n.e.c.
Total, all agencies	200,953	18,301	8,872	173,780	4,571,071	2,545,590	97,824	83,923	1,701,561	142,173
Departments:										
Department of Agriculture, total	0	0	0	0	153,557	38,946	26,661	83,516	4,434	0
Agricultural Research Service	0	0	0	0	18,231	1,559	1,485	14,782	405	0
Cooperative State Research, Education, & Extension Service	0	0	0	0	132,218	35,617	24,041	68,531	4,029	0
Foreign Agricultural Service	0	0	0	0	203	0	0	203	0	0
Forest Service	0	0	0	0	2,905	1,770	1,135	0	0	0
Department of Defense, total	13,831	11,531	1,357	943	51,746	24,760	4,927	0	22,035	24
Department of the Air Force	0	0	0	0	7,352	6,680	0	0	672	0
Department of the Army	1,357	0	1,357	0	6,032	2,248	0	0	3,760	24
Department of the Navy	10,742	9,799	0	943	14,320	5,653	4,522	0	4,145	0
Defense Agencies, total	1,732	1,732	0	0	24,042	10,179	405	0	13,458	0
Washington Headquarters Svcs	1,732	1,732	0	0	24,042	10,179	405	0	13,458	0
Department of Energy	0	0	0	0	45,661	45,506	0	0	0	155
Dept of Health & Human Svcs, total	179,159	6,743	2,868	169,548	3,976,802	2,180,342	0	0	1,670,948	125,512
National Institutes of Health	179,159	6,743	2,868	169,548	3,976,802	2,180,342	0	0	1,670,948	125,512
Other agencies:										
National Aeronautics & Space Admin	3,763	27	447	3,289	36,015	14,003	979	407	4,144	16,482
National Science Foundation	4,200	0	4,200	0	307,290	242,033	65,257	0	0	0

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 approximately 99 percent of total Federal basic research obligations to universities and colleges in fiscal year 1998.

Data for only those agencies that had obligations in the variables represented by this in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-69. Federal obligations for basic research performed at universities and colleges in physical and environmental sciences, by selected agency and detailed field of science: fiscal year 1998

[Dollars in thousands]

Agency and subdivision	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences, n.e.c.	Total	Atmospheric	Geological	Oceanography	Environmental sciences, n.e.c.
Total, all agencies	1,011,650	148,197	273,252	480,058	110,143	603,157	154,124	170,002	186,390	92,641
Departments:										
Department of Agriculture, total	7,272	0	7,193	79	0	882	800	82	0	0
Agricultural Research Service	1,648	0	1,569	79	0	94	92	2	0	0
Cooperative State Research, Education, & Extension Service	5,624	0	5,624	0	0	503	503	0	0	0
Forest Service	0	0	0	0	0	285	205	80	0	0
Department of Defense, total	89,702	6,270	33,816	44,419	5,197	62,672	13,990	4,953	36,249	7,480
Department of the Air Force	19,310	0	8,066	11,244	0	0	0	0	0	0
Department of the Army	11,423	0	5,305	5,443	675	2,815	1,304	1,129	0	382
Department of the Navy	22,099	0	10,039	7,538	4,522	46,108	8,292	2,827	27,891	7,098
Defense Agencies, total	36,870	6,270	10,406	20,194	0	13,749	4,394	997	8,358	0
Washington Headquarters Svcs	36,870	6,270	10,406	20,194	0	13,749	4,394	997	8,358	0
Department of Energy	300,550	0	39,621	260,929	0	60,553	20,550	26,332	1,928	11,743
Dept of Health & Human Svcs, total	67,464	0	65,152	2,312	0	12,063	0	0	0	12,063
National Institutes of Health	67,464	0	65,152	2,312	0	12,063	0	0	0	12,063
Other agencies:										
National Aeronautics & Space Admin	178,838	103,004	9,858	49,400	16,576	172,307	52,234	60,343	8,848	50,882
National Science Foundation	367,824	38,923	117,612	122,919	88,370	294,680	66,550	78,292	139,365	10,473

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 approximately 99 percent of total Federal basic research obligations to universities and colleges in fiscal year 1998.

Data for only those agencies that had obligations in the variables represented by this in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-70. Federal obligations for basic research performed at universities and colleges in engineering, by selected agency and detailed field of engineering: fiscal year 1998

[Dollars in thousands]

Agency and subdivision	Total	Aero-nautical	Astro-nautical	Chemical	Civil	Elec-trical	Mechan-ical	Metal-lurgy and materials	Engi-neering, n.e.c.
Total, all agencies	722,362	42,289	4,920	45,072	25,340	141,701	68,584	203,573	190,883
Departments:									
Department of Agriculture, total	3,223	0	0	106	34	20	13	0	3,050
Agricultural Research Service	207	0	0	106	34	20	13	0	34
Cooperative State Research, Education, & Extension Service	2,972	0	0	0	0	0	0	0	2,972
Forest Service	44	0	0	0	0	0	0	0	44
Department of Defense, total	249,626	15,563	1,889	8,960	2,854	96,658	42,956	70,236	10,510
Department of the Air Force	26,048	9,951	1,014	0	0	8,433	3,000	2,643	1,007
Department of the Army	27,846	3,348	0	1,151	1,458	9,757	4,396	7,736	0
Department of the Navy	47,259	0	0	0	0	11,372	12,815	13,569	9,503
Defense Agencies, total	148,473	2,264	875	7,809	1,396	67,096	22,745	46,288	0
Defense Adv Rsch Projects Agcy	19,899	0	0	0	0	14,275	0	5,624	0
Washington Headquarters Svcs	128,574	2,264	875	7,809	1,396	52,821	22,745	40,664	0
Department of Energy	32,403	0	0	3,336	0	0	10,438	18,629	0
Dept of Health & Human Svcs, total	33,508	0	0	0	0	0	0	0	33,508
National Institutes of Health	33,508	0	0	0	0	0	0	0	33,508
Other agencies:									
National Aeronautics & Space Admin	66,396	26,726	3,031	1,465	0	5,506	8,079	12,786	8,803
National Science Foundation	337,206	0	0	31,205	22,452	39,517	7,098	101,922	135,012

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 approximately 99 percent of total Federal basic research obligations to universities and colleges in fiscal year 1998.

Data for only those agencies that had obligations in the variables represented by this in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

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 of science: fiscal year 1998

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences, n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences, n.e.c.
Total, all agencies	438,490	117,547	301,055	19,888	111,963	10,157	17,294	4,546	5,781	74,185
Departments:										
Department of Agriculture, total	122	122	0	0	8,660	0	6,477	0	2,183	0
Agricultural Research Service	32	32	0	0	0	0	0	0	0	0
Cooperative State Research, Education, & Extension Service	0	0	0	0	8,164	0	6,061	0	2,103	0
Forest Service	90	90	0	0	496	0	416	0	80	0
Department of Defense, total	78,900	18,651	44,227	16,022	0	0	0	0	0	0
Department of the Air Force	15,767	0	0	15,767	0	0	0	0	0	0
Department of the Army	8,528	2,686	5,587	255	0	0	0	0	0	0
Department of the Navy	17,149	7,915	9,234	0	0	0	0	0	0	0
Defense Agencies, total	37,456	8,050	29,406	0	0	0	0	0	0	0
Defense Adv Rsch Projects Agcy	9,608	0	9,608	0	0	0	0	0	0	0
Washington Headquarters Svcs	27,848	8,050	19,798	0	0	0	0	0	0	0
Department of Energy	9,893	7,280	2,613	0	0	0	0	0	0	0
Dept of Health & Human Svcs, total	13,850	6,648	7,202	0	37,976	0	0	0	0	37,976
National Institutes of Health	13,850	6,648	7,202	0	37,976	0	0	0	0	37,976
Other agencies:										
National Aeronautics & Space Admin	15,367	716	10,785	3,866	299	0	0	0	162	137
National Science Foundation	320,358	84,130	236,228	0	65,028	10,157	10,817	4,546	3,436	36,072

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 approximately 99 percent of total Federal basic research obligations to universities and colleges in fiscal year 1998.

Data for only those agencies that had obligations in the variables represented by this in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-72. Federal obligations for applied research performed at universities and colleges for selected agencies, by detailed field of science and engineering: fiscal years 1998, 1999, and 2000

[Dollars in thousands]

Field of science and engineering	1998	Preliminary	
		1999	2000
Total, all fields	3,404,331	3,883,114	3,836,793
Life sciences, total	2,434,298	2,832,710	2,763,260
Biological (excluding environmental)	1,193,468	NA	NA
Environmental biology	60,449	NA	NA
Agricultural	88,040	NA	NA
Medical	1,012,819	NA	NA
Life sciences, n.e.c.	79,522	NA	NA
Psychology, total	96,365	109,262	112,611
Biological aspects	4,803	NA	NA
Social aspects	3,019	NA	NA
Psychological sciences, n.e.c.	88,543	NA	NA
Physical sciences, total	192,512	200,789	201,944
Astronomy	25,216	NA	NA
Chemistry	58,160	NA	NA
Physics	97,078	NA	NA
Physical sciences, n.e.c.	12,058	NA	NA
Environmental sciences, total	49,680	53,946	50,869
Atmospheric	11,497	NA	NA
Geological	1,406	NA	NA
Oceanography	10,807	NA	NA
Environmental sciences, n.e.c.	25,970	NA	NA
Mathematics & computer sciences, total	185,616	203,363	224,332
Mathematics	14,969	NA	NA
Computer sciences	169,378	NA	NA
Mathematics & computer sciences, n.e.c.	1,269	NA	NA
Engineering, total	271,373	283,028	287,979
Aeronautical	19,818	NA	NA
Astronautical	3,899	NA	NA
Chemical	28,279	NA	NA
Civil	22,067	NA	NA
Electrical	35,586	NA	NA
Mechanical	7,819	NA	NA
Metallurgy & materials	43,063	NA	NA
Engineering, n.e.c.	110,842	NA	NA
Social sciences, total	77,545	88,988	86,642
Anthropology	576	NA	NA
Economics	31,171	NA	NA
Political science	531	NA	NA
Sociology	8,065	NA	NA
Social sciences, n.e.c.	37,202	NA	NA
Other sciences, n.e.c.	96,942	111,028	109,156

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 91 percent of total Federal applied research obligations to universities and colleges in fiscal years 1998, 1999, and 2000.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: NA = Not applicable (indicates that the data collected for this table were not recorded at that level in that particular fiscal year)
n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-73. Federal obligations for applied research performed at universities and colleges, by selected agency and field of science and engineering: fiscal year 1998

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psy-chology	Physical sciences	Environ-mental sciences	Mathe-matics and com-puter sciences	Engi-neering	Social sciences	Other sciences, n.e.c.
Total, all agencies	3,404,331	2,434,298	96,365	192,512	49,680	185,616	271,373	77,545	96,942
Departments:									
Department of Agriculture, total	234,406	176,070	0	10,398	1,412	488	11,193	34,845	0
Agricultural Marketing Service	274	274	0	0	0	0	0	0	0
Agricultural Research Service	14,492	12,431	0	1,613	84	17	347	0	0
Cooperative State Research, Education, & Extension Service	200,516	154,117	0	8,785	487	0	10,713	26,414	0
Economic Research Service	4,961	0	0	0	0	0	0	4,961	0
Foreign Agricultural Service	248	248	0	0	0	0	0	0	0
Forest Service	11,790	9,000	0	0	841	266	133	1,550	0
Nat'l Agricultural Statistics Svc	205	0	0	0	0	205	0	0	0
Rural Business-Cooperative Svc	1,920	0	0	0	0	0	0	1,920	0
Department of Defense, total	418,212	79,116	2,185	18,833	24,385	164,965	126,290	0	2,438
Department of the Air Force	17,245	0	318	4,488	125	1,356	10,958	0	0
Department of the Army	50,915	32,500	118	427	8,753	1,276	7,827	0	14
Department of the Navy	68,196	2,038	671	162	14,329	752	50,244	0	0
Defense Agencies, total	281,856	44,578	1,078	13,756	1,178	161,581	57,261	0	2,424
Ballistic Missile Defense Org	7,081	0	0	1,044	0	215	5,822	0	0
Defense Adv Rsch Projects Agcy	232,367	18,798	0	9,018	100	158,132	46,319	0	0
Defense Threat Reduction Agency[1]	2,414	0	0	0	0	0	157	0	2,257
Special Operations Command	1,363	0	0	0	0	0	1,196	0	167
Washington Headquarters Svcs	38,631	25,780	1,078	3,694	1,078	3,234	3,767	0	0
Department of Energy	114,471	33,168	0	31,695	3,871	0	45,333	0	404
Dept of Health & Human Svcs, total	2,386,224	2,117,643	92,170	33,945	6,070	8,777	16,860	34,876	75,883
Admin for Children & Families	9,874	0	0	0	0	0	0	9,874	0
Agcy for Hlth Care Policy & Rsch	37,020	28,272	2,024	0	0	1,808	0	2,995	1,921
Centers for Disease Control & Prevention	61,368	61,368	0	0	0	0	0	0	0
Food & Drug Administration	14,155	14,155	0	0	0	0	0	0	0
Health Care Financing Admin	5,329	5,329	0	0	0	0	0	0	0
Health Resources & Services Admin	7,529	7,529	0	0	0	0	0	0	0
National Institutes of Health	2,248,050	2,000,990	90,146	33,945	6,070	6,969	16,860	19,108	73,962
Office of the Secretary, total	2,899	0	0	0	0	0	0	2,899	0
Office of the Asst Secretary, Planning & Evaluation	2,899	0	0	0	0	0	0	2,899	0
Other agencies:									
National Aeronautics & Space Admin	152,006	14,431	1,992	82,881	12,638	6,235	25,829	0	8,000
National Science Foundation	99,012	13,870	18	14,760	1,304	5,151	45,868	7,824	10,217

[1] The Defense Threat Reduction Agency (DTRA) was established on October 1, 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.

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 90 percent of total Federal applied research obligations to universities and colleges in fiscal year 1998.

Data for only those agencies that had obligations in the variables represented by this in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-74. Preliminary Federal obligations for applied research performed at universities and colleges, by selected agency and field of science and engineering: fiscal year 1999

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psy-chology	Physical sciences	Environ-mental sciences	Mathe-matics and com-puter sciences	Engi-neering	Social sciences	Other sciences, n.e.c.
Total, all agencies	3,883,114	2,832,710	109,262	200,789	53,946	203,363	283,028	88,988	111,028
Departments:									
Department of Agriculture, total	290,409	218,844	0	11,980	1,449	466	14,941	42,729	0
Agricultural Research Service	16,847	14,451	0	1,875	98	20	403	0	0
Cooperative State Research, Education, & Extension Service	251,475	195,145	0	10,105	510	0	14,405	31,310	0
Economic Research Service	9,069	0	0	0	0	0	0	9,069	0
Foreign Agricultural Service	248	248	0	0	0	0	0	0	0
Forest Service	11,790	9,000	0	0	841	266	133	1,550	0
Nat'l Agricultural Statistics Svc	180	0	0	0	0	180	0	0	0
Rural Business-Cooperative Svc	800	0	0	0	0	0	0	800	0
Department of Defense, total	477,909	116,949	1,147	17,240	27,744	181,451	131,295	0	2,083
Department of the Air Force	16,187	0	192	3,424	70	1,084	11,417	0	0
Department of the Army	82,037	64,966	81	363	5,744	460	10,423	0	0
Department of the Navy	79,776	2,677	874	209	21,930	900	53,186	0	0
Defense Agencies, total	299,909	49,306	0	13,244	0	179,007	56,269	0	2,083
Ballistic Missile Defense Org	4,304	0	0	1,471	0	0	2,833	0	0
Defense Adv Rsch Projects Agcy	262,875	21,266	0	10,202	0	179,007	52,400	0	0
Defense Threat Reduction Agency[1]	2,208	0	0	0	0	0	144	0	2,064
Special Operations Command	897	0	0	0	0	0	878	0	19
Washington Headquarters Svcs	29,625	28,040	0	1,571	0	0	14	0	0
Department of Energy	117,312	34,030	0	33,785	3,708	0	42,821	0	2,968
Dept of Health & Human Svcs, total	2,740,911	2,433,808	106,105	39,315	7,030	9,770	19,527	37,996	87,360
Administration on Aging	600	0	0	0	0	0	0	600	0
Admin for Children & Families	9,549	0	0	0	0	0	0	9,549	0
Agcy for Hlth Care Policy & Rsch	33,957	26,147	1,698	0	0	1,698	0	2,716	1,698
Centers for Disease Control & Prevention	61,368	61,368	0	0	0	0	0	0	0
Food & Drug Administration	14,000	14,000	0	0	0	0	0	0	0
Health Care Financing Admin	7,000	7,000	0	0	0	0	0	0	0
Health Resources & Services Admin	7,755	7,755	0	0	0	0	0	0	0
National Institutes of Health	2,603,682	2,317,538	104,407	39,315	7,030	8,072	19,527	22,131	85,662
Office of the Secretary, total	3,000	0	0	0	0	0	0	3,000	0
Office of the Asst Secretary, Planning & Evaluation	3,000	0	0	0	0	0	0	3,000	0
Other agencies:									
National Aeronautics & Space Admin	152,006	14,431	1,992	82,881	12,638	6,235	26,004	0	7,825
National Science Foundation	104,567	14,648	18	15,588	1,377	5,441	48,440	8,263	10,792

[1] The Defense Threat Reduction Agency (DTRA) was established on October 1, 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.

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 91 percent of total Federal applied research obligations to universities and colleges in fiscal year 1999.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-75. Preliminary Federal obligations for applied research performed at universities and colleges, by selected agency and field of science and engineering: fiscal year 2000

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psy-chology	Physical sciences	Environ-mental sciences	Mathe-matics and com-puter sciences	Engi-neering	Social sciences	Other sciences, n.e.c.
Total, all agencies	3,836,793	2,763,260	112,611	201,944	50,869	224,332	287,979	86,642	109,156
Departments:									
Department of Agriculture, total	241,545	180,014	0	10,588	1,338	463	14,714	34,428	0
Agricultural Research Service	13,984	11,995	0	1,556	81	17	335	0	0
Cooperative State Research, Education, & Extension Service	209,303	158,771	0	9,032	416	0	14,246	26,838	0
Economic Research Service	5,040	0	0	0	0	0	0	5,040	0
Foreign Agricultural Service	248	248	0	0	0	0	0	0	0
Forest Service	11,790	9,000	0	0	841	266	133	1,550	0
Nat'l Agricultural Statistics Svc	180	0	0	0	0	180	0	0	0
Rural Business-Cooperative Svc	1,000	0	0	0	0	0	0	1,000	0
Department of Defense, total	434,703	56,148	2,277	17,029	24,631	201,945	130,360	0	2,313
Department of the Air Force	13,359	50	145	2,479	0	778	9,907	0	0
Department of the Army	28,527	15,499	101	321	3,021	2,418	7,167	0	0
Department of the Navy	74,206	2,491	813	194	20,392	837	49,479	0	0
Defense Agencies, total	318,611	38,108	1,218	14,035	1,218	197,912	63,807	0	2,313
Ballistic Missile Defense Org	3,810	0	0	1,400	0	80	2,330	0	0
Defense Adv Rsch Projects Agcy	285,161	23,069	0	11,067	0	194,182	56,843	0	0
Defense Threat Reduction Agency[1]	2,456	0	0	0	0	0	160	0	2,296
Special Operations Command	834	0	0	0	0	0	817	0	17
Washington Headquarters Svcs	26,350	15,039	1,218	1,568	1,218	3,650	3,657	0	0
Department of Energy	99,490	14,244	0	35,407	3,685	0	46,154	0	0
Dept of Health & Human Svcs, total	2,801,984	2,483,425	108,323	40,078	7,167	10,118	19,906	43,754	89,213
Administration on Aging	500	0	0	0	0	0	0	500	0
Admin for Children & Families	14,671	0	0	0	0	0	0	14,671	0
Agcy for Hlth Care Policy & Rsch	37,793	29,100	1,890	0	0	1,890	0	3,023	1,890
Centers for Disease Control & Prevention	61,368	61,368	0	0	0	0	0	0	0
Food & Drug Administration	15,000	15,000	0	0	0	0	0	0	0
Health Care Financing Admin	7,700	7,700	0	0	0	0	0	0	0
Health Resources & Services Admin	7,755	7,755	0	0	0	0	0	0	0
National Institutes of Health	2,654,197	2,362,502	106,433	40,078	7,167	8,228	19,906	22,560	87,323
Office of the Secretary, total	3,000	0	0	0	0	0	0	3,000	0
Office of the Asst Secretary, Planning & Evaluation	3,000	0	0	0	0	0	0	3,000	0
Other agencies:									
National Aeronautics & Space Admin	152,006	14,431	1,992	82,881	12,638	6,235	27,248	0	6,581
National Science Foundation	107,065	14,998	19	15,961	1,410	5,571	49,597	8,460	11,049

[1] The Defense Threat Reduction Agency (DTRA) was established on October 1, 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.

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 91 percent of total Federal applied research obligations to universities and colleges in fiscal year 2000.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-76. Federal obligations for applied research performed at universities and colleges in psychology and life sciences, by selected agency and detailed field of science: fiscal year 1998

[Dollars in thousands]

Agency and subdivision	Psychology				Life sciences					
	Total	Bio-logical aspects	Social aspects	Psycho-logical sciences, n.e.c.	Total	Bio-logical	Environ-mental biology	Agri-cultural	Medical	Life sciences, n.e.c.
Total, all agencies	96,365	4,803	3,019	88,543	2,434,298	1,193,468	60,449	88,040	1,012,819	79,522
Departments:										
Department of Agriculture, total	0	0	0	0	176,070	33,167	51,215	87,502	4,186	0
Agricultural Marketing Service	0	0	0	0	274	0	0	274	0	0
Agricultural Research Service	0	0	0	0	12,431	427	2,123	9,719	162	0
Cooperative State Research, Education, & Extension Service	0	0	0	0	154,117	27,280	45,552	77,261	4,024	0
Foreign Agricultural Service	0	0	0	0	248	0	0	248	0	0
Forest Service	0	0	0	0	9,000	5,460	3,540	0	0	0
Department of Defense, total	2,185	1,210	963	12	79,116	40,917	0	538	36,689	972
Department of the Air Force	318	0	306	12	0	0	0	0	0	0
Department of the Army	118	0	118	0	32,500	296	0	0	32,204	0
Department of the Navy	671	671	0	0	2,038	0	0	0	1,066	972
Defense Agencies, total	1,078	539	539	0	44,578	40,621	0	538	3,419	0
Defense Adv Rsch Projects Agcy	0	0	0	0	18,798	17,098	0	0	1,700	0
Washington Headquarters Svcs	1,078	539	539	0	25,780	23,523	0	538	1,719	0
Department of Energy	0	0	0	0	33,168	0	0	0	33,168	0
Dept of Health & Human Svcs, total	92,170	3,593	1,649	86,928	2,117,643	1,111,229	0	0	937,329	69,085
Agcy for Hlth Care Policy & Rsch	2,024	0	110	1,914	28,272	0	0	0	27,668	604
Centers for Disease Control & Prevention	0	0	0	0	61,368	0	0	0	61,368	0
Food & Drug Administration	0	0	0	0	14,155	14,155	0	0	0	0
Health Care Financing Admin	0	0	0	0	5,329	0	0	0	0	5,329
Health Resources & Services Admin	0	0	0	0	7,529	0	0	0	7,529	0
National Institutes of Health	90,146	3,593	1,539	85,014	2,000,990	1,097,074	0	0	840,764	63,152
Other agencies:										
National Aeronautics & Space Admin	1,992	0	389	1,603	14,431	2,863	656	0	1,447	9,465
National Science Foundation	18	0	18	0	13,870	5,292	8,578	0	0	0

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 90 percent of total Federal applied research obligations to universities and colleges in fiscal year 1998.

Data for only those agencies that had obligations in the variables represented by this in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-77. Federal obligations for applied research performed at universities and colleges in physical and environmental sciences, by selected agency and detailed field of science: fiscal year 1998

[Dollars in thousands]

Agency and subdivision	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences, n.e.c.	Total	Atmospheric	Geological	Oceanography	Environmental sciences, n.e.c.
Total, all agencies	192,512	25,216	58,160	97,078	12,058	49,680	11,497	1,406	10,807	25,970
Departments:										
Department of Agriculture, total	10,398	0	10,307	91	0	1,412	1,164	248	0	0
Agricultural Research Service	1,613	0	1,522	91	0	84	81	3	0	0
Cooperative State Research, Education, & Extension Service	8,785	0	8,785	0	0	487	487	0	0	0
Forest Service	0	0	0	0	0	841	596	245	0	0
Department of Defense, total	18,833	0	4,813	9,750	4,270	24,385	5,694	132	9,982	8,577
Department of the Air Force	4,488	0	229	4,259	0	125	0	0	0	125
Department of the Army	427	0	385	42	0	8,753	4,434	132	0	4,187
Department of the Navy	162	0	0	162	0	14,329	901	0	9,523	3,905
Defense Agencies, total	13,756	0	4,199	5,287	4,270	1,178	359	0	459	360
Ballistic Missile Defense Org	1,044	0	1,044	0	0	0	0	0	0	0
Defense Adv Rsch Projects Agcy	9,018	0	0	4,748	4,270	100	0	0	100	0
Washington Headquarters Svcs	3,694	0	3,155	539	0	1,078	359	0	359	360
Department of Energy	31,695	0	4,666	26,349	680	3,871	0	0	0	3,871
Dept of Health & Human Svcs, total	33,945	0	32,781	1,164	0	6,070	0	0	0	6,070
National Institutes of Health	33,945	0	32,781	1,164	0	6,070	0	0	0	6,070
Other agencies:										
National Aeronautics & Space Admin	82,881	25,215	509	55,188	1,969	12,638	4,587	459	246	7,346
National Science Foundation	14,760	1	5,084	4,536	5,139	1,304	52	567	579	106

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 90 percent of total Federal applied research obligations to universities and colleges in fiscal year 1998.

Data for only those agencies that had obligations in the variables represented by this in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-78. Federal obligations for applied research performed at universities and colleges in engineering, by selected agency and detailed field of engineering: fiscal year 1998

[Dollars in thousands]

Agency and subdivision	Total	Aero-nautical	Astro-nautical	Chemical	Civil	Elec-trical	Mechan-ical	Metal-lurgy and materials	Engi-neering, n.e.c.
Total, all agencies	271,373	19,818	3,899	28,279	22,067	35,586	7,819	43,063	110,842
Departments:									
Department of Agriculture, total	11,193	0	0	191	51	9	21	0	10,921
Agricultural Research Service	347	0	0	191	51	9	21	0	75
Cooperative State Research, Education, & Extension Service	10,713	0	0	0	0	0	0	0	10,713
Forest Service	133	0	0	0	0	0	0	0	133
Department of Defense, total	126,290	10,553	12	1,459	2,281	28,828	5,434	37,376	40,347
Department of the Air Force	10,958	5,598	0	0	250	3,728	178	1,026	178
Department of the Army	7,827	51	12	246	1,226	1,984	2,257	427	1,624
Department of the Navy	50,244	2,974	0	358	0	14,465	2,194	11,657	18,596
Defense Agencies, total	57,261	1,930	0	855	805	8,651	805	24,266	19,949
Ballistic Missile Defense Org	5,822	0	0	0	0	2,322	0	2,884	616
Defense Adv Rsch Projects Agcy	46,319	1,930	0	50	0	5,507	0	21,382	17,450
Defense Threat Reduction Agency[1]	157	0	0	0	0	0	0	0	157
Special Operations Command	1,196	0	0	0	0	0	0	0	1,196
Washington Headquarters Svcs	3,767	0	0	805	805	822	805	0	530
Department of Energy	45,333	0	0	17,632	5,536	3,605	32	275	18,253
Dept of Health & Human Svcs, total	16,860	0	0	0	0	0	0	0	16,860
National Institutes of Health	16,860	0	0	0	0	0	0	0	16,860
Other agencies:									
National Aeronautics & Space Admin	25,829	9,265	3,887	347	0	2,694	1,336	1,541	6,759
National Science Foundation	45,868	0	0	8,650	14,199	450	996	3,871	17,702

[1] The Defense Threat Reduction Agency (DTRA) was established on October 1, 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.

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 90 percent of total Federal applied research obligations to universities and colleges in fiscal year 1998.

Data for only those agencies that had obligations in the variables represented by this in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

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 of science: fiscal year 1998

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences, n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences, n.e.c.
Total, all agencies	185,616	14,969	169,378	1,269	77,545	576	31,171	531	8,065	37,202
Departments:										
Department of Agriculture, total	488	488	0	0	34,845	0	28,475	0	6,370	0
Agricultural Research Service	17	17	0	0	0	0	0	0	0	0
Cooperative State Research, Education, & Extension Service	0	0	0	0	26,414	0	20,292	0	6,122	0
Economic Research Service	0	0	0	0	4,961	0	4,961	0	0	0
Forest Service	266	266	0	0	1,550	0	1,302	0	248	0
Nat'l Agricultural Statistics Svc	205	205	0	0	0	0	0	0	0	0
Rural Business-Cooperative Svc	0	0	0	0	1,920	0	1,920	0	0	0
Department of Defense, total	164,965	10,532	153,965	468	0	0	0	0	0	0
Department of the Air Force	1,356	166	1,069	121	0	0	0	0	0	0
Department of the Army	1,276	85	1,059	132	0	0	0	0	0	0
Department of the Navy	752	0	752	0	0	0	0	0	0	0
Defense Agencies, total	161,581	10,281	151,085	215	0	0	0	0	0	0
Ballistic Missile Defense Org	215	0	0	215	0	0	0	0	0	0
Defense Adv Rsch Projects Agcy	158,132	8,664	149,468	0	0	0	0	0	0	0
Washington Headquarters Svcs	3,234	1,617	1,617	0	0	0	0	0	0	0
Dept of Health & Human Svcs, total	8,777	3,653	5,124	0	34,876	0	456	0	921	33,499
Admin for Children & Families	0	0	0	0	9,874	0	0	0	0	9,874
Agcy for Hlth Care Policy & Rsch	1,808	308	1,500	0	2,995	0	456	0	921	1,618
National Institutes of Health	6,969	3,345	3,624	0	19,108	0	0	0	0	19,108
Office of the Secretary, total	0	0	0	0	2,899	0	0	0	0	2,899
Office of the Asst Secretary, Planning & Evaluation	0	0	0	0	2,899	0	0	0	0	2,899
Other agencies:										
National Aeronautics & Space Admin	6,235	100	5,334	801	0	0	0	0	0	0
National Science Foundation	5,151	196	4,955	0	7,824	576	2,240	531	774	3,703

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 90 percent of total Federal applied research obligations to universities and colleges in fiscal year 1998.

Data for only those agencies that had obligations in the variables represented by this in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-80. Federal obligations for research and development to foreign performers, by region, country, and agency: fiscal year 1998

[Dollars in thousands]

Region and country	Total	USDA	DoD	DOE	HHS	AID[1]	NASA	NSF	Other[2]
Total, all areas & organizations	299,132	4,050	167,413	2,010	41,567	21,142	47,496	9,194	6,260
Africa, total	5,983	0	3,177	0	671	2,135	0	0	0
Egypt	4,282	0	2,147	0	0	2,135	0	0	0
Kenya	930	0	930	0	0	0	0	0	0
South Africa	218	0	100	0	118	0	0	0	0
Other Africa	553	0	0	0	553	0	0	0	0
North America, total	47,579	746	6,268	425	20,054	0	14,780	3,914	1,392
Bermuda	2,899	0	21	0	0	0	0	2,878	0
Canada	40,440	27	6,247	425	17,569	0	14,780	0	1,392
Costa Rica	930	0	0	0	930	0	0	0	0
Jamaica	1,101	0	0	0	1,042	0	0	59	0
Mexico	1,070	0	0	0	93	0	0	977	0
Panama	719	719	0	0	0	0	0	0	0
Trinidad and Tobago	420	0	0	0	420	0	0	0	0
South America, total	3,499	561	1,120	0	586	0	682	550	0
Argentina	597	537	0	0	60	0	0	0	0
Brazil	2,111	24	1,011	0	526	0	0	550	0
Chile	682	0	0	0	0	0	682	0	0
Peru	109	0	109	0	0	0	0	0	0
Asia, total	102,333	27	97,996	0	3,325	611	94	0	280
Afghanistan	3,354	0	3,354	0	0	0	0	0	0
Bangladesh	48	0	0	0	48	0	0	0	0
China	753	0	0	0	593	0	0	0	160
India	122	0	4	0	118	0	0	0	0
Indonesia	456	0	456	0	0	0	0	0	0
Israel	95,351	0	93,230	0	1,991	0	10	0	120
Japan	1,286	0	862	0	340	0	84	0	0
Korea, Democratic People's Republic of	35	0	35	0	0	0	0	0	0
Korea, Republic of	35	0	35	0	0	0	0	0	0
Viet Nam	20	0	20	0	0	0	0	0	0
Other Asia	873	27	0	0	235	611	0	0	0
Europe, total	106,124	2,712	56,516	1,585	13,179	0	22,814	4,730	4,588
Austria	2,594	0	62	344	38	0	0	2,150	0
Belgium	807	0	267	0	540	0	0	0	0
Denmark	813	0	32	0	732	0	0	49	0
Finland	511	0	0	0	511	0	0	0	0
France	6,457	1,884	455	0	1,172	0	72	1,520	1,354
Germany	4,618	1	2,517	0	0	0	1,323	684	93
Hungary	15	0	15	0	0	0	0	0	0
Iceland	25	0	25	0	0	0	0	0	0
Ireland	4,446	0	3,437	0	1,009	0	0	0	0
Italy	1,467	0	136	138	880	0	13	0	300
Latvia	33	0	33	0	0	0	0	0	0
Netherlands	1,032	0	370	0	187	0	475	0	0
Norway	5,106	0	2,157	0	0	0	1,590	0	1,359
Poland	101	1	0	0	0	0	0	0	100
Russian Federation	5,178	0	5,178	0	0	0	0	0	0
Spain	12,451	1	4	0	56	0	12,390	0	0
Sweden	7,077	0	3,631	0	1,673	0	1,598	175	0
Switzerland	3,859	800	0	0	1,822	0	522	0	715
Ukraine	13	0	13	0	0	0	0	0	0
United Kingdom	45,024	15	37,883	1,103	4,559	0	910	152	402
Other Europe	4,497	10	301	0	0	0	3,921	0	265

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: fiscal year 1998

[Dollars in thousands]

Region and country	Total	USDA	DoD	DOE	HHS	AID[1]	NASA	NSF	Other[2]
Oceania, total	15,082	4	2,336	0	3,616	0	9,126	0	0
Australia	14,525	4	2,336	0	3,078	0	9,107	0	0
New Zealand	557	0	0	0	538	0	19	0	0
International Organizations	18,532	0	0	0	136	18,396	0	0	0

1 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 (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-1996). More accurate data for AID will be reported in future volumes of this survey.

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

NOTES: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

Prior to the Vol. 48 survey cycle, the National Science Foundation's Division of Science Resources Studies 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.

KEY:
USDA = Department of Agriculture
DoD = Department of Defense
DOE = Department of Energy
HHS = Department of Health & Human Services
AID = Agency for International Development
NASA = National Aeronautics & Space Administration
NSF = National Science Foundation

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-81. Federal obligations for basic research to foreign performers, by region, country, and agency: fiscal year 1998

[Dollars in thousands]

Region and country	Total	USDA	DoD	DOE	HHS	AID[1]	EPA	NASA	NSF
Total, all areas & organizations	50,374	1,672	9,974	1,064	23,014	218	299	4,939	9,194
Africa, total	180	0	0	0	180	0	0	0	0
South Africa	55	0	0	0	55	0	0	0	0
Other Africa	125	0	0	0	125	0	0	0	0
North America, total	20,192	381	1,839	399	11,385	0	25	2,249	3,914
Bermuda	2,899	0	21	0	0	0	0	0	2,878
Canada	14,595	0	1,818	399	10,104	0	25	2,249	0
Costa Rica	470	0	0	0	470	0	0	0	0
Jamaica	584	0	0	0	525	0	0	0	59
Mexico	1,024	0	0	0	47	0	0	0	977
Panama	381	381	0	0	0	0	0	0	0
Trinidad and Tobago	239	0	0	0	239	0	0	0	0
South America, total	994	295	0	0	149	0	0	0	550
Argentina	339	285	0	0	54	0	0	0	0
Brazil	655	10	0	0	95	0	0	0	550
Asia, total	3,594	0	1,628	0	1,900	0	35	31	0
Bangladesh	27	0	0	0	27	0	0	0	0
China	316	0	0	0	296	0	20	0	0
India	67	0	0	0	67	0	0	0	0
Israel	2,054	0	821	0	1,214	0	15	4	0
Japan	993	0	772	0	194	0	0	27	0
Korea, Republic of	35	0	35	0	0	0	0	0	0
Other Asia	102	0	0	0	102	0	0	0	0
Europe, total	22,137	996	5,543	665	7,339	0	239	2,625	4,730
Austria	2,501	0	7	344	0	0	0	0	2,150
Belgium	308	0	0	0	308	0	0	0	0
Denmark	498	0	32	0	417	0	0	0	49
Finland	291	0	0	0	291	0	0	0	0
France	3,396	995	233	0	515	0	119	14	1,520
Germany	976	1	186	0	0	0	12	93	684
Hungary	15	0	15	0	0	0	0	0	0
Ireland	680	0	105	0	575	0	0	0	0
Italy	700	0	56	138	502	0	0	4	0
Netherlands	273	0	158	0	107	0	0	8	0
Norway	321	0	8	0	0	0	0	313	0
Russian Federation	76	0	76	0	0	0	0	0	0
Spain	36	0	4	0	32	0	0	0	0
Sweden	1,960	0	113	0	954	0	0	718	175
Switzerland	1,297	0	0	0	1,039	0	91	167	0
United Kingdom	7,762	0	4,550	183	2,599	0	11	267	152
Other Europe	1,047	0	0	0	0	0	6	1,041	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: fiscal year 1998

[Dollars in thousands]

Region and country	Total	USDA	DoD	DOE	HHS	AID[1]	EPA	NASA	NSF
Oceania, total	3,059	0	964	0	2,061	0	0	34	0
Australia	2,752	0	964	0	1,754	0	0	34	0
New Zealand	307	0	0	0	307	0	0	0	0
International Organizations	218	0	0	0	0	218	0	0	0

[1] 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 (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-1996). More accurate data for AID will be reported in future volumes of this survey.

NOTES: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

Prior to the Vol. 48 survey cycle, the National Science Foundation's Division of Science Resources Studies 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.

KEY:
USDA = Department of Agriculture
DoD = Department of Defense
DOE = Department of Energy
HHS = Department of Health & Human Services
AID = Agency for International Development
EPA = Environmental Protection Agency
NASA = National Aeronautics & Space Administration
NSF = National Science Foundation

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-82. Federal obligations for research and development and for R&D plant for selected agencies, by State: fiscal year 1998 (revised)

[Dollars in thousands]

State	Research, development, and R&D plant	Research and development	R&D plant
Total	72,349,653	70,512,996	1,836,657
Alabama	2,051,454	2,012,829	38,625
Alaska	110,705	106,939	3,766
Arizona	993,257	985,734	7,523
Arkansas	115,563	97,026	18,537
California	12,642,223	12,215,846	426,377
Colorado	1,399,429	1,334,209	65,220
Connecticut	694,899	692,341	2,558
Delaware	46,003	45,214	789
District of Columbia	2,242,273	2,229,086	13,187
Florida	2,818,726	2,752,371	66,355
Georgia	3,446,388	3,442,612	3,776
Hawaii	164,761	160,826	3,935
Idaho	225,090	213,625	11,465
Illinois	1,280,140	1,127,553	152,587
Indiana	380,819	377,735	3,084
Iowa	243,261	236,084	7,177
Kansas	129,253	128,697	556
Kentucky	188,955	188,955	0
Louisiana	253,961	223,555	30,406
Maine	105,474	103,901	1,573
Maryland	8,271,607	7,964,210	307,397
Massachusetts	3,122,958	3,112,271	10,687
Michigan	751,403	748,443	2,960
Minnesota	810,603	807,083	3,520
Mississippi	327,927	280,366	47,561
Missouri	934,769	930,735	4,034
Montana	82,679	80,670	2,009
Nebraska	85,832	84,982	850
Nevada	293,741	290,853	2,888
New Hampshire	272,101	269,132	2,969
New Jersey	1,491,664	1,459,570	32,094
New Mexico	2,005,510	1,891,565	113,945
New York	2,673,981	2,551,833	122,148
North Carolina	955,082	924,652	30,430
North Dakota	55,296	52,088	3,208
Ohio	5,653,437	5,562,227	91,210
Oklahoma	178,097	175,497	2,600
Oregon	317,875	314,710	3,165
Pennsylvania	1,904,200	1,886,258	17,942
Rhode Island	399,369	385,411	13,958
South Carolina	193,447	186,221	7,226
South Dakota	46,589	46,003	586
Tennessee	649,964	621,155	28,809
Texas	4,146,558	4,110,756	35,802
Utah	394,287	392,807	1,480
Vermont	57,702	57,596	106
Virginia	4,721,556	4,667,864	53,692
Washington	1,258,666	1,244,174	14,492
West Virginia	255,439	242,844	12,595
Wisconsin	333,314	332,203	1,111
Wyoming	34,215	33,549	666
Outlying areas	115,009	111,908	3,101
Puerto Rico	64,149	61,938	2,211
Other areas	50,860	49,970	890
Offices abroad	22,142	18,222	3,920

NOTE: 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 R&D supporting agencies included in this table represent approximately 98 percent of total Federal R&D and R&D plant obligations in fiscal year 1998.

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-83. Federal obligations for research and development for selected agencies, by State and performer: fiscal year 1998 (revised)

[Dollars in thousands]

State (in order of total Federal research & development obligations)	Total	Intra-mural [1]	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other non-profit institu-tions	FFRDCs admin by nonprofit institu-tions	State and local govts
Total	70,512,996	16,544,621	31,764,775	1,174,386	13,189,193	3,879,236	2,934,878	602,808	423,099
California	12,215,846	1,595,270	5,937,882	13,220	1,886,772	2,017,569	519,452	120,883	124,798
Maryland	7,964,210	4,766,005	2,054,921	163,223	798,113	0	178,769	0	3,179
Ohio	5,562,227	698,173	4,388,253	0	344,724	0	125,380	0	5,697
Virginia	4,667,864	1,480,464	2,694,070	879	244,283	61,895	43,793	135,732	6,748
Texas	4,110,756	596,978	2,741,834	0	691,377	0	69,230	1,496	9,841
Georgia	3,442,612	235,596	2,920,561	0	270,814	0	10,287	0	5,354
Massachusetts	3,112,271	301,193	991,701	0	823,426	221,292	706,800	63,007	4,852
Florida	2,752,371	749,648	1,683,990	0	299,747	0	10,708	0	8,278
New York	2,551,833	191,988	709,033	0	1,121,737	213,181	221,286	0	94,608
District of Columbia	2,229,086	1,717,704	202,014	350	151,507	2,036	150,383	2,119	2,973
Alabama	2,012,829	752,619	878,065	0	225,263	130,201	24,312	0	2,369
New Mexico	1,891,565	395,908	170,514	614,018	85,267	608,320	15,147	0	2,391
Pennsylvania	1,886,258	132,927	702,304	219	853,437	16,884	173,970	0	6,517
New Jersey	1,459,570	392,554	784,488	0	218,031	37,387	17,106	6,082	3,922
Colorado	1,334,209	202,224	604,876	0	278,740	65,204	54,822	123,027	5,316
Washington	1,244,174	183,685	427,331	0	355,630	0	121,688	149,770	6,070
Illinois	1,127,553	71,946	82,221	0	504,232	398,996	61,529	0	8,629
Arizona	985,734	138,493	636,632	0	159,883	36,485	7,777	0	6,464
Missouri	930,735	48,544	560,924	0	294,459	0	22,202	0	4,606
North Carolina	924,652	235,873	121,168	0	499,001	0	63,610	0	5,000
Minnesota	807,083	38,437	472,522	0	196,262	0	93,791	0	6,071
Michigan	748,443	111,457	160,127	0	450,082	0	17,989	0	8,788
Connecticut	692,341	18,257	379,213	0	265,433	0	23,557	0	5,881
Tennessee	621,155	37,925	54,239	307,181	181,024	10,256	27,685	0	2,845
Utah	392,807	135,365	111,547	0	142,514	0	1,296	0	2,085
Rhode Island	385,411	222,106	78,082	0	60,182	0	22,978	0	2,063
Indiana	377,735	38,023	142,363	0	189,882	200	3,318	0	3,949
Wisconsin	332,203	38,021	16,017	0	265,640	0	8,233	0	4,292
Oregon	314,710	87,846	24,915	0	171,995	0	20,849	0	9,105
Nevada	290,853	48,514	211,316	0	25,268	0	4,107	0	1,648
Mississippi	280,366	132,896	70,301	0	67,535	0	7,886	0	1,748
New Hampshire	269,132	33,959	163,677	0	69,064	0	1,669	0	763
West Virginia	242,844	96,682	84,815	0	26,830	30,448	868	0	3,201
Iowa	236,084	32,701	24,757	0	150,856	20,824	4,093	0	2,853
Louisiana	223,555	84,315	20,104	0	111,713	0	4,117	0	3,306
Idaho	213,625	25,042	108,599	57,105	20,652	0	1,337	0	890
Kentucky	188,955	6,591	99,613	0	73,577	0	1,708	0	7,466
South Carolina	186,221	44,872	22,122	18,191	92,443	0	2,583	692	5,318
Oklahoma	175,497	51,038	54,017	0	60,570	0	7,988	0	1,884
Hawaii	160,826	54,776	30,246	0	52,256	0	21,777	0	1,771
Kansas	128,697	24,757	19,642	0	78,444	0	1,210	0	4,644
Alaska	106,939	44,010	17,637	0	29,598	0	3,707	0	11,987
Maine	103,901	10,953	44,317	0	15,190	0	31,050	0	2,391
Arkansas	97,026	45,895	2,199	0	44,974	0	2,488	0	1,470
Nebraska	84,982	28,873	2,104	0	46,328	0	6,572	0	1,105
Montana	80,670	33,101	9,897	0	32,949	0	3,149	0	1,574
Vermont	57,596	4,171	12,827	0	37,865	0	1,483	0	1,250
North Dakota	52,088	27,360	376	0	21,036	0	1,145	0	2,171
South Dakota	46,003	27,501	6,083	0	9,429	0	2,125	0	865
Delaware	45,214	3,722	7,877	0	29,971	0	3,042	0	602

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: fiscal year 1998 (revised)

[Dollars in thousands]

State (in order of total Federal research & development obligations)	Total	Intra-mural [1]	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other non-profit institu-tions	FFRDCs admin by nonprofit institu-tions	State and local govts
Wyoming	33,549	11,991	1,108	0	16,758	0	2,827	0	865
Outlying areas	111,908	40,238	16,847	0	46,129	8,058	0	0	636
Puerto Rico	61,938	7,476	51	0	45,718	8,058	0	0	635
Other areas	49,970	32,762	16,796	0	411	0	0	0	1
Offices abroad	18,222	15,434	2,487	0	301	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.

NOTE: 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 R&D supporting agencies included in this table represent approximately 98 percent of total Federal R&D obligations in fiscal year 1998.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-83a. Percentage distribution of Federal obligations for research and development to each performer for selected agencies, by State: fiscal year 1998 (revised)

State (in order of total Federal research & development obligations)	Total	Intra-mural [1]	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other non-profit institu-tions	FFRDCs admin by nonprofit institu-tions	State and local govts
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
California	17.3	9.6	18.7	1.1	14.3	52.0	17.7	20.1	29.5
Maryland	11.3	28.8	6.5	13.9	6.1	.0	6.1	.0	.8
Ohio	7.9	4.2	13.8	.0	2.6	.0	4.3	.0	1.3
Virginia	6.6	8.9	8.5	.1	1.9	1.6	1.5	22.5	1.6
Texas	5.8	3.6	8.6	.0	5.2	.0	2.4	.2	2.3
Georgia	4.9	1.4	9.2	.0	2.1	.0	.4	.0	1.3
Massachusetts	4.4	1.8	3.1	.0	6.2	5.7	24.1	10.5	1.1
Florida	3.9	4.5	5.3	.0	2.3	.0	.4	.0	2.0
New York	3.6	1.2	2.2	.0	8.5	5.5	7.5	.0	22.4
District of Columbia	3.2	10.4	.6	*	1.1	.1	5.1	.4	.7
Alabama	2.9	4.5	2.8	.0	1.7	3.4	.8	.0	.6
New Mexico	2.7	2.4	.5	52.3	.6	15.7	.5	.0	.6
Pennsylvania	2.7	.8	2.2	*	6.5	.4	5.9	.0	1.5
New Jersey	2.1	2.4	2.5	.0	1.7	1.0	.6	1.0	.9
Colorado	1.9	1.2	1.9	.0	2.1	1.7	1.9	20.4	1.3
Washington	1.8	1.1	1.3	.0	2.7	.0	4.1	24.8	1.4
Illinois	1.6	.4	.3	.0	3.8	10.3	2.1	.0	2.0
Arizona	1.4	.8	2.0	.0	1.2	.9	.3	.0	1.5
Missouri	1.3	.3	1.8	.0	2.2	.0	.8	.0	1.1
North Carolina	1.3	1.4	.4	.0	3.8	.0	2.2	.0	1.2
Minnesota	1.1	.2	1.5	.0	1.5	.0	3.2	.0	1.4
Michigan	1.1	.7	.5	.0	3.4	.0	.6	.0	2.1
Connecticut	1.0	.1	1.2	.0	2.0	.0	.8	.0	1.4
Tennessee	.9	.2	.2	26.2	1.4	.3	.9	.0	.7
Utah	.6	.8	.4	.0	1.1	.0	*	.0	.5
Rhode Island	.5	1.3	.2	.0	.5	.0	.8	.0	.5
Indiana	.5	.2	.4	.0	1.4	*	.1	.0	.9
Wisconsin	.5	.2	.1	.0	2.0	.0	.3	.0	1.0
Oregon	.4	.5	.1	.0	1.3	.0	.7	.0	2.2
Nevada	.4	.3	.7	.0	.2	.0	.1	.0	.4
Mississippi	.4	.8	.2	.0	.5	.0	.3	.0	.4
New Hampshire	.4	.2	.5	.0	.5	.0	.1	.0	.2
West Virginia	.3	.6	.3	.0	.2	.8	*	.0	.8
Iowa	.3	.2	.1	.0	1.1	.5	.1	.0	.7
Louisiana	.3	.5	.1	.0	.8	.0	.1	.0	.8
Idaho	.3	.2	.3	4.9	.2	.0	*	.0	.2
Kentucky	.3	*	.3	.0	.6	.0	.1	.0	1.8
South Carolina	.3	.3	.1	1.5	.7	.0	.1	.1	1.3
Oklahoma	.2	.3	.2	.0	.5	.0	.3	.0	.4
Hawaii	.2	.3	.1	.0	.4	.0	.7	.0	.4
Kansas	.2	.1	.1	.0	.6	.0	*	.0	1.1
Alaska	.2	.3	.1	.0	.2	.0	.1	.0	2.8
Maine	.1	.1	.1	.0	.1	.0	1.1	.0	.6
Arkansas	.1	.3	*	.0	.3	.0	.1	.0	.3
Nebraska	.1	.2	*	.0	.4	.0	.2	.0	.3
Montana	.1	.2	*	.0	.2	.0	.1	.0	.4
Vermont	.1	*	*	.0	.3	.0	.1	.0	.3
North Dakota	.1	.2	*	.0	.2	.0	*	.0	.5
South Dakota	.1	.2	*	.0	.1	.0	.1	.0	.2
Delaware	.1	*	*	.0	.2	.0	.1	.0	.1

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: fiscal year 1998 (revised)

State (in order of total Federal research & development obligations)	Total	Intra-mural [1]	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other non-profit institu-tions	FFRDCs admin by nonprofit institu-tions	State and local govts
Wyoming	*	0.1	*	.0	0.1	.0	0.1	.0	0.2
Outlying areas	0.2	.2	0.1	.0	.3	0.2	.0	.0	.2
Puerto Rico	.1	*	*	.0	.3	.2	.0	.0	.2
Other areas	.1	.2	.1	.0	*	.0	.0	.0	*
Offices abroad	*	.1	*	.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.

NOTE: 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 R&D supporting agencies included in this table represent approximately 98 percent of total Federal R&D obligations in fiscal year 1998.

KEY: * = Amount less than .05 percent
FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-83b. Percentage distribution of Federal obligations for research and development to each State for selected agencies, by performer: fiscal year 1998 (revised)

State (in order of total Federal research & development obligations)	Total	Intra-mural [1]	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other non-profit institu-tions	FFRDCs admin by nonprofit institu-tions	State and local govts
Total	100.0	23.5	45.0	1.7	18.7	5.5	4.2	0.9	0.6
California	100.0	13.1	48.6	.1	15.4	16.5	4.3	1.0	1.0
Maryland	100.0	59.8	25.8	2.0	10.0	.0	2.2	.0	*
Ohio	100.0	12.6	78.9	.0	6.2	.0	2.3	.0	.1
Virginia	100.0	31.7	57.7	*	5.2	1.3	.9	2.9	.1
Texas	100.0	14.5	66.7	.0	16.8	.0	1.7	*	.2
Georgia	100.0	6.8	84.8	.0	7.9	.0	.3	.0	.2
Massachusetts	100.0	9.7	31.9	.0	26.5	7.1	22.7	2.0	.2
Florida	100.0	27.2	61.2	.0	10.9	.0	.4	.0	.3
New York	100.0	7.5	27.8	.0	44.0	8.4	8.7	.0	3.7
District of Columbia	100.0	77.1	9.1	*	6.8	.1	6.7	.1	.1
Alabama	100.0	37.4	43.6	.0	11.2	6.5	1.2	.0	.1
New Mexico	100.0	20.9	9.0	32.5	4.5	32.2	.8	.0	.1
Pennsylvania	100.0	7.0	37.2	*	45.2	.9	9.2	.0	.3
New Jersey	100.0	26.9	53.7	.0	14.9	2.6	1.2	.4	.3
Colorado	100.0	15.2	45.3	.0	20.9	4.9	4.1	9.2	.4
Washington	100.0	14.8	34.3	.0	28.6	.0	9.8	12.0	.5
Illinois	100.0	6.4	7.3	.0	44.7	35.4	5.5	.0	.8
Arizona	100.0	14.0	64.6	.0	16.2	3.7	.8	.0	.7
Missouri	100.0	5.2	60.3	.0	31.6	.0	2.4	.0	.5
North Carolina	100.0	25.5	13.1	.0	54.0	.0	6.9	.0	.5
Minnesota	100.0	4.8	58.5	.0	24.3	.0	11.6	.0	.8
Michigan	100.0	14.9	21.4	.0	60.1	.0	2.4	.0	1.2
Connecticut	100.0	2.6	54.8	.0	38.3	.0	3.4	.0	.8
Tennessee	100.0	6.1	8.7	49.5	29.1	1.7	4.5	.0	.5
Utah	100.0	34.5	28.4	.0	36.3	.0	.3	.0	.5
Rhode Island	100.0	57.6	20.3	.0	15.6	.0	6.0	.0	.5
Indiana	100.0	10.1	37.7	.0	50.3	.1	.9	.0	1.0
Wisconsin	100.0	11.4	4.8	.0	80.0	.0	2.5	.0	1.3
Oregon	100.0	27.9	7.9	.0	54.7	.0	6.6	.0	2.9
Nevada	100.0	16.7	72.7	.0	8.7	.0	1.4	.0	.6
Mississippi	100.0	47.4	25.1	.0	24.1	.0	2.8	.0	.6
New Hampshire	100.0	12.6	60.8	.0	25.7	.0	.6	.0	.3
West Virginia	100.0	39.8	34.9	.0	11.0	12.5	.4	.0	1.3
Iowa	100.0	13.9	10.5	.0	63.9	8.8	1.7	.0	1.2
Louisiana	100.0	37.7	9.0	.0	50.0	.0	1.8	.0	1.5
Idaho	100.0	11.7	50.8	26.7	9.7	.0	.6	.0	.4
Kentucky	100.0	3.5	52.7	.0	38.9	.0	.9	.0	4.0
South Carolina	100.0	24.1	11.9	9.8	49.6	.0	1.4	.4	2.9
Oklahoma	100.0	29.1	30.8	.0	34.5	.0	4.6	.0	1.1
Hawaii	100.0	34.1	18.8	.0	32.5	.0	13.5	.0	1.1
Kansas	100.0	19.2	15.3	.0	61.0	.0	.9	.0	3.6
Alaska	100.0	41.2	16.5	.0	27.7	.0	3.5	.0	11.2
Maine	100.0	10.5	42.7	.0	14.6	.0	29.9	.0	2.3
Arkansas	100.0	47.3	2.3	.0	46.4	.0	2.6	.0	1.5
Nebraska	100.0	34.0	2.5	.0	54.5	.0	7.7	.0	1.3
Montana	100.0	41.0	12.3	.0	40.8	.0	3.9	.0	2.0
Vermont	100.0	7.2	22.3	.0	65.7	.0	2.6	.0	2.2
North Dakota	100.0	52.5	.7	.0	40.4	.0	2.2	.0	4.2
South Dakota	100.0	59.8	13.2	.0	20.5	.0	4.6	.0	1.9
Delaware	100.0	8.2	17.4	.0	66.3	.0	6.7	.0	1.3

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: fiscal year 1998 (revised)

State (in order of total Federal research & development obligations)	Total	Intra-mural [1]	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other non-profit institu-tions	FFRDCs admin by nonprofit institu-tions	State and local govts
Wyoming	100.0	35.7	3.3	.0	50.0	.0	8.4	.0	2.6
Outlying areas	100.0	36.0	15.1	.0	41.2	7.2	.0	.0	.6
Puerto Rico	100.0	12.1	.1	.0	73.8	13.0	.0	.0	1.0
Other areas	100.0	65.6	33.6	.0	.8	.0	.0	.0	*
Offices abroad	100.0	84.7	13.6	.0	1.7	.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.

NOTE: 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 R&D supporting agencies included in this table represent approximately 98 percent of total Federal R&D obligations in fiscal year 1998.

KEY: * = Amount less than .05 percent
FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-84. Federal obligations for research and development, by State and selected agency: fiscal year 1998 (revised)

[Dollars in thousands]

State (in order of total Federal research & development obligations)	Total	Dept of Agriculture	Dept of Commerce	Dept of Defense[1]	Dept of Energy	Dept of Health & Human Services	Dept of the Interior	Dept of Transportation	EPA	NASA	National Science Foundation
Total	70,512,996	1,436,996	948,381	35,127,171	5,871,794	13,662,665	530,904	565,555	568,854	9,520,533	2,280,143
California	12,215,846	78,512	80,711	6,436,570	1,022,019	1,529,761	36,965	23,566	31,969	2,628,415	347,358
Maryland	7,964,210	138,061	348,425	2,715,895	58,127	3,233,290	12,348	24,572	8,056	1,364,748	60,688
Ohio	5,562,227	15,579	4,387	4,558,991	16,901	360,550	5,397	14,638	64,938	482,907	37,939
Virginia	4,667,864	9,580	13,022	3,677,347	86,785	167,903	43,493	30,455	21,704	557,914	59,661
Texas	4,110,756	63,664	12,545	1,100,366	22,885	523,738	23,049	12,444	14,976	2,265,388	71,701
Georgia	3,442,612	46,693	4,618	2,979,614	11,477	312,057	7,880	4,935	16,199	22,841	36,298
Massachusetts	3,112,271	22,399	44,145	1,439,986	100,568	1,124,925	6,062	38,016	19,434	143,063	173,673
Florida	2,752,371	35,715	46,249	1,971,409	57,739	156,940	28,666	6,019	8,824	374,334	66,476
New York	2,551,833	33,988	18,360	606,358	553,803	1,076,498	8,200	9,836	8,621	58,805	177,364
District of Columbia	2,229,086	168,355	16,087	1,094,165	282,183	179,298	2,351	145,327	70,834	196,235	74,251
Alabama	2,012,829	14,781	610	1,157,497	152,195	164,201	4,662	3,465	4,531	498,536	12,351
New Mexico	1,891,565	7,431	1,400	586,781	1,175,695	46,423	9,351	6,371	4,278	40,943	12,892
Pennsylvania	1,886,258	42,490	5,924	587,534	340,893	725,576	8,140	9,039	4,751	51,497	110,414
New Jersey	1,459,570	7,226	23,458	995,436	69,267	123,404	3,970	107,756	5,044	64,684	59,325
Colorado	1,334,209	26,699	86,190	559,410	138,686	187,331	45,101	11,836	10,201	156,560	112,195
Washington	1,244,174	36,264	61,629	421,089	161,184	381,681	11,445	5,148	5,272	109,947	50,515
Illinois	1,127,553	43,013	4,720	123,493	454,767	342,935	5,786	11,685	2,860	17,556	120,738
Arizona	985,734	21,817	2,059	726,497	4,017	84,299	11,984	1,753	2,512	56,587	74,209
Missouri	930,735	20,374	1,012	581,523	4,727	264,584	13,171	2,779	2,816	16,251	23,498
North Carolina	924,652	33,582	13,234	140,363	16,848	517,469	7,504	5,095	132,314	13,266	44,977
Minnesota	807,083	22,693	4,578	492,799	6,564	211,333	8,049	5,339	14,718	8,093	32,917
Michigan	748,443	21,110	24,263	230,914	15,880	306,905	10,130	7,487	18,849	30,304	82,601
Connecticut	692,341	6,151	5,728	283,579	54,480	236,460	1,467	14,327	891	63,436	25,822
Tennessee	621,155	8,712	1,598	64,824	319,786	168,671	6,193	4,382	1,467	29,971	15,551
Utah	392,807	13,527	2,293	240,273	8,000	78,397	7,802	852	1,208	16,306	24,149
Rhode Island	385,411	1,835	3,727	291,853	2,356	49,613	2,477	1,001	12,007	3,308	17,234
Indiana	377,735	14,097	2,180	176,279	17,778	106,863	3,996	3,612	1,105	7,708	44,117
Wisconsin	332,203	34,177	4,547	11,998	20,031	185,558	12,733	2,952	1,988	14,615	43,604
Oregon	314,710	35,129	16,004	16,678	34,653	135,026	12,117	1,834	24,064	9,159	30,046
Nevada	290,853	2,869	115	43,753	194,692	9,894	9,508	4,946	14,637	2,914	7,525
Mississippi	280,366	60,342	6,275	132,867	1,833	13,914	6,320	1,923	1,542	47,604	7,746
New Hampshire	269,132	4,673	7,824	184,392	670	35,610	1,971	2,191	889	18,349	12,563
West Virginia	242,844	20,579	647	18,068	101,577	39,299	7,089	2,453	187	18,286	34,659
Iowa	236,084	39,549	807	28,202	26,793	105,402	5,362	3,051	2,369	10,666	13,883
Louisiana	223,555	43,348	3,124	38,025	4,319	68,012	16,097	1,676	4,962	33,797	10,195
Idaho	213,625	17,793	1,320	19,502	157,221	2,869	9,068	2,228	0	912	2,712
Kentucky	188,955	7,845	588	9,613	98,213	53,102	3,689	3,418	1,840	1,533	9,114
South Carolina	186,221	14,864	10,699	52,269	28,331	50,813	4,501	1,812	2,312	3,296	17,324
Oklahoma	175,497	17,712	6,642	41,440	26,475	34,946	5,489	11,787	14,326	3,212	13,468
Hawaii	160,826	21,859	13,772	60,283	3,541	21,868	5,810	548	0	18,574	14,571
Kansas	128,697	13,736	1,028	31,276	3,890	48,338	6,466	1,373	2,842	5,555	14,193
Alaska	106,939	7,574	24,261	27,262	50	2,109	22,129	1,296	290	12,250	9,718
Maine	103,901	3,943	6,370	48,148	223	31,072	3,976	565	996	2,701	5,907
Arkansas	97,026	26,191	388	8,420	50	49,208	4,443	1,405	381	1,881	4,659
Nebraska	84,982	27,427	744	7,617	705	30,566	6,956	905	250	2,305	7,507
Montana	80,670	17,657	5,091	12,793	984	12,861	14,887	1,229	321	6,177	8,670
Vermont	57,596	5,418	776	13,640	584	29,291	1,378	497	743	699	4,570
North Dakota	52,088	26,003	659	2,556	5,167	2,872	6,893	1,720	1,100	1,854	3,264
South Dakota	46,003	7,007	677	1,799	50	2,578	13,526	781	275	15,950	3,360
Delaware	45,214	3,715	1,818	11,735	1,504	7,577	828	922	1,554	4,036	11,525

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: fiscal year 1998 (revised)

[Dollars in thousands]

State (in order of total Federal research & development obligations)	Total	Dept of Agriculture	Dept of Commerce	Dept of Defense[1]	Dept of Energy	Dept of Health & Human Services	Dept of the Interior	Dept of Transportation	EPA	NASA	National Science Foundation
Wyoming	33,549	6,833	24	2,951	3,787	1,938	7,454	1,778	450	850	7,484
Outlying areas	111,908	13,273	1,029	45,949	841	26,837	6,575	530	157	3,755	12,962
Puerto Rico	61,938	13,273	994	1,953	841	26,837	1,166	0	157	3,755	12,962
Other areas	49,970	0	35	43,996	0	0	5,409	530	0	0	0
Offices abroad	18,222	3,132	0	15,090	0	0	0	0	0	0	0

[1] Beginning with Vol. 40, 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.

NOTE: 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 R&D supporting agencies included in this table represent approximately 98 percent of total Federal R&D obligations in fiscal year 1998.

KEY: EPA = Environmental Protection Agency
NASA = National Aeronautics & Space Administration

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-84a. Percentage distribution of Federal obligations for research and development of each selected agency, by State: fiscal year 1998 (revised)

State (in order of total Federal research & development obligations)	Total	Dept of Agriculture	Dept of Commerce	Dept of Defense[1]	Dept of Energy	Dept of Health & 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	17.3	5.5	8.5	18.3	17.4	11.2	7.0	4.2	5.6	27.6	15.2
Maryland	11.3	9.6	36.7	7.7	1.0	23.7	2.3	4.3	1.4	14.3	2.7
Ohio	7.9	1.1	.5	13.0	.3	2.6	1.0	2.6	11.4	5.1	1.7
Virginia	6.6	.7	1.4	10.5	1.5	1.2	8.2	5.4	3.8	5.9	2.6
Texas	5.8	4.4	1.3	3.1	.4	3.8	4.3	2.2	2.6	23.8	3.1
Georgia	4.9	3.2	.5	8.5	.2	2.3	1.5	.9	2.8	.2	1.6
Massachusetts	4.4	1.6	4.7	4.1	1.7	8.2	1.1	6.7	3.4	1.5	7.6
Florida	3.9	2.5	4.9	5.6	1.0	1.1	5.4	1.1	1.6	3.9	2.9
New York	3.6	2.4	1.9	1.7	9.4	7.9	1.5	1.7	1.5	.6	7.8
District of Columbia	3.2	11.7	1.7	3.1	4.8	1.3	.4	25.7	12.5	2.1	3.3
Alabama	2.9	1.0	.1	3.3	2.6	1.2	.9	.6	.8	5.2	.5
New Mexico	2.7	.5	.1	1.7	20.0	.3	1.8	1.1	.8	.4	.6
Pennsylvania	2.7	3.0	.6	1.7	5.8	5.3	1.5	1.6	.8	.5	4.8
New Jersey	2.1	.5	2.5	2.8	1.2	.9	.7	19.1	.9	.7	2.6
Colorado	1.9	1.9	9.1	1.6	2.4	1.4	8.5	2.1	1.8	1.6	4.9
Washington	1.8	2.5	6.5	1.2	2.7	2.8	2.2	.9	.9	1.2	2.2
Illinois	1.6	3.0	.5	.4	7.7	2.5	1.1	2.1	.5	.2	5.3
Arizona	1.4	1.5	.2	2.1	.1	.6	2.3	.3	.4	.6	3.3
Missouri	1.3	1.4	.1	1.7	.1	1.9	2.5	.5	.5	.2	1.0
North Carolina	1.3	2.3	1.4	.4	.3	3.8	1.4	.9	23.3	.1	2.0
Minnesota	1.1	1.6	.5	1.4	.1	1.5	1.5	.9	2.6	.1	1.4
Michigan	1.1	1.5	2.6	.7	.3	2.2	1.9	1.3	3.3	.3	3.6
Connecticut	1.0	.4	.6	.8	.9	1.7	.3	2.5	.2	.7	1.1
Tennessee	.9	.6	.2	.2	5.4	1.2	1.2	.8	.3	.3	.7
Utah	.6	.9	.2	.7	.1	.6	1.5	.2	.2	.2	1.1
Rhode Island	.5	.1	.4	.8	*	.4	.5	.2	2.1	*	.8
Indiana	.5	1.0	.2	.5	.3	.8	.8	.6	.2	.1	1.9
Wisconsin	.5	2.4	.5	*	.3	1.4	2.4	.5	.3	.2	1.9
Oregon	.4	2.4	1.7	*	.6	1.0	2.3	.3	4.2	.1	1.3
Nevada	.4	.2	*	.1	3.3	.1	1.8	.9	2.6	*	.3
Mississippi	.4	4.2	.7	.4	*	.1	1.2	.3	.3	.5	.3
New Hampshire	.4	.3	.8	.5	*	.3	.4	.4	.2	.2	.6
West Virginia	.3	1.4	.1	.1	1.7	.3	1.3	.4	*	.2	1.5
Iowa	.3	2.8	.1	.1	.5	.8	1.0	.5	.4	.1	.6
Louisiana	.3	3.0	.3	.1	.1	.5	3.0	.3	.9	.4	.4
Idaho	.3	1.2	.1	.1	2.7	*	1.7	.4	.0	*	.1
Kentucky	.3	.5	.1	*	1.7	.4	.7	.6	.3	*	.4
South Carolina	.3	1.0	1.1	.1	.5	.4	.8	.3	.4	*	.8
Oklahoma	.2	1.2	.7	.1	.5	.3	1.0	2.1	2.5	*	.6
Hawaii	.2	1.5	1.5	.2	.1	.2	1.1	.1	.0	.2	.6
Kansas	.2	1.0	.1	.1	.1	.4	1.2	.2	.5	.1	.6
Alaska	.2	.5	2.6	.1	*	*	4.2	.2	.1	.1	.4
Maine	.1	.3	.7	.1	*	.2	.7	.1	.2	*	.3
Arkansas	.1	1.8	*	*	*	.4	.8	.2	.1	*	.2
Nebraska	.1	1.9	.1	*	*	.2	1.3	.2	*	*	.3
Montana	.1	1.2	.5	*	*	.1	2.8	.2	.1	.1	.4
Vermont	.1	.4	.1	*	*	.2	.3	.1	.1	*	.2
North Dakota	.1	1.8	.1	*	.1	*	1.3	.3	.2	*	.1
South Dakota	.1	.5	.1	*	*	*	2.5	.1	*	.2	.1
Delaware	.1	.3	.2	*	*	.1	.2	.2	.3	*	.5

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: fiscal year 1998 (revised)

State (in order of total Federal research & development obligations)	Total	Dept of Agriculture	Dept of Commerce	Dept of Defense[1]	Dept of Energy	Dept of Health & Human Services	Dept of the Interior	Dept of Transportation	EPA	NASA	National Science Foundation
Wyoming	*	0.5	*	*	0.1	*	1.4	0.3	0.1	*	0.3
Outlying areas	0.2	.9	0.1	0.1	*	0.2	1.2	.1	*	*	.6
Puerto Rico	.1	.9	.1	*	*	.2	.2	.0	*	*	.6
Other areas	.1	.0	*	.1	.0	.0	1.0	.1	.0	.0	.0
Offices abroad	*	.2	.0	*	.0	.0	.0	.0	.0	.0	.0

[1] Beginning with Vol. 40, 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.

NOTE: 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 R&D supporting agencies included in this table represent approximately 98 percent of total Federal R&D obligations in fiscal year 1998.

KEY:
* = Amount less than .05 percent
EPA = Environmental Protection Agency
NASA = National Aeronautics & Space Administration

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-84b. Percentage distribution of Federal obligations for research and development of each State, by selected agency: fiscal year 1998 (revised)

State (in order of total Federal research & development obligations)	Total	Dept of Agriculture	Dept of Commerce	Dept of Defense[1]	Dept of Energy	Dept of Health & Human Services	Dept of the Interior	Dept of Transportation	EPA	NASA	National Science Foundation
Total	100.0	2.0	1.3	49.8	8.3	19.4	0.8	0.8	0.8	13.5	3.2
California	100.0	.6	.7	52.7	8.4	12.5	.3	.2	.3	21.5	2.8
Maryland	100.0	1.7	4.4	34.1	.7	40.6	.2	.3	.1	17.1	.8
Ohio	100.0	.3	.1	82.0	.3	6.5	.1	.3	1.2	8.7	.7
Virginia	100.0	.2	.3	78.8	1.9	3.6	.9	.7	.5	12.0	1.3
Texas	100.0	1.5	.3	26.8	.6	12.7	.6	.3	.4	55.1	1.7
Georgia	100.0	1.4	.1	86.6	.3	9.1	.2	.1	.5	.7	1.1
Massachusetts	100.0	.7	1.4	46.3	3.2	36.1	.2	1.2	.6	4.6	5.6
Florida	100.0	1.3	1.7	71.6	2.1	5.7	1.0	.2	.3	13.6	2.4
New York	100.0	1.3	.7	23.8	21.7	42.2	.3	.4	.3	2.3	7.0
District of Columbia	100.0	7.6	.7	49.1	12.7	8.0	.1	6.5	3.2	8.8	3.3
Alabama	100.0	.7	*	57.5	7.6	8.2	.2	.2	.2	24.8	.6
New Mexico	100.0	.4	.1	31.0	62.2	2.5	.5	.3	.2	2.2	.7
Pennsylvania	100.0	2.3	.3	31.1	18.1	38.5	.4	.5	.3	2.7	5.9
New Jersey	100.0	.5	1.6	68.2	4.7	8.5	.3	7.4	.3	4.4	4.1
Colorado	100.0	2.0	6.5	41.9	10.4	14.0	3.4	.9	.8	11.7	8.4
Washington	100.0	2.9	5.0	33.8	13.0	30.7	.9	.4	.4	8.8	4.1
Illinois	100.0	3.8	.4	11.0	40.3	30.4	.5	1.0	.3	1.6	10.7
Arizona	100.0	2.2	.2	73.7	.4	8.6	1.2	.2	.3	5.7	7.5
Missouri	100.0	2.2	.1	62.5	.5	28.4	1.4	.3	.3	1.7	2.5
North Carolina	100.0	3.6	1.4	15.2	1.8	56.0	.8	.6	14.3	1.4	4.9
Minnesota	100.0	2.8	.6	61.1	.8	26.2	1.0	.7	1.8	1.0	4.1
Michigan	100.0	2.8	3.2	30.9	2.1	41.0	1.4	1.0	2.5	4.0	11.0
Connecticut	100.0	.9	.8	41.0	7.9	34.2	.2	2.1	.1	9.2	3.7
Tennessee	100.0	1.4	.3	10.4	51.5	27.2	1.0	.7	.2	4.8	2.5
Utah	100.0	3.4	.6	61.2	2.0	20.0	2.0	.2	.3	4.2	6.1
Rhode Island	100.0	.5	1.0	75.7	.6	12.9	.6	.3	3.1	.9	4.5
Indiana	100.0	3.7	.6	46.7	4.7	28.3	1.1	1.0	.3	2.0	11.7
Wisconsin	100.0	10.3	1.4	3.6	6.0	55.9	3.8	.9	.6	4.4	13.1
Oregon	100.0	11.2	5.1	5.3	11.0	42.9	3.9	.6	7.6	2.9	9.5
Nevada	100.0	1.0	*	15.0	66.9	3.4	3.3	1.7	5.0	1.0	2.6
Mississippi	100.0	21.5	2.2	47.4	.7	5.0	2.3	.7	.5	17.0	2.8
New Hampshire	100.0	1.7	2.9	68.5	.2	13.2	.7	.8	.3	6.8	4.7
West Virginia	100.0	8.5	.3	7.4	41.8	16.2	2.9	1.0	.1	7.5	14.3
Iowa	100.0	16.8	.3	11.9	11.3	44.6	2.3	1.3	1.0	4.5	5.9
Louisiana	100.0	19.4	1.4	17.0	1.9	30.4	7.2	.7	2.2	15.1	4.6
Idaho	100.0	8.3	.6	9.1	73.6	1.3	4.2	1.0	.0	.4	1.3
Kentucky	100.0	4.2	.3	5.1	52.0	28.1	2.0	1.8	1.0	.8	4.8
South Carolina	100.0	8.0	5.7	28.1	15.2	27.3	2.4	1.0	1.2	1.8	9.3
Oklahoma	100.0	10.1	3.8	23.6	15.1	19.9	3.1	6.7	8.2	1.8	7.7
Hawaii	100.0	13.6	8.6	37.5	2.2	13.6	3.6	.3	.0	11.5	9.1
Kansas	100.0	10.7	.8	24.3	3.0	37.6	5.0	1.1	2.2	4.3	11.0
Alaska	100.0	7.1	22.7	25.5	*	2.0	20.7	1.2	.3	11.5	9.1
Maine	100.0	3.8	6.1	46.3	.2	29.9	3.8	.5	1.0	2.6	5.7
Arkansas	100.0	27.0	.4	8.7	.1	50.7	4.6	1.4	.4	1.9	4.8
Nebraska	100.0	32.3	.9	9.0	.8	36.0	8.2	1.1	.3	2.7	8.8
Montana	100.0	21.9	6.3	15.9	1.2	15.9	18.5	1.5	.4	7.7	10.7
Vermont	100.0	9.4	1.3	23.7	1.0	50.9	2.4	.9	1.3	1.2	7.9
North Dakota	100.0	49.9	1.3	4.9	9.9	5.5	13.2	3.3	2.1	3.6	6.3
South Dakota	100.0	15.2	1.5	3.9	.1	5.6	29.4	1.7	.6	34.7	7.3
Delaware	100.0	8.2	4.0	26.0	3.3	16.8	1.8	2.0	3.4	8.9	25.5

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: fiscal year 1998 (revised)

State (in order of total Federal research & development obligations)	Total	Dept of Agriculture	Dept of Commerce	Dept of Defense[1]	Dept of Energy	Dept of Health & Human Services	Dept of the Interior	Dept of Transportation	EPA	NASA	National Science Foundation
Wyoming	100.0	20.4	0.1	8.8	11.3	5.8	22.2	5.3	1.3	2.5	22.3
Outlying areas	100.0	11.9	.9	41.1	.8	24.0	5.9	.5	.1	3.4	11.6
Puerto Rico	100.0	21.4	1.6	3.2	1.4	43.3	1.9	.0	.3	6.1	20.9
Other areas	100.0	.0	.1	88.0	.0	.0	10.8	1.1	.0	.0	.0
Offices abroad	100.0	17.2	.0	82.8	.0	.0	.0	.0	.0	.0	.0

[1] Beginning with Vol. 40, 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.

NOTE: 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 R&D supporting agencies included in this table represent approximately 98 percent of total Federal R&D obligations in fiscal year 1998.

KEY:
* = Amount less than .05 percent
EPA = Environmental Protection Agency
NASA = National Aeronautics & Space Administration

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-85. Federal obligations for research and development, by State, selected agency, and performer: fiscal year 1998 (revised)

[Dollars in thousands]

State and agency	Total	Intra-mural [1]	Extramural						
			Industrial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institu-tions	FFRDCs admin by non-profit institu-tions	State and local govts
Alabama, total	2,012,829	752,619	878,065	0	225,263	130,201	24,312	0	2,369
Department of Agriculture	14,781	4,961	0	0	9,795	0	0	0	25
Department of Commerce	610	5	213	0	392	0	0	0	0
Department of Defense, research [2]	82,355	33,791	32,494	0	14,354	0	1,716	0	0
Department of Defense, total development [3]	1,075,142	400,252	672,003	0	2,427	0	460	0	0
Department of Energy	152,195	49	16,198	0	4,410	130,201	1,337	0	0
Department of Health & Human Svcs	164,201	404	2,861	0	147,132	0	13,784	0	20
Department of the Interior	4,662	4,304	35	0	255	0	0	0	68
Department of Transportation	3,465	159	355	0	759	0	0	0	2,192
Environmental Protection Agency	4,531	0	230	0	960	0	3,341	0	0
National Aeronautics and Space Admin	498,536	308,694	153,176	0	33,697	0	2,905	0	64
National Science Foundation	12,351	0	500	0	11,082	0	769	0	0
Alaska, total	106,939	44,010	17,637	0	29,598	0	3,707	0	11,987
Department of Agriculture	7,574	5,159	0	0	2,415	0	0	0	0
Department of Commerce	24,261	19,743	0	0	4,472	0	0	0	46
Department of Defense, research [2]	932	632	187	0	113	0	0	0	0
Department of Defense, total development [3]	26,330	1,096	14,570	0	664	0	0	0	10,000
Department of Energy	50	0	0	0	50	0	0	0	0
Department of Health & Human Svcs	2,109	285	119	0	1,424	0	0	0	281
Department of the Interior	22,129	16,756	2,230	0	2,748	0	31	0	364
Department of Transportation	1,296	0	0	0	0	0	0	0	1,296
Environmental Protection Agency	290	0	70	0	220	0	0	0	0
National Aeronautics and Space Admin	12,250	339	85	0	9,326	0	2,500	0	0
National Science Foundation	9,718	0	376	0	8,166	0	1,176	0	0
Arizona, total	985,734	138,493	636,632	0	159,883	36,485	7,777	0	6,464
Department of Agriculture	21,817	15,904	0	0	5,872	0	41	0	0
Department of Commerce	2,059	114	901	0	1,044	0	0	0	0
Department of Defense, research [2]	45,374	9,278	19,939	0	16,148	0	9	0	0
Department of Defense, total development [3]	681,123	92,575	580,800	0	5,148	0	0	0	2,600
Department of Energy	4,017	0	0	0	4,017	0	0	0	0
Department of Health & Human Svcs	84,299	4,830	3,533	0	67,961	0	6,149	0	1,826
Department of the Interior	11,984	10,780	47	0	1,015	0	7	0	135
Department of Transportation	1,753	0	25	0	25	0	0	0	1,703
Environmental Protection Agency	2,512	0	212	0	2,300	0	0	0	0
National Aeronautics and Space Admin	56,587	5,012	29,150	0	20,867	0	1,358	0	200
National Science Foundation	74,209	0	2,025	0	35,486	36,485	213	0	0
Arkansas, total	97,026	45,895	2,199	0	44,974	0	2,488	0	1,470
Department of Agriculture	26,191	13,730	9	0	12,452	0	0	0	0
Department of Commerce	388	58	0	0	0	0	330	0	0
Department of Defense, research [2]	3,953	0	196	0	3,757	0	0	0	0
Department of Defense, total development [3]	4,467	3,857	550	0	60	0	0	0	0
Department of Energy	50	0	0	0	50	0	0	0	0
Department of Health & Human Svcs	49,208	23,983	679	0	22,363	0	2,158	0	25
Department of the Interior	4,443	4,267	4	0	132	0	0	0	40
Department of Transportation	1,405	0	0	0	0	0	0	0	1,405
Environmental Protection Agency	381	0	0	0	381	0	0	0	0
National Aeronautics and Space Admin	1,881	0	685	0	1,196	0	0	0	0
National Science Foundation	4,659	0	76	0	4,583	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: fiscal year 1998 (revised)

[Dollars in thousands]

State and agency	Total	Intra-mural [1]	Extramural						
			Industrial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institu-tions	FFRDCs admin by non-profit institu-tions	State and local govts
California, total	12,215,846	1,595,270	5,937,882	13,220	1,886,772	2,017,569	519,452	120,883	124,798
Department of Agriculture	78,512	57,938	0	0	20,113	0	461	0	0
Department of Commerce	80,711	18,401	53,469	0	7,610	0	534	0	697
Department of Defense, research [2]	656,996	115,869	301,420	0	186,720	27,319	19,826	5,842	0
Department of Defense, total development [3]	5,779,574	1,052,471	4,443,438	1,674	33,458	42,485	11,318	97,297	97,433
Department of Energy	1,022,019	7,432	73,968	11,546	109,613	805,229	14,231	0	0
Department of Health & Human Svcs	1,529,761	5,225	121,515	0	1,009,445	22,030	355,107	14,689	1,750
Department of the Interior	36,965	25,964	1,047	0	9,455	0	22	0	477
Department of Transportation	23,566	951	5,743	0	4,676	0	1,461	0	10,735
Environmental Protection Agency	31,969	0	1,086	0	23,237	0	821	0	6,825
National Aeronautics and Space Admin	2,628,415	310,808	924,573	0	168,470	1,120,293	94,448	2,942	6,881
National Science Foundation	347,358	211	11,623	0	313,975	213	21,223	113	0
Colorado, total	1,334,209	202,224	604,876	0	278,740	65,204	54,822	123,027	5,316
Department of Agriculture	26,699	20,378	0	0	6,143	0	178	0	0
Department of Commerce	86,190	76,599	1,917	0	7,674	0	0	0	0
Department of Defense, research [2]	58,227	4,930	36,660	0	14,295	16	2,296	30	0
Department of Defense, total development [3]	501,183	46,242	449,151	0	2,178	1,875	1,737	0	0
Department of Energy	138,686	2,910	1,500	0	8,618	0	2,621	122,997	40
Department of Health & Human Svcs	187,331	745	7,545	0	140,823	0	35,005	0	3,213
Department of the Interior	45,101	41,871	42	0	2,648	0	188	0	352
Department of Transportation	11,836	3	10,394	0	101	0	0	0	1,338
Environmental Protection Agency	10,201	0	70	0	4,126	0	6,005	0	0
National Aeronautics and Space Admin	156,560	8,130	93,036	0	49,087	381	5,757	0	169
National Science Foundation	112,195	416	4,561	0	43,047	62,932	1,035	0	204
Connecticut, total	692,341	18,257	379,213	0	265,433	0	23,557	0	5,881
Department of Agriculture	6,151	2,591	0	0	2,679	0	0	0	881
Department of Commerce	5,728	235	3,145	0	2,348	0	0	0	0
Department of Defense, research [2]	39,490	1,711	27,108	0	8,400	0	2,271	0	0
Department of Defense, total development [3]	244,089	3,400	232,876	0	290	0	7,523	0	0
Department of Energy	54,480	0	44,129	0	10,351	0	0	0	0
Department of Health & Human Svcs	236,460	24	6,995	0	215,093	0	11,407	0	2,941
Department of the Interior	1,467	1,296	55	0	116	0	0	0	0
Department of Transportation	14,327	9,000	3,704	0	0	0	0	0	1,623
Environmental Protection Agency	891	0	210	0	245	0	0	0	436
National Aeronautics and Space Admin	63,436	0	58,961	0	2,441	0	2,034	0	0
National Science Foundation	25,822	0	2,030	0	23,470	0	322	0	0
Delaware, total	45,214	3,722	7,877	0	29,971	0	3,042	0	602
Department of Agriculture	3,715	1,366	0	0	2,349	0	0	0	0
Department of Commerce	1,818	634	214	0	970	0	0	0	0
Department of Defense, research [2]	9,670	628	3,414	0	5,540	0	88	0	0
Department of Defense, total development [3]	2,065	386	1,601	0	78	0	0	0	0
Department of Energy	1,504	0	181	0	1,263	0	60	0	0
Department of Health & Human Svcs	7,577	5	841	0	6,148	0	533	0	50
Department of the Interior	828	703	0	0	95	0	0	0	30
Department of Transportation	922	0	400	0	0	0	0	0	522
Environmental Protection Agency	1,554	0	0	0	1,554	0	0	0	0
National Aeronautics and Space Admin	4,036	0	839	0	2,125	0	1,072	0	0
National Science Foundation	11,525	0	387	0	9,849	0	1,289	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: fiscal year 1998 (revised)

[Dollars in thousands]

State and agency	Total	Intra-mural [1]	Extramural						
			Industrial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institu-tions	FFRDCs admin by non-profit institu-tions	State and local govts
District of Columbia, total	2,229,086	1,717,704	202,014	350	151,507	2,036	150,383	2,119	2,973
Department of Agriculture	168,355	157,585	9,278	0	758	0	589	0	145
Department of Commerce	16,087	14,066	522	0	796	0	703	0	0
Department of Defense, research [2]	243,464	208,289	16,683	0	14,798	0	3,694	0	0
Department of Defense, total development [3]	850,701	685,541	117,253	350	42,222	2,036	1,250	2,049	0
Department of Energy	282,183	268,485	2,422	0	1,750	0	9,526	0	0
Department of Health & Human Svcs	179,298	54,131	17,076	0	71,810	0	36,081	0	200
Department of the Interior	2,351	2,030	134	0	32	0	155	0	0
Department of Transportation	145,327	101,069	31,529	0	4,179	0	8,057	70	423
Environmental Protection Agency	70,834	51,000	2,082	0	590	0	14,987	0	2,175
National Aeronautics and Space Admin	196,235	169,136	3,749	0	7,177	0	16,143	0	30
National Science Foundation	74,251	6,372	1,286	0	7,395	0	59,198	0	0
Florida, total	2,752,371	749,648	1,683,990	0	299,747	0	10,708	0	8,278
Department of Agriculture	35,715	23,313	153	0	12,219	0	0	0	30
Department of Commerce	46,249	35,271	1,924	0	8,629	0	349	0	76
Department of Defense, research [2]	137,227	65,939	37,831	0	32,940	0	517	0	0
Department of Defense, total development [3]	1,834,182	380,814	1,451,687	0	1,498	0	10	0	173
Department of Energy	57,739	0	45,336	0	12,403	0	0	0	0
Department of Health & Human Svcs	156,940	49	6,819	0	143,894	0	5,595	0	583
Department of the Interior	28,666	25,295	336	0	2,869	0	0	0	166
Department of Transportation	6,019	0	929	0	30	0	0	0	5,060
Environmental Protection Agency	8,824	7,650	0	0	776	0	40	0	358
National Aeronautics and Space Admin	374,334	211,317	137,226	0	22,273	0	1,686	0	1,832
National Science Foundation	66,476	0	1,749	0	62,216	0	2,511	0	0
Georgia, total	3,442,612	235,596	2,920,561	0	270,814	0	10,287	0	5,354
Department of Agriculture	46,693	34,407	0	0	12,212	0	44	0	30
Department of Commerce	4,618	942	2,812	0	852	0	0	0	12
Department of Defense, research [2]	43,026	7,719	10,982	0	23,571	0	754	0	0
Department of Defense, total development [3]	2,936,588	19,899	2,894,988	0	18,928	0	2,773	0	0
Department of Energy	11,477	0	396	0	10,318	0	763	0	0
Department of Health & Human Svcs	312,057	150,719	3,958	0	153,214	0	4,042	0	124
Department of the Interior	7,880	7,236	84	0	492	0	0	0	68
Department of Transportation	4,935	188	0	0	742	0	0	0	4,005
Environmental Protection Agency	16,199	10,200	251	0	5,584	0	164	0	0
National Aeronautics and Space Admin	22,841	4,286	6,121	0	10,687	0	1,747	0	0
National Science Foundation	36,298	0	969	0	34,214	0	0	0	1,115
Hawaii, total	160,826	54,776	30,246	0	52,256	0	21,777	0	1,771
Department of Agriculture	21,859	11,159	0	0	5,110	0	5,590	0	0
Department of Commerce	13,772	9,263	355	0	3,407	0	110	0	637
Department of Defense, research [2]	14,844	5,433	7,238	0	2,173	0	0	0	0
Department of Defense, total development [3]	45,439	23,556	21,381	0	502	0	0	0	0
Department of Energy	3,541	0	0	0	3,421	0	120	0	0
Department of Health & Human Svcs	21,868	59	779	0	17,163	0	3,307	0	560
Department of the Interior	5,810	5,106	52	0	523	0	129	0	0
Department of Transportation	548	0	0	0	0	0	0	0	548
National Aeronautics and Space Admin	18,574	200	41	0	6,115	0	12,192	0	26
National Science Foundation	14,571	0	400	0	13,842	0	329	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: fiscal year 1998 (revised)

[Dollars in thousands]

State and agency	Total	Intra-mural [1]	Extramural						
			Industrial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institu-tions	FFRDCs admin by non-profit institu-tions	State and local govts
Idaho, total	213,625	25,042	108,599	57,105	20,652	0	1,337	0	890
Department of Agriculture	17,793	13,648	0	0	4,145	0	0	0	0
Department of Commerce	1,320	1,320	0	0	0	0	0	0	0
Department of Defense, research [2]	5,742	296	408	2,189	2,849	0	0	0	0
Department of Defense, total development [3]	13,760	660	12,722	254	124	0	0	0	0
Department of Energy	157,221	1,400	95,263	53,167	7,391	0	0	0	0
Department of Health & Human Svcs	2,869	9	101	0	1,422	0	1,337	0	0
Department of the Interior	9,068	7,370	5	0	1,603	0	0	0	90
Department of Transportation	2,228	0	33	1,395	0	0	0	0	800
National Aeronautics and Space Admin	912	339	67	100	406	0	0	0	0
National Science Foundation	2,712	0	0	0	2,712	0	0	0	0
Illinois, total	1,127,553	71,946	82,221	0	504,232	398,996	61,529	0	8,629
Department of Agriculture	43,013	31,528	0	0	11,075	0	410	0	0
Department of Commerce	4,720	67	3,590	0	683	0	380	0	0
Department of Defense, research [2]	59,088	11,428	9,909	0	34,155	3,385	211	0	0
Department of Defense, total development [3]	64,405	16,364	34,717	0	7,980	5,216	128	0	0
Department of Energy	454,767	4,595	13,427	0	44,628	390,068	2,049	0	0
Department of Health & Human Svcs	342,935	342	10,615	0	274,036	0	53,520	0	4,422
Department of the Interior	5,786	5,112	4	0	205	0	0	0	465
Department of Transportation	11,685	45	4,601	0	2,626	57	804	0	3,552
Environmental Protection Agency	2,860	0	282	0	2,578	0	0	0	0
National Aeronautics and Space Admin	17,556	2,465	3,365	0	10,187	270	1,079	0	190
National Science Foundation	120,738	0	1,711	0	116,079	0	2,948	0	0
Indiana, total	377,735	38,023	142,363	0	189,882	200	3,318	0	3,949
Department of Agriculture	14,097	4,936	0	0	9,161	0	0	0	0
Department of Commerce	2,180	84	1,049	0	572	0	475	0	0
Department of Defense, research [2]	17,943	2,318	3,174	0	12,451	0	0	0	0
Department of Defense, total development [3]	158,336	25,878	129,549	0	962	200	1,747	0	0
Department of Energy	17,778	0	150	0	17,628	0	0	0	0
Department of Health & Human Svcs	106,863	155	3,796	0	101,374	0	300	0	1,238
Department of the Interior	3,996	3,731	25	0	79	0	0	0	161
Department of Transportation	3,612	0	1,062	0	0	0	0	0	2,550
Environmental Protection Agency	1,105	0	56	0	584	0	465	0	0
National Aeronautics and Space Admin	7,708	921	3,175	0	3,281	0	331	0	0
National Science Foundation	44,117	0	327	0	43,790	0	0	0	0
Iowa, total	236,084	32,701	24,757	0	150,856	20,824	4,093	0	2,853
Department of Agriculture	39,549	27,187	0	0	12,360	0	2	0	0
Department of Commerce	807	0	357	0	450	0	0	0	0
Department of Defense, research [2]	9,809	0	5,573	0	4,106	130	0	0	0
Department of Defense, total development [3]	18,393	343	15,192	0	1,783	1,075	0	0	0
Department of Energy	26,793	0	0	0	4,999	19,619	2,175	0	0
Department of Health & Human Svcs	105,402	11	1,951	0	101,249	0	1,901	0	290
Department of the Interior	5,362	5,160	3	0	120	0	0	0	79
Department of Transportation	3,051	0	0	0	567	0	0	0	2,484
Environmental Protection Agency	2,369	0	0	0	2,369	0	0	0	0
National Aeronautics and Space Admin	10,666	0	1,681	0	8,985	0	0	0	0
National Science Foundation	13,883	0	0	0	13,868	0	15	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: fiscal year 1998 (revised)

[Dollars in thousands]

State and agency	Total	Intra-mural [1]	Extramural						
			Industrial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institu-tions	FFRDCs admin by non-profit institu-tions	State and local govts
Kansas, total	128,697	24,757	19,642	0	78,444	0	1,210	0	4,644
Department of Agriculture	13,736	7,849	0	0	5,878	0	9	0	0
Department of Commerce	1,028	154	0	0	425	0	449	0	0
Department of Defense, research [2]	5,031	703	185	0	4,143	0	0	0	0
Department of Defense, total development [3]	26,245	9,120	16,525	0	600	0	0	0	0
Department of Energy	3,890	0	10	0	3,880	0	0	0	0
Department of Health & Human Svcs	48,338	704	1,501	0	42,073	0	752	0	3,308
Department of the Interior	6,466	6,227	22	0	129	0	0	0	88
Department of Transportation	1,373	0	0	0	125	0	0	0	1,248
Environmental Protection Agency	2,842	0	0	0	2,842	0	0	0	0
National Aeronautics and Space Admin	5,555	0	1,370	0	4,185	0	0	0	0
National Science Foundation	14,193	0	29	0	14,164	0	0	0	0
Kentucky, total	188,955	6,591	99,613	0	73,577	0	1,708	0	7,466
Department of Agriculture	7,845	2	0	0	7,843	0	0	0	0
Department of Commerce	588	88	0	0	0	0	500	0	0
Department of Defense, research [2]	4,714	1,413	871	0	2,430	0	0	0	0
Department of Defense, total development [3]	4,899	1,949	2,259	0	691	0	0	0	0
Department of Energy	98,213	0	95,267	0	2,946	0	0	0	0
Department of Health & Human Svcs	53,102	9	956	0	47,496	0	955	0	3,686
Department of the Interior	3,689	3,077	15	0	235	0	0	0	362
Department of Transportation	3,418	0	0	0	0	0	0	0	3,418
Environmental Protection Agency	1,840	0	146	0	1,542	0	152	0	0
National Aeronautics and Space Admin	1,533	53	0	0	1,379	0	101	0	0
National Science Foundation	9,114	0	99	0	9,015	0	0	0	0
Louisiana, total	223,555	84,315	20,104	0	111,713	0	4,117	0	3,306
Department of Agriculture	43,348	31,429	0	0	11,879	0	40	0	0
Department of Commerce	3,124	1,383	53	0	1,688	0	0	0	0
Department of Defense, research [2]	9,031	979	372	0	7,640	0	40	0	0
Department of Defense, total development [3]	28,994	5,895	17,993	0	5,106	0	0	0	0
Department of Energy	4,319	0	0	0	4,319	0	0	0	0
Department of Health & Human Svcs	68,012	3,751	156	0	60,082	0	4,022	0	1
Department of the Interior	16,097	11,149	1,177	0	3,688	0	15	0	68
Department of Transportation	1,676	0	0	0	0	0	0	0	1,676
Environmental Protection Agency	4,962	0	0	0	4,962	0	0	0	0
National Aeronautics and Space Admin	33,797	29,729	253	0	3,815	0	0	0	0
National Science Foundation	10,195	0	100	0	8,534	0	0	0	1,561
Maine, total	103,901	10,953	44,317	0	15,190	0	31,050	0	2,391
Department of Agriculture	3,943	4	0	0	3,934	0	5	0	0
Department of Commerce	6,370	4,156	71	0	1,274	0	869	0	0
Department of Defense, research [2]	9,287	121	6,008	0	2,557	0	601	0	0
Department of Defense, total development [3]	38,861	3,215	35,646	0	0	0	0	0	0
Department of Energy	223	0	0	0	73	0	0	0	150
Department of Health & Human Svcs	31,072	5	2,049	0	1,285	0	26,346	0	1,387
Department of the Interior	3,976	3,412	9	0	522	0	0	0	33
Department of Transportation	565	0	0	0	0	0	0	0	565
Environmental Protection Agency	996	0	70	0	651	0	275	0	0
National Aeronautics and Space Admin	2,701	40	256	0	1,048	0	1,101	0	256
National Science Foundation	5,907	0	208	0	3,846	0	1,853	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: fiscal year 1998 (revised)

[Dollars in thousands]

State and agency	Total	Intra-mural [1]	Extramural						
			Industrial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institu-tions	FFRDCs admin by non-profit institu-tions	State and local govts
Maryland, total	7,964,210	4,766,005	2,054,921	163,223	798,113	0	178,769	0	3,179
Department of Agriculture	138,061	130,095	206	0	7,738	0	22	0	0
Department of Commerce	348,425	333,109	7,723	0	7,593	0	0	0	0
Department of Defense, research [2]	373,819	250,610	73,959	0	43,842	0	5,408	0	0
Department of Defense, total development [3]	2,342,076	1,254,504	919,729	0	162,139	0	5,623	0	81
Department of Energy	58,127	27,684	10,387	0	11,099	0	8,957	0	0
Department of Health & Human Svcs	3,233,290	2,370,500	266,992	163,223	380,322	0	51,323	0	930
Department of the Interior	12,348	11,811	80	0	432	0	0	0	25
Department of Transportation	24,572	3,249	13,145	0	6,519	0	0	0	1,659
Environmental Protection Agency	8,056	0	3,029	0	4,742	0	125	0	160
National Aeronautics and Space Admin	1,364,748	381,677	754,560	0	131,214	0	96,973	0	324
National Science Foundation	60,688	2,766	5,111	0	42,473	0	10,338	0	0
Massachusetts, total	3,112,271	301,193	991,701	0	823,426	221,292	706,800	63,007	4,852
Department of Agriculture	22,399	15,920	472	0	6,007	0	0	0	0
Department of Commerce	44,145	30,771	8,600	0	4,274	0	500	0	0
Department of Defense, research [2]	280,359	50,322	93,833	0	86,755	31,831	17,243	375	0
Department of Defense, total development [3]	1,159,627	140,570	732,937	0	17,976	189,205	16,307	62,632	0
Department of Energy	100,568	0	17,640	0	76,369	0	6,559	0	0
Department of Health & Human Svcs	1,124,925	1,452	89,333	0	435,429	0	596,604	0	2,107
Department of the Interior	6,062	4,255	342	0	1,209	0	0	0	256
Department of Transportation	38,016	31,922	3,964	0	113	0	55	0	1,962
Environmental Protection Agency	19,434	0	3,325	0	6,457	0	9,125	0	527
National Aeronautics and Space Admin	143,063	24,983	24,363	0	43,498	256	49,963	0	0
National Science Foundation	173,673	998	16,892	0	145,339	0	10,444	0	0
Michigan, total	748,443	111,457	160,127	0	450,082	0	17,989	0	8,788
Department of Agriculture	21,110	6,829	0	0	14,275	0	6	0	0
Department of Commerce	24,263	6,936	14,607	0	1,878	0	442	0	400
Department of Defense, research [2]	67,289	24,033	18,973	0	23,457	0	826	0	0
Department of Defense, total development [3]	163,625	63,338	84,081	0	13,111	0	3,095	0	0
Department of Energy	15,880	0	0	0	15,750	0	130	0	0
Department of Health & Human Svcs	306,905	736	13,063	0	284,935	0	5,235	0	2,936
Department of the Interior	10,130	9,585	9	0	457	0	0	0	79
Department of Transportation	7,487	0	2,330	0	149	0	1,635	0	3,373
Environmental Protection Agency	18,849	0	4,671	0	9,385	0	2,793	0	2,000
National Aeronautics and Space Admin	30,304	0	19,564	0	8,158	0	2,582	0	0
National Science Foundation	82,601	0	2,829	0	78,527	0	1,245	0	0
Minnesota, total	807,083	38,437	472,522	0	196,262	0	93,791	0	6,071
Department of Agriculture	22,693	15,028	0	0	7,658	0	7	0	0
Department of Commerce	4,578	180	2,926	0	1,472	0	0	0	0
Department of Defense, research [2]	26,472	433	15,966	0	8,469	0	1,604	0	0
Department of Defense, total development [3]	466,327	1,559	440,578	0	1,683	0	22,507	0	0
Department of Energy	6,564	0	0	0	6,561	0	3	0	0
Department of Health & Human Svcs	211,333	685	7,208	0	131,030	0	69,336	0	3,074
Department of the Interior	8,049	7,502	7	0	499	0	0	0	41
Department of Transportation	5,339	0	15	0	2,368	0	0	0	2,956
Environmental Protection Agency	14,718	12,750	438	0	1,530	0	0	0	0
National Aeronautics and Space Admin	8,093	300	4,583	0	3,170	0	40	0	0
National Science Foundation	32,917	0	801	0	31,822	0	294	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: fiscal year 1998 (revised)

[Dollars in thousands]

State and agency	Total	Intra-mural [1]	Extramural						
			Industrial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institu-tions	FFRDCs admin by non-profit institu-tions	State and local govts
Mississippi, total	280,366	132,896	70,301	0	67,535	0	7,886	0	1,748
Department of Agriculture	60,342	42,681	0	0	16,868	0	793	0	0
Department of Commerce	6,275	5,727	78	0	470	0	0	0	0
Department of Defense, research [2]	50,938	35,664	3,060	0	12,206	0	8	0	0
Department of Defense, total development [3]	81,929	41,370	35,832	0	4,727	0	0	0	0
Department of Energy	1,833	0	376	0	1,457	0	0	0	0
Department of Health & Human Svcs	13,914	1	145	0	13,642	0	115	0	11
Department of the Interior	6,320	5,677	22	0	539	0	0	0	82
Department of Transportation	1,923	393	0	0	0	0	0	0	1,530
Environmental Protection Agency	1,542	0	0	0	1,542	0	0	0	0
National Aeronautics and Space Admin	47,604	1,383	30,788	0	8,338	0	6,970	0	125
National Science Foundation	7,746	0	0	0	7,746	0	0	0	0
Missouri, total	930,735	48,544	560,924	0	294,459	0	22,202	0	4,606
Department of Agriculture	20,374	9,681	0	0	10,693	0	0	0	0
Department of Commerce	1,012	343	0	0	85	0	415	0	169
Department of Defense, research [2]	35,085	10,896	15,365	0	8,824	0	0	0	0
Department of Defense, total development [3]	546,438	13,762	531,964	0	712	0	0	0	0
Department of Energy	4,727	21	340	0	4,356	0	10	0	0
Department of Health & Human Svcs	264,584	634	1,777	0	239,788	0	20,606	0	1,779
Department of the Interior	13,171	12,484	11	0	562	0	0	0	114
Department of Transportation	2,779	6	150	0	0	0	79	0	2,544
Environmental Protection Agency	2,816	0	250	0	2,506	0	60	0	0
National Aeronautics and Space Admin	16,251	717	10,667	0	4,864	0	3	0	0
National Science Foundation	23,498	0	400	0	22,069	0	1,029	0	0
Montana, total	80,670	33,101	9,897	0	32,949	0	3,149	0	1,574
Department of Agriculture	17,657	11,597	15	0	4,665	0	1,380	0	0
Department of Commerce	5,091	53	0	0	4,738	0	300	0	0
Department of Defense, research [2]	5,517	15	576	0	4,926	0	0	0	0
Department of Defense, total development [3]	7,276	2,606	4,670	0	0	0	0	0	0
Department of Energy	984	0	35	0	875	0	0	0	74
Department of Health & Human Svcs	12,861	5,011	714	0	5,764	0	1,222	0	150
Department of the Interior	14,887	13,794	31	0	841	0	0	0	221
Department of Transportation	1,229	0	0	0	100	0	0	0	1,129
Environmental Protection Agency	321	0	0	0	321	0	0	0	0
National Aeronautics and Space Admin	6,177	25	3,437	0	2,579	0	136	0	0
National Science Foundation	8,670	0	419	0	8,140	0	111	0	0
Nebraska, total	84,982	28,873	2,104	0	46,328	0	6,572	0	1,105
Department of Agriculture	27,427	19,297	0	0	8,130	0	0	0	0
Department of Commerce	744	106	0	0	38	0	600	0	0
Department of Defense, research [2]	4,838	473	762	0	3,603	0	0	0	0
Department of Defense, total development [3]	2,779	2,302	406	0	71	0	0	0	0
Department of Energy	705	0	0	0	705	0	0	0	0
Department of Health & Human Svcs	30,566	12	602	0	23,837	0	5,942	0	173
Department of the Interior	6,956	6,683	0	0	194	0	0	0	79
Department of Transportation	905	0	0	0	52	0	0	0	853
Environmental Protection Agency	250	0	0	0	220	0	30	0	0
National Aeronautics and Space Admin	2,305	0	234	0	2,071	0	0	0	0
National Science Foundation	7,507	0	100	0	7,407	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: fiscal year 1998 (revised)

[Dollars in thousands]

State and agency	Total	Intra-mural [1]	Extramural						
			Industrial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institu-tions	FFRDCs admin by non-profit institu-tions	State and local govts
Nevada, total	290,853	48,514	211,316	0	25,268	0	4,107	0	1,648
Department of Agriculture	2,869	436	0	0	2,398	0	35	0	0
Department of Commerce	115	0	2	0	113	0	0	0	0
Department of Defense, research [2]	11,964	8,897	1,230	0	1,837	0	0	0	0
Department of Defense, total development [3]	31,789	17,456	13,906	0	427	0	0	0	0
Department of Energy	194,692	10	191,035	0	2,865	0	782	0	0
Department of Health & Human Svcs	9,894	11	216	0	7,915	0	1,342	0	410
Department of the Interior	9,508	8,488	0	0	881	0	0	0	139
Department of Transportation	4,946	0	2,039	0	68	0	1,948	0	891
Environmental Protection Agency	14,637	12,750	1,155	0	584	0	0	0	148
National Aeronautics and Space Admin	2,914	466	1,733	0	655	0	0	0	60
National Science Foundation	7,525	0	0	0	7,525	0	0	0	0
New Hampshire, total	269,132	33,959	163,677	0	69,064	0	1,669	0	763
Department of Agriculture	4,673	2,562	0	0	2,109	0	2	0	0
Department of Commerce	7,824	5	1,705	0	6,114	0	0	0	0
Department of Defense, research [2]	45,282	9,261	31,731	0	3,715	0	575	0	0
Department of Defense, total development [3]	139,110	19,096	118,169	0	854	0	991	0	0
Department of Energy	670	0	0	0	670	0	0	0	0
Department of Health & Human Svcs	35,610	5	2,769	0	32,548	0	101	0	187
Department of the Interior	1,971	1,824	0	0	99	0	0	0	48
Department of Transportation	2,191	283	14	0	1,366	0	0	0	528
Environmental Protection Agency	889	0	0	0	889	0	0	0	0
National Aeronautics and Space Admin	18,349	350	8,477	0	9,522	0	0	0	0
National Science Foundation	12,563	573	812	0	11,178	0	0	0	0
New Jersey, total	1,459,570	392,554	784,488	0	218,031	37,387	17,106	6,082	3,922
Department of Agriculture	7,226	19	0	0	7,207	0	0	0	0
Department of Commerce	23,458	15,892	3,272	0	3,834	0	460	0	0
Department of Defense, research [2]	114,869	37,155	54,270	0	23,260	115	17	52	0
Department of Defense, total development [3]	880,567	298,359	573,431	0	2,672	0	0	6,030	75
Department of Energy	69,267	0	14,369	0	17,401	37,272	225	0	0
Department of Health & Human Svcs	123,404	198	14,454	0	95,006	0	12,755	0	991
Department of the Interior	3,970	3,514	136	0	221	0	0	0	99
Department of Transportation	107,756	35,365	69,185	0	449	0	0	0	2,757
Environmental Protection Agency	5,044	0	0	0	2,159	0	2,885	0	0
National Aeronautics and Space Admin	64,684	1,902	52,483	0	9,647	0	652	0	0
National Science Foundation	59,325	150	2,888	0	56,175	0	112	0	0
New Mexico, total	1,891,565	395,908	170,514	614,018	85,267	608,320	15,147	0	2,391
Department of Agriculture	7,431	3,650	0	0	3,771	0	10	0	0
Department of Commerce	1,400	43	1,113	0	0	0	244	0	0
Department of Defense, research [2]	87,902	40,431	27,892	6,616	9,010	3,647	306	0	0
Department of Defense, total development [3]	498,879	318,138	100,437	57,017	3,032	20,255	0	0	0
Department of Energy	1,175,695	9,031	26,171	548,800	9,958	574,435	7,300	0	0
Department of Health & Human Svcs	46,423	1,693	2,302	0	32,651	6,122	2,717	0	938
Department of the Interior	9,351	8,806	60	0	241	0	0	0	244
Department of Transportation	6,371	0	65	1,333	394	3,370	0	0	1,209
Environmental Protection Agency	4,278	0	993	0	100	0	3,185	0	0
National Aeronautics and Space Admin	40,943	13,630	10,074	252	16,179	390	418	0	0
National Science Foundation	12,892	486	1,407	0	9,931	101	967	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: fiscal year 1998 (revised)

[Dollars in thousands]

State and agency	Total	Intra-mural [1]	Extramural						
			Industrial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institu-tions	FFRDCs admin by non-profit institu-tions	State and local govts
New York, total	2,551,833	191,988	709,033	0	1,121,737	213,181	221,286	0	94,608
Department of Agriculture	33,988	16,169	102	0	16,721	0	996	0	0
Department of Commerce	18,360	972	10,403	0	5,808	27	550	0	600
Department of Defense, research [2]	140,444	57,338	30,634	0	49,523	982	1,967	0	0
Department of Defense, total development [3]	465,914	98,642	352,109	0	12,967	0	2,196	0	0
Department of Energy	553,803	6,351	275,480	0	61,593	207,628	2,751	0	0
Department of Health & Human Svcs	1,076,498	1,421	20,820	0	774,425	1,749	190,151	0	87,932
Department of the Interior	8,200	6,377	61	0	1,752	0	0	0	10
Department of Transportation	9,836	450	2,122	0	1,860	0	0	0	5,404
Environmental Protection Agency	8,621	0	11	0	5,749	0	2,861	0	0
National Aeronautics and Space Admin	58,805	4,268	14,263	0	28,083	1,953	10,238	0	0
National Science Foundation	177,364	0	3,028	0	163,256	842	9,576	0	662
North Carolina, total	924,652	235,873	121,168	0	499,001	0	63,610	0	5,000
Department of Agriculture	33,582	17,100	499	0	15,920	0	63	0	0
Department of Commerce	13,234	4,717	5,705	0	2,812	0	0	0	0
Department of Defense, research [2]	67,277	18,423	10,568	0	36,551	0	1,735	0	0
Department of Defense, total development [3]	73,087	23,178	43,247	0	6,382	0	280	0	0
Department of Energy	16,848	425	0	0	15,251	0	1,172	0	0
Department of Health & Human Svcs	517,469	85,021	20,564	0	359,319	0	50,821	0	1,744
Department of the Interior	7,504	5,424	1,273	0	568	0	55	0	184
Department of Transportation	5,095	0	0	0	2,023	0	0	0	3,072
Environmental Protection Agency	132,314	81,559	35,051	0	10,712	0	4,992	0	0
National Aeronautics and Space Admin	13,266	27	1,609	0	8,497	0	3,133	0	0
National Science Foundation	44,977	0	2,652	0	40,966	0	1,359	0	0
North Dakota, total	52,088	27,360	376	0	21,036	0	1,145	0	2,171
Department of Agriculture	26,003	20,240	0	0	5,763	0	0	0	0
Department of Commerce	659	99	0	0	560	0	0	0	0
Department of Defense, research [2]	2,001	1	0	0	2,000	0	0	0	0
Department of Defense, total development [3]	555	200	355	0	0	0	0	0	0
Department of Energy	5,167	0	0	0	5,167	0	0	0	0
Department of Health & Human Svcs	2,872	5	9	0	2,113	0	335	0	410
Department of the Interior	6,893	6,815	12	0	25	0	0	0	41
Department of Transportation	1,720	0	0	0	0	0	0	0	1,720
Environmental Protection Agency	1,100	0	0	0	1,100	0	0	0	0
National Aeronautics and Space Admin	1,854	0	0	0	1,794	0	60	0	0
National Science Foundation	3,264	0	0	0	2,514	0	750	0	0
Ohio, total	5,562,227	698,173	4,388,253	0	344,724	0	125,380	0	5,697
Department of Agriculture	15,579	7,067	0	0	8,156	0	348	0	8
Department of Commerce	4,387	58	3,074	0	955	0	300	0	0
Department of Defense, research [2]	282,323	182,980	64,441	0	20,743	0	14,159	0	0
Department of Defense, total development [3]	4,276,668	190,954	4,054,163	0	11,856	0	19,695	0	0
Department of Energy	16,901	0	7,927	0	8,595	0	379	0	0
Department of Health & Human Svcs	360,550	33,319	15,538	0	236,409	0	74,237	0	1,047
Department of the Interior	5,397	4,780	18	0	427	0	0	0	172
Department of Transportation	14,638	4,941	4,075	0	1,837	0	80	0	3,705
Environmental Protection Agency	64,938	48,450	10,272	0	3,791	0	1,950	0	475
National Aeronautics and Space Admin	482,907	225,624	227,732	0	15,208	0	14,053	0	290
National Science Foundation	37,939	0	1,013	0	36,747	0	179	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: fiscal year 1998 (revised)

[Dollars in thousands]

State and agency	Total	Intra-mural [1]	Extramural						
			Industrial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institu-tions	FFRDCs admin by non-profit institu-tions	State and local govts
Oklahoma, total	175,497	51,038	54,017	0	60,570	0	7,988	0	1,884
Department of Agriculture	17,712	10,676	0	0	7,036	0	0	0	0
Department of Commerce	6,642	6,472	3	0	167	0	0	0	0
Department of Defense, research [2]	19,313	8,015	6,667	0	4,631	0	0	0	0
Department of Defense, total development [3]	22,127	9,953	11,939	0	235	0	0	0	0
Department of Energy	26,475	1,424	21,371	0	3,680	0	0	0	0
Department of Health & Human Svcs	34,946	11	919	0	26,018	0	7,884	0	114
Department of the Interior	5,489	5,217	4	0	159	0	0	0	109
Department of Transportation	11,787	1,620	8,307	0	199	0	0	0	1,661
Environmental Protection Agency	14,326	7,650	3,407	0	3,269	0	0	0	0
National Aeronautics and Space Admin	3,212	0	1,101	0	2,111	0	0	0	0
National Science Foundation	13,468	0	299	0	13,065	0	104	0	0
Oregon, total	314,710	87,846	24,915	0	171,995	0	20,849	0	9,105
Department of Agriculture	35,129	23,735	0	0	11,281	0	113	0	0
Department of Commerce	16,004	11,088	1,608	0	3,053	0	114	0	141
Department of Defense, research [2]	13,898	0	2,489	0	11,409	0	0	0	0
Department of Defense, total development [3]	2,780	534	1,394	0	462	0	390	0	0
Department of Energy	34,653	27,988	244	0	3,696	0	75	0	2,650
Department of Health & Human Svcs	135,026	21	9,479	0	101,013	0	19,853	0	4,660
Department of the Interior	12,117	11,533	10	0	401	0	0	0	173
Department of Transportation	1,834	0	10	0	543	0	0	0	1,281
Environmental Protection Agency	24,064	12,780	4,695	0	6,389	0	0	0	200
National Aeronautics and Space Admin	9,159	167	3,518	0	5,170	0	304	0	0
National Science Foundation	30,046	0	1,468	0	28,578	0	0	0	0
Pennsylvania, total	1,886,258	132,927	702,304	219	853,437	16,884	173,970	0	6,517
Department of Agriculture	42,490	30,989	113	0	11,210	0	178	0	0
Department of Commerce	5,924	109	3,550	0	653	0	1,612	0	0
Department of Defense, research [2]	161,383	1,599	62,168	0	80,227	16,744	645	0	0
Department of Defense, total development [3]	426,151	27,909	328,862	0	35,613	140	33,627	0	0
Department of Energy	340,893	44,828	257,371	0	25,959	0	12,735	0	0
Department of Health & Human Svcs	725,576	19,222	16,201	0	573,450	0	116,609	0	94
Department of the Interior	8,140	6,223	169	0	1,482	0	0	0	266
Department of Transportation	9,039	123	1,169	219	1,371	0	0	0	6,157
Environmental Protection Agency	4,751	0	136	0	4,615	0	0	0	0
National Aeronautics and Space Admin	51,497	1,925	31,809	0	16,856	0	907	0	0
National Science Foundation	110,414	0	756	0	102,001	0	7,657	0	0
Rhode Island, total	385,411	222,106	78,082	0	60,182	0	22,978	0	2,063
Department of Agriculture	1,835	2	0	0	1,757	0	76	0	0
Department of Commerce	3,727	1,054	493	0	2,180	0	0	0	0
Department of Defense, research [2]	31,024	20,924	1,905	0	8,137	0	58	0	0
Department of Defense, total development [3]	260,829	188,055	72,774	0	0	0	0	0	0
Department of Energy	2,356	0	0	0	2,351	0	5	0	0
Department of Health & Human Svcs	49,613	5	1,260	0	25,318	0	21,618	0	1,412
Department of the Interior	2,477	1,561	0	0	916	0	0	0	0
Department of Transportation	1,001	50	300	0	0	0	0	0	651
Environmental Protection Agency	12,007	10,199	1,250	0	524	0	34	0	0
National Aeronautics and Space Admin	3,308	256	0	0	2,841	0	211	0	0
National Science Foundation	17,234	0	100	0	16,158	0	976	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: fiscal year 1998 (revised)

[Dollars in thousands]

State and agency	Total	Intra-mural [1]	Extramural						
			Industrial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institu-tions	FFRDCs admin by non-profit institu-tions	State and local govts
South Carolina, total	186,221	44,872	22,122	18,191	92,443	0	2,583	692	5,318
Department of Agriculture	14,864	8,443	0	0	6,110	0	0	0	311
Department of Commerce	10,699	8,085	61	0	2,553	0	0	0	0
Department of Defense, research [2]	15,092	937	4,851	0	9,270	0	34	0	0
Department of Defense, total development [3]	37,177	22,368	12,130	0	1,033	0	954	692	0
Department of Energy	28,331	1	888	18,191	8,537	0	714	0	0
Department of Health & Human Svcs	50,813	16	3,570	0	44,686	0	275	0	2,266
Department of the Interior	4,501	3,672	191	0	162	0	0	0	476
Department of Transportation	1,812	0	0	0	51	0	0	0	1,761
Environmental Protection Agency	2,312	0	0	0	1,862	0	0	0	450
National Aeronautics and Space Admin	3,296	1,350	31	0	1,890	0	25	0	0
National Science Foundation	17,324	0	400	0	16,289	0	581	0	54
South Dakota, total	46,003	27,501	6,083	0	9,429	0	2,125	0	865
Department of Agriculture	7,007	4,018	0	0	2,989	0	0	0	0
Department of Commerce	677	102	0	0	0	0	575	0	0
Department of Defense, research [2]	1,349	334	343	0	672	0	0	0	0
Department of Defense, total development [3]	450	395	55	0	0	0	0	0	0
Department of Energy	50	0	0	0	50	0	0	0	0
Department of Health & Human Svcs	2,578	740	365	0	1,323	0	50	0	100
Department of the Interior	13,526	8,631	4,846	0	49	0	0	0	0
Department of Transportation	781	0	16	0	0	0	0	0	765
Environmental Protection Agency	275	0	0	0	275	0	0	0	0
National Aeronautics and Space Admin	15,950	13,281	40	0	1,129	0	1,500	0	0
National Science Foundation	3,360	0	418	0	2,942	0	0	0	0
Tennessee, total	621,155	37,925	54,239	307,181	181,024	10,256	27,685	0	2,845
Department of Agriculture	8,712	1	0	0	8,711	0	0	0	0
Department of Commerce	1,598	886	0	0	187	0	525	0	0
Department of Defense, research [2]	17,381	1,972	4,843	3,065	7,499	0	2	0	0
Department of Defense, total development [3]	47,443	20,052	14,034	12,577	780	0	0	0	0
Department of Energy	319,786	1,604	13,459	286,521	8,078	9,975	149	0	0
Department of Health & Human Svcs	168,671	1,812	3,984	0	135,644	281	26,950	0	0
Department of the Interior	6,193	5,154	12	0	994	0	0	0	33
Department of Transportation	4,382	282	196	1,390	0	0	0	0	2,514
Environmental Protection Agency	1,467	0	149	0	1,318	0	0	0	0
National Aeronautics and Space Admin	29,971	5,957	16,653	3,628	3,435	0	0	0	298
National Science Foundation	15,551	205	909	0	14,378	0	59	0	0
Texas, total	4,110,756	596,978	2,741,834	0	691,377	0	69,230	1,496	9,841
Department of Agriculture	63,664	47,422	0	0	16,221	0	10	0	11
Department of Commerce	12,545	2,590	4,185	0	5,770	0	0	0	0
Department of Defense, research [2]	166,667	56,786	69,704	0	37,621	0	2,556	0	0
Department of Defense, total development [3]	933,699	75,692	831,541	0	22,048	0	2,839	1,496	83
Department of Energy	22,885	0	1,266	0	21,270	0	349	0	0
Department of Health & Human Svcs	523,738	2,036	14,480	0	477,396	0	28,981	0	845
Department of the Interior	23,049	18,873	718	0	3,215	0	83	0	160
Department of Transportation	12,444	0	3,746	0	409	0	0	0	8,289
Environmental Protection Agency	14,976	0	1,601	0	11,175	0	2,000	0	200
National Aeronautics and Space Admin	2,265,388	393,579	1,812,232	0	27,930	0	31,394	0	253
National Science Foundation	71,701	0	2,361	0	68,322	0	1,018	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: fiscal year 1998 (revised)

[Dollars in thousands]

State and agency	Total	Intra-mural [1]	Extramural						
			Industrial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institu-tions	FFRDCs admin by non-profit institu-tions	State and local govts
Utah, total	392,807	135,365	111,547	0	142,514	0	1,296	0	2,085
Department of Agriculture	13,527	8,153	0	0	5,373	0	1	0	0
Department of Commerce	2,293	84	1,502	0	232	0	0	0	475
Department of Defense, research [2]	19,258	6,776	5,039	0	7,443	0	0	0	0
Department of Defense, total development [3]	221,015	113,144	95,044	0	12,827	0	0	0	0
Department of Energy	8,000	0	865	0	6,800	0	0	0	335
Department of Health & Human Svcs	78,397	40	4,316	0	72,863	0	1,040	0	138
Department of the Interior	7,802	6,802	54	0	636	0	0	0	310
Department of Transportation	852	0	25	0	0	0	0	0	827
Environmental Protection Agency	1,208	0	70	0	1,138	0	0	0	0
National Aeronautics and Space Admin	16,306	366	3,919	0	12,021	0	0	0	0
National Science Foundation	24,149	0	713	0	23,181	0	255	0	0
Vermont, total	57,596	4,171	12,827	0	37,865	0	1,483	0	1,250
Department of Agriculture	5,418	1,679	0	0	3,739	0	0	0	0
Department of Commerce	776	126	0	0	40	0	610	0	0
Department of Defense, research [2]	2,315	743	237	0	1,335	0	0	0	0
Department of Defense, total development [3]	11,325	372	10,896	0	57	0	0	0	0
Department of Energy	584	0	141	0	370	0	73	0	0
Department of Health & Human Svcs	29,291	5	496	0	28,020	0	620	0	150
Department of the Interior	1,378	1,246	8	0	84	0	0	0	40
Department of Transportation	497	0	0	0	0	0	0	0	497
Environmental Protection Agency	743	0	0	0	0	0	180	0	563
National Aeronautics and Space Admin	699	0	556	0	143	0	0	0	0
National Science Foundation	4,570	0	493	0	4,077	0	0	0	0
Virginia, total	4,667,864	1,480,464	2,694,070	879	244,283	61,895	43,793	135,732	6,748
Department of Agriculture	9,580	801	0	0	7,917	0	862	0	0
Department of Commerce	13,022	4,439	6,876	0	1,482	0	225	0	0
Department of Defense, research [2]	378,068	105,043	228,092	183	30,078	0	6,060	8,612	0
Department of Defense, total development [3]	3,299,279	1,035,758	2,124,529	696	16,108	150	3,428	118,610	0
Department of Energy	86,785	12,254	3,664	0	8,398	61,745	724	0	0
Department of Health & Human Svcs	167,903	4,201	27,618	0	121,857	0	12,657	546	1,024
Department of the Interior	43,493	41,904	580	0	891	0	46	0	72
Department of Transportation	30,455	264	18,599	0	2,310	0	1,200	4,894	3,188
Environmental Protection Agency	21,704	0	15,942	0	1,902	0	3,860	0	0
National Aeronautics and Space Admin	557,914	271,050	248,826	0	21,057	0	11,545	2,972	2,464
National Science Foundation	59,661	4,750	19,344	0	32,283	0	3,186	98	0
Washington, total	1,244,174	183,685	427,331	0	355,630	0	121,688	149,770	6,070
Department of Agriculture	36,264	23,367	0	0	12,728	0	159	0	10
Department of Commerce	61,629	55,976	1,980	0	3,174	0	89	0	410
Department of Defense, research [2]	44,902	3,558	16,807	0	20,721	0	1,263	2,553	0
Department of Defense, total development [3]	376,187	82,953	286,172	0	3,443	0	419	3,200	0
Department of Energy	161,184	118	5,603	0	17,726	0	263	137,474	0
Department of Health & Human Svcs	381,681	7,787	15,581	0	234,239	0	115,911	5,276	2,887
Department of the Interior	11,445	9,151	19	0	2,001	0	0	0	274
Department of Transportation	5,148	0	1,577	0	15	0	0	1,267	2,289
Environmental Protection Agency	5,272	0	0	0	4,035	0	1,037	0	200
National Aeronautics and Space Admin	109,947	748	97,044	0	10,484	0	1,671	0	0
National Science Foundation	50,515	27	2,548	0	47,064	0	876	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: fiscal year 1998 (revised)

[Dollars in thousands]

State and agency	Total	Intra-mural [1]	Extramural						
			Industrial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institu-tions	FFRDCs admin by non-profit institu-tions	State and local govts
West Virginia, total	242,844	96,682	84,815	0	26,830	30,448	868	0	3,201
Department of Agriculture	20,579	16,276	0	0	3,888	0	38	0	377
Department of Commerce	647	97	0	0	550	0	0	0	0
Department of Defense, research [2]	5,992	0	3,555	0	2,437	0	0	0	0
Department of Defense, total development [3]	12,076	446	11,627	0	0	0	0	0	3
Department of Energy	101,577	46,610	49,956	0	4,165	0	721	0	125
Department of Health & Human Svcs	39,299	26,654	2,988	0	8,691	0	0	0	966
Department of the Interior	7,089	6,599	12	0	114	0	0	0	364
Department of Transportation	2,453	0	1,117	0	150	0	0	0	1,186
Environmental Protection Agency	187	0	0	0	0	0	7	0	180
National Aeronautics and Space Admin	18,286	0	11,603	0	6,581	0	102	0	0
National Science Foundation	34,659	0	3,957	0	254	30,448	0	0	0
Wisconsin, total	332,203	38,021	16,017	0	265,640	0	8,233	0	4,292
Department of Agriculture	34,177	24,555	11	0	9,594	0	17	0	0
Department of Commerce	4,547	517	1,875	0	2,155	0	0	0	0
Department of Defense, research [2]	8,092	287	992	0	6,813	0	0	0	0
Department of Defense, total development [3]	3,906	402	2,390	0	1,114	0	0	0	0
Department of Energy	20,031	0	0	0	19,511	0	520	0	0
Department of Health & Human Svcs	185,558	7	6,057	0	170,526	0	7,478	0	1,490
Department of the Interior	12,733	12,253	5	0	374	0	0	0	101
Department of Transportation	2,952	0	27	0	712	0	0	0	2,213
Environmental Protection Agency	1,988	0	125	0	1,300	0	75	0	488
National Aeronautics and Space Admin	14,615	0	3,967	0	10,530	0	118	0	0
National Science Foundation	43,604	0	568	0	43,011	0	25	0	0
Wyoming, total	33,549	11,991	1,108	0	16,758	0	2,827	0	865
Department of Agriculture	6,833	4,685	0	0	2,144	0	4	0	0
Department of Commerce	24	0	0	0	24	0	0	0	0
Department of Defense, research [2]	2,697	96	0	0	2,601	0	0	0	0
Department of Defense, total development [3]	254	101	0	0	153	0	0	0	0
Department of Energy	3,787	0	0	0	964	0	2,823	0	0
Department of Health & Human Svcs	1,938	4	292	0	1,617	0	0	0	25
Department of the Interior	7,454	7,105	0	0	271	0	0	0	78
Department of Transportation	1,778	0	125	0	891	0	0	0	762
Environmental Protection Agency	450	0	0	0	450	0	0	0	0
National Aeronautics and Space Admin	850	0	412	0	438	0	0	0	0
National Science Foundation	7,484	0	279	0	7,205	0	0	0	0
Outlying areas, total [4]	111,908	40,238	16,847	0	46,129	8,058	0	0	636
Department of Agriculture	13,273	5,063	0	0	8,210	0	0	0	0
Department of Commerce	1,029	620	0	0	408	0	0	0	1
Department of Defense, research [2]	2,453	500	0	0	1,953	0	0	0	0
Department of Defense, total development [3]	43,496	26,700	16,796	0	0	0	0	0	0
Department of Energy	841	0	0	0	841	0	0	0	0
Department of Health & Human Svcs	26,837	682	36	0	25,484	0	0	0	635
Department of the Interior	6,575	6,243	15	0	317	0	0	0	0
Department of Transportation	530	430	0	0	100	0	0	0	0
Environmental Protection Agency	157	0	0	0	157	0	0	0	0
National Aeronautics and Space Admin	3,755	0	0	0	3,755	0	0	0	0
National Science Foundation	12,962	0	0	0	4,904	8,058	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: fiscal year 1998 (revised)

[Dollars in thousands]

State and agency	Total	Intra-mural [1]	Extramural						
			Industrial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institu-tions	FFRDCs admin by non-profit institu-tions	State and local govts
Puerto Rico, total [4]	61,938	7,476	51	0	45,718	8,058	0	0	635
Department of Agriculture	13,273	5,063	0	0	8,210	0	0	0	0
Department of Commerce	994	616	0	0	378	0	0	0	0
Department of Defense, research [2]	1,953	0	0	0	1,953	0	0	0	0
Department of Energy	841	0	0	0	841	0	0	0	0
Department of Health & Human Svcs	26,837	682	36	0	25,484	0	0	0	635
Department of the Interior	1,166	1,115	15	0	36	0	0	0	0
Environmental Protection Agency	157	0	0	0	157	0	0	0	0
National Aeronautics and Space Admin	3,755	0	0	0	3,755	0	0	0	0
National Science Foundation	12,962	0	0	0	4,904	8,058	0	0	0
Other areas, total [4]	49,970	32,762	16,796	0	411	0	0	0	1
Department of Commerce	35	4	0	0	30	0	0	0	1
Department of Defense, research [2]	500	500	0	0	0	0	0	0	0
Department of Defense, total development [3]	43,496	26,700	16,796	0	0	0	0	0	0
Department of the Interior	5,409	5,128	0	0	281	0	0	0	0
Department of Transportation	530	430	0	0	100	0	0	0	0
National Science Foundation	0	0	0	0	0	0	0	0	0
Offices abroad, total	18,222	15,434	2,487	0	301	0	0	0	0
Department of Agriculture	3,132	3,132	0	0	0	0	0	0	0
Department of Defense, research [2]	1,998	1,937	0	0	61	0	0	0	0
Department of Defense, total development [3]	13,092	10,365	2,487	0	240	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, 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, 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.

NOTE: 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 R&D supporting agencies included in this table represent approximately 98 percent of total Federal R&D and R&D plant obligations in fiscal year 1998.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-86. Federal obligations for R&D plant for selected agencies, by State and category of performer supported: fiscal year 1998

[Dollars in thousands]

State	Total	Intra-mural [1]	Extramural						
			Indus-trial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institu-tions	FFRDCs admin by non-profit institu-tions	State and local govts
Total	1,836,657	471,879	487,608	45,581	139,496	663,620	10,867	12,148	5,458
Alabama	38,625	88	38,385	0	152	0	0	0	0
Alaska	3,766	3,766	0	0	0	0	0	0	0
Arizona	7,523	672	0	0	2,851	4,000	0	0	0
Arkansas	18,537	18,537	0	0	0	0	0	0	0
California	426,377	26,446	34,771	0	55,059	310,101	0	0	0
Colorado	65,220	7,728	44,278	0	835	9,641	0	2,738	0
Connecticut	2,558	0	3	0	2,320	0	235	0	0
Delaware	789	104	575	0	0	0	110	0	0
District of Columbia	13,187	3,109	6,878	0	200	0	3,000	0	0
Florida	66,355	9,086	54,998	0	2,271	0	0	0	0
Georgia	3,776	2,531	5	0	1,072	0	0	0	168
Hawaii	3,935	2,982	0	0	67	0	886	0	0
Idaho	11,465	1,043	9,805	366	251	0	0	0	0
Illinois	152,587	3,022	1,549	0	16,090	131,482	444	0	0
Indiana	3,084	149	0	0	2,935	0	0	0	0
Iowa	7,177	2,783	0	0	517	3,877	0	0	0
Kansas	556	256	0	0	300	0	0	0	0
Louisiana	30,406	3,701	25,669	0	1,036	0	0	0	0
Maine	1,573	0	0	0	573	0	1,000	0	0
Maryland	307,397	273,574	29,774	1,500	2,549	0	0	0	0
Massachusetts	10,687	1,170	332	0	9,185	0	0	0	0
Michigan	2,960	197	218	0	2,545	0	0	0	0
Minnesota	3,520	899	2,231	0	390	0	0	0	0
Mississippi	47,561	13,331	33,868	0	362	0	0	0	0
Missouri	4,034	319	2,391	0	1,324	0	0	0	0
Montana	2,009	1,559	0	0	336	0	114	0	0
Nebraska	850	850	0	0	0	0	0	0	0
Nevada	2,888	0	2,667	0	221	0	0	0	0
New Hampshire	2,969	2,855	4	0	110	0	0	0	0
New Jersey	32,094	1,219	9,371	0	2,912	13,293	9	0	5,290
New Mexico	113,945	12,252	7,943	17,301	1,255	75,194	0	0	0
New York	122,148	6,973	5,345	0	10,321	97,839	1,670	0	0
North Carolina	30,430	161	27,727	0	2,542	0	0	0	0
North Dakota	3,208	2,824	0	0	384	0	0	0	0
Ohio	91,210	11,374	78,555	0	1,281	0	0	0	0
Oklahoma	2,600	1,065	487	0	1,048	0	0	0	0
Oregon	3,165	559	0	0	1,106	0	1,500	0	0
Pennsylvania	17,942	2,118	10,095	0	4,903	0	826	0	0
Rhode Island	13,958	13,204	0	0	754	0	0	0	0
South Carolina	7,226	7,046	0	0	180	0	0	0	0
South Dakota	586	77	0	0	509	0	0	0	0
Tennessee	28,809	116	0	26,414	995	1,284	0	0	0
Texas	35,802	4,698	26,761	0	3,343	0	1,000	0	0
Utah	1,480	180	0	0	1,300	0	0	0	0
Vermont	106	0	0	0	106	0	0	0	0
Virginia	53,692	15,582	29,872	0	743	7,495	0	0	0
Washington	14,492	3,281	22	0	1,706	0	73	9,410	0
West Virginia	12,595	1,042	2,139	0	0	9,414	0	0	0
Wisconsin	1,111	1,111	0	0	0	0	0	0	0
Wyoming	666	237	0	0	429	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: fiscal year 1998

[Dollars in thousands]

State	Total	Intra-mural [1]	Extramural						
			Indus-trial firms	FFRDCs admin by indus-trial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institu-tions	FFRDCs admin by non-profit institu-tions	State and local govts
Outlying areas	3,101	2,083	890	0	128	0	0	0	0
Puerto Rico	2,211	2,083	0	0	128	0	0	0	0
Other areas	890	0	890	0	0	0	0	0	0
Offices abroad	3,920	3,920	0	0	0	0	0	0	0

[1] Federal installations

NOTE: 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 R&D supporting agencies included in this table represent approximately 99 percent of total Federal R&D obligations in fiscal year 1998.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-87. Federal obligations for R&D plant, by State and selected agency: fiscal year 1998

[Dollars in thousands]

State	Total	Dept of Agriculture	Dept of Commerce	Dept of Defense	Dept of Energy	Dept of Health & Human Services	Dept of the Interior	Dept of Transportation	EPA	NASA	National Science Foundation
Total	1,836,657	89,788	48,272	65,763	727,096	286,276	1,500	17,617	66,000	350,000	184,345
Alabama	38,625	86	0	33	0	2	0	0	0	38,352	152
Alaska	3,766	0	3,766	0	0	0	0	0	0	0	0
Arizona	7,523	672	0	0	0	0	0	0	0	0	6,851
Arkansas	18,537	457	0	0	0	18,080	0	0	0	0	0
California	426,377	22,838	0	640	301,286	7,280	0	0	0	45,318	49,015
Colorado	65,220	622	7,006	0	3,796	0	0	1,067	0	102	52,627
Connecticut	2,558	0	0	1	370	1,000	0	260	0	2	925
Delaware	789	104	0	0	0	0	0	0	0	575	110
District of Columbia	13,187	1,570	0	0	231	200	0	0	5,280	1,512	4,394
Florida	66,355	7,376	0	17	190	990	0	0	5,280	51,331	1,171
Georgia	3,776	1,142	0	5	0	1,389	0	0	0	0	1,240
Hawaii	3,935	1,447	2,421	0	0	0	0	0	0	0	67
Idaho	11,465	1,043	0	0	10,171	0	0	0	0	0	251
Illinois	152,587	2,739	0	1,510	131,470	836	0	0	0	166	15,866
Indiana	3,084	149	0	0	664	0	0	0	0	0	2,271
Iowa	7,177	2,783	0	0	3,877	517	0	0	0	0	0
Kansas	556	250	0	0	300	6	0	0	0	0	0
Louisiana	30,406	2,846	0	0	0	855	0	0	0	25,669	1,036
Maine	1,573	0	0	0	0	1,000	0	0	0	0	573
Maryland	307,397	7,901	19,477	12,496	0	238,604	5	0	0	27,865	1,049
Massachusetts	10,687	560	0	679	5,226	10	0	0	0	253	3,959
Michigan	2,960	197	0	0	200	0	0	0	0	218	2,345
Minnesota	3,520	899	0	0	41	0	0	0	0	2,231	349
Mississippi	47,561	9,177	0	190	162	0	0	0	0	37,832	200
Missouri	4,034	319	0	0	17	0	0	0	0	2,391	1,307
Montana	2,009	1,559	0	0	0	0	0	0	0	0	450
Nebraska	850	850	0	0	0	0	0	0	0	0	0
Nevada	2,888	0	0	0	2,667	0	0	0	0	0	221
New Hampshire	2,969	145	2,690	4	0	0	0	0	0	0	130
New Jersey	32,094	0	0	102	13,530	9	1,488	14,290	0	0	2,675
New Mexico	113,945	252	0	12,000	92,495	0	0	0	0	7,943	1,255
New York	122,148	4,583	0	1	103,385	4,026	0	0	0	244	9,909
North Carolina	30,430	161	0	7	190	944	0	0	27,720	0	1,408
North Dakota	3,208	2,824	0	0	0	0	0	0	0	0	384
Ohio	91,210	251	0	13,460	0	4	0	0	27,720	48,494	1,281
Oklahoma	2,600	1,065	0	0	398	737	0	0	0	89	311
Oregon	3,165	559	0	0	0	2,500	0	0	0	0	106
Pennsylvania	17,942	1,668	0	65	9,596	3,245	0	0	0	1,766	1,602
Rhode Island	13,958	0	4,304	8,900	0	0	0	0	0	0	754
South Carolina	7,226	859	6,187	0	0	0	0	0	0	0	180
South Dakota	586	77	0	0	0	0	0	0	0	0	509
Tennessee	28,809	0	0	0	27,698	0	0	0	0	116	995
Texas	35,802	2,666	0	188	170	2,231	7	0	0	28,598	1,942
Utah	1,480	180	0	0	0	0	0	0	0	0	1,300
Vermont	106	0	0	0	0	0	0	0	0	0	106
Virginia	53,692	0	0	14,045	7,495	0	0	2,000	0	27,772	2,380
Washington	14,492	831	2,421	0	10,471	29	0	0	0	22	718
West Virginia	12,595	1,042	0	0	1,000	0	0	0	0	1,139	9,414
Wisconsin	1,111	1,111	0	0	0	0	0	0	0	0	0
Wyoming	666	237	0	0	0	0	0	0	0	0	429
Outlying areas	3,101	301	0	890	0	1,782	0	0	0	0	128
Puerto Rico	2,211	301	0	0	0	1,782	0	0	0	0	128
Other areas	890	0	0	890	0	0	0	0	0	0	0
Offices abroad	3,920	3,390	0	530	0	0	0	0	0	0	0

NOTE: 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 R&D supporting agencies included in this table represent approximately 99 percent of total Federal R&D obligations in fiscal year 1998.

KEY: EPA = Environmental Protection Agency
NASA = National Aeronautics & Space Administration

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-88. Federal obligations for total research and development to intramural performers for personnel costs, by agency: fiscal years 1998, 1999, and 2000

[In thousands of dollars and percentages]

Agency and subdivision	1998			Preliminary					
				1999			2000		
	Total	Personnel costs	Percent of total	Total	Personnel costs	Percent of total	Total	Personnel costs	Percent of total
Total, all agencies	17,113,991	7,569,467	44	18,271,626	7,651,896	42	17,641,680	7,551,548	43
Departments:									
Department of Agriculture, total	996,442	588,542	59	1,069,990	633,367	59	1,099,798	654,069	59
Agricultural Marketing Service	4,417	1,707	39	4,696	1,765	38	5,017	1,821	36
Agricultural Research Service	713,986	395,477	55	781,384	437,341	56	813,518	456,790	56
Animal & Plant Hlth Inspection Svc	16,595	11,782	71	16,937	11,295	67	17,033	12,093	71
Cooperative State Research, Education, & Extension Service	19,923	12,566	63	22,971	13,189	57	24,790	13,870	56
Economic Research Service	63,077	39,779	63	55,897	39,337	70	50,588	38,737	77
Food Safety Inspection Service	190	15	8	190	15	8	190	15	8
Foreign Agricultural Service	971	971	100	971	971	100	971	971	100
Forest Service	170,210	122,000	72	179,810	125,000	70	179,810	125,000	70
Grain Inspection Packers & Stockyards Administration	2,745	550	20	2,745	550	20	3,410	682	20
Nat'l Agricultural Statistics Svc	3,112	2,479	80	2,971	2,486	84	2,971	2,590	87
Rural Business-Cooperative Svc	1,216	1,216	100	1,418	1,418	100	1,500	1,500	100
Department of Commerce, total	673,839	417,338	62	728,242	447,701	61	711,507	421,527	59
Bureau of the Census	8,562	6,110	71	16,332	11,654	71	8,272	5,618	68
Economic Development Admin	50	50	100	50	50	100	50	50	100
Nat'l Inst of Standards & Tech	226,014	146,499	65	234,791	156,308	67	238,178	159,275	67
Nat'l Oceanic & Atmospheric Admin	432,176	257,642	60	468,521	271,141	58	455,711	247,288	54
National Telecommunications & Information Administration	7,037	7,037	100	8,548	8,548	100	9,296	9,296	100
Department of Defense, total	8,278,863	3,043,471	37	8,921,810	2,922,058	33	7,877,612	2,626,756	33
Department of the Air Force	1,529,852	553,856	36	1,591,000	384,601	24	1,415,485	313,107	22
Department of the Army	1,864,389	803,835	43	1,922,352	764,872	40	1,504,638	585,836	39
Department of the Navy	2,900,286	1,234,538	43	3,130,953	1,326,227	42	2,959,039	1,267,054	43
Defense Agencies, total	1,752,898	448,654	26	2,065,481	443,845	21	1,775,559	458,093	26
Ballistic Missile Defense Org	608,414	100,492	17	926,276	101,279	11	773,620	103,271	13
Defense Adv Rsch Projects Agcy	294,802	215,984	73	269,706	195,884	73	275,772	198,769	72
Defense Info Systems Agcy	17,120	11,424	67	47,633	31,009	65	53,150	36,183	68
Defense Logistics Agency	36,674	2,407	7	30,764	197	1	22,865	202	1
Defense Threat Reduction Agency[1]	70,939	0	0	71,932	0	0	81,258	0	0
Joint Staff	53,945	1	*	161,241	1	*	49,073	1	*
Special Operations Command	43,235	4,365	10	62,811	5,932	9	58,139	5,971	10
Washington Headquarters Svcs	627,769	113,981	18	495,118	109,543	22	461,682	113,696	25
Operational Test & Evaluation, Director	7,281	347	5	5,199	445	9	2,989	467	16
Test & Evaluation, Deputy Under Secretary of Defense	224,157	2,241	1	206,825	2,068	1	219,902	2,199	1
Department of Education	9,551	6,710	70	13,418	7,070	53	35,951	7,454	21
Department of Energy	463,220	119,560	26	572,244	116,950	20	666,550	118,073	18

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

Table C-88. Federal obligations for total research and development to intramural performers for personnel costs, by agency: fiscal years 1998, 1999, and 2000

[In thousands of dollars and percentages]

Agency and subdivision	1998			Preliminary					
				1999			2000		
	Total	Personnel costs	Percent of total	Total	Personnel costs	Percent of total	Total	Personnel costs	Percent of total
Dept of Health & Human Svcs, total	2,809,392	1,205,663	43	3,028,807	1,331,105	44	3,224,965	1,485,327	46
Administration on Aging	526	288	55	526	288	55	526	288	55
Admin for Children & Families	948	563	59	1,219	439	36	1,074	674	63
Agcy for Hlth Care Policy & Rsch	36,167	20,940	58	70,900	21,593	30	94,849	25,400	27
Centers for Disease Control & Prevention	239,825	203,851	85	272,825	231,901	85	357,052	303,494	85
Food & Drug Administration	118,796	106,916	90	117,459	105,713	90	126,245	113,621	90
Health Care Financing Admin	353	10	3	60	10	17	70	10	14
Health Resources & Services Admin	2,960	2,497	84	2,693	2,614	97	2,817	2,736	97
National Institutes of Health	2,405,001	868,540	36	2,558,824	966,246	38	2,637,763	1,036,653	39
Office of the Secretary, total	4,815	2,057	43	4,300	2,300	53	4,450	2,450	55
Office of the Asst Secretary, Planning & Evaluation	4,538	1,780	39	4,000	2,000	50	4,000	2,000	50
Office of Public Hlth & Science	277	277	100	300	300	100	450	450	100
Substance Abuse & Mental Health Services Administration[2]	1	1	100	1	1	100	119	1	1
Dept of Housing & Urban Development	16,960	13,000	77	31,293	22,000	70	31,447	22,000	70
Department of the Interior, total	460,832	271,741	59	491,462	289,208	59	511,843	298,932	58
Bureau of Reclamation	6,557	3,300	50	6,017	3,300	55	7,865	3,300	42
Geological Survey	431,030	249,295	58	461,605	266,618	58	478,466	274,899	57
Minerals Management Service	6,614	4,851	73	7,211	4,995	69	7,329	5,117	70
National Park Service	16,631	14,295	86	16,629	14,295	86	18,183	15,616	86
Department of Justice, total	39,679	7,266	18	40,986	7,322	18	39,711	7,357	19
Bureau of Prisons	3,000	2,700	90	3,000	2,700	90	3,000	2,700	90
Federal Bureau of Investigation	35,812	4,557	13	36,160	4,605	13	36,208	4,653	13
Immigration & Naturalization Svc	0	0	0	200	1	*	500	1	*
Office of Justice Programs	867	9	1	1,626	16	1	3	3	100
Department of Labor, total	11,023	4,804	44	15,135	4,916	32	15,489	5,270	34
Bureau of Labor Statistics	8,400	2,181	26	12,400	2,181	18	12,400	2,181	18
Employment & Training Admin	155	155	100	164	164	100	168	168	100
Occupational Safety & Hlth Admin	1,697	1,697	100	1,741	1,741	100	1,817	1,817	100
Office of the Secretary	60	60	100	60	60	100	60	60	100
Pension Benefit Guaranty Corp	251	251	100	266	266	100	269	269	100
Pension & Welfare Benefits Admin	460	460	100	504	504	100	775	775	100
Department of State[3]	324	324	100	327	327	100	327	327	100
Department of Transportation, total	190,793	109,886	58	224,036	106,029	47	286,199	112,050	39
Coast Guard	12,789	7,000	55	11,737	7,200	61	13,484	7,470	55
Federal Aviation Administration	92,636	82,282	89	69,513	69,513	100	73,110	73,110	100
Federal Highway Administration	39,565	4,755	12	80,085	10,792	13	137,359	11,744	9
Federal Railroad Administration	9,516	1,553	16	12,759	1,805	14	12,965	1,956	15
Federal Transit Administration	2,303	2,303	100	2,385	2,385	100	2,475	2,475	100
National Highway Traffic Safety Administration	26,637	8,790	33	32,224	10,634	33	37,576	12,400	33
Office of the Secretary	3,433	1,736	51	9,631	1,646	17	4,475	1,216	27
Research & Special Programs Admin	3,914	1,467	37	5,702	2,054	36	4,755	1,679	35
Department of the Treasury, total	43,553	39,702	91	44,104	40,230	91	44,842	41,161	92
Bureau of Engraving & Printing	2,799	327	12	2,368	160	7	2,424	86	4
Internal Revenue Service	36,902	35,688	97	37,647	36,177	96	38,059	36,931	97
Office of Thrift Supervision	684	519	76	766	570	74	855	640	75
United States Customs Service	2,884	2,884	100	2,909	2,909	100	3,040	3,040	100
United States Mint	1	1	100	51	51	100	75	75	100
United States Secret Service	283	283	100	363	363	100	389	389	100
Department of Veterans Affairs	277,094	157,924	57	320,477	185,875	58	316,000	189,600	60

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

Table C-88. Federal obligations for total research and development to intramural performers for personnel costs, by agency: fiscal years 1998, 1999, and 2000

[In thousands of dollars and percentages]

Agency and subdivision	1998			Preliminary					
				1999			2000		
	Total	Personnel costs	Percent of total	Total	Personnel costs	Percent of total	Total	Personnel costs	Percent of total
Other agencies:									
Appalachian Regional Commission	15	15	100	1	1	100	1	1	100
Consumer Product Safety Commission	0	0	0	90	90	100	264	264	100
Environmental Protection Agency	254,988	254,988	100	241,629	241,629	100	230,455	230,455	100
Federal Communications Commission	3,025	3,025	100	4,178	4,178	100	2,747	2,747	100
Federal Trade Commission	1,144	860	75	1,097	821	75	1,379	1,031	75
Internat'l Development Cooperation Agency, total	22,560	17,702	78	23,479	17,611	75	23,146	16,271	70
Agcy for Internat'l Development[4]	22,560	17,702	78	23,479	17,611	75	23,146	16,271	70
Library of Congress	880	708	80	1,231	875	71	1,319	881	67
National Aeronautics & Space Admin	2,395,500	1,193,409	50	2,330,500	1,156,634	50	2,346,073	1,189,774	51
National Archives & Records Admin	120	120	100	120	120	100	120	120	100
National Science Foundation	16,954	11,866	70	18,625	13,039	70	20,026	14,019	70
Nuclear Regulatory Commission	14,301	12,015	84	14,467	12,698	88	14,251	12,590	88
Smithsonian Institution	120,000	78,000	65	122,000	79,300	65	129,000	83,850	65
Social Security Administration	2,336	2,336	100	4,855	4,855	100	3,414	3,414	100
Tennessee Valley Authority	2,655	2,023	76	0	0	0	0	0	0
US Arms Control & Disarmament Agcy[3]	525	200	38	50	50	100	0	0	0
United States Information Agency	258	6	2	100	5	5	100	5	5
US International Trade Commission	7,165	6,263	87	6,873	5,832	85	7,144	6,223	87

1 The Defense Threat Reduction Agency (DTRA) was established on October 1, 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.

2 Data for fiscal years 1998-2000 from the Substance Abuse & Mental Health Services Administration (SAMHSA) are estimates based on SAMHSA's obligations by program activity budget and previously reported funding for development.

3 Effective April 1, 1999, all functions and authorities of the United States Arms Control & Disarmament Agency were transferred to the Department of State.

4 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 (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-1996). More accurate data for AID will be reported in future volumes of this survey.

NOTES: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

Because of rounding, detail may not add to totals.

KEY: * = Amount less than .05 percent

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-89. Federal obligations for total basic research to intramural performers for personnel costs, by agency: fiscal years 1998, 1999, and 2000

[In thousands of dollars and percentages]

Agency and subdivision	1998			Preliminary					
				1999			2000		
	Total	Personnel costs	Percent of total	Total	Personnel costs	Percent of total	Total	Personnel costs	Percent of total
Total, all agencies	2,917,780	1,293,059	44	3,107,467	1,406,497	45	3,336,199	1,512,027	45
Departments:									
Department of Agriculture, total	421,443	240,518	57	465,963	266,643	57	483,146	277,157	57
Agricultural Research Service	378,413	209,603	55	421,948	236,164	56	439,300	246,667	56
Cooperative State Research, Education, & Extension Service	8,576	5,278	62	9,856	5,539	56	10,621	5,825	55
Economic Research Service	7,155	4,512	63	6,497	4,572	70	5,563	4,260	77
Food Safety Inspection Service	125	10	8	125	10	8	125	10	8
Foreign Agricultural Service	721	721	100	721	721	100	721	721	100
Forest Service	25,356	19,520	77	25,756	18,750	73	25,756	18,750	73
Nat'l Agricultural Statistics Svc	1,097	874	80	1,060	887	84	1,060	924	87
Department of Commerce, total	35,394	24,450	69	41,152	26,424	64	40,259	26,573	66
Bureau of the Census	550	374	68	1,049	713	68	531	408	77
Nat'l Inst of Standards & Tech	34,639	24,075	70	36,709	25,710	70	36,279	26,164	72
Nat'l Oceanic & Atmospheric Admin	205	1	*	3,394	1	*	3,449	1	*
Department of Defense, total	309,521	104,648	34	306,745	111,947	36	354,956	115,816	33
Department of the Air Force	85,523	9,233	11	71,432	8,157	11	89,200	8,539	10
Department of the Army	87,492	37,684	43	82,476	41,084	50	102,390	40,913	40
Department of the Navy	109,119	47,925	44	120,484	52,917	44	130,816	57,454	44
Defense Agencies, total	27,387	9,806	36	32,353	9,789	30	32,550	8,910	27
Defense Adv Rsch Projects Agcy	6,367	4,775	75	4,588	3,441	75	5,094	3,821	75
Washington Headquarters Svcs	21,020	5,031	24	27,765	6,348	23	27,456	5,089	19
Department of Education	146	103	71	135	95	70	95	68	72
Department of Energy	46,895	9,706	21	45,322	3,336	7	66,032	3,450	5
Dept of Health & Human Svcs, total	1,263,026	456,799	36	1,343,794	508,121	38	1,385,270	545,120	39
Health Resources & Services Admin	1,050	1,050	100	1,102	1,102	100	1,157	1,157	100
National Institutes of Health	1,261,976	455,749	36	1,342,692	507,019	38	1,384,113	543,963	39
Department of the Interior, total	45,384	26,676	59	47,426	27,955	59	48,503	28,478	59
Geological Survey	45,344	26,661	59	47,386	27,940	59	48,463	28,463	59
National Park Service	40	15	38	40	15	38	40	15	38
Department of Justice, total	250	2	1	275	2	1	1	1	100
Office of Justice Programs	250	2	1	275	2	1	1	1	100
Department of Labor, total	7,100	1,221	17	11,100	1,221	11	11,100	1,221	11
Bureau of Labor Statistics	7,100	1,221	17	11,100	1,221	11	11,100	1,221	11
Department of Transportation, total	8,458	1,539	18	11,999	1,632	14	26,131	1,762	7
Federal Highway Administration	8,458	1,539	18	11,999	1,632	14	26,131	1,762	7
Department of the Treasury, total	34	29	85	38	15	39	28	7	25
Bureau of Engraving & Printing	34	29	85	38	15	39	28	7	25
Department of Veterans Affairs	120,015	68,390	57	139,855	81,115	58	137,500	82,500	60

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

Table C-89. Federal obligations for total basic research to intramural performers for personnel costs, by agency: fiscal years 1998, 1999, and 2000

[In thousands of dollars and percentages]

Agency and subdivision	1998			Preliminary					
				1999			2000		
	Total	Personnel costs	Percent of total	Total	Personnel costs	Percent of total	Total	Personnel costs	Percent of total
Other agencies:									
Environmental Protection Agency	17,095	17,095	100	22,534	22,534	100	22,080	22,080	100
Internat'l Development Cooperation Agency, total	218	159	73	8	6	75	13	9	69
Agcy for Internat'l Development[1]	218	159	73	8	6	75	13	9	69
National Aeronautics & Space Admin	506,613	252,388	50	531,354	263,713	50	612,938	310,531	51
National Science Foundation	16,140	11,297	70	17,767	12,438	70	19,147	13,404	70
Smithsonian Institution	120,000	78,000	65	122,000	79,300	65	129,000	83,850	65
Tennessee Valley Authority	48	39	81	0	0	0	0	0	0

[1] 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 (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-1996). More accurate data for AID will be reported in future volumes of this survey.

NOTES: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

Because of rounding, detail may not add to totals.

KEY: * = Amount less than .05 percent

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-90. Federal obligations for total applied research to intramural performers for personnel costs, by agency: fiscal years 1998, 1999, and 2000

[In thousands of dollars and percentages]

Agency and subdivision	1998			Preliminary					
				1999			2000		
	Total	Personnel costs	Percent of total	Total	Personnel costs	Percent of total	Total	Personnel costs	Percent of total
Total, all agencies	5,046,947	2,948,390	58	5,332,631	3,073,776	58	5,439,527	3,098,573	57
Departments:									
Department of Agriculture, total	475,681	290,223	61	490,909	300,391	61	499,961	307,913	62
Agricultural Marketing Service	3,714	1,486	40	4,000	1,533	38	4,268	1,577	37
Agricultural Research Service	271,314	150,281	55	289,112	161,816	56	301,002	169,012	56
Cooperative State Research, Education, & Extension Service	11,347	7,288	64	13,115	7,650	58	14,169	8,045	57
Economic Research Service	55,922	35,267	63	49,400	34,765	70	45,025	34,477	77
Foreign Agricultural Service	250	250	100	250	250	100	250	250	100
Forest Service	129,354	92,720	72	131,154	91,250	70	131,154	91,250	70
Grain Inspection Packers & Stockyards Administration	549	110	20	549	110	20	682	136	20
Nat'l Agricultural Statistics Svc	2,015	1,605	80	1,911	1,599	84	1,911	1,666	87
Rural Business-Cooperative Svc	1,216	1,216	100	1,418	1,418	100	1,500	1,500	100
Department of Commerce, total	590,017	359,188	61	639,295	394,292	62	626,475	372,324	59
Bureau of the Census	4,616	3,255	71	8,805	6,209	71	4,460	3,522	79
Economic Development Admin	50	50	100	50	50	100	50	50	100
Nat'l Inst of Standards & Tech	175,285	110,800	63	181,737	118,253	65	185,052	120,445	65
Nat'l Oceanic & Atmospheric Admin	406,300	241,317	59	444,820	265,897	60	430,719	242,113	56
National Telecommunications & Information Administration	3,766	3,766	100	3,883	3,883	100	6,194	6,194	100
Department of Defense, total	1,098,395	681,210	62	1,120,843	685,084	61	1,084,107	634,961	59
Department of the Air Force	308,887	243,964	79	308,225	257,159	83	284,470	196,591	69
Department of the Army	367,496	246,532	67	375,327	219,028	58	359,848	233,606	65
Department of the Navy	213,902	123,999	58	234,573	135,982	58	229,089	132,803	58
Defense Agencies, total	208,110	66,715	32	202,718	72,915	36	210,700	71,961	34
Ballistic Missile Defense Org	24,783	3,485	14	21,559	3,780	18	11,013	734	7
Defense Adv Rsch Projects Agcy	61,854	46,391	75	69,975	52,481	75	75,907	56,930	75
Defense Info Systems Agcy	1,094	1	*	2,389	1	*	1,966	1	*
Defense Logistics Agency	7,171	1	*	6,761	1	*	8,261	1	*
Defense Threat Reduction Agency[1]	61,136	0	0	54,831	0	0	61,083	0	0
Special Operations Command	4,755	133	3	5,653	152	3	5,232	121	2
Washington Headquarters Svcs	47,317	16,704	35	41,550	16,500	40	47,238	14,174	30
Department of Education	6,851	4,815	70	7,729	4,652	60	12,920	4,417	34
Department of Energy	136,110	27,234	20	184,345	26,223	14	244,992	40,111	16

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

Table C-90. Federal obligations for total applied research to intramural performers for personnel costs, by agency: fiscal years 1998, 1999, and 2000

[In thousands of dollars and percentages]

Agency and subdivision	1998			Preliminary					
				1999			2000		
	Total	Personnel costs	Percent of total	Total	Personnel costs	Percent of total	Total	Personnel costs	Percent of total
Dept of Health & Human Svcs, total	1,174,521	609,372	52	1,287,494	666,300	52	1,431,076	773,831	54
Administration on Aging	185	57	31	185	57	31	185	57	31
Admin for Children & Families	948	563	59	1,219	439	36	1,074	674	63
Agcy for Hlth Care Policy & Rsch	28,467	13,240	47	60,800	11,493	19	85,849	16,400	19
Centers for Disease Control & Prevention	239,825	203,851	85	272,825	231,901	85	357,052	303,494	85
Food & Drug Administration	118,796	106,916	90	117,459	105,713	90	126,245	113,621	90
Health Care Financing Admin	353	10	3	60	10	17	70	10	14
Health Resources & Services Admin	1,910	1,447	76	1,591	1,512	95	1,660	1,579	95
National Institutes of Health	779,499	281,508	36	829,355	313,175	38	854,941	335,996	39
Office of the Secretary, total	4,538	1,780	39	4,000	2,000	50	4,000	2,000	50
Office of the Asst Secretary, Planning & Evaluation	4,538	1,780	39	4,000	2,000	50	4,000	2,000	50
Dept of Housing & Urban Development	6,263	5,000	80	11,493	8,000	70	12,277	8,000	65
Department of the Interior, total	390,879	231,551	59	418,305	246,992	59	435,265	255,270	59
Bureau of Reclamation	5,557	3,000	54	5,017	3,000	60	6,365	3,000	47
Geological Survey	362,117	209,420	58	389,488	224,717	58	403,428	231,552	57
Minerals Management Service	6,614	4,851	73	7,211	4,995	69	7,329	5,117	70
National Park Service	16,591	14,280	86	16,589	14,280	86	18,143	15,601	86
Department of Justice, total	3,116	2,306	74	3,850	2,313	60	2,501	2,301	92
Bureau of Prisons	2,500	2,300	92	2,500	2,300	92	2,500	2,300	92
Office of Justice Programs	616	6	1	1,350	13	1	1	1	100
Department of Labor, total	3,589	3,249	91	3,682	3,342	91	4,028	3,688	92
Bureau of Labor Statistics	1,300	960	74	1,300	960	74	1,300	960	74
Employment & Training Admin	47	47	100	50	50	100	51	51	100
Occupational Safety & Hlth Admin	1,697	1,697	100	1,741	1,741	100	1,817	1,817	100
Office of the Secretary	30	30	100	30	30	100	30	30	100
Pension Benefit Guaranty Corp	55	55	100	57	57	100	55	55	100
Pension & Welfare Benefits Admin	460	460	100	504	504	100	775	775	100
Department of State[2]	324	324	100	327	327	100	327	327	100
Department of Transportation, total	96,084	45,555	47	113,592	59,775	53	141,426	71,044	50
Coast Guard	3,285	2,100	64	3,000	2,160	72	3,237	2,260	70
Federal Aviation Administration	31,506	31,506	100	37,125	37,125	100	46,219	46,219	100
Federal Highway Administration	21,959	138	1	24,476	5,895	24	38,220	6,459	17
Federal Railroad Administration	9,360	1,473	16	12,609	1,725	14	12,815	1,876	15
Federal Transit Administration	400	400	100	600	600	100	500	500	100
National Highway Traffic Safety Administration	26,637	8,790	33	32,224	10,634	33	37,576	12,400	33
Research & Special Programs Admin	2,937	1,148	39	3,558	1,636	46	2,859	1,330	47
Department of the Treasury, total	38,712	35,090	91	39,247	35,674	91	39,829	36,451	92
Bureau of Engraving & Printing	2,642	199	8	2,198	91	4	2,286	51	2
Internal Revenue Service	35,053	34,039	97	35,845	34,575	96	36,199	35,271	97
Office of Thrift Supervision	684	519	76	766	570	74	855	640	75
United States Customs Service	50	50	100	75	75	100	100	100	100
United States Secret Service	283	283	100	363	363	100	389	389	100
Department of Veterans Affairs	149,051	84,959	57	171,294	99,350	58	169,500	101,700	60

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

Table C-90. Federal obligations for total applied research to intramural performers for personnel costs, by agency: fiscal years 1998, 1999, and 2000

[In thousands of dollars and percentages]

Agency and subdivision	1998			Preliminary					
				1999			2000		
	Total	Personnel costs	Percent of total	Total	Personnel costs	Percent of total	Total	Personnel costs	Percent of total
Other agencies:									
Appalachian Regional Commission	15	15	100	1	1	100	1	1	100
Consumer Product Safety Commission	0	0	0	0	0	0	168	168	100
Environmental Protection Agency	229,834	229,834	100	211,122	211,122	100	200,830	200,830	100
Federal Communications Commission	3,025	3,025	100	4,178	4,178	100	2,747	2,747	100
Federal Trade Commission	1,144	860	75	1,097	821	75	1,379	1,031	75
Internat'l Development Cooperation Agency, total	18,822	14,305	76	17,946	13,461	75	17,073	11,717	69
Agcy for Internat'l Development[3]	18,822	14,305	76	17,946	13,461	75	17,073	11,717	69
Library of Congress	455	357	78	595	472	79	614	491	80
National Aeronautics & Space Admin	597,779	297,806	50	577,964	286,845	50	486,123	246,283	51
National Archives & Records Admin	120	120	100	120	120	100	120	120	100
National Science Foundation	814	569	70	858	601	70	879	615	70
Nuclear Regulatory Commission	14,301	12,015	84	14,467	12,698	88	14,251	12,590	88
Social Security Administration	2,336	2,336	100	4,855	4,855	100	3,414	3,414	100
Tennessee Valley Authority	761	603	79	0	0	0	0	0	0
US Arms Control & Disarmament Agcy[2]	525	200	38	50	50	100	0	0	0
United States Information Agency	258	6	2	100	5	5	100	5	5
US International Trade Commission	7,165	6,263	87	6,873	5,832	85	7,144	6,223	87

[1] The Defense Threat Reduction Agency (DTRA) was established on October 1, 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.

[2] Effective April 1, 1999, all functions and authorities of the United States Arms Control & Disarmament Agency were transferred to the Department of State.

[3] 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 (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-1996). More accurate data for AID will be reported in future volumes of this survey.

NOTES: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

Because of rounding, detail may not add to totals.

KEY: * = Amount less than .05 percent

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-91. Federal obligations for total development to intramural performers for personnel costs, by agency: fiscal years 1998, 1999, and 2000

[In thousands of dollars and percentages]

Agency and subdivision	1998			Preliminary					
				1999			2000		
	Total	Personnel costs	Percent of total	Total	Personnel costs	Percent of total	Total	Personnel costs	Percent of total
Total, all agencies	9,149,264	3,328,018	36	9,831,528	3,171,623	32	8,865,954	2,940,948	33
Departments:									
Department of Agriculture, total	99,318	57,801	58	113,118	66,333	59	116,691	68,999	59
Agricultural Marketing Service	703	221	31	696	232	33	749	244	33
Agricultural Research Service	64,259	35,593	55	70,324	39,361	56	73,216	41,111	56
Animal & Plant Hlth Inspection Svc	16,595	11,782	71	16,937	11,295	67	17,033	12,093	71
Food Safety Inspection Service	65	5	8	65	5	8	65	5	8
Forest Service	15,500	9,760	63	22,900	15,000	66	22,900	15,000	66
Grain Inspection Packers & Stockyards Administration	2,196	440	20	2,196	440	20	2,728	546	20
Department of Commerce, total	48,428	33,700	70	47,795	26,985	56	44,773	22,630	51
Bureau of the Census	3,396	2,481	73	6,478	4,732	73	3,281	1,688	51
Nat'l Inst of Standards & Tech	16,090	11,624	72	16,345	12,345	76	16,847	12,666	75
Nat'l Oceanic & Atmospheric Admin	25,671	16,324	64	20,307	5,243	26	21,543	5,174	24
National Telecommunications & Information Administration	3,271	3,271	100	4,665	4,665	100	3,102	3,102	100
Department of Defense, total	6,870,947	2,257,613	33	7,494,222	2,125,027	28	6,438,549	1,875,979	29
Department of the Air Force	1,135,442	300,659	26	1,211,343	119,285	10	1,041,815	107,977	10
Department of the Army	1,409,401	519,619	37	1,464,549	504,760	34	1,042,400	311,317	30
Department of the Navy	2,577,265	1,062,614	41	2,775,896	1,137,328	41	2,599,134	1,076,797	41
Defense Agencies, total	1,517,401	372,133	25	1,830,410	361,141	20	1,532,309	377,222	25
Ballistic Missile Defense Org	583,631	97,007	17	904,717	97,499	11	762,607	102,537	13
Defense Adv Rsch Projects Agcy	226,581	164,818	73	195,143	139,962	72	194,771	138,018	71
Defense Info Systems Agcy	16,026	11,423	71	45,244	31,008	69	51,184	36,182	71
Defense Logistics Agency	29,503	2,406	8	24,003	196	1	14,604	201	1
Defense Threat Reduction Agency[1]	9,803	0	0	17,101	0	0	20,175	0	0
Joint Staff	53,945	1	*	161,241	1	*	49,073	1	*
Special Operations Command	38,480	4,232	11	57,158	5,780	10	52,907	5,850	11
Washington Headquarters Svcs	559,432	92,246	16	425,803	86,695	20	386,988	94,433	24
Operational Test & Evaluation, Director	7,281	347	5	5,199	445	9	2,989	467	16
Test & Evaluation, Deputy Under Secretary of Defense	224,157	2,241	1	206,825	2,068	1	219,902	2,199	1
Department of Defense, total advanced technology (at)	1,478,698	568,759	38	1,401,217	355,945	25	1,045,262	352,174	34
Department of the Air Force (at)	524,758	253,172	48	150,659	62,629	42	159,135	57,532	36
Department of the Army (at)	249,498	54,393	22	318,932	54,178	17	208,384	58,791	28
Department of the Navy (at)	126,014	46,298	37	128,186	47,096	37	126,291	46,399	37
Defense Agencies, total (at)	578,428	214,896	37	803,440	192,042	24	551,452	189,452	34
Ballistic Missile Defense Organization (at)	133,941	14,424	11	292,320	13,366	5	145,963	10,913	7
Defense Advanced Research Projects Agency (at)	191,744	143,808	75	161,895	121,421	75	161,514	121,136	75
Defense Logistics Agency (at)	27,297	200	1	23,960	195	1	14,554	200	1
Defense Threat Reduction Agency (at)[1]	9,803	0	0	17,101	0	0	20,175	0	0
Joint Staff (at)	53,945	1	*	161,241	1	*	49,073	1	*
Special Operations Command (at)	15,997	1,759	11	23,868	2,640	11	22,093	2,501	11
Washington Headquarters Services (at)	145,701	54,704	38	123,055	54,419	44	138,080	54,701	40

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

Table C-91. Federal obligations for total development to intramural performers for personnel costs, by agency: fiscal years 1998, 1999, and 2000

[In thousands of dollars and percentages]

Agency and subdivision	1998			Preliminary					
				1999			2000		
	Total	Personnel costs	Percent of total	Total	Personnel costs	Percent of total	Total	Personnel costs	Percent of total
Department of Defense, total major systems (ms)	5,392,249	1,688,854	31	6,093,005	1,769,082	29	5,393,287	1,523,805	28
Department of the Air Force (ms)	610,684	47,487	8	1,060,684	56,656	5	882,680	50,445	6
Department of the Army (ms)	1,159,903	465,226	40	1,145,617	450,582	39	834,016	252,526	30
Department of the Navy (ms)	2,451,251	1,016,316	41	2,647,710	1,090,232	41	2,472,843	1,030,398	42
Defense Agencies, total (ms)	938,973	157,237	17	1,026,970	169,099	16	980,857	187,770	19
Ballistic Missile Defense Organization (ms)	449,690	82,583	18	612,397	84,133	14	616,644	91,624	15
Defense Advanced Research Projects Agency (ms)	34,837	21,010	60	33,248	18,541	56	33,257	16,882	51
Defense Information Systems Agency (ms)	16,026	11,423	71	45,244	31,008	69	51,184	36,182	71
Defense Logistics Agency (ms)	2,206	2,206	100	43	1	2	50	1	2
Special Operations Command (ms)	22,483	2,473	11	33,290	3,140	9	30,814	3,349	11
Washington Headquarters Services (ms)	413,731	37,542	9	302,748	32,276	11	248,908	39,732	16
Operational Test & Evaluation, Director (ms)	7,281	347	5	5,199	445	9	2,989	467	16
Test & Evaluation, Deputy Under Secretary of Defense (ms)	224,157	2,241	1	206,825	2,068	1	219,902	2,199	1
Department of Education	2,554	1,792	70	5,554	2,323	42	22,936	2,969	13
Department of Energy	280,215	82,620	29	342,577	87,391	26	355,526	74,512	21
Dept of Health & Human Svcs, total	371,845	139,492	38	397,519	156,684	39	408,619	166,376	41
Administration on Aging	341	231	68	341	231	68	341	231	68
Agcy for Hlth Care Policy & Rsch	7,700	7,700	100	10,100	10,100	100	9,000	9,000	100
National Institutes of Health	363,526	131,283	36	386,777	146,052	38	398,709	156,694	39
Office of the Secretary, total	277	277	100	300	300	100	450	450	100
Office of Public Hlth & Science	277	277	100	300	300	100	450	450	100
Substance Abuse & Mental Health Services Administration[2]	1	1	100	1	1	100	119	1	1
Dept of Housing & Urban Development	10,697	8,000	75	19,800	14,000	71	19,170	14,000	73
Department of the Interior, total	24,569	13,514	55	25,731	14,261	55	28,075	15,184	54
Bureau of Reclamation	1,000	300	30	1,000	300	30	1,500	300	20
Geological Survey	23,569	13,214	56	24,731	13,961	56	26,575	14,884	56
Department of Justice, total	36,313	4,958	14	36,861	5,007	14	37,209	5,055	14
Bureau of Prisons	500	400	80	500	400	80	500	400	80
Federal Bureau of Investigation	35,812	4,557	13	36,160	4,605	13	36,208	4,653	13
Immigration & Naturalization Svc	0	0	0	200	1	*	500	1	*
Office of Justice Programs	1	1	100	1	1	100	1	1	100
Department of Labor, total	334	334	100	353	353	100	361	361	100
Employment & Training Admin	108	108	100	114	114	100	117	117	100
Office of the Secretary	30	30	100	30	30	100	30	30	100
Pension Benefit Guaranty Corp	196	196	100	209	209	100	214	214	100
Department of Transportation, total	86,251	62,792	73	98,445	44,622	45	118,642	39,244	33
Coast Guard	9,504	4,900	52	8,737	5,040	58	10,247	5,210	51
Federal Aviation Administration	61,130	50,776	83	32,388	32,388	100	26,891	26,891	100
Federal Highway Administration	9,148	3,078	34	43,610	3,265	7	73,008	3,523	5
Federal Railroad Administration	156	80	51	150	80	53	150	80	53
Federal Transit Administration	1,903	1,903	100	1,785	1,785	100	1,975	1,975	100
Office of the Secretary	3,433	1,736	51	9,631	1,646	17	4,475	1,216	27
Research & Special Programs Admin	977	319	33	2,144	418	19	1,896	349	18

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

Table C-91. Federal obligations for total development to intramural performers for personnel costs, by agency: fiscal years 1998, 1999, and 2000

[In thousands of dollars and percentages]

Agency and subdivision	1998			Preliminary					
				1999			2000		
	Total	Personnel costs	Percent of total	Total	Personnel costs	Percent of total	Total	Personnel costs	Percent of total
Department of the Treasury, total	4,807	4,583	95	4,819	4,541	94	4,985	4,703	94
Bureau of Engraving & Printing	123	99	80	132	54	41	110	28	25
Internal Revenue Service	1,849	1,649	89	1,802	1,602	89	1,860	1,660	89
United States Customs Service	2,834	2,834	100	2,834	2,834	100	2,940	2,940	100
United States Mint	1	1	100	51	51	100	75	75	100
Department of Veterans Affairs	8,028	4,575	57	9,328	5,410	58	9,000	5,400	60
Other agencies:									
Consumer Product Safety Commission	0	0	0	90	90	100	96	96	100
Environmental Protection Agency	8,059	8,059	100	7,973	7,973	100	7,545	7,545	100
Internat'l Development Cooperation Agency, total	3,520	3,238	92	5,525	4,144	75	6,060	4,545	75
Agcy for Internat'l Development[3]	3,520	3,238	92	5,525	4,144	75	6,060	4,545	75
Library of Congress	425	351	83	636	403	63	705	390	55
National Aeronautics & Space Admin	1,291,108	643,215	50	1,221,182	606,076	50	1,247,012	632,960	51
Tennessee Valley Authority	1,846	1,381	75	0	0	0	0	0	0

1 The Defense Threat Reduction Agency (DTRA) was established on October 1, 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.

2 Data for fiscal years 1998-2000 from the Substance Abuse & Mental Health Services Administration (SAMHSA) are estimates based on SAMHSA's obligations by program activity budget and previously reported funding for development.

3 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 (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-1996). More accurate data for AID will be reported in future volumes of this survey.

NOTES: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

Beginning with Vol. 44, Department of Defense development obligations are reported in two categories: advanced technology and major systems.

KEY: * = Amount less than .05 percent

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-92. Federal outlays for research and development and for R&D plant, by agency: fiscal years 1979-1989

[Dollars in millions]

Agency and subdivision	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total, all agencies	27,041.0	30,635.8	34,065.9	35,766.8	37,959.4	41,330.1	45,860.3	52,090.3	53,214.2	56,556.6	61,476.4
Departments:											
Dept of Agriculture, total	630.5	687.6	782.5	828.4	858.8	893.5	923.2	953.0	994.0	1,049.7	1,129.8
Agricultural Cooperative Svc	NA	1.6	1.3	1.7	2.1	2.2	2.9	2.6	2.8	2.7	2.8
Agricultural Marketing Svc	.9	1.3	1.2	1.5	.6	1.7	1.3	1.7	1.4	1.6	1.5
Agricultural Research Svc	NA	NA	425.9	436.1	469.4	479.3	492.9	500.5	526.5	540.4	579.7
Animal & Plant Health Inspection Service	.0	.0	.0	.0	.0	.0	.0	4.2	4.9	6.2	7.7
Cooperative State Research, Ed, & Extension Service	NA	NA	199.0	219.8	220.4	239.5	243.6	256.5	274.1	294.8	336.9
Economic Research Service	NA	NA	38.0	37.0	36.8	40.9	45.1	46.0	43.2	47.2	50.0
Economics, Stat, & Coop Svc	35.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Economics & Statistics Svc	NA	31.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Forest Service	105.7	100.6	101.8	116.0	111.1	109.2	113.8	113.5	120.7	138.0	136.4
Grain Inspection Packers & Stockyards Administration	.0	.0	.0	.0	.0	.0	.9	1.0	1.2	1.0	1.1
Human Nutrition Info Svc	NA	NA	.0	3.8	5.8	7.9	7.2	10.6	9.6	8.2	8.4
Nat'l Agri Statistics Svc	NA	NA	7.5	7.0	7.6	8.2	8.4	8.0	3.5	3.6	2.8
Office of International Cooperation & Development	.0	6.4	6.9	4.6	4.1	3.6	5.8	7.5	5.1	5.0	2.5
Office of Transportation	.5	.8	.9	.9	.8	1.0	1.3	1.0	1.0	1.1	NA
Science & Ed Admin, total	487.8	545.8	NA	NA	NA	NA	NA	NA	NA	NA	NA
Agricultural Research Svc	331.2	371.6	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cooperative State Rsch Svc	156.6	174.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Department of Commerce, total	307.1	360.6	346.8	286.5	335.2	336.3	377.8	380.1	311.1	389.4	403.2
Bureau of the Census	2.7	3.2	3.8	3.7	4.3	4.4	4.8	4.6	4.5	5.6	5.0
Economic Development Admin	26.7	35.5	35.5	12.1	5.3	5.1	7.8	7.8	7.2	2.7	1.3
Maritime Administration	18.7	24.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
National Institute of Standards & Technology	64.8	77.1	84.4	87.6	94.0	103.3	106.5	109.2	102.1	111.4	121.5
National Oceanic & Atmospheric Administration	190.1	210.6	209.0	174.1	222.0	214.7	249.1	248.7	189.2	263.5	269.1
National Telecommunications & Information Administration	3.3	9.1	12.9	8.0	9.6	8.6	9.0	8.5	7.8	6.1	6.2
Office of the Secretary	.3	.6	.1	.2	-	.1	.6	1.2	.3	.1	.1
Patent & Trademark Office	.5	.5	1.1	.7	.0	.0	.0	.0	.0	.0	.0
Department of Defense, total	11,733.1	13,706.1	15,993.0	18,482.9	21,373.5	22,999.4	27,143.7	32,491.1	33,611.8	34,573.0	36,869.1
Department of the Air Force	4,428.0	5,323.6	6,756.6	8,209.1	9,640.9	10,849.7	12,263.7	14,133.1	14,101.0	14,774.5	15,390.5
Department of the Army	2,536.2	2,852.9	3,123.7	3,414.4	3,848.5	4,017.4	4,230.0	4,278.5	5,009.7	4,899.6	5,241.3
Department of the Navy	3,926.4	4,507.9	4,916.9	5,394.7	6,023.5	6,859.8	8,304.9	9,939.8	9,422.1	9,081.9	9,559.5
Defense Agencies	814.2	981.4	1,160.0	1,420.0	1,817.3	1,217.8	2,290.0	4,068.2	4,995.8	5,690.3	6,501.3
Operational Test & Evaluation, Director	NA	NA	NA	NA	NA	NA	NA	.0	4.4	7.2	31.6
Test & Evaluation, Deputy Under Secretary of Defense	28.3	40.4	35.7	44.8	43.3	54.7	55.1	71.6	78.8	119.6	145.0
Department of Education	136.5	120.9	111.8	150.1	111.5	181.3	95.7	125.3	138.3	142.9	155.7
Department of Energy	4,956.8	5,660.2	6,125.9	5,785.4	5,641.9	5,656.4	5,803.0	5,381.7	5,432.7	5,743.7	6,039.0

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

Table C-92. Federal outlays for research and development and for R&D plant, by agency: fiscal years 1979-1989

[Dollars in millions]

Agency and subdivision	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Department of Health & Human Services, total	3,172.7	3,554.1	3,997.5	4,052.1	4,118.6	4,484.9	5,049.6	5,531.4	5,751.0	6,923.2	7,773.4
Alcohol, Drug Abuse, & Mental Health Administration	184.7	218.1	251.1	292.0	289.8	276.1	349.8	396.6	476.1	554.8	695.7
Centers for Disease Control & Prevention	72.4	72.6	83.0	88.4	80.4	46.3	47.6	52.7	66.2	88.7	117.8
Food & Drug Administration	40.6	61.0	57.6	59.4	75.6	86.9	96.2	89.1	85.6	91.3	96.0
Health Care Financing Admin	19.5	29.4	35.4	29.1	30.2	33.1	33.5	28.1	36.1	31.4	32.5
Health Resources Admin	3.2	2.8	3.7	NA	NA	NA	NA	NA	NA	NA	NA
Hlth Resources & Svcs Admin	NA	NA	NA	17.5	16.3	13.4	16.0	13.0	9.2	10.0	10.5
Health Services Admin	23.1	20.2	16.9	NA	NA	NA	NA	NA	NA	NA	NA
Human Development Services	57.1	48.5	85.5	33.0	22.3	15.4	21.4	52.0	51.1	50.9	73.3
National Insts of Health	2,713.4	3,029.3	3,392.2	3,475.0	3,562.9	3,981.1	4,446.3	4,867.2	4,985.2	6,060.2	6,699.0
Office of the Assistant Secretary for Health	14.7	27.0	37.2	29.0	16.9	11.5	15.8	21.6	23.5	20.0	26.0
Office of the Secretary	26.5	24.0	19.5	13.4	14.4	10.4	9.6	6.1	8.2	4.7	7.8
Social Security Admin	17.4	21.4	15.4	15.4	9.6	10.7	13.3	5.0	9.8	11.1	14.8
Dept of Housing & Urban Dvlpmt	74.3	65.8	54.1	37.0	30.9	24.9	18.6	13.9	19.7	14.9	20.7
Dept of the Interior, total	404.3	431.5	436.9	394.9	412.7	435.9	417.0	445.4	394.7	419.6	485.3
Bonneville Power Admin	.0	.0	14.0	NA	NA	NA	NA	NA	NA	NA	NA
Bureau of Land Management	1.3	1.7	1.9	5.3	3.9	3.8	4.4	3.4	3.6	3.7	3.0
Bureau of Mines	121.4	130.8	109.0	105.2	102.0	111.4	100.4	131.0	91.2	87.6	92.6
Bureau of Reclamation	11.0	13.1	13.4	10.7	11.1	10.1	10.5	12.0	10.6	4.4	4.2
Geological Survey	144.2	145.2	168.2	150.1	171.4	228.4	230.8	226.5	211.2	238.6	300.9
Minerals Management Service	NA	NA	NA	.0	1.3	1.5	1.5	1.1	1.0	1.2	1.9
National Park Service	8.9	8.2	10.4	11.2	13.7	14.0	15.0	17.3	18.5	19.4	19.4
Office of the Secretary	1.5	1.9	2.0	.4	1.3	.6	.3	.6	2.0	.4	.4
Office of Surface Mining Reclamation & Enforcement	5.0	7.8	5.8	1.4	1.5	.8	2.0	2.3	1.0	1.0	.7
Office of Water Rsch & Tech	23.8	30.0	21.8	20.3	8.3	2.6	NA	NA	NA	NA	NA
US Fish & Wildlife Service	87.3	93.0	90.5	90.4	98.3	62.8	52.1	51.2	55.7	63.3	62.2
Department of Justice, total	45.9	45.3	26.1	36.6	27.6	26.5	32.7	32.1	39.0	48.1	36.0
Bureau of Prisons	3.3	2.1	2.5	1.7	1.7	1.6	1.5	3.0	6.9	6.0	3.8
Drug Enforcement Admin	2.7	4.4	1.2	2.7	2.5	2.0	1.6	2.5	2.2	2.5	2.7
Fed Bureau of Investigation	2.5	1.8	1.5	1.1	1.9	2.5	8.9	6.9	6.9	12.7	6.5
Immigration & Naturalization Service	.3	.3	1.0	.3	.2	.6	.4	.4	.4	5.2	.4
Office of Justice Programs	35.5	35.1	19.2	30.4	21.1	19.6	20.1	19.2	22.4	21.6	22.5
Office of Legal Policy	1.6	1.6	.7	.4	.2	.3	.2	.2	.2	.0	.0
Department of Labor, total	109.2	137.7	61.6	29.4	16.8	14.1	13.7	10.9	20.3	31.8	28.9
Bureau of Labor Statistics	.9	.9	.3	.3	.7	.5	.6	.6	6.5	7.0	7.0
Employment Standards Admin	5.1	4.7	3.0	1.3	1.3	1.3	-	.0	1.0	.1	.1
Employment & Training Admin	93.0	121.7	52.1	20.2	6.0	3.5	4.5	3.4	4.4	11.2	9.2
Labor-Management Relations & Cooperative Programs	NA	NA	NA	NA	NA	.3	.3	.2	.3	.4	.3
Labor-Management Services Administration	3.5	2.8	1.7	.7	.9	NA	NA	NA	NA	NA	NA
Occupational Safety & Health Administration	5.1	6.3	3.0	4.9	5.3	5.1	4.5	3.6	4.1	4.2	4.5
Office of the Secretary	1.6	1.3	1.0	.9	1.5	1.9	2.6	2.1	2.7	6.1	6.1
Pension Benefit Guaranty Corp	NA	NA	.5	1.1	1.1	.3	.2	.1	.3	.3	.3
Pension & Welfare Benefits Administration	NA	NA	NA	NA	NA	1.2	1.1	.9	1.0	2.6	1.3
Department of State, total	3.2	2.2	1.8	1.5	1.5	1.6	1.5	1.5	3.0	4.2	4.7
Departmental Funds	3.2	2.2	1.8	.0	.0	.0	.0	.0	.0	.0	.0

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

Table C-92. Federal outlays for research and development and for R&D plant, by agency: fiscal years 1979-1989

[Dollars in millions]

Agency and subdivision	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Dept of Transportation, total	372.4	391.0	432.1	360.0	282.3	357.5	430.2	445.2	347.7	332.1	291.5
Coast Guard	20.5	17.9	25.9	20.0	19.6	19.5	19.0	16.7	17.8	14.9	18.1
Federal Aviation Admin	111.4	109.7	125.9	110.9	99.5	167.5	283.7	317.6	190.5	190.2	153.5
Federal Highway Admin	48.9	53.4	59.1	42.5	32.5	51.1	47.5	46.1	76.3	60.1	76.5
Federal Railroad Admin	58.0	63.5	55.0	25.6	18.5	14.7	16.2	15.4	10.9	10.6	7.0
Federal Transit Admin	50.5	58.9	61.9	69.8	36.5	31.2	18.6	8.8	9.4	1.4	2.0
Maritime Administration	NA	NA	17.4	18.9	13.5	11.1	10.2	14.1	7.2	2.6	.0
National Highway Traffic Safety Administration	53.6	60.3	60.8	60.2	51.1	53.2	28.0	19.1	28.9	45.2	28.5
Office of the Secretary	16.7	14.9	13.9	5.6	4.0	5.0	4.7	5.2	4.7	5.2	4.2
Research & Special Programs Administration	12.8	12.4	12.3	6.5	7.1	4.2	2.4	2.3	2.1	2.0	1.6
Dept of the Treasury, total	9.6	10.9	10.8	13.6	15.6	13.6	24.3	23.0	26.4	25.8	23.5
Bureau of Alcohol, Tobacco, & Firearms	2.5	1.6	.3	NA	NA	NA	NA	NA	NA	NA	NA
Bureau of Engraving & Printing	2.1	2.3	2.7	4.8	3.9	3.6	5.0	4.2	4.5	2.0	1.7
Internal Revenue Service	3.6	4.0	4.2	5.4	8.0	7.9	15.9	13.4	14.1	14.0	14.0
US Customs Service	1.4	3.0	3.5	3.2	3.4	1.9	2.3	4.9	7.1	9.3	6.9
United States Mint	.0	.0	.0	.0	.0	.0	.6	-	.1	.2	.3
United States Secret Service	NA	-	.1	.3	.4	.2	.6	.5	.5	.4	.6
Department of Veterans Affairs	123.1	138.6	144.3	140.7	164.7	193.6	222.7	185.1	198.8	201.9	186.4
Other agencies:											
ACTION	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Advisory Commission on Intergovernmental Relations	1.7	1.7	1.9	1.8	1.9	2.1	2.0	2.0	1.6	1.4	1.2
Appalachian Regional Comm	.9	.8	.4	.4	.2	.4	.2	.2	.1	.2	.8
Community Services Admin	19.5	25.5	26.2	NA	NA	NA	NA	NA	NA	NA	NA
Consumer Product Safety Comm	5.8	6.3	.9	.2	.5	1.2	2.2	2.0	2.1	1.2	1.3
Environmental Protection Agcy	388.9	384.7	344.3	336.2	312.5	266.1	274.8	306.9	325.9	340.0	343.2
Fed Communications Commission	1.9	3.1	1.6	1.2	1.3	.9	1.1	.9	1.0	1.2	1.1
Federal Emergency Management Agency, total	12.0	11.2	11.6	8.8	3.2	10.9	4.6	.0	.0	.0	.0
Federal Trade Commission	1.5	3.2	1.1	1.2	1.4	1.6	1.7	1.8	.5	.4	.4
General Services Admin	.5	.2	.6	1.0	.5	2.4	.4	1.9	1.6	2.3	.5
International Development Cooperation Agency, total	80.3	114.3	166.1	188.6	225.2	207.2	233.0	255.5	263.2	229.1	279.1
Agcy for Internat'l Dvlpmt	80.3	114.3	166.1	188.6	225.2	207.2	233.0	255.5	263.2	229.1	279.1
Interstate Commerce Commission	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
Library of Congress	5.4	6.5	5.1	5.4	6.7	7.2	6.3	6.9	6.5	7.1	8.0
Nat'l Aero & Space Admin	3,395.2	3,605.7	3,705.5	3,252.9	2,646.2	3,730.6	3,217.1	3,730.6	3,564.3	4,230.4	5,506.1
Nat'l Archives & Records Administration	NA	NA	NA	NA	NA	NA	.5	1.0	1.1	.7	.3
National Science Foundation	804.6	848.2	905.0	1,015.1	994.7	1,151.0	1,250.0	1,468.1	1,459.9	1,550.7	1,613.4
Nuclear Regulatory Commission	145.4	182.8	216.0	208.6	244.0	198.6	161.1	136.0	124.4	113.5	113.2
Office of Personnel Management	6.0	6.8	8.1	.0	.0	.0	.0	.0	.0	.0	.0
Office of Thrift Supervision	.9	1.2	1.0	2.7	3.0	2.6	2.8	3.3	3.4	3.4	4.1
Smithsonian Institution	37.8	39.5	43.9	48.4	57.3	55.2	59.8	64.0	71.5	74.8	82.6
Tennessee Valley Authority	45.4	75.3	94.3	89.5	63.7	66.3	81.0	79.5	76.9	86.9	61.7
United States Arms Control & Disarmament Agency	3.5	3.8	2.4	1.9	1.0	1.3	1.1	.9	4.6	3.4	2.8
US Information Agency	.1	.1	1.2	-	-	-	1.1	2.4	10.0	1.5	1.0
US Internat'l Trade Comm	3.4	2.1	3.4	3.8	4.7	5.0	5.8	6.9	7.2	8.1	8.7

NOTES: Because of rounding, detail may not add to totals.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For notes associated with the agencies listed in this table, refer to appendix B.

KEY: - = Amount less than 50 thousand dollars
NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-92a. Federal outlays for research and development and for R&D plant, by agency: fiscal years 1990-2000

[Dollars in millions]

Agency and subdivision	1990	1991	1992	1993	1994	1995	1996	1997	1998	Preliminary 1999	Preliminary 2000
Total, all agencies	64,151.1	63,676.4	65,719.0	68,385.8	68,328.3	68,694.4	68,007.6	70,892.7	72,295.6	75,412.6	75,122.7
Departments:											
Dept of Agriculture, total	1,196.7	1,269.4	1,382.8	1,453.4	1,486.9	1,504.3	1,438.3	1,464.4	1,538.6	1,657.0	1,655.1
Agricultural Cooperative Svc	2.7	2.8	3.4	2.9	3.7	NA	NA	NA	NA	NA	NA
Agricultural Marketing Svc	2.7	3.7	4.3	4.7	4.6	5.0	4.5	4.5	4.2	4.8	5.0
Agricultural Research Svc	603.4	622.9	686.5	732.6	735.3	758.4	739.9	770.4	782.1	891.2	918.9
Animal & Plant Health Inspection Service	14.0	15.7	16.7	17.1	19.2	19.1	19.5	19.8	20.5	20.0	20.0
Cooperative State Research, Ed, & Extension Service	361.9	395.6	415.1	433.2	456.9	463.9	434.9	435.8	474.2	472.1	448.6
Economic Research Service	50.7	53.0	57.5	61.5	57.3	52.0	50.1	42.4	55.0	55.9	47.8
Food Safety Inspection Svc	.0	.0	.0	.0	.0	.0	-	-	.2	.2	.2
Foreign Agricultural Svc	.0	.0	.0	.0	1.1	.9	1.3	1.4	1.4	1.4	1.4
Forest Service	144.5	159.8	182.0	185.8	195.7	197.8	180.4	181.8	190.6	202.0	202.0
Grain Inspection Packers & Stockyards Administration	.6	.7	1.8	1.8	1.8	1.5	2.5	2.8	2.7	2.7	3.4
Human Nutrition Info Svc	9.0	8.9	9.7	7.3	5.3	NA	NA	NA	NA	NA	NA
Nat'l Agri Statistics Svc	2.7	3.2	3.5	3.9	3.6	4.2	3.7	3.0	3.3	3.2	3.2
Office of International Cooperation & Development	4.3	3.1	2.4	2.6	.0	NA	NA	NA	NA	NA	NA
Rural Business-Coop Svc	NA	NA	NA	NA	2.4	1.6	1.4	2.5	4.4	3.5	4.5
Department of Commerce, total	441.5	500.7	643.4	652.0	810.3	886.4	945.1	1,037.6	1,063.5	1,093.2	1,087.2
Bureau of the Census	6.7	6.6	5.5	5.0	5.4	5.1	6.6	5.1	8.6	16.3	8.3
Economic Development Admin	1.5	1.0	1.1	.7	.3	1.0	.6	.6	.6	.6	.6
National Institute of Standards & Technology	120.3	144.1	160.6	189.8	237.8	350.4	404.9	473.3	482.3	479.3	490.6
National Oceanic & Atmospheric Administration	306.7	345.3	472.2	452.4	562.9	523.6	528.5	530.9	546.5	572.8	561.5
National Telecommunications & Information Administration	6.2	3.6	4.0	4.2	3.9	6.4	4.5	27.8	25.5	24.2	26.3
Office of the Secretary	-	-	-	-	-	-	.0	.0	.0	.0	.0
Department of Defense, total	37,140.0	33,447.2	34,631.7	34,525.9	35,179.2	34,001.9	35,501.6	35,699.0	35,530.3	36,190.2	33,500.2
Department of the Air Force	14,888.1	13,043.8	12,532.3	12,287.9	12,799.2	12,051.8	13,474.4	14,912.1	14,246.2	13,972.6	13,344.9
Department of the Army	5,797.1	5,724.5	6,295.2	6,125.3	5,797.8	5,137.3	4,954.4	4,889.9	4,920.4	5,301.8	4,589.8
Department of the Navy	9,453.5	7,902.0	8,115.0	9,187.5	8,213.3	9,454.1	9,605.0	8,417.1	8,038.1	8,659.1	8,230.4
Defense Agencies	6,853.6	6,685.3	7,450.3	6,689.7	8,125.3	7,112.1	7,198.7	7,182.6	8,047.4	7,968.7	7,055.2
Operational Test & Evaluation, Director	32.0	22.3	9.4	12.3	11.9	12.4	22.1	21.5	27.8	37.0	26.4
Test & Evaluation, Deputy Under Secretary of Defense	115.8	69.4	229.4	223.2	231.8	234.3	247.1	275.8	250.4	251.1	253.5
Department of Education	150.7	117.2	135.5	186.7	179.2	180.6	172.0	169.1	192.0	212.9	267.5
Department of Energy	6,365.3	6,827.1	7,232.7	7,668.3	6,896.5	7,016.3	6,656.1	6,485.3	6,652.9	7,224.9	7,657.0

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

Table C-92a. Federal outlays for research and development and for R&D plant, by agency: fiscal years 1990-2000

[Dollars in millions]

Agency and subdivision	1990	1991	1992	1993	1994	1995	1996	1997	1998	Preliminary	
										1999	2000
Department of Health & Human Services, total	8,363.8	9,822.1	9,091.5	10,475.2	10,352.5	11,245.2	10,419.0	11,457.7	12,786.4	14,257.3	15,776.4
Administration on Aging	NA	20.6	20.2	20.9	19.1	20.7	2.9	4.0	10.4	18.4	18.4
Administration for Children & Families	NA	110.2	35.1	19.3	11.3	12.0	11.9	12.7	15.8	14.6	21.6
Agency for Health Care Policy & Research	5.3	11.9	113.5	87.6	111.0	133.0	80.0	110.0	77.0	101.0	90.0
Alcohol, Drug Abuse, & Mental Health Administration	842.7	1,460.6	NA	NA	NA	NA	NA	NA	NA	NA	NA
Centers for Disease Control & Prevention	95.6	113.4	146.9	162.5	206.8	317.4	296.7	306.0	343.6	382.6	468.6
Food & Drug Administration	95.0	143.5	150.0	174.2	160.5	147.9	138.8	165.9	155.9	163.2	170.7
Health Care Financing Admin	14.4	21.7	63.9	69.5	72.3	72.9	75.4	66.3	51.3	50.0	55.0
Hlth Resources & Svcs Admin	11.9	11.0	10.5	11.0	17.8	14.4	11.9	13.8	13.8	13.8	13.9
Human Development Services	76.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
National Insts of Health	7,181.1	7,890.4	8,491.4	9,893.3	9,725.7	10,511.5	9,779.8	10,687.0	12,035.6	13,421.2	14,841.2
Office of the Assistant Secretary for Health	22.3	18.2	21.7	15.8	.7	.6	NA	NA	NA	NA	NA
Off of the Secretary, total	5.0	8.8	5.0	5.2	5.0	3.5	5.0	22.9	7.0	16.4	17.0
Office of the Assistant Sec, Planning & Eval	NA	NA	NA	NA	NA	NA	3.0	21.0	5.0	14.0	14.0
Office of Public Health & Science	NA	NA	NA	NA	NA	NA	2.0	1.9	2.0	2.4	3.0
Social Security Admin	13.9	11.9	33.4	15.9	22.2	11.3	NA	NA	NA	NA	NA
Substance Abuse & Mental Health Services Admin[1]	NA	NA	NA	NA	NA	NA	16.7	69.1	76.0	76.0	80.0
Dept of Housing & Urban Dvlpmt	21.7	18.1	23.5	28.4	28.5	38.0	36.2	31.7	31.6	42.4	52.5
Dept of the Interior, total	503.0	556.2	628.4	651.8	644.9	558.8	547.2	572.6	566.9	593.7	575.5
Bureau of Land Management	2.8	8.8	6.3	8.9	.0	.0	.0	.0	.0	.0	.0
Bureau of Mines	96.7	97.7	113.9	111.8	107.9	.0	NA	NA	NA	NA	NA
Bureau of Reclamation	5.8	8.7	12.2	9.6	7.4	8.0	6.5	6.8	8.8	8.1	9.9
Geological Survey	301.3	319.5	370.3	385.2	375.5	359.3	498.6	517.2	499.9	526.2	503.9
Minerals Management Service	2.0	2.7	4.1	6.1	19.5	20.8	21.7	22.6	28.4	29.7	29.9
Nat'l Biological Svc	NA	NA	NA	.0	110.3	151.0	NA	NA	NA	NA	NA
National Park Service	20.1	27.5	31.1	38.1	24.2	19.7	20.2	26.0	29.7	29.7	31.8
Office of the Secretary	.2	.6	.9	.4	.1	-	.0	.0	.0	.0	.0
Office of Surface Mining Reclamation & Enforcement	.8	1.0	.3	.4	.0	.0	.0	.0	.0	.0	.0
US Fish & Wildlife Service	73.3	89.7	89.3	91.3	.0	.0	.0	.0	.0	.0	.0
Department of Justice, total	38.2	40.4	42.9	46.2	42.0	49.0	72.7	75.5	73.2	75.5	63.0
Bureau of Prisons	3.2	5.7	5.9	6.1	5.4	5.7	5.2	4.6	8.1	7.8	8.0
Drug Enforcement Admin	2.4	2.8	1.5	1.1	1.7	.4	1.2	-	.0	.0	.0
Fed Bureau of Investigation	8.2	10.8	10.9	11.3	7.0	10.9	33.5	35.5	35.8	36.2	36.2
Immigration & Naturalization Service	.4	.4	.4	.4	.4	.4	.2	.4	.0	.5	.5
Office of Justice Programs	24.0	20.7	24.1	27.2	27.6	31.5	32.6	35.0	29.3	31.0	18.3
Department of Labor, total	45.2	45.6	70.8	57.8	60.7	51.7	50.1	39.1	25.2	23.7	27.3
Bureau of Labor Statistics	7.3	7.5	7.6	6.9	7.1	13.1	13.3	12.6	12.4	12.4	12.4
Employment Standards Admin	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Employment & Training Admin	25.6	23.7	51.0	39.2	41.8	23.1	24.6	18.2	4.7	3.7	5.8
Occupational Safety & Health Administration	2.5	2.6	3.1	2.5	3.2	4.3	6.6	5.4	4.6	5.0	5.2
Office of the Secretary	7.1	8.7	5.7	5.4	5.2	6.2	2.6	.2	.2	.2	.2
Pension Benefit Guaranty Corp	.5	.5	.9	1.3	.7	1.4	.6	.7	.6	.7	.7
Pension & Welfare Benefits Administration	2.1	2.5	2.6	2.6	2.7	3.6	2.3	2.0	2.7	1.8	3.0
Department of State[2]	4.7	5.9	5.6	5.3	.4	.5	1.0	.6	.5	.6	.6

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

Table C-92a. Federal outlays for research and development and for R&D plant, by agency: fiscal years 1990-2000

[Dollars in millions]

Agency and subdivision	1990	1991	1992	1993	1994	1995	1996	1997	1998	Preliminary	
										1999	2000
Dept of Transportation, total	287.3	361.0	411.1	455.3	536.9	661.4	593.0	548.4	537.3	535.7	788.9
Coast Guard	21.4	14.9	22.8	32.2	26.1	21.1	23.4	23.3	20.1	21.6	21.6
Federal Aviation Admin	185.5	216.0	250.7	260.1	258.9	270.8	265.8	236.0	229.5	231.0	237.7
Federal Highway Admin	44.0	86.1	81.2	87.5	178.5	260.6	236.5	218.0	210.4	185.8	424.2
Federal Railroad Admin	7.0	14.3	21.5	22.8	19.6	22.8	20.0	18.1	23.0	28.7	30.7
Federal Transit Admin	2.3	2.1	1.5	16.5	18.5	33.4	22.4	19.5	10.2	14.5	14.1
Maritime Administration	.9	1.5	1.7	1.7	1.7	2.3	.0	.0	.0	.0	.0
National Highway Traffic Safety Administration	16.9	19.2	24.5	28.3	26.9	41.4	15.0	23.0	33.3	40.3	47.0
Office of the Secretary	6.9	4.7	5.0	4.4	2.5	4.0	2.8	2.0	3.7	4.5	5.3
Research & Special Programs Administration	2.4	2.2	2.3	1.7	4.1	4.9	7.0	8.4	7.2	9.2	8.2
Dept of the Treasury, total	25.2	30.4	24.5	16.6	20.7	61.5	60.2	59.8	65.2	71.4	86.0
Bureau of Engraving & Printing	2.1	3.5	2.0	3.2	3.4	1.8	1.7	1.7	2.8	2.4	2.4
Financial Crimes Enforcement Network	.0	1.8	1.5	1.5	.0	.0	.0	.0	.0	.0	.0
Internal Revenue Service	16.3	17.3	17.3	6.5	11.3	49.7	51.2	50.8	52.0	58.8	73.7
Off of Thrift Supervision	.0	3.0	.8	.7	.5	.6	.5	.6	.7	.8	.9
US Customs Service	6.3	3.8	2.3	4.1	4.6	8.6	6.3	6.3	9.2	9.0	8.4
United States Mint	.1	.5	.0	-	.4	.3	.0	-	.1	.0	.1
United States Secret Service	.5	.4	.6	.6	.5	.6	.5	.4	.5	.5	.6
Department of Veterans Affairs	219.0	221.6	207.6	250.8	246.0	258.3	240.6	243.2	248.1	310.1	320.1
Other agencies:											
Advisory Commission on Intergovernmental Relations	1.2	1.2	1.5	2.1	1.4	1.4	NA	NA	NA	NA	NA
Appalachian Regional Comm	.4	.7	1.9	.9	.9	.9	.9	.9	.7	.7	.8
Consumer Product Safety Comm	1.2	1.3	1.2	1.2	.4	.4	.1	.1	-	.1	1.1
Environmental Protection Agcy	388.5	400.1	411.9	497.7	558.3	495.5	476.3	537.0	524.0	594.0	651.0
Fed Communications Commission	1.3	1.4	1.6	1.6	1.7	2.3	2.8	3.1	3.0	4.2	2.7
Federal Trade Commission	.5	1.0	1.3	.9	.7	.6	.5	.7	1.1	1.1	1.4
General Services Admin	.7	3.6	20.9	7.6	5.5	1.3	4.1	1.6	.0	.8	.0
International Development Cooperation Agency, total	334.0	344.0	205.9	321.7	372.6	256.8	251.0	206.4	212.0	209.3	194.1
Agcy for International Development[3]	334.0	344.0	205.9	321.7	372.6	256.8	251.0	206.4	212.0	209.3	194.1
Library of Congress	8.4	8.6	10.0	10.7	12.5	7.7	11.0	2.5	1.6	2.0	1.8
Nat'l Aero & Space Admin	6,762.2	7,675.0	8,386.6	8,885.4	8,576.8	9,116.2	8,094.0	9,715.0	9,741.0	9,749.0	9,562.0
Nat'l Archives & Records Admin	.4	.7	.7	.3	.3	.1	.1	.1	.1	.1	.1
National Science Foundation	1,563.0	1,687.1	1,813.6	1,841.7	1,983.6	1,977.0	2,212.0	2,318.0	2,302.0	2,334.0	2,634.0
Nuclear Regulatory Commission	111.5	107.5	116.5	119.6	92.4	88.8	75.2	67.5	54.3	49.8	47.2
Office of Thrift Supervision	4.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Smithsonian Institution	95.4	98.5	95.4	97.2	127.4	125.0	125.0	126.0	115.5	118.0	125.0
Social Security Admin	NA	NA	NA	NA	NA	NA	11.5	13.6	17.4	53.7	36.9
Tennessee Valley Authority	66.7	72.3	103.5	109.6	97.9	93.1	6.1	8.9	2.7	.0	.0

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

Table C-92a. Federal outlays for research and development and for R&D plant, by agency: fiscal years 1990-2000

[Dollars in millions]

Agency and subdivision	1990	1991	1992	1993	1994	1995	1996	1997	1998	Preliminary	
										1999	2000
United States Arms Control & Disarmament Agency[2]	0.2	0.4	2.1	1.5	1.3	1.1	0.7	1.2	1.2	0.1	.0
US Information Agency	.0	.2	.2	.2	.6	.3	.1	.2	.2	.1	0.1
US Internat'l Trade Comm	9.1	9.9	12.3	12.2	9.4	12.2	3.2	5.7	7.2	6.9	7.1

1 Data for fiscal years 1998-2000 from the Substance Abuse & Mental Health Services Administration (SAMHSA) are estimates based on SAMHSA's obligations by program activity budget and previously reported funding for development.

2 Effective April 1, 1999, all functions and authorities of the United States Arms Control & Disarmament Agency were transferred to the Department of State.

3 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 (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-96). More accurate data for AID will be reported in future volumes of this survey.

NOTES: Because of rounding, detail may not add to totals.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: - = Amount less than 50 thousand dollars
NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-93. Federal outlays for research and development, by agency: fiscal years 1979-1989

[Dollars in millions]

Agency and subdivision	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total, all agencies	25,838.2	29,154.2	32,459.1	34,390.7	36,659.4	39,691.0	44,171.4	50,609.1	51,611.7	54,739.4	59,450.4
Departments:											
Dept of Agriculture, total	608.7	659.8	743.4	807.2	826.0	864.3	889.0	918.0	922.9	971.2	1,037.5
Agricultural Cooperative Svc	NA	1.6	1.3	1.7	2.1	2.2	2.9	2.6	2.8	2.7	2.8
Agricultural Marketing Svc	.9	1.3	1.2	1.5	.6	1.7	1.3	1.7	1.4	1.6	1.5
Agricultural Research Svc	NA	NA	390.1	417.5	438.7	454.3	466.2	468.1	463.2	482.1	528.0
Animal & Plant Health Inspection Service	.0	.0	.0	.0	.0	.0	.0	4.2	4.9	5.6	7.4
Cooperative State Research, Ed, & Extension Service	NA	NA	199.0	219.8	219.6	235.7	236.7	254.8	267.1	277.3	298.3
Economic Research Service	NA	NA	38.0	37.0	36.8	40.9	45.1	46.0	43.2	47.2	50.0
Economics, Stat, & Coop Svc	35.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Economics & Statistics Svc	NA	31.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Forest Service	102.2	97.0	98.6	113.2	109.8	108.8	113.1	112.5	119.9	135.8	134.7
Grain Inspection Packers & Stockyards Administration	.0	.0	.0	.0	.0	.0	.9	1.0	1.2	1.0	1.1
Human Nutrition Info Svc	NA	NA	.0	3.8	5.8	7.9	7.2	10.6	9.6	8.2	8.4
Nat'l Agri Statistics Svc	NA	NA	7.5	7.0	7.6	8.2	8.4	8.0	3.5	3.6	2.8
Office of International Cooperation & Development	.0	6.4	6.9	4.6	4.1	3.6	5.8	7.5	5.1	5.0	2.5
Office of Transportation	.5	.8	.9	.9	.8	1.0	1.3	1.0	1.0	1.1	NA
Science & Ed Admin, total	469.5	521.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
Agricultural Research Svc	312.9	347.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cooperative State Rsch Svc	156.6	174.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Department of Commerce, total	305.2	355.9	345.5	285.4	334.5	327.0	373.6	372.6	307.0	378.6	394.0
Bureau of the Census	2.7	3.2	3.8	3.7	4.3	4.4	4.8	4.6	4.5	5.6	5.0
Economic Development Admin	26.7	35.5	35.5	12.1	5.3	5.1	7.8	7.8	7.2	2.4	1.1
Maritime Administration	18.2	23.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
National Institute of Standards & Technology	63.4	76.8	83.9	86.6	93.3	94.1	102.2	103.3	100.0	101.3	113.0
National Oceanic & Atmospheric Administration	190.1	206.7	208.1	174.1	222.0	214.7	249.1	247.2	187.1	263.0	268.6
National Telecommunications & Information Administration	3.3	9.1	12.9	8.0	9.6	8.6	9.0	8.5	7.8	6.1	6.2
Office of the Secretary	.3	.6	.1	.2	-	.1	.6	1.2	.3	.1	.1
Patent & Trademark Office	.5	.5	1.1	.7	.0	.0	.0	.0	.0	.0	.0
Department of Defense, total	11,497.3	13,501.4	15,754.5	18,251.2	21,105.8	22,619.3	26,742.0	32,210.5	33,254.4	34,156.8	36,453.4
Department of the Air Force	4,263.1	5,220.6	6,626.6	8,141.4	9,537.2	10,658.5	12,063.9	14,044.0	13,906.8	14,567.0	15,190.8
Department of the Army	2,534.1	2,845.3	3,114.8	3,400.9	3,827.0	3,983.0	4,176.6	4,223.5	4,949.0	4,837.8	5,201.6
Department of the Navy	3,873.5	4,417.0	4,824.7	5,269.4	5,886.8	6,709.4	8,161.1	9,809.1	9,357.1	9,003.1	9,475.0
Defense Agencies	798.3	978.2	1,152.6	1,394.8	1,811.5	1,213.6	2,285.2	4,062.4	4,958.4	5,622.1	6,409.5
Operational Test & Evaluation, Director	NA	NA	NA	NA	NA	NA	NA	.0	4.4	7.2	31.6
Test & Evaluation, Deputy Under Secretary of Defense	28.3	40.4	35.7	44.8	43.3	54.7	55.1	71.6	78.8	119.6	145.0
Department of Education	136.5	120.9	111.8	150.1	111.5	181.3	95.7	124.5	122.6	131.8	153.4
Department of Energy	4,303.3	4,697.5	5,041.4	4,842.1	4,817.5	4,740.3	4,947.7	4,655.8	4,711.3	4,964.7	5,200.6

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

Table C-93. Federal outlays for research and development, by agency: fiscal years 1979-1989

[Dollars in millions]

Agency and subdivision	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Department of Health & Human Services, total	3,099.3	3,477.2	3,954.9	4,015.3	4,092.0	4,450.3	5,007.0	5,498.7	5,719.5	6,892.5	7,717.4
Alcohol, Drug Abuse, & Mental Health Administration	184.4	217.9	250.9	291.7	288.8	272.0	348.4	396.1	475.5	554.8	695.7
Centers for Disease Control & Prevention	72.4	72.6	83.0	88.4	80.4	46.3	47.6	52.7	66.2	88.7	117.8
Food & Drug Administration	40.0	60.3	57.1	58.4	73.5	76.9	81.2	79.1	83.7	89.6	94.0
Health Care Financing Admin	19.5	29.4	35.4	29.1	30.2	33.1	33.5	28.1	36.1	31.4	32.5
Health Resources Admin	3.2	2.8	3.7	NA	NA	NA	NA	NA	NA	NA	NA
Hlth Resources & Svcs Admin	NA	NA	NA	17.5	16.3	13.4	16.0	13.0	9.2	10.0	10.5
Health Services Admin	23.1	20.2	16.9	NA	NA	NA	NA	NA	NA	NA	NA
Human Development Services	57.1	48.5	85.5	33.0	22.3	15.4	21.4	52.0	51.1	50.9	73.3
National Insts of Health	2,641.0	2,953.2	3,350.2	3,439.6	3,539.5	3,960.6	4,420.1	4,845.0	4,956.2	6,031.2	6,645.0
Office of the Assistant Secretary for Health	14.7	27.0	37.2	29.0	16.9	11.5	15.8	21.6	23.5	20.0	26.0
Office of the Secretary	26.5	24.0	19.5	13.4	14.4	10.4	9.6	6.1	8.2	4.7	7.8
Social Security Admin	17.4	21.4	15.4	15.4	9.6	10.7	13.3	5.0	9.8	11.1	14.8
Dept of Housing & Urban Dvlpmt	74.3	65.8	54.1	37.0	30.9	24.9	18.6	13.9	19.7	14.9	20.7
Dept of the Interior, total	395.3	422.7	432.8	393.6	410.3	430.7	412.8	439.3	390.0	414.6	478.4
Bonneville Power Admin	.0	.0	13.7	NA	NA	NA	NA	NA	NA	NA	NA
Bureau of Land Management	1.3	1.7	1.9	5.3	3.9	3.8	4.4	3.4	3.6	3.7	3.0
Bureau of Mines	117.1	128.4	106.9	105.0	101.9	111.3	100.4	131.0	91.2	87.6	90.6
Bureau of Reclamation	11.0	13.1	13.4	10.7	11.1	10.1	10.5	12.0	10.6	4.4	4.2
Geological Survey	144.2	145.2	168.2	150.1	169.9	227.2	229.9	225.6	210.4	237.9	299.5
Minerals Management Service	NA	NA	NA	.0	1.3	1.5	1.5	1.1	1.0	1.2	1.9
National Park Service	8.9	8.2	10.4	11.2	13.7	14.0	15.0	17.3	18.5	19.4	19.4
Office of the Secretary	1.5	1.9	2.0	.4	1.3	.6	.3	.6	2.0	.4	.4
Office of Surface Mining Reclamation & Enforcement	5.0	7.5	5.8	1.4	1.5	.8	2.0	2.3	1.0	1.0	.7
Office of Water Rsch & Tech	23.1	29.3	21.1	19.4	8.3	2.6	NA	NA	NA	NA	NA
US Fish & Wildlife Service	83.2	87.7	89.5	90.1	97.5	58.8	48.8	46.0	51.7	59.0	58.8
Department of Justice, total	45.9	45.3	26.1	36.6	27.6	26.5	32.7	32.1	38.7	48.1	36.0
Bureau of Prisons	3.3	2.1	2.5	1.7	1.7	1.6	1.5	3.0	6.9	6.0	3.8
Drug Enforcement Admin	2.7	4.4	1.2	2.7	2.5	2.0	1.6	2.5	2.2	2.5	2.7
Fed Bureau of Investigation	2.5	1.8	1.5	1.1	1.9	2.5	8.9	6.9	6.6	12.7	6.5
Immigration & Naturalization Service	.3	.3	1.0	.3	.2	.6	.4	.4	.4	5.2	.4
Office of Justice Programs	35.5	35.1	19.2	30.4	21.1	19.6	20.1	19.2	22.4	21.6	22.5
Office of Legal Policy	1.6	1.6	.7	.4	.2	.3	.2	.2	.2	.0	.0
Department of Labor, total	109.2	137.7	61.6	29.4	16.8	14.1	13.7	10.9	20.3	31.8	28.9
Bureau of Labor Statistics	.9	.9	.3	.3	.7	.5	.6	.6	6.5	7.0	7.0
Employment Standards Admin	5.1	4.7	3.0	1.3	1.3	1.3	-	.0	1.0	.1	.1
Employment & Training Admin	93.0	121.7	52.1	20.2	6.0	3.5	4.5	3.4	4.4	11.2	9.2
Labor-Management Relations & Cooperative Programs	NA	NA	NA	NA	NA	.3	.3	.2	.3	.4	.3
Labor-Management Services Administration	3.5	2.8	1.7	.7	.9	NA	NA	NA	NA	NA	NA
Occupational Safety & Health Administration	5.1	6.3	3.0	4.9	5.3	5.1	4.5	3.6	4.1	4.2	4.5
Office of the Secretary	1.6	1.3	1.0	.9	1.5	1.9	2.6	2.1	2.7	6.1	6.1
Pension Benefit Guaranty Corp	NA	NA	.5	1.1	1.1	.3	.2	.1	.3	.3	.3
Pension & Welfare Benefits Administration	NA	NA	NA	NA	NA	1.2	1.1	.9	1.0	2.6	1.3
Department of State, total	3.2	2.2	1.8	1.5	1.5	1.6	1.5	1.5	3.0	4.2	4.7
Departmental Funds	3.2	2.2	1.8	.0	.0	.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: fiscal years 1979-1989

[Dollars in millions]

Agency and subdivision	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Dept of Transportation, total	356.2	374.7	415.9	347.0	272.4	344.6	416.1	429.8	336.6	321.0	278.6
Coast Guard	20.5	17.9	25.9	20.0	19.6	19.5	19.0	16.7	17.8	14.6	18.1
Federal Aviation Admin	101.9	104.2	119.8	106.6	90.3	155.1	270.1	303.3	180.1	179.6	141.0
Federal Highway Admin	48.7	53.1	56.3	42.5	32.5	51.1	47.5	45.5	76.0	60.1	76.5
Federal Railroad Admin	51.7	53.2	48.2	17.4	18.3	14.7	16.2	15.4	10.9	10.3	6.7
Federal Transit Admin	50.5	58.9	61.9	69.8	36.5	31.2	18.6	8.8	9.4	1.4	2.0
Maritime Administration	NA	NA	17.4	18.9	13.5	11.1	10.2	14.1	7.2	2.6	.0
National Highway Traffic Safety Administration	53.4	60.1	60.3	59.7	50.6	52.7	27.5	18.6	28.4	45.2	28.5
Office of the Secretary	16.7	14.9	13.9	5.6	4.0	5.0	4.7	5.2	4.7	5.2	4.2
Research & Special Programs Administration	12.8	12.4	12.3	6.5	7.1	4.2	2.4	2.3	2.1	2.0	1.6
Dept of the Treasury, total	9.5	10.9	10.8	13.6	15.5	13.5	24.2	22.9	26.3	25.7	23.4
Bureau of Alcohol, Tobacco, & Firearms	2.5	1.6	.3	NA	NA	NA	NA	NA	NA	NA	NA
Bureau of Engraving & Printing	2.1	2.3	2.7	4.8	3.9	3.6	5.0	4.2	4.5	2.0	1.7
Internal Revenue Service	3.6	4.0	4.2	5.4	8.0	7.9	15.9	13.4	14.1	14.0	14.0
US Customs Service	1.3	3.0	3.5	3.1	3.3	1.8	2.2	4.8	7.0	9.2	6.8
United States Mint	.0	.0	.0	.0	.0	.0	.6	-	.1	.2	.3
United States Secret Service	NA	-	.1	.3	.4	.2	.6	.4	.5	.4	.6
Department of Veterans Affairs	120.3	134.4	137.8	137.7	154.1	189.0	215.1	181.2	195.1	197.3	184.9
Other agencies:											
ACTION	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Advisory Commission on Intergovernmental Relations	1.7	1.7	1.9	1.8	1.9	2.1	2.0	2.0	1.6	1.4	1.2
Appalachian Regional Comm	.9	.8	.4	.4	.2	.4	.2	.2	.1	.2	.8
Community Services Admin	19.5	25.5	26.2	NA	NA	NA	NA	NA	NA	NA	NA
Consumer Product Safety Comm	3.1	3.6	.9	.2	.5	1.2	2.2	2.0	2.1	1.2	1.3
Environmental Protection Agcy	386.5	384.7	344.3	336.2	312.5	266.1	274.8	306.9	325.9	340.0	343.2
Fed Communications Commission	1.9	3.1	1.6	1.2	1.3	.9	1.1	.9	1.0	1.2	1.1
Federal Emergency Management Agency, total	12.0	11.2	11.6	8.8	3.2	10.9	4.6	.0	.0	.0	.0
Federal Trade Commission	1.5	3.2	1.1	1.2	1.4	1.6	1.7	1.8	.5	.4	.4
General Services Admin	.5	.2	.6	1.0	.5	2.4	.4	1.2	1.6	2.3	.5
International Development Cooperation Agency, total	75.8	107.8	159.9	178.3	212.8	195.8	220.3	241.5	248.7	216.6	279.1
Agcy for Internat'l Dvlpmt	75.8	107.8	159.9	178.3	212.8	195.8	220.3	241.5	248.7	216.6	279.1
Interstate Commerce Commission	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
Library of Congress	5.4	6.5	5.1	5.4	6.7	7.2	6.3	6.9	6.5	7.1	8.0
Nat'l Aero & Space Admin	3,262.5	3,465.4	3,558.6	3,140.7	2,538.0	3,538.7	2,970.3	3,431.5	3,250.4	3,831.7	4,974.8
Nat'l Archives & Records Administration	NA	NA	NA	NA	NA	NA	.5	1.0	1.1	.7	.3
National Science Foundation	775.2	830.6	892.3	1,013.6	991.8	1,108.0	1,186.0	1,410.7	1,410.0	1,494.0	1,556.7
Nuclear Regulatory Commission	137.5	175.4	208.7	208.6	244.0	198.6	161.1	136.0	124.4	113.5	113.2
Office of Personnel Management	6.0	6.8	8.1	.0	.0	.0	.0	.0	.0	.0	.0
Office of Thrift Supervision	.9	1.2	1.0	2.7	3.0	2.6	2.8	3.3	3.4	3.4	4.1
Smithsonian Institution	37.2	39.1	43.5	48.0	56.2	54.6	58.9	62.5	69.9	73.2	79.8
Tennessee Valley Authority	37.2	74.7	93.9	89.3	63.3	66.0	80.7	78.9	76.5	86.4	61.6
United States Arms Control & Disarmament Agency	3.5	3.8	2.4	1.9	1.0	1.3	1.1	.9	3.6	3.4	2.8
US Information Agency	.1	.1	1.2	-	-	-	1.1	2.4	10.0	1.5	1.0
US Internat'l Trade Comm	3.4	2.1	3.4	3.8	4.7	5.0	5.8	6.9	7.2	8.1	8.7

NOTES: Because of rounding, detail may not add to totals.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For notes associated with the agencies listed in this table, refer to appendix B.

KEY: - = Amount less than 50 thousand dollars
NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-93a. Federal outlays for research and development, by agency: fiscal years 1990-2000

[Dollars in millions]

Agency and subdivision	1990	1991	1992	1993	1994	1995	1996	1997	1998	Preliminary 1999	Preliminary 2000
Total, all agencies	62,135.3	61,130.4	62,934.5	65,241.3	66,150.8	66,662.0	66,142.0	68,897.9	70,434.5	73,407.9	73,000.0
Departments:											
Dept of Agriculture, total	1,072.5	1,189.4	1,246.0	1,303.9	1,353.6	1,375.8	1,335.7	1,342.2	1,379.5	1,496.6	1,514.1
Agricultural Cooperative Svc	2.7	2.8	3.4	2.9	3.7	NA	NA	NA	NA	NA	NA
Agricultural Marketing Svc	2.7	3.7	4.3	4.7	4.6	5.0	4.5	4.5	4.2	4.8	5.0
Agricultural Research Svc	548.1	573.5	617.1	643.4	660.0	679.3	672.4	699.5	687.1	775.4	808.1
Animal & Plant Health Inspection Service	8.0	15.7	16.7	17.1	19.2	19.1	18.0	19.8	20.5	20.0	20.0
Cooperative State Research, Ed, & Extension Service	303.9	380.1	354.9	379.4	404.1	418.8	403.8	386.5	412.7	432.5	423.4
Economic Research Service	50.7	53.0	57.5	61.5	57.3	52.0	50.1	42.4	55.0	55.9	47.8
Food Safety Inspection Svc	.0	.0	.0	.0	.0	.0	-	-	.2	.2	.2
Foreign Agricultural Svc	.0	.0	.0	.0	.7	.9	1.3	1.4	1.4	1.4	1.4
Forest Service	139.6	144.7	174.8	179.3	190.8	193.5	177.9	179.8	188.0	197.0	197.0
Grain Inspection Packers & Stockyards Administration	.6	.7	1.8	1.8	1.8	1.5	2.5	2.8	2.7	2.7	3.4
Human Nutrition Info Svc	9.0	8.9	9.7	7.3	5.3	NA	NA	NA	NA	NA	NA
Nat'l Agri Statistics Svc	2.7	3.2	3.5	3.9	3.6	4.2	3.7	3.0	3.3	3.2	3.2
Office of International Cooperation & Development	4.3	3.1	2.4	2.6	.0	NA	NA	NA	NA	NA	NA
Rural Business-Coop Svc	NA	NA	NA	NA	2.4	1.6	1.4	2.5	4.4	3.5	4.5
Department of Commerce, total	426.8	485.1	622.1	629.6	797.4	863.0	918.1	967.1	994.1	1,052.1	1,015.7
Bureau of the Census	6.7	6.6	5.5	5.0	5.4	5.1	6.6	5.1	8.6	16.3	8.3
Economic Development Admin	1.5	1.0	1.1	.7	.3	1.0	.6	.6	.6	.6	.6
National Institute of Standards & Technology	112.3	135.9	149.1	180.1	225.2	327.4	378.0	424.4	439.8	451.6	448.9
National Oceanic & Atmospheric Administration	300.1	338.0	462.4	439.5	562.6	523.1	528.5	509.3	519.6	559.4	531.7
National Telecommunications & Information Administration	6.2	3.6	4.0	4.2	3.9	6.4	4.5	27.8	25.5	24.2	26.3
Office of the Secretary	-	-	-	-	-	-	.0	.0	.0	.0	.0
Department of Defense, total	36,703.2	33,013.5	34,220.8	34,152.7	34,918.2	33,920.9	35,387.0	35,646.6	35,490.6	36,128.4	33,461.7
Department of the Air Force	14,687.9	12,825.6	12,346.1	12,056.9	12,645.5	12,024.9	13,420.3	14,886.7	14,242.5	13,968.5	13,342.5
Department of the Army	5,750.2	5,659.5	6,273.2	6,118.3	5,794.0	5,133.0	4,948.7	4,885.2	4,916.3	5,297.7	4,588.0
Department of the Navy	9,352.3	7,815.0	8,004.0	9,114.0	8,150.5	9,416.6	9,578.5	8,400.2	8,015.2	8,631.5	8,199.4
Defense Agencies	6,765.0	6,621.8	7,358.7	6,628.0	8,084.7	7,099.7	7,170.3	7,177.3	8,038.4	7,942.6	7,051.9
Operational Test & Evaluation, Director	32.0	22.3	9.4	12.3	11.9	12.4	22.1	21.5	27.8	37.0	26.4
Test & Evaluation, Deputy Under Secretary of Defense	115.8	69.4	229.4	223.2	231.8	234.3	247.1	275.8	250.4	251.1	253.5
Department of Education	147.9	114.5	133.0	173.8	177.2	179.6	172.0	169.1	192.0	212.9	267.5
Department of Energy	5,508.4	5,727.2	6,034.7	6,185.1	5,974.7	6,152.2	5,846.2	5,678.6	5,876.7	6,390.0	6,716.9

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

Table C-93a. Federal outlays for research and development, by agency: fiscal years 1990-2000

[Dollars in millions]

Agency and subdivision	1990	1991	1992	1993	1994	1995	1996	1997	1998	Preliminary	
										1999	2000
Department of Health & Human Services, total	8,308.7	9,627.3	8,994.8	10,325.9	10,218.2	10,978.2	10,278.5	11,337.2	12,629.5	14,007.6	15,500.7
Administration on Aging	NA	20.6	20.2	20.9	19.1	20.7	2.9	4.0	10.4	18.4	18.4
Administration for Children & Families	NA	110.2	35.1	19.3	11.3	12.0	11.9	12.7	15.8	14.6	21.6
Agency for Health Care Policy & Research	5.3	11.9	113.5	87.6	111.0	133.0	80.0	110.0	77.0	101.0	90.0
Alcohol, Drug Abuse, & Mental Health Administration	842.7	1,460.6	NA	NA	NA	NA	NA	NA	NA	NA	NA
Centers for Disease Control & Prevention	95.6	113.4	146.9	162.5	206.8	317.4	296.7	306.0	343.6	382.6	468.6
Food & Drug Administration	94.0	125.0	135.7	154.5	138.6	131.3	133.3	157.3	142.9	141.2	151.7
Health Care Financing Admin	14.4	21.7	63.9	69.5	72.3	72.9	75.4	66.3	51.3	50.0	55.0
Hlth Resources & Svcs Admin	11.9	11.0	10.1	9.6	16.4	12.8	11.2	13.1	12.9	13.0	13.1
Human Development Services	76.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
National Insts of Health	7,127.0	7,714.0	8,409.2	9,765.1	9,614.8	10,262.8	9,645.6	10,575.9	11,892.5	13,194.4	14,585.3
Office of the Assistant Secretary for Health	22.3	18.2	21.7	15.8	.7	.6	NA	NA	NA	NA	NA
Off of the Secretary, total	5.0	8.8	5.0	5.2	5.0	3.5	5.0	22.9	7.0	16.4	17.0
Office of the Assistant Sec, Planning & Eval	NA	NA	NA	NA	NA	NA	3.0	21.0	5.0	14.0	14.0
Office of Public Health & Science	NA	NA	NA	NA	NA	NA	2.0	1.9	2.0	2.4	3.0
Social Security Admin	13.9	11.9	33.4	15.9	22.2	11.3	NA	NA	NA	NA	NA
Substance Abuse & Mental Health Services Admin[1]	NA	NA	NA	NA	NA	NA	16.7	69.1	76.0	76.0	80.0
Dept of Housing & Urban Dvlpmt	21.7	18.1	23.5	28.4	28.5	38.0	36.2	31.7	31.6	42.4	52.5
Dept of the Interior, total	492.5	535.6	610.6	631.0	637.4	552.3	545.1	566.1	565.3	592.4	574.3
Bureau of Land Management	2.8	8.8	6.3	8.9	.0	.0	.0	.0	.0	.0	.0
Bureau of Mines	93.6	96.3	113.9	111.8	107.9	.0	NA	NA	NA	NA	NA
Bureau of Reclamation	5.8	8.7	12.2	9.6	7.4	8.0	6.5	6.8	8.8	8.1	9.9
Geological Survey	300.0	316.6	365.9	381.2	369.1	354.1	497.6	512.5	499.9	526.2	503.9
Minerals Management Service	1.8	2.5	3.4	5.1	18.3	19.8	20.7	20.8	26.8	28.4	28.7
Nat'l Biological Svc	NA	NA	NA	.0	110.3	150.7	NA	NA	NA	NA	NA
National Park Service	20.1	27.5	31.1	38.1	24.2	19.7	20.2	26.0	29.7	29.7	31.8
Office of the Secretary	.2	.6	.9	.4	.1	-	.0	.0	.0	.0	.0
Office of Surface Mining Reclamation & Enforcement	.8	1.0	.3	.4	.0	.0	.0	.0	.0	.0	.0
US Fish & Wildlife Service	67.3	73.6	76.6	75.5	.0	.0	.0	.0	.0	.0	.0
Department of Justice, total	38.2	40.4	42.9	46.2	42.0	49.0	72.7	75.5	73.2	75.5	63.0
Bureau of Prisons	3.2	5.7	5.9	6.1	5.4	5.7	5.2	4.6	8.1	7.8	8.0
Drug Enforcement Admin	2.4	2.8	1.5	1.1	1.7	.4	1.2	-	.0	.0	.0
Fed Bureau of Investigation	8.2	10.8	10.9	11.3	7.0	10.9	33.5	35.5	35.8	36.2	36.2
Immigration & Naturalization Service	.4	.4	.4	.4	.4	.4	.2	.4	.0	.5	.5
Office of Justice Programs	24.0	20.7	24.1	27.2	27.6	31.5	32.6	35.0	29.3	31.0	18.3
Department of Labor, total	45.2	45.6	70.8	57.8	60.7	51.7	50.1	39.1	25.2	23.7	27.3
Bureau of Labor Statistics	7.3	7.5	7.6	6.9	7.1	13.1	13.3	12.6	12.4	12.4	12.4
Employment Standards Admin	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Employment & Training Admin	25.6	23.7	51.0	39.2	41.8	23.1	24.6	18.2	4.7	3.7	5.8
Occupational Safety & Health Administration	2.5	2.6	3.1	2.5	3.2	4.3	6.6	5.4	4.6	5.0	5.2
Office of the Secretary	7.1	8.7	5.7	5.4	5.2	6.2	2.6	.2	.2	.2	.2
Pension Benefit Guaranty Corp	.5	.5	.9	1.3	.7	1.4	.6	.7	.6	.7	.7
Pension & Welfare Benefits Administration	2.1	2.5	2.6	2.6	2.7	3.6	2.3	2.0	2.7	1.8	3.0
Department of State[2]	4.7	5.9	5.6	5.3	.4	.5	1.0	.6	.5	.6	.6

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

Table C-93a. Federal outlays for research and development, by agency: fiscal years 1990-2000

[Dollars in millions]

Agency and subdivision	1990	1991	1992	1993	1994	1995	1996	1997	1998	Preliminary 1999	Preliminary 2000
Dept of Transportation, total	270.6	342.6	394.0	425.2	519.9	634.7	578.8	527.6	516.0	518.2	773.3
Coast Guard	21.0	14.5	22.4	31.7	25.5	20.6	22.8	22.9	19.9	21.3	21.4
Federal Aviation Admin	169.2	199.6	234.9	234.5	247.2	256.8	259.8	218.0	210.5	215.0	223.5
Federal Highway Admin	44.0	86.1	81.2	87.1	174.7	249.6	230.4	215.6	209.3	185.3	423.4
Federal Railroad Admin	7.0	12.8	20.6	21.6	18.6	21.5	18.5	18.1	22.0	28.0	30.3
Federal Transit Admin	2.3	2.1	1.5	14.3	18.5	33.4	22.4	19.5	10.2	14.5	14.1
Maritime Administration	.9	1.5	1.7	1.7	1.7	2.3	.0	.0	.0	.0	.0
National Highway Traffic Safety Administration	16.9	19.2	24.5	28.3	26.9	41.4	15.0	23.0	33.3	40.3	47.0
Office of the Secretary	6.9	4.7	5.0	4.4	2.5	4.0	2.8	2.0	3.7	4.5	5.3
Research & Special Programs Administration	2.4	2.2	2.3	1.7	4.1	4.9	7.0	8.4	7.2	9.2	8.2
Dept of the Treasury, total	25.1	30.3	24.4	16.5	18.9	61.4	60.0	59.7	65.1	71.3	85.9
Bureau of Engraving & Printing	2.1	3.5	2.0	3.2	1.7	1.8	1.7	1.7	2.8	2.4	2.4
Financial Crimes Enforcement Network	.0	1.8	1.5	1.5	.0	.0	.0	.0	.0	.0	.0
Internal Revenue Service	16.3	17.3	17.3	6.5	11.3	49.7	51.2	50.8	52.0	58.8	73.7
Off of Thrift Supervision	.0	3.0	.8	.7	.5	.6	.5	.6	.7	.8	.9
US Customs Service	6.2	3.7	2.2	4.0	4.5	8.5	6.2	6.1	9.0	8.8	8.3
United States Mint	.1	.5	.0	-	.4	.3	.0	-	.1	.0	.1
United States Secret Service	.5	.4	.5	.6	.5	.5	.5	.4	.5	.5	.6
Department of Veterans Affairs	206.6	213.4	202.1	246.0	240.8	251.1	232.1	234.9	246.9	304.0	314.9
Other agencies:											
Advisory Commission on Intergovernmental Relations	1.2	1.2	1.5	2.1	1.4	1.4	NA	NA	NA	NA	NA
Appalachian Regional Comm	.4	.7	1.9	.9	.9	.9	.9	.9	.7	.7	.8
Consumer Product Safety Comm	1.2	1.3	1.2	1.2	.4	.4	.1	.1	-	.1	1.1
Environmental Protection Agcy	388.5	400.1	411.9	495.2	553.5	492.5	476.3	515.0	503.0	505.0	537.0
Fed Communications Commission	1.3	1.4	1.6	1.6	1.7	2.3	2.8	3.1	3.0	4.2	2.7
Federal Trade Commission	.5	1.0	1.3	.9	.7	.6	.5	.7	1.1	1.1	1.4
General Services Admin	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
International Development Cooperation Agency, total	334.0	344.0	205.9	321.7	372.6	256.8	251.0	206.4	212.0	209.3	194.1
Agcy for International Development[3]	334.0	344.0	205.9	321.7	372.6	256.8	251.0	206.4	212.0	209.3	194.1
Library of Congress	8.4	8.6	10.0	10.7	12.5	7.7	11.0	2.5	1.6	2.0	1.8
Nat'l Aero & Space Admin	6,324.3	7,071.2	7,616.5	8,087.0	8,023.3	8,600.7	7,614.0	9,273.0	9,421.0	9,419.0	9,242.0
Nat'l Archives & Records Admin	.4	.7	.7	.3	.3	.1	.1	.1	.1	.1	.1
National Science Foundation	1,524.9	1,630.6	1,732.7	1,754.2	1,873.0	1,876.0	2,054.0	2,000.0	2,010.0	2,125.0	2,437.0
Nuclear Regulatory Commission	111.5	107.5	116.5	119.6	92.4	88.8	75.2	67.5	54.3	49.8	47.2
Office of Thrift Supervision	4.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Smithsonian Institution	90.8	94.0	94.2	96.0	121.2	119.0	121.0	123.0	113.0	115.0	122.0
Social Security Admin	NA	NA	NA	NA	NA	NA	11.5	13.6	17.4	53.7	36.9
Tennessee Valley Authority	61.8	68.6	98.8	108.6	97.9	93.1	6.1	8.9	2.7	.0	.0

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

Table C-93a. Federal outlays for research and development, by agency: fiscal years 1990-2000

[Dollars in millions]

Agency and subdivision	1990	1991	1992	1993	1994	1995	1996	1997	1998	Preliminary	
										1999	2000
United States Arms Control & Disarmament Agency[2]	0.2	0.4	2.1	1.5	1.3	1.1	0.7	1.2	1.2	0.1	.0
US Information Agency	.0	.2	.2	.2	.6	.3	.1	.2	.2	.1	0.1
US Internat'l Trade Comm	9.1	9.9	12.3	12.2	9.4	12.2	3.2	5.7	7.2	6.9	7.1

1 Data for fiscal years 1998-2000 from the Substance Abuse & Mental Health Services Administration (SAMHSA) are estimates based on SAMHSA's obligations by program activity budget and previously reported funding for development.

2 Effective April 1, 1999, all functions and authorities of the United States Arms Control & Disarmament Agency were transferred to the Department of State.

3 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 (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-96). More accurate data for AID will be reported in future volumes of this survey.

NOTES: Because of rounding, detail may not add to totals.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: - = Amount less than 50 thousand dollars
NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-94. Federal outlays for R&D plant, by agency: fiscal years 1979-1989

[Dollars in millions]

Agency and subdivision	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total, all agencies	1,202.8	1,481.7	1,606.7	1,376.1	1,299.9	1,639.2	1,688.9	1,481.2	1,602.4	1,817.2	2,026.1
Departments:											
Dept of Agriculture, total	21.7	27.7	39.0	21.3	32.8	29.2	34.3	35.0	71.1	78.5	92.3
Agricultural Research Svc	NA	NA	35.8	18.5	30.7	25.0	26.7	32.4	63.3	58.3	51.7
Animal & Plant Health Inspection Service	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.3
Cooperative State Research, Ed, & Extension Service	NA	NA	.0	.0	.8	3.8	6.9	1.6	7.0	17.5	38.6
Forest Service	3.5	3.6	3.2	2.7	1.3	.4	.7	1.0	.8	2.2	1.7
Science & Ed Admin, total	18.2	24.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Agricultural Research Svc	18.2	24.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Department of Commerce, total	1.9	4.8	1.3	1.0	.7	9.2	4.3	7.4	4.2	10.9	9.1
Economic Development Admin	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.2
Maritime Administration	.5	.6	NA	NA	NA	NA	NA	NA	NA	NA	NA
National Institute of Standards & Technology	1.4	.3	.5	1.0	.7	9.2	4.3	6.0	2.1	10.1	8.5
National Oceanic & Atmospheric Administration	.0	3.9	.8	.0	.0	.0	.0	1.5	2.1	.5	.5
Department of Defense, total	235.8	204.7	238.5	231.7	267.7	380.1	401.7	280.6	357.3	416.2	415.6
Department of the Air Force	164.9	103.0	130.0	67.7	103.7	191.2	199.8	89.1	194.3	207.5	199.7
Department of the Army	2.1	7.6	8.9	13.5	21.5	34.4	53.4	55.0	60.7	61.8	39.7
Department of the Navy	52.9	90.9	92.2	125.3	136.7	150.3	143.8	130.7	65.0	78.8	84.5
Defense Agencies	15.9	3.2	7.4	25.2	5.8	4.2	4.7	5.8	37.4	68.1	91.8
Department of Education	.0	.0	.0	.0	.0	.0	.0	.8	15.8	11.1	2.3
Department of Energy	653.5	962.8	1,084.5	943.3	824.5	916.1	855.3	725.8	721.3	779.0	838.3
Department of Health & Human Services, total	73.4	76.9	42.6	36.8	26.5	34.6	42.6	32.7	31.5	30.7	56.0
Alcohol, Drug Abuse, & Mental Health Administration	.4	.1	.1	.4	1.0	4.1	1.4	.5	.6	.0	.0
Food & Drug Administration	.6	.7	.5	1.0	2.1	10.0	15.0	10.0	1.9	1.7	2.0
National Insts of Health	72.5	76.0	42.0	35.4	23.4	20.5	26.2	22.2	29.0	29.0	54.0
Dept of the Interior, total	9.0	8.7	4.1	1.3	2.4	5.2	4.2	6.1	4.8	5.1	6.8
Bonneville Power Admin	.0	.0	.3	NA	NA	NA	NA	NA	NA	NA	NA
Bureau of Mines	4.3	2.4	2.1	.2	.1	.1	.0	.0	.0	.0	2.1
Geological Survey	.0	.0	.0	.0	1.5	1.1	.9	.9	.8	.8	1.4
Office of Surface Mining Reclamation & Enforcement	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
Office of Water Rsch & Tech	.7	.7	.8	.9	.0	.0	NA	NA	NA	NA	NA
US Fish & Wildlife Service	4.0	5.3	1.0	.3	.8	4.0	3.3	5.2	4.0	4.3	3.4
Department of Justice, total	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0
Fed Bureau of Investigation	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0
Dept of Transportation, total	16.2	16.3	16.2	13.0	9.9	12.9	14.1	15.5	11.2	11.1	12.9
Coast Guard	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0
Federal Aviation Admin	9.5	5.5	6.1	4.3	9.2	12.4	13.6	14.3	10.4	10.5	12.6
Federal Highway Admin	.2	.3	2.8	.0	.0	.0	.0	.7	.3	.0	.0
Federal Railroad Admin	6.3	10.3	6.8	8.2	.2	.0	.0	.0	.0	.2	.3
National Highway Traffic Safety Administration	.2	.2	.5	.5	.5	.5	.5	.5	.5	.0	.0
Dept of the Treasury, total	-	-	.1	.1	.1	.1	.1	.1	.1	.1	.1
US Customs Service	-	-	.1	.1	.1	.1	.1	.1	.1	.1	.1
United States Secret Service	NA	.0	.0	.0	.0	.0	.0	.1	-	-	-
Department of Veterans Affairs	2.8	4.2	6.5	2.9	10.6	4.6	7.6	3.9	3.7	4.6	1.5

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

Table C-94. Federal outlays for R&D plant, by agency: fiscal years 1979-1989

[Dollars in millions]

Agency and subdivision	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Other agencies:											
Consumer Product Safety Comm	2.7	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0
Environmental Protection Agcy	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
General Services Admin	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0
International Development Cooperation Agency, total	4.5	6.6	6.2	10.3	12.3	11.4	12.8	14.0	14.4	12.6	.0
Agcy for Internat'l Dvlpmt	4.5	6.6	6.2	10.3	12.3	11.4	12.8	14.0	14.4	12.6	.0
Nat'l Aero & Space Admin	132.7	140.3	146.9	112.2	108.1	191.9	246.8	299.1	313.9	398.7	531.3
National Science Foundation	29.4	17.6	12.7	1.5	2.9	43.0	64.0	57.3	49.9	56.7	56.7
Nuclear Regulatory Commission	8.0	7.4	7.3	.0	.0	.0	.0	.0	.0	.0	.0
Smithsonian Institution	.6	.4	.4	.4	1.1	.6	.9	1.5	1.6	1.6	2.8
Tennessee Valley Authority	8.2	.6	.4	.2	.4	.2	.3	.6	.4	.5	.2
United States Arms Control & Disarmament Agency	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0

NOTES: Because of rounding, detail may not add to totals.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For notes associated with the agencies listed in this table, refer to appendix B.

KEY: - = Amount less than 50 thousand dollars
NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-94a. Federal outlays for R&D plant, by agency: fiscal years 1990-2000

[Dollars in millions]

Agency and subdivision	1990	1991	1992	1993	1994	1995	1996	1997	1998	Preliminary	
										1999	2000
Total, all agencies	2,015.8	2,546.1	2,784.5	3,144.5	2,177.6	2,032.4	1,865.6	1,994.8	1,861.1	2,004.7	2,122.7
Departments:											
Dept of Agriculture, total	124.2	80.1	136.8	149.5	133.4	128.4	102.6	122.3	159.1	160.4	141.0
Agricultural Research Svc	55.3	49.4	69.4	89.2	75.3	79.1	67.5	70.9	95.0	115.7	110.8
Animal & Plant Health Inspection Service	6.1	.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0
Cooperative State Research, Ed, & Extension Service	58.0	15.5	60.2	53.8	52.8	45.1	31.1	49.3	61.5	39.7	25.2
Foreign Agricultural Svc	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0
Forest Service	4.9	15.1	7.2	6.5	4.9	4.3	2.5	2.0	2.6	5.0	5.0
Department of Commerce, total	14.7	15.5	21.3	22.4	12.9	23.5	26.9	70.5	69.4	41.1	71.4
National Institute of Standards & Technology	8.1	8.3	11.4	9.6	12.7	23.0	26.9	48.9	42.5	27.7	41.7
National Oceanic & Atmospheric Administration	6.6	7.3	9.9	12.8	.3	.5	.0	21.6	26.9	13.4	29.8
Department of Defense, total	436.8	433.7	410.9	373.2	261.0	81.0	114.7	52.4	39.7	61.9	38.5
Department of the Air Force	200.2	218.2	186.3	231.0	153.7	26.9	54.2	25.4	3.7	4.0	2.4
Department of the Army	46.8	65.0	22.0	7.0	3.8	4.2	5.6	4.8	4.1	4.1	1.8
Department of the Navy	101.2	87.0	111.0	73.5	62.9	37.5	26.6	16.9	22.9	27.5	31.0
Defense Agencies	88.6	63.5	91.6	61.7	40.6	12.4	28.3	5.3	9.0	26.2	3.4
Department of Education	2.8	2.6	2.5	12.8	1.9	1.0	.1	.0	.0	.0	.0
Department of Energy	856.9	1,099.8	1,198.0	1,483.2	921.8	864.1	809.9	806.7	776.3	834.9	940.1
Department of Health & Human Services, total	55.1	194.8	96.7	149.3	134.2	267.0	140.5	120.5	156.9	249.7	275.7
Food & Drug Administration	1.0	18.4	14.3	19.7	21.9	16.7	5.5	8.7	13.0	22.0	19.0
Hlth Resources & Svcs Admin	.0	.0	.3	1.4	1.4	1.6	.7	.7	.9	.9	.8
National Insts of Health	54.1	176.4	82.1	128.2	110.9	248.8	134.3	111.1	143.0	226.8	255.9
Social Security Admin	.0	-	.0	.0	.0	.0	NA	NA	NA	NA	NA
Dept of the Interior, total	10.5	20.7	17.8	20.8	7.5	6.5	2.1	6.6	1.6	1.3	1.1
Bureau of Mines	3.0	1.5	.0	.0	.0	.0	NA	NA	NA	NA	NA
Geological Survey	1.3	2.9	4.4	4.0	6.3	5.3	1.1	4.8	.0	.0	.0
Minerals Management Service	.2	.2	.7	1.0	1.1	1.0	1.0	1.8	1.6	1.3	1.1
Nat'l Biological Svc	NA	NA	NA	.0	.1	.3	NA	NA	NA	NA	NA
US Fish & Wildlife Service	6.0	16.1	12.7	15.8	.0	.0	.0	.0	.0	.0	.0
Dept of Transportation, total	16.7	18.4	17.1	30.0	17.0	26.7	14.2	20.8	21.3	17.5	15.6
Coast Guard	.4	.4	.4	.5	.5	.5	.5	.3	.3	.3	.3
Federal Aviation Admin	16.3	16.5	15.9	25.6	11.7	14.0	6.0	18.0	18.9	16.0	14.1
Federal Highway Admin	.0	.0	.0	.4	3.8	10.9	6.1	2.5	1.1	.5	.8
Federal Railroad Admin	-	1.5	.8	1.3	1.0	1.3	1.6	.0	1.0	.7	.4
Federal Transit Admin	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0
Dept of the Treasury, total	.1	.1	.1	.2	1.9	.2	.2	.1	.1	.1	.1
Bureau of Engraving & Printing	.0	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0
US Customs Service	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
United States Secret Service	-	-	-	-	-	-	-	.0	.0	.0	.0
Department of Veterans Affairs	12.4	8.2	5.5	4.8	5.2	7.2	8.5	8.3	1.2	6.1	5.2

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

Table C-94a. Federal outlays for R&D plant, by agency: fiscal years 1990-2000

[Dollars in millions]

Agency and subdivision	1990	1991	1992	1993	1994	1995	1996	1997	1998	Preliminary	
										1999	2000
Other agencies:											
Environmental Protection Agcy	.0	.0	.0	2.5	4.8	3.0	.0	22.0	21.0	89.0	114.0
General Services Admin	.0	3.6	20.9	7.6	5.5	1.3	4.1	1.6	.0	.8	.0
Nat'l Aero & Space Admin	437.9	603.8	770.2	798.4	553.5	515.4	480.0	442.0	320.0	330.0	320.0
National Science Foundation	38.1	56.5	80.9	87.5	110.6	101.0	158.0	318.0	292.0	209.0	197.0
Smithsonian Institution	4.6	4.5	1.2	1.2	6.2	6.0	4.0	3.0	2.5	3.0	3.0
Tennessee Valley Authority	4.9	3.7	4.6	1.0	.0	.0	.0	.0	.0	.0	.0

NOTES: Because of rounding, detail may not add to totals.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: - = Amount less than 50 thousand dollars
NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-95. Federal obligations for research and development and for R&D plant, by agency: fiscal years 1979-1989

[Dollars in millions]

Agency and subdivision	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total, all agencies	29,620.6	31,386.1	34,589.6	37,822.4	40,009.0	44,012.1	50,180.4	52,951.2	57,099.7	58,826.5	63,571.6
Departments:											
Dept of Agriculture, total	685.7	744.5	794.7	818.7	881.5	905.4	983.6	1,007.9	1,059.6	1,151.8	1,127.5
Agricultural Cooperative Svc	NA	1.6	1.7	1.7	2.1	2.2	2.9	2.6	2.7	2.7	2.8
Agricultural Marketing Svc	1.0	1.3	1.1	1.2	1.4	1.5	1.7	1.6	1.5	1.6	1.5
Agricultural Research Svc	NA	NA	411.6	426.0	466.8	480.1	498.7	532.6	522.4	561.2	578.7
Animal & Plant Health Inspection Service	.0	.0	.0	.0	.0	.0	.0	4.2	4.9	6.2	7.7
Cooperative State Research, Ed, & Extension Service	NA	NA	199.4	219.0	242.3	245.7	294.3	278.6	338.3	374.7	339.4
Economic Research Service	NA	NA	39.3	39.3	38.8	43.7	46.4	44.6	44.8	48.1	49.5
Economics, Stat, & Coop Svc	35.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Economics & Statistics Svc	NA	31.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Forest Service	111.0	115.2	129.3	112.5	108.1	108.8	114.8	114.0	127.1	138.4	133.0
Grain Inspection Packers & Stockyards Administration	.0	.0	.0	.0	.0	.0	.9	1.0	1.2	1.0	1.1
Human Nutrition Info Svc	NA	NA	.0	8.5	8.2	6.0	6.7	12.8	6.8	8.2	8.4
Nat'l Agri Statistics Svc	NA	NA	7.5	7.0	7.6	8.2	8.4	8.0	3.4	3.6	2.9
Office of International Cooperation & Development	.0	5.3	3.9	2.6	5.3	8.2	7.7	7.0	5.6	5.0	2.5
Office of Transportation	.7	.8	.9	.9	.8	1.0	1.2	1.0	1.1	1.1	NA
Science & Ed Admin, total	537.5	589.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Agricultural Research Svc	365.0	405.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cooperative State Rsch Svc	172.6	184.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Department of Commerce, total	311.8	347.2	329.3	337.3	335.7	367.6	403.0	408.4	407.5	400.2	407.0
Bureau of the Census	3.1	3.2	3.9	3.8	4.3	4.4	4.9	4.7	4.7	5.7	4.9
Economic Development Admin	43.1	32.3	28.1	9.6	5.3	5.1	13.0	10.3	5.0	4.2	1.0
Maritime Administration	20.5	19.9	NA	NA	NA	NA	NA	NA	NA	NA	NA
National Institute of Standards & Technology	69.3	76.4	83.0	89.9	95.7	104.9	104.7	108.5	100.7	118.7	124.2
National Oceanic & Atmospheric Administration	171.2	203.6	202.2	222.0	222.0	244.3	269.8	276.2	289.3	263.5	269.1
National Telecommunications & Information Administration	4.1	10.7	10.9	11.3	8.3	8.7	9.1	8.4	7.8	8.1	7.8
Office of the Secretary	.1	.6	.0	-	-	.1	1.4	.3	-	.0	.0
Patent & Trademark Office	.5	.5	1.1	.7	.0	.0	.0	.0	.0	.0	.0
Department of Defense, total	12,776.4	14,189.2	16,786.3	20,913.1	23,305.3	25,902.1	30,322.4	33,224.1	35,708.7	35,684.6	38,076.2
Department of the Air Force	4,693.1	5,319.0	7,128.8	9,442.6	10,951.3	12,377.0	13,552.2	13,723.9	15,618.0	15,011.0	15,487.6
Department of the Army	2,772.5	2,993.8	3,257.0	3,785.2	4,024.4	4,281.7	4,623.7	4,863.3	5,085.2	4,898.8	5,704.5
Department of the Navy	4,403.1	4,789.3	5,103.9	6,001.0	6,209.9	7,779.0	9,309.5	9,747.9	9,576.8	9,588.9	9,755.7
Defense Agencies	878.4	1,049.2	1,255.6	1,643.3	2,058.1	1,405.7	2,786.3	4,771.9	5,291.8	5,957.3	6,973.3
Operational Test & Evaluation, Director	NA	NA	NA	NA	NA	NA	NA	.0	8.4	68.2	14.4
Test & Evaluation, Deputy Under Secretary of Defense	29.3	37.9	41.1	41.0	61.6	58.6	50.6	117.1	128.5	160.3	140.7
Department of Education	166.3	139.4	104.9	128.0	111.7	115.7	126.0	127.9	153.5	145.9	161.0
Department of Energy	5,483.2	5,777.8	5,896.4	5,622.2	5,294.4	5,526.0	5,834.4	5,430.6	5,529.4	5,951.4	6,065.6

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

Table C-95. Federal obligations for research and development and for R&D plant, by agency: fiscal years 1979-1989

[Dollars in millions]

Agency and subdivision	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Department of Health & Human Services, total	3,558.4	3,810.8	3,950.9	3,965.4	4,400.4	4,861.8	5,493.2	5,695.5	6,643.0	7,177.6	7,981.4
Alcohol, Drug Abuse, & Mental Health Administration	214.4	233.5	239.7	251.4	304.0	337.5	377.9	396.6	476.1	554.8	695.7
Centers for Disease Control & Prevention	76.3	87.3	74.8	75.0	78.2	46.3	47.6	52.2	66.2	88.7	117.8
Food & Drug Administration	66.7	76.6	72.6	75.0	102.7	80.8	95.1	87.4	85.8	91.5	122.0
Health Care Financing Admin	31.8	45.7	38.6	29.1	30.2	33.1	33.5	29.0	27.3	28.2	49.1
Health Resources Admin	4.9	5.1	5.0	NA	NA	NA	NA	NA	NA	NA	NA
Hlth Resources & Svcs Admin	NA	NA	NA	10.1	13.3	18.5	19.7	12.3	9.3	10.0	10.5
Health Services Admin	28.7	26.7	20.3	NA	NA	NA	NA	NA	NA	NA	NA
Human Development Services	57.1	49.3	73.7	27.2	23.4	18.3	24.3	54.6	53.0	54.0	101.7
National Insts of Health	3,000.8	3,211.2	3,355.5	3,452.6	3,806.8	4,285.2	4,856.5	5,034.5	5,886.2	6,309.9	6,833.8
Office of the Assistant Secretary for Health	34.6	29.9	33.1	16.1	16.6	18.1	18.6	17.3	21.2	21.0	27.2
Office of the Secretary	24.7	24.0	19.5	13.4	14.4	10.4	9.6	6.1	8.2	4.7	7.8
Social Security Admin	18.3	21.4	18.0	15.5	10.8	13.5	10.4	5.6	9.8	14.7	15.8
Dept of Housing & Urban Dvlpmt	67.9	56.0	48.1	28.9	32.1	18.2	18.5	15.3	16.3	18.4	18.0
Dept of the Interior, total	410.8	418.8	430.6	382.4	384.9	416.1	395.9	389.6	415.7	426.1	479.8
Bonneville Power Admin	.0	.0	14.4	NA	NA	NA	NA	NA	NA	NA	NA
Bureau of Land Management	1.3	1.7	1.9	5.3	3.9	3.8	4.4	3.4	3.7	3.7	3.0
Bureau of Mines	121.3	114.4	97.4	94.8	88.6	108.8	89.9	84.4	88.8	91.3	101.2
Bureau of Reclamation	12.2	14.1	14.3	10.1	10.0	10.4	13.2	10.2	10.7	4.4	4.2
Geological Survey	145.6	146.3	169.8	152.6	158.4	209.9	215.7	219.5	227.6	236.9	281.1
Minerals Management Service	NA	NA	NA	.0	1.5	1.5	1.4	1.1	1.0	1.2	2.2
National Park Service	8.9	8.2	10.4	11.2	13.7	14.0	15.0	17.3	18.5	19.4	19.4
Office of the Secretary	1.4	2.2	1.5	.5	7.4	.1	1.9	1.0	.0	.4	.4
Office of Surface Mining Reclamation & Enforcement	5.0	7.8	5.8	1.5	1.5	.8	2.0	2.3	1.0	1.0	.7
Office of Water Rsch & Tech	28.0	30.0	21.8	12.3	2.2	3.6	NA	NA	NA	NA	NA
US Fish & Wildlife Service	87.1	94.1	93.3	94.2	97.7	63.3	52.4	50.5	64.3	67.8	67.5
Department of Justice, total	43.0	41.5	26.5	26.7	31.4	24.5	36.0	36.5	53.5	43.1	38.2
Bureau of Prisons	3.4	2.1	2.5	1.7	1.7	1.6	1.5	3.0	7.1	6.0	5.1
Drug Enforcement Admin	2.4	2.7	1.3	3.2	2.5	1.9	1.6	2.5	2.2	2.5	2.7
Fed Bureau of Investigation	3.1	1.4	.7	2.7	2.5	1.0	9.5	7.2	19.1	12.7	7.7
Immigration & Naturalization Service	.2	.3	.1	.6	.6	.6	.4	.4	.4	.3	.1
Office of Justice Programs	32.2	33.2	21.0	18.0	23.8	19.5	22.7	23.2	24.6	21.5	22.5
Office of Legal Policy	1.7	1.8	.8	.4	.3	.0	.3	.2	.1	.0	.0
Department of Labor, total	137.0	138.1	62.2	25.4	19.9	16.3	13.3	10.4	21.6	35.6	35.4
Bureau of Labor Statistics	.9	.9	.3	.3	.7	.5	.6	.6	6.5	7.0	7.0
Employment Standards Admin	5.3	4.9	3.2	1.4	1.4	.9	-	.0	1.0	.1	.1
Employment & Training Admin	120.8	121.7	52.4	16.1	9.0	6.1	3.5	3.5	5.7	14.9	15.7
Labor-Management Relations & Cooperative Programs	NA	NA	NA	NA	NA	.3	.3	.2	.3	.4	.3
Labor-Management Services Administration	3.2	2.8	1.8	.7	.9	NA	NA	NA	NA	NA	NA
Occupational Safety & Health Administration	5.1	6.3	3.0	4.9	5.3	5.1	4.5	3.6	4.1	4.2	4.5
Office of the Secretary	1.6	1.4	1.1	.9	1.5	1.9	2.6	2.1	2.7	6.1	6.1
Pension Benefit Guaranty Corp	NA	NA	.5	1.1	1.1	.3	.2	.1	.3	.3	.3
Pension & Welfare Benefits Administration	NA	NA	NA	NA	NA	1.2	1.6	.3	1.0	2.7	1.4
Department of State, total	3.2	2.2	1.8	1.5	1.5	1.6	1.5	1.5	3.0	4.2	4.7
Departmental Funds	3.2	2.2	1.8	.0	.0	.0	.0	.0	.0	.0	.0

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

Table C-95. Federal obligations for research and development and for R&D plant, by agency: fiscal years 1979-1989

[Dollars in millions]

Agency and subdivision	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Dept of Transportation, total	392.7	384.5	434.5	322.0	369.6	465.2	437.9	397.5	336.2	318.5	318.9
Coast Guard	21.1	18.0	26.3	20.0	19.6	19.5	19.0	16.9	17.0	21.4	17.9
Federal Aviation Admin	120.4	108.8	128.9	99.4	147.6	282.6	294.8	271.5	177.7	173.8	162.3
Federal Highway Admin	53.5	58.3	51.2	40.3	50.4	46.4	49.0	46.1	76.9	74.1	91.0
Federal Railroad Admin	56.1	56.4	46.1	24.5	16.5	19.2	15.0	15.4	11.2	10.4	9.0
Federal Transit Admin	58.0	54.4	78.2	61.4	57.0	20.1	10.2	8.2	12.6	2.3	1.4
Maritime Administration	NA	NA	14.2	11.1	15.0	9.9	13.9	9.4	5.8	.5	.0
National Highway Traffic Safety Administration	56.8	63.8	66.4	55.9	52.5	57.4	28.6	22.9	28.4	28.3	29.7
Office of the Secretary	11.7	10.8	10.1	3.3	4.9	4.9	4.8	5.1	4.5	5.7	5.5
Research & Special Programs Administration	15.0	14.0	13.1	6.1	6.2	5.2	2.7	2.0	2.1	2.1	2.0
Dept of the Treasury, total	9.6	12.1	11.4	13.4	15.6	13.9	24.4	24.2	27.0	26.2	25.7
Bureau of Alcohol, Tobacco, & Firearms	2.5	1.6	.3	NA	NA	NA	NA	NA	NA	NA	NA
Bureau of Engraving & Printing	2.1	2.3	2.7	4.8	3.9	3.6	5.0	4.2	4.5	2.0	1.7
Internal Revenue Service	3.6	4.0	4.2	5.4	8.0	8.2	15.9	14.2	14.6	14.4	14.4
US Customs Service	1.4	3.9	3.5	3.2	3.4	1.9	2.3	4.9	7.1	9.3	6.9
United States Mint	.0	.0	.0	.0	.0	.0	.6	.3	.2	.1	2.0
United States Secret Service	NA	.4	.6	.0	.3	.2	.6	.5	.5	.4	.6
Department of Veterans Affairs	132.1	137.8	159.2	140.1	171.9	196.4	229.9	191.0	215.4	234.8	245.7
Other agencies:											
ACTION	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Advisory Commission on Intergovernmental Relations	1.7	2.2	2.2	2.0	2.1	2.1	2.4	2.1	1.9	1.8	1.1
Appalachian Regional Comm	.9	.8	.4	.4	.2	.5	.2	.2	.1	.2	.8
Community Services Admin	20.7	30.3	18.3	NA	NA	NA	NA	NA	NA	NA	NA
Consumer Product Safety Comm	6.6	6.2	.5	.2	.5	1.3	2.4	2.0	2.2	1.1	1.3
Environmental Protection Agcy	412.5	345.0	325.7	335.1	240.7	261.2	320.4	317.3	348.2	347.4	380.3
Fed Communications Commission	2.9	3.4	1.8	1.2	1.3	.9	1.2	.9	1.0	1.2	1.1
Federal Emergency Management Agency, total	12.6	11.8	11.6	9.2	3.3	11.5	4.1	.0	.0	.0	.0
Federal Trade Commission	1.5	3.0	1.1	1.2	1.4	1.6	1.7	1.8	.5	.4	.4
General Services Admin	.5	.2	.6	1.0	.5	2.4	.4	20.0	1.6	2.3	.5
International Development Cooperation Agency, total	112.9	155.6	142.2	205.9	232.0	245.0	227.2	258.7	224.3	210.6	279.1
Agcy for Internat'l Dvlpmt	112.9	155.6	142.2	205.9	232.0	245.0	227.2	258.7	224.3	210.6	279.1
Interstate Commerce Commission	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
Library of Congress	5.9	6.9	4.9	5.7	7.4	7.5	7.1	6.6	6.5	7.1	8.0
Nat'l Aero & Space Admin	3,725.9	3,393.2	3,708.9	3,191.6	2,762.3	3,066.1	3,561.5	3,694.8	4,096.5	4,758.6	5,913.0
Nat'l Archives & Records Administration	NA	NA	NA	NA	NA	NA	.5	1.0	1.1	.7	.3
National Science Foundation	838.1	900.5	976.2	976.8	1,065.2	1,248.0	1,419.1	1,406.5	1,531.8	1,589.6	1,724.0
Nuclear Regulatory Commission	157.4	190.4	227.3	220.3	207.3	190.7	150.0	123.8	122.5	108.5	114.8
Office of Personnel Management	6.0	6.8	8.4	.0	.0	.0	.0	.0	.0	.0	.0
Office of Thrift Supervision	.9	1.2	1.0	2.7	3.0	2.6	2.8	3.3	3.4	3.4	4.1
Smithsonian Institution	37.9	41.9	45.3	52.9	57.0	63.8	72.7	64.0	74.4	75.8	83.6
Tennessee Valley Authority	89.2	80.7	69.3	85.3	63.3	68.3	80.0	78.3	78.2	87.7	62.8
United States Arms Control & Disarmament Agency	3.5	3.8	2.4	1.9	1.0	1.3	1.1	.9	4.6	3.4	2.8
US Information Agency	.1	.1	1.5	.1	-	1.4	.1	2.0	3.5	.4	.1
US Internat'l Trade Comm	3.4	2.1	3.4	3.8	4.7	5.0	5.8	6.9	7.2	8.1	8.7

NOTES: Because of rounding, detail may not add to totals.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For notes associated with the agencies listed in this table, refer to appendix B.

KEY: - = Amount less than 50 thousand dollars
NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-95a. Federal obligations for research and development and for R&D plant, by agency: fiscal years 1990-2000

[Dollars in millions]

Agency and subdivision	1990	1991	1992	1993	1994	1995	1996	1997	1998	Preliminary	
										1999	2000
Total, all agencies	65,831.2	64,148.0	68,577.2	70,414.7	69,450.8	70,442.9	69,399.2	71,753.4	73,743.5	77,650.1	77,185.6
Departments:											
Dept of Agriculture, total	1,210.6	1,381.3	1,491.8	1,470.2	1,525.6	1,523.6	1,428.7	1,572.8	1,530.8	1,758.0	1,709.0
Agricultural Cooperative Svc	2.7	2.8	3.4	2.9	3.7	NA	NA	NA	NA	NA	NA
Agricultural Marketing Svc	2.7	4.2	4.7	4.7	4.8	4.8	4.9	4.8	4.7	4.7	5.0
Agricultural Research Svc	589.9	655.7	725.2	705.5	757.0	751.0	743.1	806.6	844.2	948.7	962.1
Animal & Plant Health Inspection Service	14.0	15.7	16.7	17.1	19.2	19.1	19.5	19.8	20.5	20.0	20.0
Cooperative State Research, Ed, & Extension Service	371.1	438.3	481.2	479.2	471.6	489.0	418.9	496.7	387.3	506.2	451.0
Economic Research Service	50.5	54.4	58.9	58.9	55.2	53.8	53.0	53.0	71.5	65.0	55.6
Food Safety Inspection Svc	.0	.0	.0	.0	.0	.0	-	-	.2	.2	.2
Foreign Agricultural Svc	.0	.0	.0	.0	1.1	.9	1.3	1.4	1.4	1.4	1.4
Forest Service	163.5	193.1	184.3	186.3	198.0	197.8	180.4	181.8	190.4	202.4	202.4
Grain Inspection Packers & Stockyards Administration	.6	.7	1.5	1.8	1.8	1.5	2.5	2.8	2.7	2.7	3.4
Human Nutrition Info Svc	9.0	9.9	10.7	8.4	7.0	NA	NA	NA	NA	NA	NA
Nat'l Agri Statistics Svc	2.8	3.2	3.6	3.9	3.9	4.0	3.8	3.4	3.3	3.2	3.2
Office of International Cooperation & Development	3.6	3.1	1.5	1.5	.0	NA	NA	NA	NA	NA	NA
Rural Business-Coop Svc	NA	NA	NA	NA	2.4	1.6	1.4	2.5	4.4	3.5	4.5
Department of Commerce, total	453.5	505.4	672.2	681.7	857.3	1,213.7	1,152.0	1,046.5	996.9	1,197.0	1,162.5
Bureau of the Census	6.9	6.6	5.3	5.4	4.8	4.9	6.3	5.1	8.6	16.3	8.3
Economic Development Admin	1.2	1.4	.5	.0	.6	.5	.6	.6	.6	.6	.6
National Institute of Standards & Technology	131.0	148.4	190.2	219.8	284.1	640.5	601.0	482.1	415.7	583.2	566.0
National Oceanic & Atmospheric Administration	306.7	345.3	472.2	452.4	562.9	561.4	528.5	530.9	546.4	572.8	561.5
National Telecommunications & Information Administration	7.7	3.6	4.0	4.2	4.8	6.4	15.7	27.8	25.5	24.2	26.3
Office of the Secretary	.0	.0	.0	.0	.0	-	-	.0	.0	.0	.0
Department of Defense, total	37,755.5	32,560.5	36,526.0	36,220.7	34,818.9	33,856.8	34,582.2	34,873.8	35,352.0	35,745.3	34,474.7
Department of the Air Force	15,153.6	11,089.8	13,606.8	12,866.9	12,626.8	11,835.7	13,066.5	13,990.6	13,865.2	13,570.9	14,382.3
Department of the Army	5,737.2	6,172.5	6,876.2	6,227.2	5,576.2	5,424.7	4,879.7	4,825.2	5,041.7	5,185.3	4,501.3
Department of the Navy	9,646.6	7,860.0	8,126.8	9,148.3	9,005.1	8,974.5	8,614.4	8,252.5	8,190.8	8,740.7	8,225.7
Defense Agencies	6,996.8	7,200.9	7,670.5	7,723.3	7,367.8	7,369.1	7,742.0	7,509.1	7,981.9	7,980.0	7,086.8
Operational Test & Evaluation, Director	32.6	13.6	12.4	12.3	11.2	21.7	21.9	26.6	30.3	31.8	25.4
Test & Evaluation, Deputy Under Secretary of Defense	188.7	223.7	233.2	242.5	231.8	231.0	257.7	269.7	242.0	236.6	253.1
Department of Education	178.8	175.2	170.9	179.9	178.4	179.4	173.7	181.2	204.5	221.8	272.1
Department of Energy	6,546.6	7,203.2	7,493.0	7,723.7	6,959.8	6,890.0	6,050.8	6,332.8	6,600.9	7,347.3	7,458.4

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

Table C-95a. Federal obligations for research and development and for R&D plant, by agency: fiscal years 1990-2000

[Dollars in millions]

Agency and subdivision	1990	1991	1992	1993	1994	1995	1996	1997	1998	Preliminary 1999	Preliminary 2000
Department of Health & Human Services, total	8,513.4	9,842.3	9,084.6	10,498.5	11,141.7	11,711.0	12,084.2	13,045.3	13,990.5	16,009.0	16,361.4
Administration on Aging	NA	20.6	20.2	20.9	19.1	20.7	3.7	4.4	10.4	18.4	18.4
Administration for Children & Families	NA	129.0	39.2	19.9	11.3	12.0	12.6	17.4	23.5	18.8	28.0
Agency for Health Care Policy & Research	49.7	101.1	106.3	114.8	154.4	135.3	125.2	144.0	146.5	171.0	206.3
Alcohol, Drug Abuse, & Mental Health Administration	842.7	1,460.6	NA	NA	NA	NA	NA	NA	NA	NA	NA
Centers for Disease Control & Prevention	95.6	113.4	146.9	162.5	206.8	317.4	296.7	323.0	343.6	382.6	468.6
Food & Drug Administration	122.0	143.5	150.0	174.2	177.8	175.8	176.4	173.1	171.0	152.6	183.5
Health Care Financing Admin	49.1	69.1	75.5	68.2	80.0	74.5	52.7	43.6	51.2	50.0	55.0
Hlth Resources & Svcs Admin	11.9	11.0	10.5	11.0	17.8	14.8	11.8	13.8	13.8	13.8	13.9
Human Development Services	95.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
National Insts of Health	7,221.3	7,763.4	8,491.4	9,893.3	10,439.9	10,930.6	11,377.9	12,237.9	13,137.5	15,108.1	15,289.2
Office of the Assistant Secretary for Health	6.9	10.0	6.7	1.2	.8	.3	NA	NA	NA	NA	NA
Off of the Secretary, total	5.0	8.8	5.0	8.0	11.7	9.1	10.7	19.0	17.0	17.7	18.5
Office of the Assistant Sec, Planning & Eval	NA	NA	NA	NA	NA	NA	9.0	18.4	13.9	14.0	14.0
Office of Public Health & Science	NA	NA	NA	NA	NA	NA	1.7	.6	3.1	3.7	4.5
Social Security Admin	13.9	11.9	33.0	24.5	22.2	20.4	NA	NA	NA	NA	NA
Substance Abuse & Mental Health Services Admin[1]	NA	NA	NA	NA	NA	NA	16.7	69.1	76.0	76.0	80.0
Dept of Housing & Urban Dvlpmt	19.3	27.8	25.1	23.6	39.6	41.8	33.1	33.5	28.0	59.4	50.6
Dept of the Interior, total	522.6	615.1	627.6	642.2	703.1	568.3	569.5	587.1	533.5	565.2	585.7
Bureau of Land Management	2.8	8.8	6.3	8.9	.0	.0	.0	.0	.0	.0	.0
Bureau of Mines	102.3	108.2	107.1	111.9	107.9	.0	NA	NA	NA	NA	NA
Bureau of Reclamation	5.8	8.7	13.2	10.3	7.4	8.0	6.5	7.1	8.8	8.1	9.9
Geological Survey	309.7	359.8	365.7	360.4	377.4	367.4	520.1	531.2	464.1	497.2	514.3
Minerals Management Service	2.0	2.9	4.8	6.9	21.8	21.0	22.6	22.8	30.8	30.2	29.7
Nat'l Biological Svc	NA	NA	NA	.0	164.2	152.1	NA	NA	NA	NA	NA
National Park Service	20.1	27.5	31.1	38.1	24.2	19.7	20.2	26.0	29.7	29.7	31.8
Office of the Secretary	.2	.6	.9	.4	.1	-	.0	.0	.0	.0	.0
Office of Surface Mining Reclamation & Enforcement	.7	1.0	.3	.5	.0	.0	.0	.0	.0	.0	.0
US Fish & Wildlife Service	78.9	97.6	98.2	104.8	.0	.0	.0	.0	.0	.0	.0
Department of Justice, total	40.5	48.9	48.0	48.9	45.0	57.9	77.3	84.7	100.6	110.2	81.8
Bureau of Prisons	4.5	5.2	5.9	6.1	5.4	5.7	5.2	4.6	8.1	7.8	8.0
Drug Enforcement Admin	2.4	2.7	1.4	.9	.9	.4	1.2	-	.0	.0	.0
Fed Bureau of Investigation	8.2	10.8	10.9	11.3	7.0	10.9	33.5	35.5	35.8	36.2	36.2
Immigration & Naturalization Service	.4	.4	.4	.4	.4	.4	.2	.4	.0	.5	.5
Office of Justice Programs	25.0	29.8	29.4	30.2	31.4	40.5	37.2	44.2	56.7	65.7	37.1
Department of Labor, total	73.0	44.0	51.7	55.0	59.7	55.4	52.4	35.1	27.8	26.7	25.9
Bureau of Labor Statistics	7.3	7.5	7.6	6.9	7.1	14.8	13.3	12.6	12.4	12.4	12.4
Employment Standards Admin	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Employment & Training Admin	53.4	22.1	31.7	35.9	40.0	25.6	26.9	14.1	7.2	6.6	4.4
Occupational Safety & Health Administration	2.5	2.6	3.1	2.5	3.3	4.4	6.6	5.5	4.6	5.0	5.3
Office of the Secretary	7.1	8.7	5.9	5.8	5.3	6.3	2.6	.2	.2	.2	.2
Pension Benefit Guaranty Corp	.5	.5	.9	1.3	1.3	.8	.7	.7	.6	.7	.7
Pension & Welfare Benefits Administration	2.1	2.5	2.6	2.6	2.7	3.6	2.3	2.0	2.7	1.8	3.0
Department of State[2]	4.7	5.9	5.6	5.3	.4	.5	.9	1.0	.9	1.0	1.0

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

Table C-95a. Federal obligations for research and development and for R&D plant, by agency: fiscal years 1990-2000

[Dollars in millions]

Agency and subdivision	1990	1991	1992	1993	1994	1995	1996	1997	1998	Preliminary	
										1999	2000
Dept of Transportation, total	388.3	398.3	470.3	577.6	661.7	755.8	584.3	545.9	583.7	717.5	943.4
Coast Guard	20.6	25.9	20.5	33.4	22.8	20.2	20.5	23.3	20.7	18.2	22.9
Federal Aviation Admin	237.5	236.4	260.2	271.3	318.6	310.1	228.9	226.3	242.3	225.5	246.5
Federal Highway Admin	91.5	86.9	131.0	175.7	242.0	315.6	247.3	211.2	229.3	355.6	559.7
Federal Railroad Admin	10.2	17.6	22.8	26.8	20.6	30.1	30.1	19.5	22.6	26.2	24.4
Federal Transit Admin	1.6	1.7	1.7	31.3	19.9	28.7	13.7	17.0	17.6	22.2	19.2
Maritime Administration	.9	1.7	1.8	1.7	1.7	2.5	.0	.0	.0	.0	.0
National Highway Traffic Safety Administration	16.9	21.4	25.8	31.6	25.3	39.7	33.2	36.4	41.6	50.4	58.7
Office of the Secretary	6.8	4.3	4.1	4.5	5.4	3.9	2.8	3.5	3.4	9.6	4.5
Research & Special Programs Administration	2.4	2.4	2.5	1.3	5.3	5.0	7.7	8.7	6.3	9.7	7.5
Dept of the Treasury, total	25.7	31.0	24.8	16.8	19.1	61.5	60.2	59.8	65.2	72.2	86.4
Bureau of Engraving & Printing	2.1	3.5	2.0	3.2	1.7	1.8	1.7	1.7	2.8	2.4	2.4
Financial Crimes Enforcement Network	.0	2.3	1.2	1.5	.0	.0	.0	.0	.0	.0	.0
Internal Revenue Service	16.8	17.9	17.9	6.5	11.3	49.7	51.2	50.8	52.0	58.8	73.7
Off of Thrift Supervision	.0	3.0	.8	.7	.5	.6	.5	.6	.7	.8	.9
US Customs Service	6.3	3.8	2.3	4.1	4.6	8.6	6.3	6.3	9.2	9.0	8.4
United States Mint	.1	.1	.0	.1	.5	.3	.0	-	.1	.7	.5
United States Secret Service	.5	.4	.6	.6	.5	.6	.5	.4	.5	.5	.6
Department of Veterans Affairs	241.0	220.0	229.6	239.5	259.7	245.1	259.9	284.0	277.5	320.8	317.0
Other agencies:											
Advisory Commission on Intergovernmental Relations	1.5	1.7	1.7	2.1	1.4	1.4	NA	NA	NA	NA	NA
Appalachian Regional Comm	.4	.7	1.9	.9	.9	.9	.9	.9	.7	.7	.8
Consumer Product Safety Comm	1.1	1.3	1.1	1.2	.3	.4	-	.1	.0	.1	1.3
Environmental Protection Agcy	419.7	432.6	483.9	497.8	558.3	556.3	464.3	517.2	637.2	661.9	644.9
Fed Communications Commission	1.3	1.4	1.6	1.6	1.7	2.3	2.8	3.1	3.0	4.2	2.7
Federal Trade Commission	.5	1.0	1.3	.9	.7	.6	.5	.7	1.1	1.1	1.4
General Services Admin	19.5	22.6	6.5	1.0	.3	5.1	.1	-	.0	-	.0
International Development Cooperation Agency, total	334.6	377.7	365.9	382.2	254.3	302.5	223.0	206.4	212.0	209.3	194.1
Agcy for International Development[3]	334.6	377.7	365.9	382.2	254.3	302.5	223.0	206.4	212.0	209.3	194.1
Library of Congress	8.4	9.0	10.3	10.5	10.0	10.2	10.6	2.4	1.5	2.1	1.8
Nat'l Aero & Space Admin	7,060.3	8,003.8	8,475.4	8,769.2	8,811.5	9,639.7	8,987.5	9,661.1	9,918.0	9,669.4	9,695.2
Nat'l Archives & Records Admin	.4	.7	.7	.3	.3	.1	.1	.1	.1	.1	.1
National Science Foundation	1,728.8	1,944.8	1,970.0	2,012.3	2,212.2	2,438.9	2,375.5	2,452.3	2,473.7	2,714.0	2,889.5
Nuclear Regulatory Commission	108.8	108.8	119.0	119.8	90.7	88.2	70.9	62.1	51.7	49.2	46.6
Office of Thrift Supervision	4.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Smithsonian Institution	88.8	99.5	101.8	107.0	129.2	129.0	132.0	134.0	123.0	126.0	133.0
Social Security Admin	NA	NA	NA	NA	NA	NA	11.5	13.6	17.4	53.7	36.9
Tennessee Valley Authority	69.8	73.1	100.5	109.6	97.9	93.1	6.1	8.9	2.7	.0	.0

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

Table C-95a. Federal obligations for research and development and for R&D plant, by agency: fiscal years 1990-2000

[Dollars in millions]

Agency and subdivision	1990	1991	1992	1993	1994	1995	1996	1997	1998	Preliminary	
										1999	2000
United States Arms Control & Disarmament Agency[2]	0.2	0.4	2.1	1.5	1.3	1.1	0.7	1.2	1.2	0.1	.0
US Information Agency	.5	.1	.0	1.1	.6	.3	.1	.2	.3	.1	0.1
US Internat'l Trade Comm	9.1	9.9	12.3	12.2	9.4	12.2	3.2	5.7	7.2	6.9	7.1

1 Data for fiscal years 1998-2000 from the Substance Abuse & Mental Health Services Administration (SAMHSA) are estimates based on SAMHSA's obligations by program activity budget and previously reported funding for development.

2 Effective April 1, 1999, all functions and authorities of the United States Arms Control & Disarmament Agency were transferred to the Department of State.

3 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 (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-96). More accurate data for AID will be reported in future volumes of this survey.

NOTES: Because of rounding, detail may not add to totals.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: - = Amount less than 50 thousand dollars
NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-96. Federal obligations for research and development, by agency: fiscal years 1979-1989

[Dollars in millions]

Agency and subdivision	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total, all agencies	28,145.1	29,830.4	33,103.9	36,432.6	38,711.5	42,224.9	48,359.6	51,412.4	55,253.7	56,769.4	61,406.5
Departments:											
Dept of Agriculture, total	663.0	687.6	774.0	797.3	847.6	866.2	943.0	928.5	947.9	1,016.6	1,038.3
Agricultural Cooperative Svc	NA	1.6	1.7	1.7	2.1	2.2	2.9	2.6	2.7	2.7	2.8
Agricultural Marketing Svc	1.0	1.3	1.1	1.2	1.4	1.5	1.7	1.6	1.5	1.6	1.5
Agricultural Research Svc	NA	NA	394.1	404.9	443.4	451.3	469.7	463.4	478.6	505.7	523.5
Animal & Plant Health Inspection Service	.0	.0	.0	.0	.0	.0	.0	4.2	4.9	5.6	7.4
Cooperative State Research, Ed, & Extension Service	NA	NA	199.4	219.0	232.3	235.7	284.3	269.0	270.7	298.4	307.3
Economic Research Service	NA	NA	39.3	39.3	38.8	43.7	46.4	44.6	44.8	48.1	49.5
Economics, Stat, & Coop Svc	35.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Economics & Statistics Svc	NA	31.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Forest Service	107.5	111.5	126.1	112.1	107.7	108.4	113.1	113.3	126.7	135.5	131.4
Grain Inspection Packers & Stockyards Administration	.0	.0	.0	.0	.0	.0	.9	1.0	1.2	1.0	1.1
Human Nutrition Info Svc	NA	NA	.0	8.5	8.2	6.0	6.7	12.8	6.8	8.2	8.4
Nat'l Agri Statistics Svc	NA	NA	7.5	7.0	7.6	8.2	8.4	8.0	3.4	3.6	2.9
Office of International Cooperation & Development	.0	5.3	3.9	2.6	5.3	8.2	7.7	7.0	5.6	5.0	2.5
Office of Transportation	.7	.8	.9	.9	.8	1.0	1.2	1.0	1.1	1.1	NA
Science & Ed Admin, total	518.4	536.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
Agricultural Research Svc	345.8	351.8	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cooperative State Rsch Svc	172.6	184.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Department of Commerce, total	309.4	342.5	327.9	336.3	335.0	358.2	398.8	399.2	402.2	388.9	397.9
Bureau of the Census	3.1	3.2	3.9	3.8	4.3	4.4	4.9	4.7	4.7	5.7	4.9
Economic Development Admin	43.1	32.3	28.1	9.6	5.3	5.1	13.0	10.3	5.0	4.2	1.0
Maritime Administration	19.6	19.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
National Institute of Standards & Technology	67.8	76.2	82.5	88.8	95.0	95.5	100.5	100.8	98.6	107.9	115.5
National Oceanic & Atmospheric Administration	171.2	199.8	201.4	222.0	222.0	244.3	269.8	274.7	286.1	263.0	268.6
National Telecommunications & Information Administration	4.1	10.7	10.9	11.3	8.3	8.7	9.1	8.4	7.8	8.1	7.8
Office of the Secretary	.1	.6	.0	-	-	.1	1.4	.3	-	.0	.0
Patent & Trademark Office	.5	.5	1.1	.7	.0	.0	.0	.0	.0	.0	.0
Department of Defense, total	12,506.2	13,981.0	16,508.6	20,622.6	22,992.8	25,372.9	29,791.5	32,937.9	35,231.5	35,248.9	37,576.9
Department of the Air Force	4,525.6	5,211.0	6,969.2	9,357.9	10,812.6	12,091.6	13,260.9	13,593.8	15,347.7	14,867.3	15,237.4
Department of the Army	2,768.7	2,980.0	3,244.2	3,760.5	3,998.1	4,225.5	4,570.8	4,809.4	5,019.5	4,806.0	5,659.3
Department of the Navy	4,335.0	4,706.1	5,006.0	5,845.1	6,068.2	7,605.6	9,127.4	9,650.3	9,507.8	9,514.1	9,666.1
Defense Agencies	847.6	1,046.0	1,248.2	1,618.1	2,052.3	1,391.5	2,781.7	4,767.4	5,219.7	5,832.9	6,858.9
Operational Test & Evaluation, Director	NA	NA	NA	NA	NA	NA	NA	.0	8.4	68.2	14.4
Test & Evaluation, Deputy Under Secretary of Defense	29.3	37.9	41.1	41.0	61.6	58.6	50.6	117.1	128.5	160.3	140.7
Department of Education	166.3	139.4	104.9	128.0	111.7	115.7	124.9	121.3	132.5	140.7	159.1
Department of Energy	4,638.8	4,753.7	4,918.2	4,708.2	4,536.7	4,673.6	4,966.0	4,688.3	4,757.2	5,036.4	5,192.6

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

Table C-96. Federal obligations for research and development, by agency: fiscal years 1979-1989

[Dollars in millions]

Agency and subdivision	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Department of Health & Human Services, total	3,504.9	3,780.2	3,927.1	3,940.7	4,352.5	4,830.7	5,451.0	5,657.6	6,606.3	7,158.0	7,902.8
Alcohol, Drug Abuse, & Mental Health Administration	214.3	233.5	239.4	248.1	302.2	337.2	377.6	396.1	475.5	554.8	695.7
Centers for Disease Control & Prevention	76.3	87.3	74.8	75.0	78.2	46.3	47.6	52.2	66.2	88.7	117.8
Food & Drug Administration	61.0	75.4	71.4	73.0	74.2	77.8	82.1	79.4	85.0	91.0	99.0
Health Care Financing Admin	31.8	45.7	38.6	29.1	30.2	33.1	33.5	29.0	27.3	28.2	49.1
Health Resources Admin	4.9	5.1	5.0	NA	NA	NA	NA	NA	NA	NA	NA
Hlth Resources & Svcs Admin	NA	NA	NA	10.1	13.3	18.5	19.7	12.3	9.3	10.0	10.5
Health Services Admin	28.7	26.7	20.3	NA	NA	NA	NA	NA	NA	NA	NA
Human Development Services	57.1	49.3	73.7	27.2	23.4	18.3	24.3	54.6	53.0	54.0	101.7
National Insts of Health	2,953.1	3,181.8	3,333.2	3,433.1	3,789.2	4,257.4	4,827.7	5,005.1	5,850.9	6,290.9	6,778.3
Office of the Assistant Secretary for Health	34.6	29.9	33.1	16.1	16.6	18.1	18.6	17.3	21.2	21.0	27.2
Office of the Secretary	24.7	24.0	19.5	13.4	14.4	10.4	9.6	6.1	8.2	4.7	7.8
Social Security Admin	18.3	21.4	18.0	15.5	10.8	13.5	10.4	5.6	9.8	14.7	15.8
Dept of Housing & Urban Dvlpmt	67.9	56.0	48.1	28.9	32.1	18.2	18.5	15.3	16.3	18.4	18.0
Dept of the Interior, total	405.8	411.3	427.1	381.1	382.5	410.9	391.7	385.2	403.8	416.8	469.0
Bonneville Power Admin	.0	.0	14.2	NA	NA	NA	NA	NA	NA	NA	NA
Bureau of Land Management	1.3	1.7	1.9	5.3	3.9	3.8	4.4	3.4	3.7	3.7	3.0
Bureau of Mines	121.0	113.4	96.7	94.7	88.5	108.8	89.9	84.4	88.8	91.3	98.7
Bureau of Reclamation	12.2	14.1	14.3	10.1	10.0	10.4	13.2	10.2	10.7	4.4	4.2
Geological Survey	145.6	146.3	169.8	152.6	157.0	208.9	214.9	218.6	226.8	236.1	279.9
Minerals Management Service	NA	NA	NA	.0	1.5	1.5	1.4	1.1	1.0	1.2	2.2
National Park Service	8.9	8.2	10.4	11.2	13.7	14.0	15.0	17.3	18.5	19.4	19.4
Office of the Secretary	1.4	2.2	1.5	.5	7.4	.1	1.9	1.0	.0	.4	.4
Office of Surface Mining Reclamation & Enforcement	5.0	7.5	5.8	1.5	1.5	.8	2.0	2.3	1.0	1.0	.7
Office of Water Rsch & Tech	27.2	29.3	21.1	11.4	2.2	3.6	NA	NA	NA	NA	NA
US Fish & Wildlife Service	83.1	88.6	91.5	93.9	96.7	59.1	49.0	47.0	53.3	59.2	60.6
Department of Justice, total	43.0	41.5	26.5	26.7	31.4	24.5	36.0	36.5	42.4	43.1	38.2
Bureau of Prisons	3.4	2.1	2.5	1.7	1.7	1.6	1.5	3.0	7.1	6.0	5.1
Drug Enforcement Admin	2.4	2.7	1.3	3.2	2.5	1.9	1.6	2.5	2.2	2.5	2.7
Fed Bureau of Investigation	3.1	1.4	.7	2.7	2.5	1.0	9.5	7.2	8.0	12.7	7.7
Immigration & Naturalization Service	.2	.3	.1	.6	.6	.6	.4	.4	.4	.3	.1
Office of Justice Programs	32.2	33.2	21.0	18.0	23.8	19.5	22.7	23.2	24.6	21.5	22.5
Office of Legal Policy	1.7	1.8	.8	.4	.3	.0	.3	.2	.1	.0	.0
Department of Labor, total	137.0	138.1	62.2	25.4	19.9	16.3	13.3	10.4	21.6	35.6	35.4
Bureau of Labor Statistics	.9	.9	.3	.3	.7	.5	.6	.6	6.5	7.0	7.0
Employment Standards Admin	5.3	4.9	3.2	1.4	1.4	.9	-	.0	1.0	.1	.1
Employment & Training Admin	120.8	121.7	52.4	16.1	9.0	6.1	3.5	3.5	5.7	14.9	15.7
Labor-Management Relations & Cooperative Programs	NA	NA	NA	NA	NA	.3	.3	.2	.3	.4	.3
Labor-Management Services Administration	3.2	2.8	1.8	.7	.9	NA	NA	NA	NA	NA	NA
Occupational Safety & Health Administration	5.1	6.3	3.0	4.9	5.3	5.1	4.5	3.6	4.1	4.2	4.5
Office of the Secretary	1.6	1.4	1.1	.9	1.5	1.9	2.6	2.1	2.7	6.1	6.1
Pension Benefit Guaranty Corp	NA	NA	.5	1.1	1.1	.3	.2	.1	.3	.3	.3
Pension & Welfare Benefits Administration	NA	NA	NA	NA	NA	1.2	1.6	.3	1.0	2.7	1.4
Department of State, total	3.2	2.2	1.8	1.5	1.5	1.6	1.5	1.5	3.0	4.2	4.7
Departmental Funds	3.2	2.2	1.8	.0	.0	.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: fiscal years 1979-1989

[Dollars in millions]

Agency and subdivision	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Dept of Transportation, total	370.1	361.2	415.5	310.1	347.7	448.3	428.9	385.5	325.0	304.6	303.3
Coast Guard	21.1	18.0	26.3	20.0	19.6	19.5	19.0	16.9	17.0	21.1	17.9
Federal Aviation Admin	110.5	103.1	120.0	94.3	126.2	266.2	286.3	260.6	167.3	160.5	146.8
Federal Highway Admin	52.9	51.1	51.2	40.3	50.4	46.4	49.0	45.5	76.7	74.1	91.0
Federal Railroad Admin	44.2	46.2	36.6	18.2	16.5	19.2	15.0	15.4	11.2	10.0	9.0
Federal Transit Admin	58.0	54.4	78.2	61.4	57.0	20.1	10.2	8.2	12.6	2.3	1.4
Maritime Administration	NA	NA	14.2	11.1	15.0	9.9	13.9	9.4	5.8	.5	.0
National Highway Traffic Safety Administration	56.6	63.6	65.9	55.4	52.0	56.9	28.1	22.4	27.9	28.3	29.7
Office of the Secretary	11.7	10.8	10.1	3.3	4.9	4.9	4.8	5.1	4.5	5.7	5.5
Research & Special Programs Administration	15.0	14.0	13.1	6.1	6.2	5.2	2.7	2.0	2.1	2.1	2.0
Dept of the Treasury, total	9.5	12.0	11.3	13.3	15.6	13.9	24.3	24.0	26.9	26.1	25.6
Bureau of Alcohol, Tobacco, & Firearms	2.5	1.6	.3	NA	NA	NA	NA	NA	NA	NA	NA
Bureau of Engraving & Printing	2.1	2.3	2.7	4.8	3.9	3.6	5.0	4.2	4.5	2.0	1.7
Internal Revenue Service	3.6	4.0	4.2	5.4	8.0	8.2	15.9	14.2	14.6	14.4	14.4
US Customs Service	1.3	3.8	3.5	3.1	3.3	1.8	2.2	4.8	7.0	9.2	6.8
United States Mint	.0	.0	.0	.0	.0	.0	.6	.3	.2	.1	2.0
United States Secret Service	NA	.4	.6	.0	.3	.2	.6	.4	.5	.4	.6
Department of Veterans Affairs	127.0	133.4	144.4	137.3	161.4	190.3	226.6	186.2	209.5	215.3	234.7
Other agencies:											
ACTION	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Advisory Commission on Intergovernmental Relations	1.7	2.2	2.2	2.0	2.1	2.1	2.4	2.1	1.9	1.8	1.1
Appalachian Regional Comm	.9	.8	.4	.4	.2	.5	.2	.2	.1	.2	.8
Community Services Admin	20.7	30.3	18.3	NA	NA	NA	NA	NA	NA	NA	NA
Consumer Product Safety Comm	3.9	3.5	.5	.2	.5	1.3	2.4	2.0	2.2	1.1	1.3
Environmental Protection Agcy	410.1	345.0	325.7	335.1	240.7	261.2	320.4	317.3	348.2	347.4	380.3
Fed Communications Commission	2.9	3.4	1.8	1.2	1.3	.9	1.2	.9	1.0	1.2	1.1
Federal Emergency Management Agency, total	12.6	11.8	11.6	9.2	3.3	11.5	4.1	.0	.0	.0	.0
Federal Trade Commission	1.5	3.0	1.1	1.2	1.4	1.6	1.7	1.8	.5	.4	.4
General Services Admin	.5	.2	.6	1.0	.5	2.4	.4	1.2	1.6	2.3	.5
International Development Cooperation Agency, total	106.5	149.3	134.2	199.9	227.3	237.2	220.4	251.2	217.5	204.4	279.1
Agcy for Internat'l Dvlpmt	106.5	149.3	134.2	199.9	227.3	237.2	220.4	251.2	217.5	204.4	279.1
Interstate Commerce Commission	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
Library of Congress	5.9	6.9	4.9	5.7	7.4	7.5	7.1	6.6	6.5	7.1	8.0
Nat'l Aero & Space Admin	3,578.4	3,234.1	3,593.2	3,077.9	2,661.6	2,821.9	3,327.2	3,419.8	3,787.1	4,330.4	5,393.5
Nat'l Archives & Records Administration	NA	NA	NA	NA	NA	NA	.5	1.0	1.1	.7	.3
National Science Foundation	807.9	881.8	961.6	975.3	1,062.0	1,202.8	1,345.6	1,353.3	1,470.5	1,532.8	1,670.4
Nuclear Regulatory Commission	148.8	182.7	219.7	220.3	207.3	190.7	150.0	123.8	122.5	108.5	114.8
Office of Personnel Management	6.0	6.8	8.4	.0	.0	.0	.0	.0	.0	.0	.0
Office of Thrift Supervision	.9	1.2	1.0	2.7	3.0	2.6	2.8	3.3	3.4	3.4	4.1
Smithsonian Institution	36.9	41.0	44.9	52.4	56.0	63.6	71.1	63.3	71.5	75.1	80.2
Tennessee Valley Authority	38.4	80.1	68.9	85.0	63.0	68.1	79.5	77.5	77.9	87.3	62.6
United States Arms Control & Disarmament Agency	3.5	3.8	2.4	1.9	1.0	1.3	1.1	.9	3.6	3.4	2.8
US Information Agency	.1	.1	1.5	.1	-	1.4	.1	2.0	3.5	.4	.1
US Internat'l Trade Comm	3.4	2.1	3.4	3.8	4.7	5.0	5.8	6.9	7.2	8.1	8.7

NOTES: Because of rounding, detail may not add to totals.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For notes associated with the agencies listed in this table, refer to appendix B.

KEY: - = Amount less than 50 thousand dollars
NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-96a. Federal obligations for research and development, by agency: fiscal years 1990-2000

[Dollars in millions]

Agency and subdivision	1990	1991	1992	1993	1994	1995	1996	1997	1998	Preliminary 1999	Preliminary 2000
Total, all agencies	63,559.5	61,295.2	65,592.6	67,314.0	67,235.4	68,186.8	67,653.0	69,826.8	71,903.3	75,351.3	75,104.3
Departments:											
Dept of Agriculture, total	1,108.4	1,236.6	1,327.1	1,327.8	1,399.9	1,380.2	1,300.3	1,388.6	1,441.0	1,637.2	1,597.7
Agricultural Cooperative Svc	2.7	2.8	3.4	2.9	3.7	NA	NA	NA	NA	NA	NA
Agricultural Marketing Svc	2.7	4.2	4.7	4.7	4.8	4.8	4.9	4.8	4.7	4.7	5.0
Agricultural Research Svc	545.5	591.0	627.1	627.2	678.7	683.3	675.2	687.6	757.9	832.9	855.9
Animal & Plant Health Inspection Service	8.0	15.7	16.7	17.1	19.2	19.1	18.0	19.8	20.5	20.0	20.0
Cooperative State Research, Ed, & Extension Service	324.2	376.8	418.2	418.6	429.0	417.7	362.4	433.5	386.4	506.2	451.0
Economic Research Service	50.5	54.4	58.9	58.9	55.2	53.8	53.0	53.0	71.5	65.0	55.6
Food Safety Inspection Svc	.0	.0	.0	.0	.0	.0	-	-	.2	.2	.2
Foreign Agricultural Svc	.0	.0	.0	.0	1.1	.9	1.3	1.4	1.4	1.4	1.4
Forest Service	158.6	174.7	180.7	182.7	193.1	193.5	177.9	179.8	187.8	197.4	197.4
Grain Inspection Packers & Stockyards Administration	.6	.7	1.5	1.8	1.8	1.5	2.5	2.8	2.7	2.7	3.4
Human Nutrition Info Svc	9.0	9.9	10.7	8.4	7.0	NA	NA	NA	NA	NA	NA
Nat'l Agri Statistics Svc	2.8	3.2	3.6	3.9	3.9	4.0	3.8	3.4	3.3	3.2	3.2
Office of International Cooperation & Development	3.6	3.1	1.5	1.5	.0	NA	NA	NA	NA	NA	NA
Rural Business-Coop Svc	NA	NA	NA	NA	2.4	1.6	1.4	2.5	4.4	3.5	4.5
Department of Commerce, total	438.2	489.6	651.2	656.3	826.1	1,136.0	1,067.5	1,003.1	948.6	1,044.6	1,026.0
Bureau of the Census	6.9	6.6	5.3	5.4	4.8	4.9	6.3	5.1	8.6	16.3	8.3
Economic Development Admin	1.2	1.4	.5	.0	.6	.5	.6	.6	.6	.6	.6
National Institute of Standards & Technology	122.3	140.0	179.0	207.2	253.2	563.3	516.5	460.4	394.4	444.2	459.2
National Oceanic & Atmospheric Administration	300.1	338.0	462.4	439.5	562.6	560.9	528.5	509.3	519.5	559.4	531.7
National Telecommunications & Information Administration	7.7	3.6	4.0	4.2	4.8	6.4	15.7	27.8	25.5	24.2	26.3
Office of the Secretary	.0	.0	.0	.0	.0	-	-	.0	.0	.0	.0
Department of Defense, total	37,268.1	32,134.8	36,129.5	35,849.1	34,553.2	33,796.3	34,535.4	34,788.3	35,286.2	35,636.9	34,441.2
Department of the Air Force	14,831.4	10,937.5	13,427.1	12,635.3	12,527.4	11,797.9	13,042.1	13,951.5	13,839.1	13,523.7	14,360.2
Department of the Army	5,684.1	6,081.5	6,854.2	6,209.1	5,574.1	5,419.3	4,873.6	4,821.1	5,037.7	5,181.2	4,501.1
Department of the Navy	9,586.2	7,806.0	8,030.8	9,102.9	8,929.0	8,963.3	8,606.4	8,215.5	8,156.3	8,704.9	8,214.6
Defense Agencies	6,945.2	7,072.5	7,571.7	7,647.0	7,279.7	7,363.2	7,733.8	7,503.8	7,980.8	7,958.7	7,086.8
Operational Test & Evaluation, Director	32.6	13.6	12.4	12.3	11.2	21.7	21.9	26.6	30.3	31.8	25.4
Test & Evaluation, Deputy Under Secretary of Defense	188.7	223.7	233.2	242.5	231.8	231.0	257.7	269.7	242.0	236.6	253.1
Department of Education	169.9	171.0	168.5	177.7	176.6	177.6	173.7	181.2	204.5	221.8	272.1
Department of Energy	5,630.6	5,983.1	6,172.2	6,262.1	6,048.0	6,145.0	5,344.9	5,603.5	5,873.8	6,499.2	6,518.2

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

Table C-96a. Federal obligations for research and development, by agency: fiscal years 1990-2000

[Dollars in millions]

Agency and subdivision	1990	1991	1992	1993	1994	1995	1996	1997	1998	Preliminary	
										1999	2000
Department of Health & Human Services, total	8,405.6	9,756.0	8,987.8	10,349.2	11,021.5	11,455.2	11,951.1	12,785.3	13,704.2	15,629.4	16,147.5
Administration on Aging	NA	20.6	20.2	20.9	19.1	20.7	3.7	4.4	10.4	18.4	18.4
Administration for Children & Families	NA	129.0	39.2	19.9	11.3	12.0	12.6	17.4	23.5	18.8	28.0
Agency for Health Care Policy & Research	49.7	101.1	106.3	114.8	154.4	135.3	125.2	144.0	146.5	171.0	206.3
Alcohol, Drug Abuse, & Mental Health Administration	842.7	1,460.6	NA	NA	NA	NA	NA	NA	NA	NA	NA
Centers for Disease Control & Prevention	95.6	113.4	146.9	162.5	206.8	317.4	296.7	323.0	343.6	382.6	468.6
Food & Drug Administration	99.0	125.0	135.7	154.5	169.4	170.5	170.8	158.6	142.9	141.2	151.7
Health Care Financing Admin	49.1	69.1	75.5	68.2	80.0	74.5	52.7	43.6	51.2	50.0	55.0
Hlth Resources & Svcs Admin	11.9	11.0	10.1	9.6	16.4	13.2	11.1	13.1	12.9	13.0	13.1
Human Development Services	95.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
National Insts of Health	7,136.5	7,695.5	8,409.2	9,765.1	10,329.4	10,681.8	11,251.0	11,993.0	12,880.2	14,740.7	15,107.9
Office of the Assistant Secretary for Health	6.9	10.0	6.7	1.2	.8	.3	NA	NA	NA	NA	NA
Off of the Secretary, total	5.0	8.8	5.0	8.0	11.7	9.1	10.7	19.0	17.0	17.7	18.5
Office of the Assistant Sec, Planning & Eval	NA	NA	NA	NA	NA	NA	9.0	18.4	13.9	14.0	14.0
Office of Public Health & Science	NA	NA	NA	NA	NA	NA	1.7	.6	3.1	3.7	4.5
Social Security Admin	13.9	11.9	33.0	24.5	22.2	20.4	NA	NA	NA	NA	NA
Substance Abuse & Mental Health Services Admin[1]	NA	NA	NA	NA	NA	NA	16.7	69.1	76.0	76.0	80.0
Dept of Housing & Urban Dvlpmt	19.3	27.8	25.1	23.6	39.6	41.8	33.1	33.5	28.0	59.4	50.6
Dept of the Interior, total	508.5	592.9	609.2	619.1	694.1	561.6	567.5	579.9	532.0	564.1	584.6
Bureau of Land Management	2.8	8.8	6.3	8.9	.0	.0	.0	.0	.0	.0	.0
Bureau of Mines	99.3	106.1	107.1	111.9	107.9	.0	NA	NA	NA	NA	NA
Bureau of Reclamation	5.8	8.7	13.2	10.3	7.4	8.0	6.5	7.1	8.8	8.1	9.9
Geological Survey	308.4	356.6	361.4	356.7	371.1	362.0	518.9	526.3	464.1	497.2	514.3
Minerals Management Service	1.9	2.7	3.8	5.8	20.6	20.0	21.9	20.6	29.3	29.1	28.6
Nat'l Biological Svc	NA	NA	NA	.0	162.8	151.8	NA	NA	NA	NA	NA
National Park Service	20.1	27.5	31.1	38.1	24.2	19.7	20.2	26.0	29.7	29.7	31.8
Office of the Secretary	.2	.6	.9	.4	.1	-	.0	.0	.0	.0	.0
Office of Surface Mining Reclamation & Enforcement	.7	1.0	.3	.5	.0	.0	.0	.0	.0	.0	.0
US Fish & Wildlife Service	69.4	81.0	85.1	86.5	.0	.0	.0	.0	.0	.0	.0
Department of Justice, total	40.5	48.9	48.0	48.9	45.0	57.9	77.3	84.7	100.6	110.2	81.8
Bureau of Prisons	4.5	5.2	5.9	6.1	5.4	5.7	5.2	4.6	8.1	7.8	8.0
Drug Enforcement Admin	2.4	2.7	1.4	.9	.9	.4	1.2	-	.0	.0	.0
Fed Bureau of Investigation	8.2	10.8	10.9	11.3	7.0	10.9	33.5	35.5	35.8	36.2	36.2
Immigration & Naturalization Service	.4	.4	.4	.4	.4	.4	.2	.4	.0	.5	.5
Office of Justice Programs	25.0	29.8	29.4	30.2	31.4	40.5	37.2	44.2	56.7	65.7	37.1
Department of Labor, total	73.0	44.0	51.7	55.0	59.7	55.4	52.4	35.1	27.8	26.7	25.9
Bureau of Labor Statistics	7.3	7.5	7.6	6.9	7.1	14.8	13.3	12.6	12.4	12.4	12.4
Employment Standards Admin	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Employment & Training Admin	53.4	22.1	31.7	35.9	40.0	25.6	26.9	14.1	7.2	6.6	4.4
Occupational Safety & Health Administration	2.5	2.6	3.1	2.5	3.3	4.4	6.6	5.5	4.6	5.0	5.3
Office of the Secretary	7.1	8.7	5.9	5.8	5.3	6.3	2.6	.2	.2	.2	.2
Pension Benefit Guaranty Corp	.5	.5	.9	1.3	1.3	.8	.7	.7	.6	.7	.7
Pension & Welfare Benefits Administration	2.1	2.5	2.6	2.6	2.7	3.6	2.3	2.0	2.7	1.8	3.0
Department of State[2]	4.7	5.9	5.6	5.3	.4	.5	.9	1.0	.9	1.0	1.0

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

Table C-96a. Federal obligations for research and development, by agency: fiscal years 1990-2000

[Dollars in millions]

Agency and subdivision	1990	1991	1992	1993	1994	1995	1996	1997	1998	Preliminary 1999	Preliminary 2000
Dept of Transportation, total	366.6	379.9	445.0	545.3	620.7	727.0	552.5	526.9	566.1	702.1	929.8
Coast Guard	20.2	25.5	20.1	32.9	22.3	19.7	20.0	22.9	20.4	18.0	22.7
Federal Aviation Admin	216.1	220.1	236.2	248.9	285.6	288.4	208.3	209.1	228.0	211.3	233.7
Federal Highway Admin	91.5	86.9	130.2	174.9	235.7	312.5	240.0	210.3	227.3	355.6	559.7
Federal Railroad Admin	10.2	15.9	22.7	25.2	19.5	26.5	26.7	18.9	21.5	25.4	23.9
Federal Transit Admin	1.6	1.7	1.7	24.3	19.9	28.7	13.7	17.0	17.6	22.2	19.2
Maritime Administration	.9	1.7	1.8	1.7	1.7	2.5	.0	.0	.0	.0	.0
National Highway Traffic Safety Administration	16.9	21.4	25.8	31.6	25.3	39.7	33.2	36.4	41.6	50.4	58.7
Office of the Secretary	6.8	4.3	4.1	4.5	5.4	3.9	2.8	3.5	3.4	9.6	4.5
Research & Special Programs Administration	2.4	2.4	2.5	1.3	5.3	5.0	7.7	8.7	6.3	9.7	7.5
Dept of the Treasury, total	25.6	30.8	24.6	16.6	19.0	61.4	60.0	59.7	65.1	72.0	86.3
Bureau of Engraving & Printing	2.1	3.5	2.0	3.2	1.7	1.8	1.7	1.7	2.8	2.4	2.4
Financial Crimes Enforcement Network	.0	2.3	1.2	1.5	.0	.0	.0	.0	.0	.0	.0
Internal Revenue Service	16.8	17.9	17.9	6.5	11.3	49.7	51.2	50.8	52.0	58.8	73.7
Off of Thrift Supervision	.0	3.0	.8	.7	.5	.6	.5	.6	.7	.8	.9
US Customs Service	6.2	3.7	2.2	4.0	4.5	8.5	6.2	6.1	9.0	8.8	8.3
United States Mint	.1	.1	.0	.1	.5	.3	.0	-	.1	.7	.5
United States Secret Service	.5	.4	.5	.6	.5	.5	.5	.4	.5	.5	.6
Department of Veterans Affairs	237.7	216.6	223.9	236.2	248.0	237.9	256.1	252.7	277.1	320.5	316.0
Other agencies:											
Advisory Commission on Intergovernmental Relations	1.5	1.7	1.7	2.1	1.4	1.4	NA	NA	NA	NA	NA
Appalachian Regional Comm	.4	.7	1.9	.9	.9	.9	.9	.9	.7	.7	.8
Consumer Product Safety Comm	1.1	1.3	1.1	1.2	.3	.4	-	.1	.0	.1	1.3
Environmental Protection Agcy	419.7	432.6	483.9	495.3	553.5	551.5	464.3	492.2	571.2	555.9	534.9
Fed Communications Commission	1.3	1.4	1.6	1.6	1.7	2.3	2.8	3.1	3.0	4.2	2.7
Federal Trade Commission	.5	1.0	1.3	.9	.7	.6	.5	.7	1.1	1.1	1.4
General Services Admin	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
International Development Cooperation Agency, total	334.6	377.7	365.9	382.2	254.3	302.5	223.0	206.4	212.0	209.3	194.1
Agcy for International Development[3]	334.6	377.7	365.9	382.2	254.3	302.5	223.0	206.4	212.0	209.3	194.1
Library of Congress	8.4	9.0	10.3	10.5	10.0	10.2	10.6	2.4	1.5	2.1	1.8
Nat'l Aero & Space Admin	6,533.2	7,280.2	7,657.6	8,019.9	8,296.2	9,014.9	8,570.1	9,327.3	9,568.0	9,308.0	9,370.3
Nat'l Archives & Records Admin	.4	.7	.7	.3	.3	.1	.1	.1	.1	.1	.1
National Science Foundation	1,689.5	1,785.2	1,868.4	1,881.9	2,040.4	2,149.3	2,188.3	2,248.5	2,289.3	2,512.9	2,698.3
Nuclear Regulatory Commission	108.8	108.8	119.0	119.8	90.7	88.2	70.9	62.1	51.7	49.2	46.6
Office of Thrift Supervision	4.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Smithsonian Institution	84.0	98.0	98.0	102.0	124.2	124.0	127.0	130.0	120.0	122.0	129.0
Social Security Admin	NA	NA	NA	NA	NA	NA	11.5	13.6	17.4	53.7	36.9
Tennessee Valley Authority	64.9	68.3	97.3	108.6	97.9	93.1	6.1	8.9	2.7	.0	.0

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

Table C-96a. Federal obligations for research and development, by agency: fiscal years 1990-2000

[Dollars in millions]

Agency and subdivision	1990	1991	1992	1993	1994	1995	1996	1997	1998	Preliminary	
										1999	2000
United States Arms Control & Disarmament Agency[2]	0.2	0.4	2.1	1.5	1.3	1.1	0.7	1.2	1.2	0.1	.0
US Information Agency	.5	.1	.0	1.1	.6	.3	.1	.2	.3	.1	0.1
US Internat'l Trade Comm	9.1	9.9	12.3	12.2	9.4	12.2	3.2	5.7	7.2	6.9	7.1

1 Data for fiscal years 1998-2000 from the Substance Abuse & Mental Health Services Administration (SAMHSA) are estimates based on SAMHSA's obligations by program activity budget and previously reported funding for development.

2 Effective April 1, 1999, all functions and authorities of the United States Arms Control & Disarmament Agency were transferred to the Department of State.

3 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 (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-96). More accurate data for AID will be reported in future volumes of this survey.

NOTES: Because of rounding, detail may not add to totals.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: - = Amount less than 50 thousand dollars
NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-97. Federal obligations for R&D plant, by agency: fiscal years 1979-1989

[Dollars in millions]

Agency and subdivision	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total, all agencies	1,475.5	1,555.7	1,485.7	1,389.8	1,297.5	1,787.3	1,820.8	1,538.8	1,846.0	2,057.1	2,165.1
Departments:											
Dept of Agriculture, total	22.6	56.9	20.8	21.5	33.9	39.2	40.6	79.4	111.8	135.2	89.2
Agricultural Research Svc	NA	NA	17.6	21.1	23.4	28.8	29.0	69.2	43.9	55.5	55.2
Animal & Plant Health Inspection Service	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.3
Cooperative State Research, Ed, & Extension Service	NA	NA	.0	.0	10.0	10.0	10.0	9.5	67.6	76.2	32.2
Forest Service	3.5	3.6	3.2	.4	.5	.4	1.6	.6	.3	2.9	1.6
Science & Ed Admin, total	19.1	53.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Agricultural Research Svc	19.1	53.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Department of Commerce, total	2.4	4.6	1.3	1.0	.7	9.4	4.2	9.3	5.2	11.2	9.1
Maritime Administration	.9	.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
National Institute of Standards & Technology	1.5	.3	.5	1.0	.7	9.4	4.2	7.7	2.0	10.7	8.6
National Oceanic & Atmospheric Administration	.0	3.9	.8	.0	.0	.0	.0	1.5	3.2	.5	.5
Department of Defense, total	270.2	208.2	277.7	290.5	312.5	529.2	530.9	286.1	477.2	435.8	499.3
Department of the Air Force	167.5	108.0	159.6	84.7	138.7	285.4	291.3	130.1	270.3	143.7	250.2
Department of the Army	3.8	13.8	12.8	24.7	26.3	56.2	52.9	53.9	65.8	92.8	45.1
Department of the Navy	68.1	83.2	97.9	155.9	141.7	173.4	182.1	97.6	69.0	74.9	89.6
Defense Agencies	30.8	3.2	7.4	25.2	5.8	14.2	4.6	4.5	72.1	124.4	114.4
Department of Education	.0	.0	.0	.0	.0	.0	1.1	6.6	21.0	5.2	1.9
Department of Energy	844.4	1,024.1	978.2	914.0	757.7	852.4	868.4	742.3	772.2	915.0	873.0
Department of Health & Human Services, total	53.5	30.6	23.7	24.7	47.9	31.1	42.1	37.9	36.7	19.5	78.6
Alcohol, Drug Abuse, & Mental Health Administration	.1	.0	.2	3.3	1.8	.3	.4	.5	.6	.0	.0
Food & Drug Administration	5.8	1.2	1.2	2.0	28.5	3.0	13.0	8.0	.8	.5	23.0
National Insts of Health	47.6	29.4	22.3	19.4	17.5	27.8	28.8	29.4	35.3	19.0	55.6
Dept of the Interior, total	5.0	7.5	3.5	1.3	2.4	5.2	4.2	4.3	11.8	9.4	10.8
Bonneville Power Admin	.0	.0	.3	NA	NA	NA	NA	NA	NA	NA	NA
Bureau of Mines	.3	1.0	.6	.1	.1	-	.0	.0	.0	.0	2.6
Geological Survey	.0	.0	.0	.0	1.4	1.0	.8	.8	.8	.8	1.3
Office of Surface Mining Reclamation & Enforcement	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
Office of Water Rsch & Tech	.7	.7	.8	.9	.0	.0	NA	NA	NA	NA	NA
US Fish & Wildlife Service	4.0	5.5	1.8	.3	.9	4.2	3.4	3.5	11.0	8.6	6.9
Department of Justice, total	.0	.0	.0	.0	.0	.0	.0	.0	11.1	.0	.0
Fed Bureau of Investigation	.0	.0	.0	.0	.0	.0	.0	.0	11.1	.0	.0
Dept of Transportation, total	22.6	23.3	18.9	11.9	21.9	16.9	9.0	12.1	11.2	13.9	15.5
Coast Guard	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0
Federal Aviation Admin	9.9	5.7	8.9	5.1	21.4	16.4	8.5	10.9	10.4	13.2	15.5
Federal Highway Admin	.6	7.2	-	.0	.0	.0	.0	.7	.3	.0	.0
Federal Railroad Admin	11.9	10.2	9.5	6.3	.0	.0	.0	.0	.0	.4	.0
National Highway Traffic Safety Administration	.2	.2	.5	.5	.5	.5	.5	.5	.5	.0	.0
Dept of the Treasury, total	-	-	.1	.1	.1	.1	.1	.1	.1	.1	.1
US Customs Service	-	-	.1	.1	.1	.1	.1	.1	.1	.1	.1
United States Secret Service	NA	.0	.0	.0	.0	.0	.0	.1	-	-	-
Department of Veterans Affairs	5.1	4.4	14.8	2.8	10.5	6.1	3.3	4.8	5.9	19.5	11.0

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

Table C-97. Federal obligations for R&D plant, by agency: fiscal years 1979-1989

[Dollars in millions]

Agency and subdivision	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Other agencies:											
Consumer Product Safety Comm	2.7	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0
Environmental Protection Agcy	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
General Services Admin	.0	.0	.0	.0	.0	.0	.0	18.8	.0	.0	.0
International Development Cooperation Agency, total	6.4	6.3	8.0	6.0	4.8	7.8	6.9	7.5	6.8	6.1	.0
Agcy for Internat'l Dvlpmt	6.4	6.3	8.0	6.0	4.8	7.8	6.9	7.5	6.8	6.1	.0
Nat'l Aero & Space Admin	147.5	159.1	115.8	113.7	100.8	244.2	234.3	275.0	309.4	428.2	519.5
National Science Foundation	30.2	18.7	14.6	1.5	3.2	45.2	73.6	53.2	61.3	56.9	53.6
Nuclear Regulatory Commission	8.6	7.7	7.7	.0	.0	.0	.0	.0	.0	.0	.0
Smithsonian Institution	1.0	.9	.4	.5	1.0	.2	1.6	.7	2.9	.7	3.4
Tennessee Valley Authority	50.8	.6	.4	.3	.3	.2	.5	.8	.3	.4	.2
United States Arms Control & Disarmament Agency	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0

NOTES: Because of rounding, detail may not add to totals.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For notes associated with the agencies listed in this table, refer to appendix B.

KEY: - = Amount less than 50 thousand dollars
NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-97a. Federal obligations for R&D plant, by agency: fiscal years 1990-2000

[Dollars in millions]

Agency and subdivision	1990	1991	1992	1993	1994	1995	1996	1997	1998	Preliminary	
										1999	2000
Total, all agencies	2,271.7	2,852.8	2,984.6	3,100.7	2,215.4	2,256.1	1,746.1	1,926.7	1,840.2	2,298.8	2,081.2
Departments:											
Dept of Agriculture, total	102.2	144.6	164.7	142.4	125.7	143.4	128.4	184.2	89.8	120.8	111.2
Agricultural Research Svc	44.4	64.7	98.1	78.3	78.3	67.7	67.9	118.9	86.3	115.8	106.2
Animal & Plant Health Inspection Service	6.1	.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0
Cooperative State Research, Ed, & Extension Service	46.9	61.5	63.0	60.5	42.6	71.3	56.5	63.2	.9	.0	.0
Forest Service	4.9	18.4	3.6	3.6	4.9	4.3	2.5	2.0	2.6	5.0	5.0
Department of Commerce, total	15.4	15.7	21.0	25.4	31.2	77.7	84.5	43.4	48.3	152.4	136.6
National Institute of Standards & Technology	8.8	8.5	11.2	12.6	30.9	77.2	84.5	21.8	21.4	139.0	106.8
National Oceanic & Atmospheric Administration	6.6	7.3	9.9	12.8	.3	.5	.0	21.6	26.9	13.4	29.8
Department of Defense, total	487.3	425.7	396.5	371.5	265.7	60.5	46.8	85.5	65.8	108.4	33.4
Department of the Air Force	322.2	152.3	179.7	231.6	99.3	37.8	24.4	39.1	26.2	47.2	22.1
Department of the Army	53.1	91.0	22.0	18.1	2.1	5.5	6.2	4.1	3.9	4.1	.2
Department of the Navy	60.4	54.0	96.0	45.5	76.1	11.3	8.0	37.0	34.6	35.8	11.1
Defense Agencies	51.6	128.4	98.8	76.3	88.2	5.9	8.3	5.3	1.1	21.4	.0
Department of Education	8.9	4.2	2.4	2.2	1.8	1.8	.0	.0	.0	.0	.0
Department of Energy	916.0	1,220.1	1,320.8	1,461.5	911.8	745.1	705.9	729.3	727.1	848.2	940.2
Department of Health & Human Services, total	107.8	86.3	96.7	149.3	120.2	255.7	133.1	260.1	286.3	379.6	213.9
Food & Drug Administration	23.0	18.4	14.3	19.7	8.4	5.3	5.5	14.5	28.1	11.4	31.8
Hlth Resources & Svcs Admin	.0	.0	.3	1.4	1.4	1.6	.7	.7	.9	.9	.8
National Insts of Health	84.8	67.8	82.1	128.2	110.5	248.8	126.9	244.9	257.3	367.4	181.4
Social Security Admin	.0	-	.0	.0	.0	.0	NA	NA	NA	NA	NA
Dept of the Interior, total	14.0	22.2	18.4	23.1	9.0	6.7	1.9	7.2	1.5	1.1	1.1
Bureau of Mines	3.0	2.1	.0	.0	.0	.0	NA	NA	NA	NA	NA
Geological Survey	1.3	3.3	4.3	3.8	6.4	5.4	1.2	5.0	.0	.0	.0
Minerals Management Service	.2	.3	1.0	1.1	1.2	1.0	.8	2.2	1.5	1.1	1.1
Nat'l Biological Svc	NA	NA	NA	.0	1.4	.3	NA	NA	NA	NA	NA
US Fish & Wildlife Service	9.5	16.6	13.1	18.3	.0	.0	.0	.0	.0	.0	.0
Dept of Transportation, total	21.8	18.4	25.3	32.3	40.9	28.8	31.8	19.0	17.6	15.4	13.6
Coast Guard	.4	.4	.4	.5	.5	.5	.5	.3	.3	.3	.3
Federal Aviation Admin	21.4	16.3	24.0	22.4	33.0	21.7	20.6	17.2	14.3	14.3	12.8
Federal Highway Admin	.0	.0	.8	.9	6.3	3.0	7.3	.9	2.0	-	-
Federal Railroad Admin	.0	1.7	.1	1.6	1.1	3.5	3.4	.6	1.1	.8	.5
Federal Transit Admin	.0	.0	.0	7.0	.0	.0	.0	.0	.0	.0	.0
Dept of the Treasury, total	.1	.1	.1	.2	.2	.2	.2	.1	.1	.1	.1
US Customs Service	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
United States Secret Service	-	-	-	-	-	-	-	.0	.0	.0	.0
Department of Veterans Affairs	3.3	3.4	5.7	3.4	11.7	7.2	3.8	31.3	.4	.3	1.0

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

Table C-97a. Federal obligations for R&D plant, by agency: fiscal years 1990-2000

[Dollars in millions]

Agency and subdivision	1990	1991	1992	1993	1994	1995	1996	1997	1998	Preliminary	
										1999	2000
Other agencies:											
Environmental Protection Agcy	.0	.0	.0	2.5	4.8	4.8	.0	25.0	66.0	106.0	110.0
General Services Admin	18.8	22.6	6.5	1.0	.3	5.1	.1	-	.0	-	.0
Nat'l Aero & Space Admin	527.0	723.6	817.8	749.4	515.3	624.8	417.4	333.8	350.0	361.4	324.9
National Science Foundation	39.3	159.6	101.6	130.4	171.9	289.6	187.2	203.8	184.3	201.1	191.2
Smithsonian Institution	4.8	1.5	3.8	5.0	5.0	5.0	5.0	4.0	3.0	4.0	4.0
Tennessee Valley Authority	4.9	4.8	3.2	1.0	.0	.0	.0	.0	.0	.0	.0

NOTES: Because of rounding, detail may not add to totals.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: - = Amount less than 50 thousand dollars
NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-98. Federal obligations for research, by agency: fiscal years 1979-1989

[Dollars in millions]

Selected agency	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total, all agencies	10,535.0	11,597.4	12,212.8	13,022.2	14,253.5	14,978.8	16,133.4	16,502.2	17,940.5	18,650.1	20,765.5
Departments:											
Dept of Agriculture, total	631.9	657.4	741.0	766.5	817.6	834.9	910.9	896.4	918.9	985.2	1,002.2
Agricultural Cooperative Svc	NA	1.6	1.7	1.7	2.1	2.2	2.9	2.6	2.7	2.7	2.8
Agricultural Marketing Svc	.4	1.0	.9	1.0	1.1	1.2	1.3	1.3	1.2	1.3	1.3
Agricultural Research Svc	NA	NA	367.9	379.1	417.9	424.3	442.0	436.0	454.6	479.4	492.1
Animal & Plant Health Inspection Service	.0	.0	.0	.0	.0	.0	.0	4.2	4.9	5.6	7.4
Cooperative State Research, Ed, & Extension Service	NA	NA	199.4	219.0	232.3	235.7	284.3	269.0	270.7	298.4	307.3
Economic Research Service	NA	NA	39.3	39.3	38.8	43.7	46.4	44.6	44.8	48.1	49.5
Economics, Stat, & Coop Svc	35.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Economics & Statistics Svc	NA	31.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Forest Service	102.5	106.1	119.9	107.7	103.9	105.1	109.8	109.7	122.9	131.5	127.5
Grain Inspection Packers & Stockyards Administration	.0	.0	.0	.0	.0	.0	.8	.6	.7	.6	.8
Human Nutrition Info Svc	NA	NA	.0	8.5	8.2	6.0	6.7	12.8	6.8	8.2	8.4
Nat'l Agri Statistics Svc	NA	NA	7.5	7.0	7.6	8.2	8.4	8.0	3.4	3.6	2.9
Office of International Cooperation & Development	.0	4.9	3.6	2.4	4.8	7.5	7.3	6.6	5.3	4.8	2.3
Office of Transportation	.0	.0	.8	.8	.8	.9	1.1	.9	.9	.9	NA
Science & Ed Admin, total	493.5	512.8	NA	NA	NA	NA	NA	NA	NA	NA	NA
Agricultural Research Svc	320.9	328.6	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cooperative State Rsch Svc	172.6	184.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Department of Commerce, total	219.5	254.4	249.4	276.1	284.8	296.7	324.2	339.5	338.6	342.3	351.0
Bureau of the Census	1.8	1.9	3.0	1.9	2.2	2.4	2.5	2.6	2.8	3.8	3.0
Economic Development Admin	8.5	2.5	1.8	1.6	5.3	5.1	2.0	2.3	5.0	4.2	1.0
Maritime Administration	12.2	12.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
National Institute of Standards & Technology	51.8	58.9	66.2	73.9	81.5	83.7	86.5	89.1	89.4	98.9	105.6
National Oceanic & Atmospheric Administration	142.7	168.8	168.5	188.5	188.9	197.7	224.4	237.5	234.4	228.2	234.6
National Telecommunications & Information Administration	2.4	9.6	9.9	10.1	6.9	7.7	7.9	7.6	7.0	7.3	6.9
Office of the Secretary	.1	.5	.0	-	-	-	.9	.3	-	.0	.0
Department of Defense, total	2,014.1	2,261.8	2,600.9	2,952.8	3,222.6	3,048.5	3,168.3	3,227.3	3,347.6	3,239.1	3,656.1
Department of the Air Force	492.3	537.3	617.3	633.9	688.4	740.1	736.7	759.0	784.8	773.1	807.4
Department of the Army	448.6	479.3	536.5	639.2	693.6	708.8	823.4	827.3	909.9	753.7	823.4
Department of the Navy	567.3	611.1	698.0	778.7	827.0	765.4	791.3	784.3	786.7	747.8	783.2
Defense Agencies	505.9	634.1	749.1	901.0	1,013.6	834.3	816.9	856.7	866.1	964.5	1,242.1
Department of Education	93.4	87.6	53.8	70.5	76.1	80.9	91.9	95.8	106.9	111.0	122.0
Department of Energy	1,131.8	1,277.3	1,413.6	1,696.1	1,961.1	2,024.9	2,141.0	2,040.3	2,097.9	2,235.4	2,431.7

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

Table C-98. Federal obligations for research, by agency: fiscal years 1979-1989

[Dollars in millions]

Selected agency	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Department of Health & Human Services, total	3,015.7	3,332.8	3,492.2	3,605.6	4,020.8	4,466.0	5,028.3	5,189.6	6,021.9	6,497.0	7,088.4
Alcohol, Drug Abuse, & Mental Health Administration	213.5	233.5	237.7	246.1	300.4	336.0	376.4	394.9	473.3	552.4	692.6
Centers for Disease Control & Prevention	76.3	87.3	74.8	75.0	78.2	46.3	47.6	52.2	66.2	88.7	117.8
Food & Drug Administration	61.0	75.4	71.4	73.0	74.2	77.8	82.1	79.4	85.0	91.0	99.0
Health Care Financing Admin	31.8	45.7	38.6	29.1	30.2	33.1	33.5	29.0	27.3	28.2	49.1
Health Resources Admin	4.9	5.1	5.0	NA	NA	NA	NA	NA	NA	NA	NA
Hlth Resources & Svcs Admin	NA	NA	NA	6.7	11.0	16.2	18.2	12.3	9.3	10.0	10.5
Health Services Admin	10.2	8.0	10.2	NA	NA	NA	NA	NA	NA	NA	NA
Human Development Services	14.9	19.1	39.9	8.7	6.9	4.5	5.8	6.8	9.4	7.1	8.5
National Insts of Health	2,530.1	2,787.5	2,948.3	3,124.5	3,478.2	3,910.4	4,428.1	4,587.6	5,314.7	5,680.7	6,061.8
Office of the Assistant Secretary for Health	29.9	25.7	28.8	13.9	16.6	18.1	16.9	15.8	18.9	19.4	25.6
Office of the Secretary	24.7	24.0	19.5	13.1	14.4	10.0	9.4	6.1	8.2	4.7	7.8
Social Security Admin	18.3	21.4	18.0	15.5	10.8	13.5	10.4	5.6	9.8	14.7	15.8
Dept of Housing & Urban Dvlpmt	23.8	19.6	16.7	10.3	11.3	6.3	6.5	5.3	5.5	6.3	6.1
Dept of the Interior, total	339.5	354.4	369.8	351.5	357.7	380.2	369.3	367.9	382.1	392.5	441.9
Bonneville Power Admin	.0	.0	6.5	NA	NA	NA	NA	NA	NA	NA	NA
Bureau of Land Management	1.1	1.3	1.5	2.4	2.0	1.8	2.8	2.1	2.1	2.2	2.0
Bureau of Mines	79.1	82.8	68.0	81.1	79.4	97.2	86.5	81.6	85.2	86.2	93.2
Bureau of Reclamation	11.4	12.9	13.4	9.0	8.8	9.0	11.2	9.7	10.2	3.7	3.5
Geological Survey	145.1	145.8	169.3	152.1	154.7	204.0	210.5	211.2	216.5	225.3	266.9
Minerals Management Service	NA	NA	NA	.0	1.5	1.5	1.4	1.1	1.0	1.2	2.2
National Park Service	8.9	8.2	10.4	11.2	13.7	14.0	15.0	17.3	18.5	19.4	19.4
Office of the Secretary	1.4	2.2	1.5	.5	7.4	.1	1.9	1.0	.0	.1	.0
Office of Surface Mining Reclamation & Enforcement	5.0	7.5	5.8	1.5	1.5	.8	2.0	2.3	1.0	1.0	.7
Office of Water Rsch & Tech	17.8	18.4	15.8	10.1	1.2	3.6	NA	NA	NA	NA	NA
US Fish & Wildlife Service	69.6	75.2	77.8	83.6	87.5	48.3	37.9	41.7	47.6	53.5	53.9
Department of Justice, total	28.8	28.8	19.5	16.3	20.7	17.9	19.3	22.3	19.8	17.4	17.5
Bureau of Prisons	.5	.9	1.7	.9	1.3	1.2	1.1	2.7	2.2	2.1	2.1
Drug Enforcement Admin	.7	.8	.4	1.3	.9	.7	.5	.8	.7	.6	.5
Immigration & Naturalization Service	.1	.2	.1	.3	.3	.3	.2	.2	.2	.3	.1
Office of Justice Programs	25.9	25.6	16.7	13.4	18.0	15.7	17.2	18.5	16.7	14.4	14.8
Office of Legal Policy	1.6	1.3	.7	.4	.2	.0	.3	.2	.1	.0	.0
Department of Labor, total	42.1	36.4	58.2	17.2	17.9	16.3	12.4	9.5	20.4	26.7	22.2
Bureau of Labor Statistics	.9	.9	.3	.3	.7	.5	.6	.6	6.5	7.0	7.0
Employment Standards Admin	5.3	4.9	3.2	1.4	1.4	.9	-	.0	1.0	.1	.1
Employment & Training Admin	25.9	20.1	48.8	8.7	7.9	6.1	3.5	3.5	5.4	6.8	6.1
Labor-Management Relations & Cooperative Programs	NA	NA	NA	NA	NA	.3	.3	.2	.3	.4	.3
Labor-Management Services Administration	3.2	2.8	1.8	.7	.9	NA	NA	NA	NA	NA	NA
Occupational Safety & Health Administration	5.1	6.3	3.0	4.9	5.3	5.1	4.5	3.6	4.1	4.2	4.5
Office of the Secretary	1.6	1.4	1.1	.9	1.5	1.9	1.7	1.3	1.8	5.2	2.5
Pension Benefit Guaranty Corp	NA	NA	.1	.3	.3	.3	.2	.1	.3	.3	.3
Pension & Welfare Benefits Administration	NA	NA	NA	NA	NA	1.2	1.6	.3	1.0	2.7	1.4
Department of State, total	2.7	2.0	1.6	1.5	1.5	1.6	1.5	1.5	3.0	4.2	4.7
Departmental Funds	2.7	2.0	1.6	.0	.0	.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: fiscal years 1979-1989

[Dollars in millions]

Selected agency	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Dept of Transportation, total	67.0	82.4	88.6	66.7	72.6	77.7	71.2	68.2	68.8	91.2	120.5
Coast Guard	10.9	8.1	15.0	1.7	1.2	7.2	5.4	3.5	3.7	5.4	4.6
Federal Aviation Admin	7.5	8.2	8.2	7.0	12.5	15.0	17.3	14.0	11.1	13.3	23.6
Federal Highway Admin	4.4	4.6	5.1	5.3	7.3	6.1	6.3	14.7	20.7	43.7	56.6
Federal Railroad Admin	7.5	7.9	6.2	3.1	2.8	12.3	11.4	12.5	10.4	8.2	7.5
Federal Transit Admin	1.1	8.9	9.3	19.4	18.3	1.0	.5	.0	.0	.0	.0
Maritime Administration	NA	NA	9.5	6.6	6.2	8.6	8.0	6.8	3.3	.5	.0
National Highway Traffic Safety Administration	30.0	38.6	29.4	21.3	21.4	24.7	20.9	16.1	18.9	19.1	26.2
Office of the Secretary	.6	.6	.7	.3	.3	.9	.9	.4	.4	.7	1.3
Research & Special Programs Administration	5.0	5.5	5.2	2.1	2.6	1.8	.5	.3	.2	.4	.7
Dept of the Treasury, total	4.7	5.7	5.2	8.1	10.2	10.6	18.3	17.7	17.4	15.9	16.3
Bureau of Alcohol, Tobacco, & Firearms	.7	.3	.1	NA	NA	NA	NA	NA	NA	NA	NA
Bureau of Engraving & Printing	.6	1.3	.9	2.8	2.0	2.2	3.4	3.1	2.8	1.2	1.4
Internal Revenue Service	3.5	3.9	4.2	5.3	7.9	8.1	14.7	14.0	14.1	13.7	14.1
US Customs Service	.0	.1	.1	-	.0	.1	.1	.2	.2	.7	.4
United States Secret Service	NA	.0	.0	.0	.3	.1	.2	.4	.2	.4	.4
Department of Veterans Affairs	111.4	117.9	127.7	123.0	146.1	171.9	209.1	169.9	190.3	196.1	213.7
Other agencies:											
Advisory Commission on Intergovernmental Relations	1.7	2.2	2.2	2.0	2.1	2.1	2.4	2.1	1.9	1.8	1.1
Appalachian Regional Comm	.7	.6	.3	.3	.2	.4	.2	.2	.1	.2	.8
Community Services Admin	1.8	1.3	1.9	NA	NA	NA	NA	NA	NA	NA	NA
Consumer Product Safety Comm	1.8	1.6	.2	.1	.3	1.1	1.4	1.1	.6	.1	.5
Environmental Protection Agcy	259.0	245.1	218.3	243.4	174.6	172.0	214.6	217.8	277.2	267.9	273.3
Fed Communications Commission	2.9	3.4	1.8	1.2	1.3	.9	1.2	.9	1.0	1.2	1.1
Federal Emergency Management Agency, total	9.7	9.3	9.1	9.2	3.3	6.1	2.9	.0	.0	.0	.0
Federal Trade Commission	1.5	3.0	1.1	1.2	1.4	1.6	1.7	1.8	.5	.4	.4
General Services Admin	.2	.1	.4	.5	.2	.4	.4	.9	1.6	2.3	.5
International Development Cooperation Agency, total	66.9	79.7	86.4	127.9	156.7	167.0	159.8	184.9	154.0	135.1	219.1
Agcy for Internat'l Dvlpmt	66.9	79.7	86.4	127.9	156.7	167.0	159.8	184.9	154.0	135.1	219.1
Interstate Commerce Commission	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
Library of Congress	.6	.6	.9	.9	1.3	2.1	2.1	1.6	1.5	1.6	1.6
Nat'l Aero & Space Admin	1,451.2	1,609.6	1,407.2	1,407.1	1,544.8	1,709.2	1,783.6	2,069.0	2,269.2	2,331.6	2,878.8
Nat'l Archives & Records Administration	NA	NA	NA	NA	NA	NA	.2	.0	.7	.5	.2
National Science Foundation	800.0	873.7	955.5	973.2	1,062.0	1,202.8	1,345.6	1,353.3	1,470.5	1,532.8	1,670.4
Nuclear Regulatory Commission	148.8	182.7	219.7	220.3	207.3	190.7	150.0	123.8	122.5	108.5	114.8
Office of Personnel Management	1.4	2.6	3.4	.0	.0	.0	.0	.0	.0	.0	.0
Office of Thrift Supervision	.9	1.2	1.0	2.7	3.0	2.6	2.8	3.3	3.4	3.4	4.1
Smithsonian Institution	36.9	41.0	44.9	52.4	56.0	63.6	71.1	63.3	71.5	75.1	80.2
Tennessee Valley Authority	16.5	15.8	14.2	12.7	12.3	14.3	14.4	17.8	17.7	18.5	14.6
United States Arms Control & Disarmament Agency	2.7	3.0	1.6	1.3	.8	1.2	1.1	.9	.4	.8	1.2
US Information Agency	.1	.1	1.1	.0	-	1.4	.1	1.6	.0	.1	.0
US Internat'l Trade Comm	3.4	2.1	3.4	3.8	4.7	5.0	5.8	6.9	7.2	8.1	8.7

NOTES: Because of rounding, detail may not add to totals.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For notes associated with the agencies listed in this table, refer to appendix B.

KEY: - = Amount less than 50 thousand dollars
NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-98a. Federal obligations for research, by agency: fiscal years 1990-2000

[Dollars in millions]

Selected agency	1990	1991	1992	1993	1994	1995	1996	1997	1998	Preliminary 1999	Preliminary 2000
Total, all agencies	21,622.4	23,968.4	24,490.6	26,890.5	27,411.2	28,434.4	28,259.8	29,365.3	30,922.3	33,821.7	34,679.6
Departments:											
Dept of Agriculture, total	1,061.3	1,175.5	1,261.0	1,251.7	1,322.5	1,298.8	1,220.0	1,290.1	1,333.9	1,516.4	1,474.2
Agricultural Cooperative Svc	2.7	2.8	3.4	2.9	3.7	NA	NA	NA	NA	NA	NA
Agricultural Marketing Svc	2.2	3.7	4.1	4.1	4.2	4.2	4.2	4.2	4.0	4.0	4.3
Agricultural Research Svc	512.3	550.8	583.2	574.3	624.4	628.6	621.2	625.7	689.7	757.9	778.8
Cooperative State Research, Ed, & Extension Service	324.2	376.8	418.2	418.6	429.0	417.7	362.4	433.5	386.4	506.2	451.0
Economic Research Service	50.5	54.4	58.9	58.9	55.2	53.8	53.0	53.0	71.5	65.0	55.6
Food Safety Inspection Svc	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
Foreign Agricultural Svc	.0	.0	.0	.0	1.1	.9	1.3	1.4	1.4	1.4	1.4
Forest Service	153.8	170.2	175.8	177.2	189.8	187.7	172.3	165.9	172.3	174.5	174.5
Grain Inspection Packers & Stockyards Administration	.2	.7	1.5	1.8	1.8	.3	.5	.6	.5	.5	.7
Human Nutrition Info Svc	9.0	9.9	10.7	8.4	7.0	NA	NA	NA	NA	NA	NA
Nat'l Agri Statistics Svc	2.8	3.2	3.6	3.9	3.9	4.0	3.8	3.4	3.3	3.2	3.2
Office of International Cooperation & Development	3.4	3.0	1.5	1.5	.0	NA	NA	NA	NA	NA	NA
Rural Business-Coop Svc	NA	NA	NA	NA	2.4	1.6	1.4	2.5	4.4	3.5	4.5
Department of Commerce, total	377.0	449.7	595.9	582.1	718.3	892.3	850.6	808.1	807.0	882.0	859.7
Bureau of the Census	4.9	4.8	3.4	3.3	2.8	2.9	2.5	3.4	5.2	9.9	5.0
Economic Development Admin	1.2	1.4	.5	.0	.6	.5	.6	.6	.6	.6	.6
National Institute of Standards & Technology	111.8	124.3	149.4	172.9	207.3	372.1	354.8	331.5	305.4	330.4	339.6
National Oceanic & Atmospheric Administration	252.4	315.6	438.7	401.7	502.7	510.4	480.8	468.8	492.1	537.3	508.4
National Telecommunications & Information Administration	6.8	3.6	4.0	4.2	4.8	6.4	11.9	3.8	3.8	3.9	6.2
Office of the Secretary	.0	.0	.0	.0	.0	-	-	.0	.0	.0	.0
Department of Defense, total	3,529.2	3,717.9	4,073.4	4,783.5	4,240.6	4,198.4	3,995.5	3,809.8	3,969.9	4,141.9	4,116.3
Department of the Air Force	776.3	830.4	790.5	887.8	814.3	834.5	882.3	816.6	736.9	752.6	723.4
Department of the Army	780.2	860.5	932.7	1,018.6	852.6	852.1	670.4	710.0	817.8	878.2	771.8
Department of the Navy	807.6	874.0	892.8	996.1	847.1	880.0	893.5	885.7	822.2	895.6	902.3
Defense Agencies	1,165.1	1,153.0	1,457.3	1,881.0	1,726.6	1,632.0	1,549.3	1,397.5	1,593.0	1,615.6	1,718.8
Department of Education	130.3	131.7	127.0	133.6	136.8	138.4	135.5	138.1	148.7	153.9	172.9
Department of Energy	2,570.5	3,273.6	3,412.5	3,440.2	3,282.5	3,459.9	3,362.2	3,567.7	3,787.5	4,130.1	4,373.2
Department of Health & Human Services, total	7,467.1	8,162.5	7,945.5	9,192.6	9,736.4	10,076.0	10,545.9	11,228.1	12,018.5	13,697.1	14,100.2
Administration on Aging	NA	2.9	2.5	2.7	3.5	3.0	.2	.2	2.4	1.2	1.1
Administration for Children & Families	NA	13.5	34.3	18.5	10.4	11.2	12.6	17.4	23.5	18.8	28.0
Agency for Health Care Policy & Research	44.2	93.0	97.8	105.6	142.0	124.0	116.0	134.1	138.8	160.9	197.3
Alcohol, Drug Abuse, & Mental Health Administration	801.2	923.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
Centers for Disease Control & Prevention	95.6	113.4	146.9	162.5	206.8	317.4	296.7	323.0	343.6	382.6	468.6
Food & Drug Administration	99.0	125.0	135.7	154.5	169.4	170.5	170.8	158.6	142.9	141.2	151.7
Health Care Financing Admin	49.1	69.1	75.5	68.2	80.0	74.5	52.7	43.6	51.2	50.0	55.0
Hlth Resources & Svcs Admin	11.9	11.0	10.1	9.6	10.6	12.2	11.1	13.1	12.9	13.0	13.1
Human Development Services	7.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
National Insts of Health	6,335.8	6,783.0	7,398.7	8,638.5	9,079.7	9,333.6	9,876.9	10,519.7	11,289.2	12,915.5	13,171.5
Office of the Assistant Secretary for Health	5.8	9.6	6.0	.0	.0	.0	NA	NA	NA	NA	NA
Office of the Secretary, total	5.0	8.8	5.0	8.0	11.7	9.1	9.0	18.4	13.9	14.0	14.0
Office of the Assistant Sec, Planning & Eval	NA	NA	NA	NA	NA	NA	9.0	18.4	13.9	14.0	14.0
Social Security Admin	11.8	10.2	33.0	24.5	22.2	20.4	NA	NA	NA	NA	NA

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

Table C-98a. Federal obligations for research, by agency: fiscal years 1990-2000

[Dollars in millions]

Selected agency	1990	1991	1992	1993	1994	1995	1996	1997	1998	Preliminary	
										1999	2000
Dept of Housing & Urban Dvlpmt	6.6	9.4	8.8	8.1	13.7	14.2	11.2	11.3	9.2	21.3	18.1
Dept of the Interior, total	475.2	553.4	570.6	580.1	650.2	532.4	542.1	552.7	502.9	534.0	552.1
Bureau of Land Management	2.1	5.9	5.9	8.0	.0	.0	.0	.0	.0	.0	.0
Bureau of Mines	89.9	99.0	102.9	105.0	95.4	.0	NA	NA	NA	NA	NA
Bureau of Reclamation	5.3	7.8	10.7	7.4	5.5	6.0	4.9	5.4	6.6	6.1	7.4
Geological Survey	293.2	338.4	344.5	343.9	355.4	347.9	495.1	500.7	437.2	469.1	484.2
Minerals Management Service	1.9	2.7	3.8	5.8	20.6	20.0	21.9	20.6	29.3	29.1	28.6
Nat'l Biological Svc	NA	NA	NA	.0	149.0	138.8	NA	NA	NA	NA	NA
National Park Service	20.1	27.5	31.1	38.1	24.2	19.7	20.2	26.0	29.7	29.7	31.8
Office of the Secretary	.0	.1	.2	.2	.0	.0	.0	.0	.0	.0	.0
Office of Surface Mining Reclamation & Enforcement	.7	1.0	.3	.5	.0	.0	.0	.0	.0	.0	.0
US Fish & Wildlife Service	62.0	71.0	71.2	71.2	.0	.0	.0	.0	.0	.0	.0
Department of Justice, total	19.9	21.1	20.3	25.6	25.9	25.8	32.0	32.5	42.0	49.5	25.0
Bureau of Prisons	1.8	1.9	2.5	2.5	2.1	3.2	3.1	1.9	4.3	4.0	4.0
Drug Enforcement Admin	.4	.9	.1	-	.1	.0	-	-	.0	.0	.0
Immigration & Naturalization Service	.4	.4	.4	.4	.4	.4	.2	.4	.0	.0	.0
Office of Justice Programs	17.3	17.9	17.3	22.7	23.3	22.2	28.7	30.2	37.7	45.6	21.0
Department of Labor, total	21.6	24.3	23.8	19.0	19.6	29.9	26.7	21.7	22.1	21.4	22.1
Bureau of Labor Statistics	7.3	7.5	7.6	6.9	7.1	14.8	13.3	12.6	12.4	12.4	12.4
Employment Standards Admin	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Employment & Training Admin	6.0	6.6	5.6	3.5	3.1	4.2	2.6	1.5	2.2	2.0	1.3
Occupational Safety & Health Administration	2.5	2.6	3.1	2.5	3.3	4.4	6.6	5.5	4.6	5.0	5.3
Office of the Secretary	3.3	4.7	4.1	2.9	3.1	2.9	1.8	.1	.1	.1	.1
Pension Benefit Guaranty Corp	.3	.4	.8	.7	.3	.1	.1	.1	.1	.1	.1
Pension & Welfare Benefits Administration	2.1	2.5	2.6	2.6	2.7	3.6	2.3	2.0	2.7	1.8	3.0
Department of State[1]	4.7	5.9	5.6	5.3	.4	.5	.9	1.0	.9	1.0	1.0
Dept of Transportation, total	119.2	114.6	156.9	226.1	273.4	370.7	375.2	381.2	401.0	490.5	675.6
Coast Guard	5.1	6.4	5.0	8.2	5.6	4.9	5.0	5.7	5.1	4.5	5.7
Federal Aviation Admin	26.1	24.0	30.1	59.8	79.5	83.3	130.6	159.4	151.6	150.0	173.0
Federal Highway Admin	57.6	46.1	73.2	91.7	134.2	203.1	173.9	149.2	169.6	250.6	406.0
Federal Railroad Admin	8.5	13.2	18.9	20.9	16.1	22.5	21.3	18.2	21.2	25.1	23.6
Federal Transit Admin	.0	.0	.0	10.9	7.8	10.9	5.6	6.0	7.4	4.1	4.1
Maritime Administration	.9	1.7	1.8	1.7	1.7	2.5	.0	.0	.0	.0	.0
National Highway Traffic Safety Administration	16.9	21.4	25.8	31.6	25.3	39.7	33.2	36.4	41.6	50.4	58.7
Office of the Secretary	1.7	.6	.7	.6	.6	.6	.0	.0	.0	.0	.0
Research & Special Programs Administration	2.4	1.4	1.4	.5	2.6	3.2	5.6	6.3	4.6	5.9	4.5
Dept of the Treasury, total	18.7	24.1	20.8	11.1	9.2	48.9	50.5	50.9	52.6	60.7	74.8
Bureau of Engraving & Printing	1.4	2.7	1.8	3.2	1.6	1.3	1.6	1.6	2.7	2.2	2.3
Internal Revenue Service	16.5	17.5	17.5	6.5	6.1	45.8	47.5	47.9	47.9	55.5	70.2
Off of Thrift Supervision	.0	3.0	.8	.7	.5	.6	.5	.6	.7	.8	.9
US Customs Service	.4	.5	.2	.1	.5	.7	.5	.4	.8	1.7	.9
United States Secret Service	.5	.4	.5	.6	.5	.5	.5	.4	.5	.5	.6
Department of Veterans Affairs	215.6	193.8	200.9	207.4	223.5	218.8	235.3	231.0	269.1	311.1	307.0

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

Table C-98a. Federal obligations for research, by agency: fiscal years 1990-2000

[Dollars in millions]

Selected agency	1990	1991	1992	1993	1994	1995	1996	1997	1998	Preliminary	
										1999	2000
Other agencies:											
Advisory Commission on Intergovernmental Relations	1.5	1.7	1.7	2.1	1.4	1.4	NA	NA	NA	NA	NA
Appalachian Regional Comm	.4	.7	1.9	.9	.9	.9	.9	.9	.7	.7	.8
Consumer Product Safety Comm	.4	.9	.8	.8	.1	.0	.0	.1	.0	.0	1.2
Environmental Protection Agcy	315.2	353.1	404.3	361.5	402.3	401.6	380.8	409.1	477.2	462.9	446.9
Fed Communications Commission	1.3	1.4	1.6	1.6	1.7	2.3	2.8	3.1	3.0	4.2	2.7
Federal Trade Commission	.5	1.0	1.3	.9	.7	.6	.5	.7	1.1	1.1	1.4
General Services Admin	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
International Development Cooperation Agency, total	305.2	357.4	300.1	359.2	216.2	272.7	205.0	176.7	172.9	163.2	143.6
Agcy for International Development[2]	305.2	357.4	300.1	359.2	216.2	272.7	205.0	176.7	172.9	163.2	143.6
Library of Congress	1.5	1.7	1.8	1.8	1.9	2.1	2.2	.5	.5	.6	.6
Nat'l Aero & Space Admin	3,060.7	3,371.2	3,229.3	3,548.7	3,840.6	4,046.1	3,878.0	4,184.9	4,413.7	4,433.1	4,392.0
Nat'l Archives & Records Admin	.3	.6	.6	.3	.3	.1	.1	.1	.1	.1	.1
National Science Foundation	1,689.5	1,785.2	1,868.4	1,881.9	2,040.4	2,149.3	2,188.3	2,248.5	2,289.3	2,512.9	2,698.3
Nuclear Regulatory Commission	108.8	108.8	119.0	119.8	90.7	88.2	70.9	62.1	51.7	49.2	46.6
Office of Thrift Supervision	4.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Smithsonian Institution	84.0	98.0	98.0	102.0	124.2	124.0	127.0	130.0	120.0	122.0	129.0
Social Security Admin	NA	NA	NA	NA	NA	NA	11.5	13.6	17.4	53.7	36.9
Tennessee Valley Authority	21.7	18.8	24.4	27.9	25.9	26.4	4.2	4.0	.8	.0	.0
United States Arms Control & Disarmament Agency[1]	.2	.4	2.1	1.5	1.3	1.1	.7	1.2	1.2	.1	.0
US Information Agency	.5	.1	.0	1.1	.6	.3	.1	.2	.3	.1	.1
US Internat'l Trade Comm	9.1	9.9	12.3	12.2	9.4	12.2	3.2	5.7	7.2	6.9	7.1

[1] Effective April 1, 1999, all functions and authorities of the United States Arms Control & Disarmament Agency were transferred to the Department of State.

[2] 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 (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-1996). More accurate data for AID will be reported in future volumes of this survey.

NOTES: Because of rounding, detail may not add to totals.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: - = Amount less than 50 thousand dollars
NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-99. Federal obligations for basic research, by agency: fiscal years 1979-1989

[Dollars in millions]

Selected agency	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total, all agencies	4,192.7	4,674.2	5,041.3	5,481.6	6,260.1	7,067.4	7,818.7	8,153.1	8,942.4	9,473.6	10,602.0
Departments:											
Dept of Agriculture, total	256.4	275.7	314.1	330.8	362.0	392.6	445.4	432.9	445.5	480.6	484.9
Agricultural Research Svc	NA	NA	186.4	192.9	215.3	240.6	250.2	247.7	253.4	271.1	282.7
Cooperative State Research, Ed, & Extension Service	NA	NA	83.9	91.3	98.8	99.6	141.5	131.7	132.8	145.8	142.6
Economic Research Service	NA	NA	3.6	3.9	3.9	4.4	4.6	4.5	6.3	6.7	6.9
Economics, Stat, & Coop Svc	6.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Economics & Statistics Svc	NA	6.6	NA	NA	NA	NA	NA	NA	NA	NA	NA
Forest Service	31.4	33.7	38.1	38.7	38.8	41.2	44.1	42.2	49.4	51.6	50.0
Nat'l Agri Statistics Svc	NA	NA	.0	2.3	2.5	2.7	2.8	2.6	1.1	1.2	1.0
Office of International Cooperation & Development	.0	2.3	1.7	1.1	2.3	3.6	1.5	3.7	1.9	3.6	1.7
Office of Transportation	.0	.0	.5	.5	.5	.6	.6	.5	.5	.5	NA
Science & Ed Admin, total	218.6	233.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
Agricultural Research Svc	148.2	157.8	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cooperative State Rsch Svc	70.5	75.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Department of Commerce, total	11.9	15.9	16.2	16.9	19.2	20.6	23.2	26.5	25.8	30.9	29.1
Bureau of the Census	.6	.5	.4	.3	.3	.4	.4	.5	.7	1.3	1.2
Economic Development Admin	.5	.3	.2	.0	.5	.0	.0	.0	.0	.0	.0
Maritime Administration	2.0	2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
National Institute of Standards & Technology	8.8	12.8	15.6	16.5	18.4	20.2	22.1	25.7	25.1	26.3	27.9
National Oceanic & Atmospheric Administration	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	.0
Office of the Secretary	.0	.3	.0	-	-	.0	.8	.3	.0	.0	.0
Department of Defense, total	471.5	540.3	604.3	686.7	785.6	847.9	861.4	923.9	907.6	876.9	947.9
Department of the Air Force	105.0	108.2	125.8	145.8	164.2	192.4	198.3	216.5	221.6	196.4	202.8
Department of the Army	115.0	132.2	148.1	187.7	208.3	222.1	240.8	248.5	217.0	165.7	187.2
Department of the Navy	192.1	214.9	238.0	280.3	305.4	315.8	343.1	337.3	354.3	341.8	354.0
Defense Agencies	59.3	85.1	92.4	72.9	107.7	117.6	79.2	121.7	114.8	173.0	203.9
Department of Education	20.6	17.6	20.6	14.2	14.2	12.2	14.6	4.5	3.1	4.4	4.4
Department of Energy	463.0	523.1	586.3	642.2	767.7	830.4	942.6	959.7	1,068.5	1,184.8	1,410.9
Department of Health & Human Services, total	1,576.0	1,762.7	1,900.4	2,144.7	2,475.4	2,814.5	3,232.5	3,338.8	3,827.9	4,081.4	4,388.0
Alcohol, Drug Abuse, & Mental Health Administration	94.6	104.7	116.3	117.3	145.0	170.8	196.8	203.4	232.2	265.8	308.0
Hlth Resources & Svcs Admin	NA	NA	NA	.6	.8	.8	.9	1.0	1.3	1.1	1.2
Health Services Admin	2.0	2.0	3.8	NA	NA	NA	NA	NA	NA	NA	NA
Human Development Services	.0	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0
National Insts of Health	1,463.7	1,642.3	1,766.8	2,020.7	2,313.0	2,624.8	3,018.0	3,118.6	3,575.5	3,795.1	4,053.3
Office of the Assistant Secretary for Health	13.6	11.6	12.4	5.7	16.6	18.1	16.9	15.8	18.9	19.4	25.6
Office of the Secretary	2.1	2.0	.6	.0	.0	.0	.0	.0	.0	.0	.0
Dept of the Interior, total	72.5	71.6	80.7	76.5	103.0	125.9	138.3	133.0	134.9	126.5	188.9
Bonneville Power Admin	.0	.0	.4	NA	NA	NA	NA	NA	NA	NA	NA
Bureau of Mines	13.7	11.5	13.6	15.9	23.5	40.5	49.9	44.9	45.6	32.1	43.9
Bureau of Reclamation	.1	.2	.1	.1	.1	.1	.3	.1	.1	.1	-
Geological Survey	49.0	47.3	53.5	52.6	64.7	78.9	80.5	83.4	84.9	89.5	140.2
Office of the Secretary	1.4	2.2	1.5	.5	7.4	.1	1.9	1.0	.0	.0	.0
Office of Water Rsch & Tech	4.6	6.6	7.6	3.3	.5	.4	NA	NA	NA	NA	NA
US Fish & Wildlife Service	3.7	3.8	3.9	4.1	6.9	5.9	5.7	3.6	4.3	4.8	4.8
Department of Justice, total	7.9	9.5	4.6	3.1	3.6	4.7	4.2	5.3	8.1	7.6	6.8
Office of Justice Programs	7.9	9.5	4.6	3.1	3.6	4.7	4.2	5.3	8.1	7.6	6.8

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

Table C-99. Federal obligations for basic research, by agency: fiscal years 1979-1989

[Dollars in millions]

Selected agency	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Department of Labor, total	2.3	3.9	3.7	6.5	5.3	5.0	3.3	0.9	1.4	0.4	0.3
Employment & Training Admin	1.8	3.9	3.7	6.5	5.3	5.0	3.3	.9	1.4	.4	.3
Labor-Management Services Administration	.5	.0	.0	.0	.0	NA	NA	NA	NA	NA	NA
Department of State, total	-	.0	.0	.0	.0	.0	.0	.0	2.6	3.1	3.4
Departmental Funds	-	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dept of Transportation, total	.0	.0	1.2	1.0	.9	3.5	1.1	.6	.2	.0	.0
Coast Guard	.0	.0	.3	.0	.4	.0	.0	.0	.0	.0	.0
Maritime Administration	NA	NA	.7	1.0	.5	3.5	1.1	.6	.2	.0	.0
Research & Special Programs Administration	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0
Dept of the Treasury, total	.2	1.7	2.3	2.2	3.5	4.0	4.8	5.1	4.7	4.8	3.4
Bureau of Engraving & Printing	.0	.0	.0	.0	.6	.8	.3	.4	.1	.1	.5
Internal Revenue Service	.2	1.7	2.3	2.2	2.9	3.2	4.4	4.5	4.4	4.7	2.9
United States Secret Service	NA	.0	.0	.0	.0	.0	.0	.2	.2	.1	.0
Department of Veterans Affairs	9.5	14.3	15.0	12.9	14.1	15.8	15.4	14.8	17.2	17.3	16.6
Other agencies:											
Consumer Product Safety Comm	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
Environmental Protection Agcy	10.1	13.6	10.5	32.7	22.2	29.6	38.6	38.5	31.1	27.2	50.7
Federal Emergency Management Agency, total	3.0	2.6	2.6	1.4	.0	.0	.0	.0	.0	.0	.0
Federal Trade Commission	.4	1.5	.9	1.0	1.2	1.3	1.5	1.6	.0	.0	.0
General Services Admin	-	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0
International Development Cooperation Agency, total	.0	.0	.0	.0	4.1	3.0	1.7	4.3	2.8	3.0	3.1
Agcy for Internat'l Dvlpmt	.0	.0	.0	.0	4.1	3.0	1.7	4.3	2.8	3.0	3.1
Library of Congress	.1	.1	.2	.1	.3	.6	.6	.4	.4	.4	.4
Nat'l Aero & Space Admin	512.8	559.1	531.1	535.7	617.0	754.5	750.9	916.7	1,013.7	1,112.7	1,417.4
Nat'l Archives & Records Administration	NA	NA	NA	NA	NA	NA	.1	.0	.5	.2	.1
National Science Foundation	733.3	815.2	896.6	916.1	999.1	1,132.3	1,261.8	1,275.2	1,371.2	1,433.2	1,562.6
Smithsonian Institution	36.9	41.0	44.9	52.4	56.0	63.6	71.1	63.3	71.5	75.1	80.2
Tennessee Valley Authority	4.1	4.6	4.8	4.6	5.6	5.1	5.5	7.3	3.9	3.2	2.9
US Information Agency	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0

NOTES: Because of rounding, detail may not add to totals.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For notes associated with the agencies listed in this table, refer to appendix B.

KEY: - = Amount less than 50 thousand dollars
NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-99a. Federal obligations for basic research, by agency: fiscal years 1990-2000

[Dollars in millions]

Selected agency	1990	1991	1992	1993	1994	1995	1996	1997	1998	Preliminary 1999	Preliminary 2000
Total, all agencies	11,285.6	12,170.8	12,489.9	13,399.1	13,523.5	13,877.0	14,464.0	14,941.9	15,613.0	17,366.9	18,209.4
Departments:											
Dept of Agriculture, total	519.2	557.6	595.2	615.9	606.3	595.0	550.0	590.1	603.8	715.7	718.9
Agricultural Marketing Svc	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Agricultural Research Svc	294.0	309.7	326.1	341.0	366.5	369.0	364.6	364.4	401.7	449.8	462.2
Cooperative State Research, Ed, & Extension Service	153.7	170.4	189.6	192.5	194.7	186.0	148.7	189.9	163.5	227.7	219.4
Economic Research Service	7.1	7.6	8.2	10.6	9.9	5.4	5.3	5.3	7.2	6.5	5.6
Food Safety Inspection Svc	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
Foreign Agricultural Svc	.0	.0	.0	.0	.7	.5	.9	.9	.9	.9	.9
Forest Service	60.3	66.6	68.9	69.4	33.3	32.9	29.3	28.4	29.3	29.7	29.7
Grain Inspection Packers & Stockyards Administration	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nat'l Agri Statistics Svc	.9	1.1	1.2	1.3	1.3	1.3	1.2	1.1	1.1	1.1	1.1
Office of International Cooperation & Development	2.6	2.2	1.2	1.2	.0	NA	NA	NA	NA	NA	NA
Department of Commerce, total	31.4	34.3	34.5	37.2	40.1	39.3	37.5	39.2	39.6	45.7	44.8
Bureau of the Census	2.8	2.4	.9	.4	.3	.3	.9	1.1	.6	1.0	.5
National Institute of Standards & Technology	28.6	31.9	33.6	36.5	39.8	38.9	36.7	38.2	38.6	40.8	40.3
National Oceanic & Atmospheric Administration	.0	.0	.0	.3	.0	.0	.0	.0	.4	3.9	3.9
Department of Defense, total	947.6	994.2	1,098.9	1,268.2	1,200.7	1,248.3	1,137.9	1,022.9	1,030.8	1,030.3	1,115.1
Department of the Air Force	197.0	209.2	205.8	218.7	242.4	206.8	227.9	188.1	185.6	195.3	209.5
Department of the Army	185.1	188.6	204.9	215.7	213.3	218.8	195.1	178.3	182.0	178.9	189.5
Department of the Navy	365.0	388.0	393.8	422.0	400.1	409.4	376.7	347.2	329.0	344.6	375.8
Defense Agencies	200.5	208.3	294.4	411.8	344.9	413.3	338.2	309.2	334.3	311.5	340.3
Department of Education	4.9	8.6	7.5	5.3	5.5	5.5	3.5	3.0	2.1	2.1	2.0
Department of Energy	1,504.8	1,686.5	1,736.4	1,754.8	1,603.2	1,634.4	1,929.7	1,970.9	2,028.8	2,230.0	2,285.8
Department of Health & Human Services, total	4,649.0	5,050.1	5,058.7	5,696.7	5,884.0	6,061.1	6,504.6	6,851.8	7,355.4	8,428.4	8,588.9
Agency for Health Care Policy & Research	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0
Alcohol, Drug Abuse, & Mental Health Administration	386.2	459.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hlth Resources & Svcs Admin	1.2	1.5	1.3	1.1	.8	1.0	1.0	1.1	1.1	1.1	1.2
National Insts of Health	4,261.7	4,589.5	5,057.4	5,695.6	5,882.4	6,060.0	6,503.6	6,850.7	7,354.3	8,427.3	8,587.7
Dept of the Interior, total	205.4	229.3	230.9	230.3	83.2	55.2	56.0	56.4	48.7	50.8	51.9
Bureau of Land Management	.0	1.1	.6	.6	.0	.0	.0	.0	.0	.0	.0
Bureau of Mines	40.6	42.8	43.7	44.6	25.4	.0	NA	NA	NA	NA	NA
Bureau of Reclamation	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
Geological Survey	159.1	179.1	180.1	178.0	43.5	41.6	55.5	55.9	48.2	50.3	51.4
Nat'l Biological Svc	NA	NA	NA	.0	13.7	13.0	NA	NA	NA	NA	NA
National Park Service	.0	.0	.0	.6	.7	.5	.5	.5	.5	.6	.6
US Fish & Wildlife Service	5.6	6.2	6.4	6.4	.0	.0	.0	.0	.0	.0	.0
Department of Justice, total	8.8	6.4	5.3	5.0	5.9	8.1	12.6	12.4	16.0	20.1	15.2
Office of Justice Programs	8.8	6.4	5.3	5.0	5.9	8.1	12.6	12.4	16.0	20.1	15.2
Department of Labor, total	.3	.3	.2	5.6	5.8	13.3	11.5	11.3	11.1	11.1	11.1
Bureau of Labor Statistics	.0	.0	.0	5.4	5.6	13.3	11.5	11.3	11.1	11.1	11.1
Employment & Training Admin	.3	.3	.2	.2	.2	.0	.0	.0	.0	.0	.0
Pension Benefit Guaranty Corp	.0	.0	-	.0	.0	.0	.0	.0	.0	.0	.0
Department of State[1]	3.5	4.6	4.9	4.8	.0	.0	.0	.0	.0	.0	.0

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

Table C-99a. Federal obligations for basic research, by agency: fiscal years 1990-2000

[Dollars in millions]

Selected agency	1990	1991	1992	1993	1994	1995	1996	1997	1998	Preliminary	
										1999	2000
Dept of Transportation, total	.0	.0	1.2	1.7	3.0	46.9	38.4	37.5	35.0	39.9	67.6
Federal Highway Admin	.0	.0	1.2	1.7	3.0	46.9	38.4	37.5	35.0	39.9	67.6
Office of the Secretary	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dept of the Treasury, total	3.4	3.6	3.6	6.5	-	-	-	-	-	-	-
Bureau of Engraving & Printing	.0	.0	.0	.0	-	-	-	-	-	-	-
Internal Revenue Service	3.4	3.6	3.6	6.5	.0	.0	.0	.0	.0	.0	.0
Department of Veterans Affairs	16.2	16.1	15.7	13.3	14.4	12.4	12.5	13.6	120.0	139.9	137.5
Other agencies:											
Environmental Protection Agcy	73.6	91.2	110.4	89.1	101.4	70.3	51.7	51.1	57.4	75.7	78.8
International Development Cooperation Agency, total	5.0	5.7	5.8	8.4	1.8	2.3	2.0	.1	1.8	.1	.1
Agcy for International Development[2]	5.0	5.7	5.8	8.4	1.8	2.3	2.0	.1	1.8	.1	.1
Library of Congress	.3	.4	.4	.3	.4	.5	.5	.0	.0	.0	.0
Nat'l Aero & Space Admin	1,636.9	1,705.6	1,738.2	1,800.1	1,963.9	1,978.2	1,980.9	2,094.8	2,023.8	2,122.6	2,448.8
Nat'l Archives & Records Admin	.2	.4	.5	.2	.2	.0	.0	.0	.0	.0	.0
National Science Foundation	1,586.3	1,676.2	1,741.5	1,743.8	1,870.7	1,973.3	2,007.4	2,056.7	2,118.7	2,332.7	2,513.8
Smithsonian Institution	84.0	98.0	98.0	102.0	124.2	124.0	127.0	130.0	120.0	122.0	129.0
Tennessee Valley Authority	4.7	1.9	2.1	9.9	8.9	9.0	.3	.0	-	.0	.0

1 Effective April 1, 1999, all functions and authorities of the United States Arms Control & Disarmament Agency were transferred to the Department of State.

2 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 (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-1996). More accurate data for AID will be reported in future volumes of this survey.

NOTES: Because of rounding, detail may not add to totals.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: - = Amount less than 50 thousand dollars
NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-100. Federal obligations for applied research, by agency: fiscal years 1979-1989

[Dollars in millions]

Selected agency	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total, all agencies	6,342.3	6,923.2	7,171.5	7,540.6	7,993.4	7,911.4	8,314.7	8,349.1	8,998.1	9,176.5	10,163.5
Departments:											
Dept of Agriculture, total	375.5	381.8	426.9	435.7	455.5	442.2	465.6	463.5	473.4	504.6	517.3
Agricultural Cooperative Svc	NA	1.6	1.7	1.7	2.1	2.2	2.9	2.6	2.7	2.7	2.8
Agricultural Marketing Svc	.4	1.0	.9	1.0	1.1	1.2	1.3	1.3	1.2	1.3	1.3
Agricultural Research Svc	NA	NA	181.5	186.2	202.6	183.7	191.8	188.3	201.1	208.2	209.4
Animal & Plant Health Inspection Service	.0	.0	.0	.0	.0	.0	.0	4.2	4.9	5.6	7.4
Cooperative State Research, Ed, & Extension Service	NA	NA	115.5	127.7	133.5	136.2	142.8	137.4	138.0	152.6	164.7
Economic Research Service	NA	NA	35.8	35.3	34.9	39.3	41.7	40.1	38.5	41.4	42.6
Economics, Stat, & Coop Svc	29.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Economics & Statistics Svc	NA	24.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Forest Service	71.1	72.3	81.8	69.0	65.1	63.9	65.7	67.5	73.5	79.9	77.5
Grain Inspection Packers & Stockyards Administration	.0	.0	.0	.0	.0	.0	.8	.6	.7	.6	.8
Human Nutrition Info Svc	NA	NA	.0	8.5	8.2	6.0	6.7	12.8	6.8	8.2	8.4
Nat'l Agri Statistics Svc	NA	NA	7.5	4.7	5.1	5.5	5.6	5.4	2.3	2.4	1.9
Office of International Cooperation & Development	.0	2.6	1.9	1.2	2.5	3.9	5.8	2.9	3.3	1.2	.6
Office of Transportation	.0	.0	.3	.3	.3	.3	.5	.4	.4	.4	NA
Science & Ed Admin, total	274.8	279.8	NA	NA	NA	NA	NA	NA	NA	NA	NA
Agricultural Research Svc	172.7	170.8	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cooperative State Rsch Svc	102.1	109.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
Department of Commerce, total	207.6	238.5	233.2	259.2	265.6	276.1	301.0	312.9	312.8	311.5	321.9
Bureau of the Census	1.2	1.4	2.6	1.6	1.9	2.0	2.1	2.1	2.1	2.4	1.8
Economic Development Admin	8.0	2.2	1.6	1.6	4.8	5.1	2.0	2.3	5.0	4.2	1.0
Maritime Administration	10.2	10.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
National Institute of Standards & Technology	43.0	46.1	50.6	57.4	63.1	63.5	64.5	63.5	64.3	72.6	77.6
National Oceanic & Atmospheric Administration	142.7	168.8	168.5	188.5	188.9	197.7	224.4	237.5	234.4	225.0	234.6
National Telecommunications & Information Administration	2.4	9.6	9.9	10.1	6.9	7.7	7.9	7.6	7.0	7.3	6.9
Office of the Secretary	.1	.2	.0	.0	.0	-	.1	.0	-	.0	.0
Department of Defense, total	1,542.6	1,721.4	1,996.6	2,266.1	2,437.0	2,200.7	2,306.9	2,303.3	2,440.0	2,362.2	2,708.2
Department of the Air Force	387.2	429.1	491.5	488.1	524.2	547.7	538.4	542.5	563.2	576.7	604.6
Department of the Army	333.6	347.1	388.4	451.6	485.3	486.7	582.6	578.8	692.9	588.0	636.3
Department of the Navy	375.2	396.2	460.0	498.4	521.6	449.6	448.2	447.1	432.5	406.0	429.2
Defense Agencies	446.6	549.1	656.7	828.1	905.9	716.6	737.7	735.0	751.3	791.5	1,038.1
Department of Education	72.8	70.0	33.2	56.3	61.9	68.7	77.3	91.3	103.8	106.6	117.5
Department of Energy	668.9	754.2	827.3	1,053.9	1,193.4	1,194.5	1,198.4	1,080.7	1,029.4	1,050.6	1,020.8

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

Table C-100. Federal obligations for applied research, by agency: fiscal years 1979-1989

[Dollars in millions]

Selected agency	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Department of Health & Human Services, total	1,439.7	1,570.1	1,591.9	1,460.9	1,545.4	1,651.5	1,795.8	1,850.8	2,194.0	2,415.6	2,700.4
Alcohol, Drug Abuse, & Mental Health Administration	118.9	128.8	121.4	128.7	155.4	165.2	179.7	191.5	241.1	286.6	384.7
Centers for Disease Control & Prevention	76.3	87.3	74.8	75.0	78.2	46.3	47.6	52.2	66.2	88.7	117.8
Food & Drug Administration	61.0	75.4	71.4	73.0	74.2	77.8	82.1	79.4	85.0	91.0	99.0
Health Care Financing Admin	31.8	45.7	38.6	29.1	30.2	33.1	33.5	29.0	27.3	28.2	49.1
Health Resources Admin	4.9	5.1	5.0	NA	NA	NA	NA	NA	NA	NA	NA
Hlth Resources & Svcs Admin	NA	NA	NA	6.1	10.2	15.4	17.3	11.2	8.0	9.0	9.3
Health Services Admin	8.2	6.0	6.4	NA	NA	NA	NA	NA	NA	NA	NA
Human Development Services	14.9	19.1	39.5	8.3	6.9	4.5	5.8	6.8	9.4	7.1	8.5
National Insts of Health	1,066.4	1,145.1	1,181.5	1,103.8	1,165.2	1,285.6	1,410.1	1,469.0	1,739.1	1,885.6	2,008.5
Office of the Assistant Secretary for Health	16.3	14.1	16.3	8.2	.0	.0	.0	.0	.0	.0	.0
Office of the Secretary	22.6	22.0	18.9	13.1	14.4	10.0	9.4	6.1	8.2	4.7	7.8
Social Security Admin	18.3	21.4	18.0	15.5	10.8	13.5	10.4	5.6	9.8	14.7	15.8
Dept of Housing & Urban Dvlpmt	23.8	19.6	16.7	10.3	11.3	6.3	6.5	5.3	5.5	6.3	6.1
Dept of the Interior, total	266.9	282.8	289.2	275.0	254.7	254.3	231.0	234.9	247.3	266.0	253.0
Bonneville Power Admin	.0	.0	6.1	NA	NA	NA	NA	NA	NA	NA	NA
Bureau of Land Management	1.1	1.3	1.5	2.4	2.0	1.8	2.8	2.1	2.1	2.2	2.0
Bureau of Mines	65.4	71.3	54.4	65.2	55.9	56.7	36.7	36.6	39.6	54.1	49.3
Bureau of Reclamation	11.3	12.7	13.3	8.9	8.7	8.8	10.9	9.6	10.1	3.6	3.5
Geological Survey	96.1	98.5	115.8	99.4	89.9	125.1	130.0	127.8	131.7	135.8	126.8
Minerals Management Service	NA	NA	NA	.0	1.5	1.5	1.4	1.1	1.0	1.2	2.2
National Park Service	8.9	8.2	10.4	11.2	13.7	14.0	15.0	17.3	18.5	19.4	19.4
Office of the Secretary	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0
Office of Surface Mining Reclamation & Enforcement	5.0	7.5	5.8	1.5	1.5	.8	2.0	2.3	1.0	1.0	.7
Office of Water Rsch & Tech	13.2	11.8	8.2	6.8	.8	3.2	NA	NA	NA	NA	NA
US Fish & Wildlife Service	65.9	71.4	73.9	79.6	80.6	42.3	32.2	38.1	43.3	48.7	49.1
Department of Justice, total	20.9	19.2	14.9	13.2	17.1	13.2	15.1	17.0	11.8	9.8	10.7
Bureau of Prisons	.5	.9	1.7	.9	1.3	1.2	1.1	2.7	2.2	2.1	2.1
Drug Enforcement Admin	.7	.8	.4	1.3	.9	.7	.5	.8	.7	.6	.5
Immigration & Naturalization Service	.1	.2	.1	.3	.3	.3	.2	.2	.2	.3	.1
Office of Justice Programs	18.0	16.1	12.0	10.3	14.4	11.0	13.0	13.2	8.6	6.8	8.0
Office of Legal Policy	1.6	1.3	.7	.4	.2	.0	.3	.2	.1	.0	.0
Department of Labor, total	39.8	32.6	54.5	10.6	12.7	11.2	9.1	8.7	19.0	26.4	21.8
Bureau of Labor Statistics	.9	.9	.3	.3	.7	.5	.6	.6	6.5	7.0	7.0
Employment Standards Admin	5.3	4.9	3.2	1.4	1.4	.9	-	.0	1.0	.1	.1
Employment & Training Admin	24.2	16.2	45.1	2.1	2.6	1.0	.3	2.6	4.0	6.5	5.7
Labor-Management Relations & Cooperative Programs	NA	NA	NA	NA	NA	.3	.3	.2	.3	.4	.3
Labor-Management Services Administration	2.7	2.8	1.8	.7	.9	NA	NA	NA	NA	NA	NA
Occupational Safety & Health Administration	5.1	6.3	3.0	4.9	5.3	5.1	4.5	3.6	4.1	4.2	4.5
Office of the Secretary	1.6	1.4	1.1	.9	1.5	1.9	1.7	1.3	1.8	5.2	2.5
Pension Benefit Guaranty Corp	NA	NA	.1	.3	.3	.3	.2	.1	.3	.3	.3
Pension & Welfare Benefits Administration	NA	NA	NA	NA	NA	1.2	1.6	.3	1.0	2.7	1.4
Department of State, total	2.6	2.0	1.6	1.5	1.5	1.6	1.5	1.5	.3	1.0	1.3
Departmental Funds	2.6	2.0	1.6	.0	.0	.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: fiscal years 1979-1989

[Dollars in millions]

Selected agency	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Dept of Transportation, total	67.0	82.4	87.4	65.7	71.7	74.2	70.2	67.6	68.6	91.2	120.5
Coast Guard	10.9	8.1	14.7	1.7	.8	7.2	5.4	3.5	3.7	5.4	4.6
Federal Aviation Admin	7.5	8.2	8.2	7.0	12.5	15.0	17.3	14.0	11.1	13.3	23.6
Federal Highway Admin	4.4	4.6	5.1	5.3	7.3	6.1	6.3	14.7	20.7	43.7	56.6
Federal Railroad Admin	7.5	7.9	6.2	3.1	2.8	12.3	11.4	12.5	10.4	8.2	7.5
Federal Transit Admin	1.1	8.9	9.3	19.4	18.3	1.0	.5	.0	.0	.0	.0
Maritime Administration	NA	NA	8.9	5.6	5.7	5.1	7.0	6.2	3.1	.5	.0
National Highway Traffic Safety Administration	30.0	38.6	29.4	21.3	21.4	24.7	20.9	16.1	18.9	19.1	26.2
Office of the Secretary	.6	.6	.7	.3	.3	.9	.9	.4	.4	.7	1.3
Research & Special Programs Administration	5.0	5.5	4.9	2.1	2.6	1.8	.5	.3	.2	.4	.7
Dept of the Treasury, total	4.5	4.0	2.9	5.9	6.7	6.6	13.6	12.7	12.7	11.1	13.0
Bureau of Alcohol, Tobacco, & Firearms	.7	.3	.1	NA	NA	NA	NA	NA	NA	NA	NA
Bureau of Engraving & Printing	.6	1.3	.9	2.8	1.4	1.4	3.1	2.7	2.7	1.1	.9
Internal Revenue Service	3.3	2.2	1.8	3.1	5.0	4.9	10.2	9.5	9.7	9.0	11.3
US Customs Service	.0	.1	.1	-	.0	.1	.1	.2	.2	.7	.4
United States Secret Service	NA	.0	.0	.0	.3	.1	.2	.2	.1	.3	.4
Department of Veterans Affairs	101.8	103.6	112.7	110.1	132.0	156.1	193.7	155.1	173.1	178.8	197.1
Other agencies:											
Advisory Commission on Intergovernmental Relations	1.7	2.2	2.2	2.0	2.1	2.1	2.4	2.1	1.9	1.8	1.1
Appalachian Regional Comm	.7	.6	.3	.3	.2	.4	.2	.2	.1	.2	.8
Community Services Admin	1.8	1.3	1.9	NA	NA	NA	NA	NA	NA	NA	NA
Consumer Product Safety Comm	1.8	1.6	.2	.1	.3	1.1	1.4	1.1	.6	.1	.5
Environmental Protection Agcy	248.9	231.5	207.8	210.7	152.4	142.3	176.0	179.3	246.1	240.7	222.6
Fed Communications Commission	2.9	3.4	1.8	1.2	1.3	.9	1.2	.9	1.0	1.2	1.1
Federal Emergency Management Agency, total	6.7	6.7	6.4	7.8	3.3	6.1	2.9	.0	.0	.0	.0
Federal Trade Commission	1.1	1.5	.2	.2	.2	.2	.3	.3	.5	.4	.4
General Services Admin	.1	.1	.4	.5	.2	.4	.3	.9	1.6	2.3	.5
International Development Cooperation Agency, total	66.9	79.7	86.4	127.9	152.6	164.0	158.1	180.7	151.2	132.1	216.0
Agcy for Internat'l Dvlpmt	66.9	79.7	86.4	127.9	152.6	164.0	158.1	180.7	151.2	132.1	216.0
Interstate Commerce Commission	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
Library of Congress	.5	.5	.7	.7	1.0	1.5	1.5	1.1	1.1	1.2	1.2
Nat'l Aero & Space Admin	938.4	1,050.5	876.0	871.4	927.8	954.7	1,032.7	1,152.3	1,255.5	1,218.9	1,461.4
Nat'l Archives & Records Administration	NA	NA	NA	NA	NA	NA	.1	.0	.3	.3	.1
National Science Foundation	66.8	58.4	58.9	57.1	62.9	70.5	83.8	78.1	99.3	99.6	107.8
Nuclear Regulatory Commission	148.8	182.7	219.7	220.3	207.3	190.7	150.0	123.8	122.5	108.5	114.8
Office of Personnel Management	1.4	2.6	3.4	.0	.0	.0	.0	.0	.0	.0	.0
Office of Thrift Supervision	.9	1.2	1.0	2.7	3.0	2.6	2.8	3.3	3.4	3.4	4.1
Tennessee Valley Authority	12.4	11.2	9.4	8.1	6.7	9.2	8.9	10.5	13.8	15.3	11.7
United States Arms Control & Disarmament Agency	2.7	3.0	1.6	1.3	.8	1.2	1.1	.9	.4	.8	1.2
US Information Agency	.1	.1	1.0	.0	-	1.4	.1	1.6	.0	.1	.0
US Internat'l Trade Comm	3.4	2.1	3.4	3.8	4.7	5.0	5.8	6.9	7.2	8.1	8.7

NOTES: Because of rounding, detail may not add to totals.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For notes associated with the agencies listed in this table, refer to appendix B.

KEY: - = Amount less than 50 thousand dollars
NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-100a. Federal obligations for applied research, by agency: fiscal years 1990-2000

[Dollars in millions]

Selected agency	1990	1991	1992	1993	1994	1995	1996	1997	1998	Preliminary 1999	Preliminary 2000
Total, all agencies	10,336.8	11,797.6	12,000.7	13,491.4	13,887.7	14,557.4	13,795.7	14,423.4	15,309.3	16,454.8	16,470.1
Departments:											
Dept of Agriculture, total	542.1	617.9	665.8	635.8	716.2	703.8	670.0	700.0	730.1	800.7	755.3
Agricultural Cooperative Svc	2.7	2.8	3.4	2.9	3.7	NA	NA	NA	NA	NA	NA
Agricultural Marketing Svc	1.7	3.7	4.1	4.1	4.2	4.2	4.2	4.2	4.0	4.0	4.3
Agricultural Research Svc	218.2	241.1	257.1	233.3	257.9	259.6	256.6	261.3	288.0	308.2	316.7
Cooperative State Research, Ed, & Extension Service	170.5	206.4	228.6	226.2	234.3	231.7	213.7	243.6	223.0	278.5	231.6
Economic Research Service	43.5	46.8	50.6	48.3	45.3	48.4	47.7	47.7	64.4	58.5	50.1
Food Safety Inspection Svc	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Foreign Agricultural Svc	.0	.0	.0	.0	.4	.4	.4	.5	.5	.5	.5
Forest Service	93.5	103.6	106.9	107.8	156.5	154.8	143.0	137.4	143.0	144.8	144.8
Grain Inspection Packers & Stockyards Administration	.2	.7	1.5	1.8	1.8	.3	.5	.6	.5	.5	.7
Human Nutrition Info Svc	9.0	9.9	10.7	8.4	7.0	NA	NA	NA	NA	NA	NA
Nat'l Agri Statistics Svc	1.9	2.2	2.4	2.6	2.6	2.7	2.5	2.3	2.2	2.2	2.2
Office of International Cooperation & Development	.9	.7	.4	.4	.0	NA	NA	NA	NA	NA	NA
Rural Business-Coop Svc	NA	NA	NA	NA	2.4	1.6	1.4	2.5	4.4	3.5	4.5
Department of Commerce, total	345.6	415.4	561.4	544.9	678.2	853.1	813.1	768.8	767.4	836.3	815.0
Bureau of the Census	2.1	2.3	2.4	2.9	2.5	2.6	1.6	2.4	4.6	8.8	4.5
Economic Development Admin	1.2	1.4	.5	.0	.6	.5	.6	.6	.6	.6	.6
National Institute of Standards & Technology	83.2	92.5	115.8	136.4	167.5	333.1	318.2	293.3	266.7	289.6	299.3
National Oceanic & Atmospheric Administration	252.4	315.6	438.7	401.4	502.7	510.4	480.8	468.8	491.7	533.4	504.5
National Telecommunications & Information Administration	6.8	3.6	4.0	4.2	4.8	6.4	11.9	3.8	3.8	3.9	6.2
Office of the Secretary	.0	.0	.0	.0	.0	-	-	.0	.0	.0	.0
Department of Defense, total	2,581.6	2,723.8	2,974.5	3,515.2	3,040.0	2,950.1	2,857.6	2,786.9	2,939.1	3,111.7	3,001.1
Department of the Air Force	579.3	621.2	584.7	669.1	571.9	627.7	654.4	628.5	551.3	557.3	513.8
Department of the Army	595.2	671.9	727.8	802.8	639.3	633.3	475.3	531.7	635.9	699.3	582.3
Department of the Navy	442.6	486.0	499.0	574.1	447.0	470.5	516.8	538.5	493.2	551.0	526.4
Defense Agencies	964.6	944.7	1,162.9	1,469.2	1,381.7	1,218.6	1,211.1	1,088.2	1,258.7	1,304.0	1,378.6
Department of Education	125.3	123.1	119.5	128.3	131.2	132.8	132.1	135.0	146.7	151.9	170.9
Department of Energy	1,065.7	1,587.2	1,676.1	1,685.4	1,679.2	1,825.6	1,432.5	1,596.8	1,758.7	1,900.1	2,087.5
Department of Health & Human Services, total	2,818.1	3,112.4	2,886.8	3,495.9	3,852.5	4,014.9	4,041.3	4,376.3	4,663.1	5,268.7	5,511.4
Administration on Aging	NA	2.9	2.5	2.7	3.5	3.0	.2	.2	2.4	1.2	1.1
Administration for Children & Families	NA	13.5	34.3	18.5	10.4	11.2	12.6	17.4	23.5	18.8	28.0
Agency for Health Care Policy & Research	44.2	93.0	97.8	105.6	141.2	124.0	116.0	134.1	138.8	160.9	197.3
Alcohol, Drug Abuse, & Mental Health Administration	415.0	463.9	NA	NA	NA	NA	NA	NA	NA	NA	NA
Centers for Disease Control & Prevention	95.6	113.4	146.9	162.5	206.8	317.4	296.7	323.0	343.6	382.6	468.6
Food & Drug Administration	99.0	125.0	135.7	154.5	169.4	170.5	170.8	158.6	142.9	141.2	151.7
Health Care Financing Admin	49.1	69.1	75.5	68.2	80.0	74.5	52.7	43.6	51.2	50.0	55.0
Hlth Resources & Svcs Admin	10.7	9.5	8.8	8.5	9.8	11.2	10.1	12.1	11.9	11.9	11.9
Human Development Services	7.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
National Insts of Health	2,074.1	2,193.5	2,341.3	2,942.9	3,197.4	3,273.6	3,373.3	3,669.0	3,934.9	4,488.2	4,583.7
Office of the Assistant Secretary for Health	5.8	9.6	6.0	.0	.0	.0	NA	NA	NA	NA	NA
Off of the Secretary, total	5.0	8.8	5.0	8.0	11.7	9.1	9.0	18.4	13.9	14.0	14.0
Office of the Assistant Sec, Planning & Eval	NA	NA	NA	NA	NA	NA	9.0	18.4	13.9	14.0	14.0
Social Security Admin	11.8	10.2	33.0	24.5	22.2	20.4	NA	NA	NA	NA	NA

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

Table C-100a. Federal obligations for applied research, by agency: fiscal years 1990-2000

[Dollars in millions]

Selected agency	1990	1991	1992	1993	1994	1995	1996	1997	1998	Preliminary	
										1999	2000
Dept of Housing & Urban Dvlpmt	6.6	9.4	8.8	8.1	13.7	14.2	11.2	11.3	9.2	21.3	18.1
Dept of the Interior, total	269.8	324.1	339.7	349.8	566.9	477.3	486.0	496.2	454.1	483.1	500.2
Bureau of Land Management	2.1	4.8	5.3	7.4	.0	.0	.0	.0	.0	.0	.0
Bureau of Mines	49.3	56.2	59.2	60.4	70.0	.0	NA	NA	NA	NA	NA
Bureau of Reclamation	5.2	7.7	10.7	7.4	5.5	6.0	4.9	5.4	6.6	6.1	7.4
Geological Survey	134.2	159.3	164.3	165.9	311.9	306.2	439.5	444.8	389.0	418.8	432.9
Minerals Management Service	1.9	2.7	3.8	5.8	20.6	20.0	21.9	20.6	29.3	29.1	28.6
Nat'l Biological Svc	NA	NA	NA	.0	135.4	125.8	NA	NA	NA	NA	NA
National Park Service	20.1	27.5	31.1	37.5	23.6	19.2	19.7	25.5	29.2	29.2	31.3
Office of the Secretary	.0	.1	.2	.2	.0	.0	.0	.0	.0	.0	.0
Office of Surface Mining Reclamation & Enforcement	.7	1.0	.3	.5	.0	.0	.0	.0	.0	.0	.0
US Fish & Wildlife Service	56.4	64.8	64.8	64.8	.0	.0	.0	.0	.0	.0	.0
Department of Justice, total	11.1	14.7	15.0	20.5	20.0	17.7	19.5	20.1	26.0	29.4	9.8
Bureau of Prisons	1.8	1.9	2.5	2.5	2.1	3.2	3.1	1.9	4.3	4.0	4.0
Drug Enforcement Admin	.4	.9	.1	-	.1	.0	-	-	.0	.0	.0
Immigration & Naturalization Service	.4	.4	.4	.4	.4	.4	.2	.4	.0	.0	.0
Office of Justice Programs	8.5	11.5	12.0	17.6	17.4	14.1	16.1	17.8	21.7	25.5	5.8
Department of Labor, total	21.3	24.0	23.6	13.4	13.7	16.6	15.2	10.4	11.0	10.3	11.0
Bureau of Labor Statistics	7.3	7.5	7.6	1.5	1.5	1.5	1.8	1.3	1.3	1.3	1.3
Employment Standards Admin	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Employment & Training Admin	5.7	6.3	5.4	3.3	2.9	4.2	2.6	1.5	2.2	2.0	1.3
Occupational Safety & Health Administration	2.5	2.6	3.1	2.5	3.3	4.4	6.6	5.5	4.6	5.0	5.3
Office of the Secretary	3.3	4.7	4.1	2.9	3.1	2.9	1.8	.1	.1	.1	.1
Pension Benefit Guaranty Corp	.3	.4	.8	.7	.3	.1	.1	.1	.1	.1	.1
Pension & Welfare Benefits Administration	2.1	2.5	2.6	2.6	2.7	3.6	2.3	2.0	2.7	1.8	3.0
Department of State[1]	1.2	1.3	.7	.5	.4	.5	.9	1.0	.9	1.0	1.0
Dept of Transportation, total	119.2	114.6	155.7	224.4	270.4	323.9	336.7	343.7	366.1	450.6	607.9
Coast Guard	5.1	6.4	5.0	8.2	5.6	4.9	5.0	5.7	5.1	4.5	5.7
Federal Aviation Admin	26.1	24.0	30.1	59.8	79.5	83.3	130.6	159.4	151.6	150.0	173.0
Federal Highway Admin	57.6	46.1	72.0	90.1	131.2	156.3	135.4	111.6	134.6	210.7	338.4
Federal Railroad Admin	8.5	13.2	18.9	20.9	16.1	22.5	21.3	18.2	21.2	25.1	23.6
Federal Transit Admin	.0	.0	.0	10.9	7.8	10.9	5.6	6.0	7.4	4.1	4.1
Maritime Administration	.9	1.7	1.8	1.7	1.7	2.5	.0	.0	.0	.0	.0
National Highway Traffic Safety Administration	16.9	21.4	25.8	31.6	25.3	39.7	33.2	36.4	41.6	50.4	58.7
Office of the Secretary	1.7	.6	.7	.6	.6	.6	.0	.0	.0	.0	.0
Research & Special Programs Administration	2.4	1.4	1.4	.5	2.6	3.2	5.6	6.3	4.6	5.9	4.5
Dept of the Treasury, total	15.3	20.6	17.2	4.6	9.2	48.9	50.4	50.8	52.5	60.7	74.8
Bureau of Engraving & Printing	1.4	2.7	1.8	3.2	1.6	1.3	1.5	1.6	2.6	2.2	2.3
Internal Revenue Service	13.1	13.9	13.9	.0	6.1	45.8	47.5	47.9	47.9	55.5	70.2
Off of Thrift Supervision	.0	3.0	.8	.7	.5	.6	.5	.6	.7	.8	.9
US Customs Service	.4	.5	.2	.1	.5	.7	.5	.4	.8	1.7	.9
United States Secret Service	.5	.4	.5	.6	.5	.5	.5	.4	.5	.5	.6
Department of Veterans Affairs	199.4	177.7	185.2	194.1	209.1	206.4	222.8	217.4	149.1	171.3	169.5

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

Table C-100a. Federal obligations for applied research, by agency: fiscal years 1990-2000

[Dollars in millions]

Selected agency	1990	1991	1992	1993	1994	1995	1996	1997	1998	Preliminary	
										1999	2000
Other agencies:											
Advisory Commission on Intergovernmental Relations	1.5	1.7	1.7	2.1	1.4	1.4	NA	NA	NA	NA	NA
Appalachian Regional Comm	.4	.7	1.9	.9	.9	.9	.9	.9	.7	.7	.8
Consumer Product Safety Comm	.4	.9	.8	.8	.1	.0	.0	.1	.0	.0	1.2
Environmental Protection Agcy	241.6	261.9	293.9	272.4	301.0	331.3	329.1	358.0	419.8	387.2	368.1
Fed Communications Commission	1.3	1.4	1.6	1.6	1.7	2.3	2.8	3.1	3.0	4.2	2.7
Federal Trade Commission	.5	1.0	1.3	.9	.7	.6	.5	.7	1.1	1.1	1.4
General Services Admin	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
International Development Cooperation Agency, total	300.2	351.7	294.2	350.8	214.4	270.4	203.0	176.5	171.1	163.2	143.5
Agcy for International Development[2]	300.2	351.7	294.2	350.8	214.4	270.4	203.0	176.5	171.1	163.2	143.5
Library of Congress	1.2	1.3	1.4	1.4	1.5	1.6	1.6	.5	.5	.6	.6
Nat'l Aero & Space Admin	1,423.8	1,665.6	1,491.1	1,748.6	1,876.7	2,067.9	1,897.1	2,090.1	2,389.9	2,310.6	1,943.2
Nat'l Archives & Records Admin	.1	.3	.1	.1	.1	.1	.1	.1	.1	.1	.1
National Science Foundation	103.3	109.0	126.9	138.1	169.7	176.0	181.0	191.8	170.7	180.2	184.5
Nuclear Regulatory Commission	108.8	108.8	119.0	119.8	90.7	88.2	70.9	62.1	51.7	49.2	46.6
Office of Thrift Supervision	4.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Social Security Admin	NA	NA	NA	NA	NA	NA	11.5	13.6	17.4	53.7	36.9
Tennessee Valley Authority	17.0	16.9	22.2	18.1	17.0	17.4	3.9	4.0	.8	.0	.0
United States Arms Control & Disarmament Agency[1]	.2	.4	2.1	1.5	1.3	1.1	.7	1.2	1.2	.1	.0
US Information Agency	.5	.1	.0	1.1	.6	.3	.1	.2	.3	.1	.1
US Internat'l Trade Comm	9.1	9.9	12.3	12.2	9.4	12.2	3.2	5.7	7.2	6.9	7.1

1 Effective April 1, 1999, all functions and authorities of the United States Arms Control & Disarmament Agency were transferred to the Department of State.

2 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 (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-1996). More accurate data for AID will be reported in future volumes of this survey.

NOTES: Because of rounding, detail may not add to totals.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: - = Amount less than 50 thousand dollars
NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-101. Federal obligations for development, by agency: fiscal years 1979-1989

[Dollars in millions]

Selected agency	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total, all agencies	17,610.1	18,233.1	20,891.1	23,410.4	24,458.0	27,246.1	32,226.1	34,910.2	37,313.2	38,119.3	40,641.0
Departments:											
Dept of Agriculture, total	31.1	30.2	33.0	30.8	30.0	31.3	32.0	32.1	29.0	31.4	36.1
Agricultural Marketing Svc	.5	.3	.2	.2	.3	.3	.3	.3	.3	.3	.3
Agricultural Research Svc	NA	NA	26.2	25.8	25.5	27.0	27.7	27.4	24.0	26.3	31.4
Forest Service	5.0	5.5	6.2	4.5	3.8	3.3	3.3	3.6	3.8	4.0	3.9
Grain Inspection Packers & Stockyards Administration	.0	.0	.0	.0	.0	.0	.2	.3	.5	.4	.3
Office of International Cooperation & Development	.0	.4	.3	.2	.4	.7	.4	.3	.3	.2	.1
Office of Transportation	.7	.8	.1	.1	.1	.1	.2	.1	.1	.1	NA
Science & Ed Admin, total	24.9	23.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Agricultural Research Svc	24.9	23.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Department of Commerce, total	89.9	88.1	78.6	60.2	50.2	61.5	74.6	59.7	63.7	46.6	46.9
Bureau of the Census	1.2	1.2	.9	1.9	2.1	2.1	2.4	2.1	1.9	1.9	2.0
Economic Development Admin	34.6	29.8	26.3	8.0	.0	.0	11.0	8.0	.0	.0	.0
Maritime Administration	7.4	7.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
National Institute of Standards & Technology	16.0	17.3	16.3	14.9	13.6	11.8	14.0	11.6	9.3	9.1	10.0
National Oceanic & Atmospheric Administration	28.5	30.9	32.9	33.5	33.1	46.6	45.4	37.2	51.7	34.8	34.1
National Telecommunications & Information Administration	1.7	1.1	1.1	1.2	1.4	.9	1.2	.8	.8	.8	.9
Office of the Secretary	.0	-	.0	.0	-	.1	.6	.0	.0	.0	.0
Patent & Trademark Office	.5	.5	1.1	.7	.0	.0	.0	.0	.0	.0	.0
Department of Defense, total	10,492.1	11,719.2	13,907.7	17,669.8	19,770.1	22,324.3	26,623.2	29,710.7	31,884.0	32,009.7	33,920.8
Department of the Air Force	4,033.4	4,673.7	6,351.9	8,724.0	10,124.2	11,351.5	12,524.3	12,834.8	14,562.9	14,094.2	14,430.0
Department of the Army	2,320.1	2,500.7	2,707.7	3,121.3	3,304.5	3,516.8	3,747.4	3,982.1	4,109.6	4,052.3	4,835.9
Department of the Navy	3,767.7	4,095.0	4,308.0	5,066.4	5,241.2	6,840.2	8,336.1	8,865.9	8,721.1	8,766.2	8,882.9
Defense Agencies	341.7	411.9	499.1	717.1	1,038.7	557.3	1,964.8	3,910.7	4,353.5	4,868.4	5,616.8
Operational Test & Evaluation, Director	NA	NA	NA	NA	NA	NA	NA	.0	8.4	68.2	14.4
Test & Evaluation, Deputy Under Secretary of Defense	29.3	37.9	41.1	41.0	61.6	58.6	50.6	117.1	128.5	160.3	140.7
Department of Education	72.9	51.8	51.1	57.5	35.6	34.8	33.0	25.5	25.6	29.7	37.2
Department of Energy	3,506.9	3,476.4	3,504.6	3,012.1	2,575.6	2,648.7	2,825.0	2,648.0	2,659.4	2,801.0	2,760.9

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

Table C-101. Federal obligations for development, by agency: fiscal years 1979-1989

[Dollars in millions]

Selected agency	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Department of Health & Human Services, total	489.2	447.4	434.9	335.2	331.7	364.7	422.7	468.0	584.3	661.1	814.4
Alcohol, Drug Abuse, & Mental Health Administration	.7	.0	1.8	2.1	1.8	1.2	1.1	1.2	2.2	2.4	3.0
Hlth Resources & Svcs Admin	NA	NA	NA	3.4	2.3	2.3	1.5	.0	.0	.0	.0
Health Services Admin	18.5	18.7	10.1	NA	NA	NA	NA	NA	NA	NA	NA
Human Development Services	42.2	30.1	33.8	18.5	16.6	13.8	18.5	47.8	43.6	46.8	93.2
National Insts of Health	423.0	394.4	384.9	308.7	311.0	347.0	399.6	417.5	536.2	610.2	716.5
Office of the Assistant Secretary for Health	4.7	4.2	4.3	2.2	.0	.0	1.7	1.5	2.3	1.6	1.7
Office of the Secretary	.0	.0	.0	.3	.0	.4	.2	.0	.0	.0	.0
Dept of Housing & Urban Dvlpmt	44.1	36.4	31.4	18.5	20.8	11.9	12.0	10.1	10.8	12.1	11.9
Dept of the Interior, total	66.3	56.8	57.3	29.6	24.8	30.7	22.4	17.3	21.7	24.3	27.1
Bonneville Power Admin	.0	.0	7.7	NA	NA	NA	NA	NA	NA	NA	NA
Bureau of Land Management	.2	.3	.4	2.9	1.9	2.0	1.6	1.3	1.6	1.5	1.0
Bureau of Mines	41.9	30.6	28.7	13.6	9.2	11.6	3.3	2.8	3.6	5.2	5.4
Bureau of Reclamation	.8	1.2	.9	1.1	1.2	1.4	2.0	.5	.5	.7	.6
Geological Survey	.5	.5	.5	.5	2.3	4.9	4.4	7.4	10.3	10.9	12.9
Office of the Secretary	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.4
Office of Water Rsch & Tech	9.4	10.9	5.3	1.3	1.0	.0	NA	NA	NA	NA	NA
US Fish & Wildlife Service	13.5	13.4	13.7	10.3	9.2	10.8	11.1	5.3	5.7	5.7	6.7
Department of Justice, total	14.1	12.7	7.0	10.4	10.7	6.6	16.7	14.1	22.5	25.7	20.6
Bureau of Prisons	2.9	1.3	.9	.7	.4	.4	.4	.3	4.9	3.9	3.0
Drug Enforcement Admin	1.7	1.9	.9	1.9	1.6	1.2	1.1	1.7	1.5	1.9	2.2
Fed Bureau of Investigation	3.1	1.4	.7	2.7	2.5	1.0	9.5	7.2	8.0	12.7	7.7
Immigration & Naturalization Service	.1	.2	.1	.4	.3	.3	.2	.2	.2	.0	.0
Office of Justice Programs	6.3	7.5	4.4	4.6	5.8	3.8	5.5	4.7	7.9	7.1	7.8
Office of Legal Policy	-	.5	.1	-	.1	.0	.0	.0	.0	.0	.0
Department of Labor, total	94.9	101.6	4.0	8.3	1.9	.0	.9	.9	1.2	8.9	13.3
Employment & Training Admin	94.9	101.6	3.6	7.4	1.1	.0	.0	.0	.3	8.0	9.7
Office of the Secretary	.0	.0	.0	.0	.0	.0	.9	.9	.9	.9	3.6
Pension Benefit Guaranty Corp	NA	NA	.4	.8	.8	.0	.0	.0	.0	.0	.0
Department of State, total	.5	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0
Departmental Funds	.5	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0

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

Table C-101. Federal obligations for development, by agency: fiscal years 1979-1989

[Dollars in millions]

Selected agency	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Dept of Transportation, total	303.1	278.8	327.0	243.4	275.1	370.6	357.6	317.3	256.2	213.4	182.9
Coast Guard	10.2	9.9	11.3	18.3	18.4	12.2	13.6	13.4	13.3	15.7	13.3
Federal Aviation Admin	103.0	94.9	111.8	87.3	113.7	251.2	269.0	246.6	156.2	147.3	123.2
Federal Highway Admin	48.5	46.5	46.1	35.0	43.1	40.3	42.6	30.8	56.0	30.4	34.4
Federal Railroad Admin	36.7	38.3	30.4	15.1	13.7	6.9	3.6	2.9	.8	1.8	1.5
Federal Transit Admin	56.9	45.5	68.9	42.0	38.6	19.1	9.7	8.2	12.6	2.3	1.4
Maritime Administration	NA	NA	4.7	4.5	8.8	1.3	5.9	2.6	2.5	.0	.0
National Highway Traffic Safety Administration	26.6	24.9	36.5	34.1	30.6	32.2	7.2	6.3	9.0	9.2	3.5
Office of the Secretary	11.1	10.2	9.4	3.0	4.6	4.0	3.9	4.7	4.1	5.0	4.2
Research & Special Programs Administration	10.0	8.5	7.9	4.0	3.6	3.5	2.2	1.7	1.8	1.7	1.3
Dept of the Treasury, total	4.8	6.3	6.1	5.2	5.4	3.3	6.0	6.3	9.5	10.2	9.3
Bureau of Alcohol, Tobacco, & Firearms	1.9	1.2	.2	NA	NA	NA	NA	NA	NA	NA	NA
Bureau of Engraving & Printing	1.5	1.0	1.8	2.0	1.9	1.3	1.6	1.1	1.7	.8	.3
Internal Revenue Service	.1	.1	-	.1	.1	.2	1.3	.2	.4	.7	.3
US Customs Service	1.3	3.7	3.4	3.1	3.3	1.7	2.1	4.6	6.8	8.5	6.4
United States Mint	.0	.0	.0	.0	.0	.0	.6	.3	.2	.1	2.0
United States Secret Service	NA	.4	.6	.0	-	.1	.5	-	.3	.0	.2
Department of Veterans Affairs	15.6	15.5	16.7	14.3	15.3	18.4	17.5	16.3	19.2	19.2	21.0
Other agencies:											
ACTION	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Appalachian Regional Comm	.2	.2	.1	.1	.0	.1	.0	.0	.0	.0	.0
Community Services Admin	18.9	29.1	16.4	NA	NA	NA	NA	NA	NA	NA	NA
Consumer Product Safety Comm	2.1	1.9	.3	.1	.2	.2	1.0	.9	1.6	.9	.8
Environmental Protection Agcy	151.1	99.9	107.4	91.7	66.1	89.2	105.8	99.5	71.0	79.5	107.0
Federal Emergency Management Agency, total	2.9	2.5	2.5	.0	.0	5.4	1.2	.0	.0	.0	.0
General Services Admin	.3	.1	.2	.5	.3	2.0	.0	.3	.0	.0	.0
International Development Cooperation Agency, total	39.6	69.7	47.8	72.0	70.6	70.3	60.5	66.2	63.5	69.3	60.0
Agcy for Internat'l Dvlpmt	39.6	69.7	47.8	72.0	70.6	70.3	60.5	66.2	63.5	69.3	60.0
Library of Congress	5.3	6.3	4.0	4.9	6.0	5.4	5.0	5.0	5.0	5.5	6.4
Nat'l Aero & Space Admin	2,127.2	1,624.4	2,186.0	1,670.7	1,116.8	1,112.7	1,543.6	1,350.8	1,517.8	1,998.8	2,514.7
Nat'l Archives & Records Administration	NA	NA	NA	NA	NA	NA	.3	1.0	.4	.2	.1
National Science Foundation	7.9	8.1	6.1	2.2	.0	.0	.0	.0	.0	.0	.0
Office of Personnel Management	4.6	4.2	5.0	.0	.0	.0	.0	.0	.0	.0	.0
Tennessee Valley Authority	21.9	64.3	54.7	72.3	50.7	53.8	65.1	59.8	60.2	68.8	48.0
United States Arms Control & Disarmament Agency	.8	.8	.8	.6	.1	.2	.0	.1	3.2	2.6	1.6
US Information Agency	-	-	.3	.1	.0	.0	.0	.4	3.5	.3	.1

NOTES: Because of rounding, detail may not add to totals.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For notes associated with the agencies listed in this table, refer to appendix B.

Beginning with Vol. 44, Department of Defense development obligations are reported in two categories: advanced technology and major systems.

KEY: - = Amount less than 50 thousand dollars
NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-101a. Federal obligations for development, by agency: fiscal years 1990-2000

[Dollars in millions]

Selected agency	1990	1991	1992	1993	1994	1995	1996	1997	1998	Preliminary	
										1999	2000
Total, all agencies	41,937.1	37,326.8	41,102.0	40,423.5	39,824.2	39,752.4	39,393.3	40,461.5	40,981.0	41,529.6	40,424.8
Departments:											
Dept of Agriculture, total	47.1	61.2	66.1	76.1	77.4	81.4	80.3	98.5	107.1	120.8	123.5
Agricultural Marketing Svc	.4	.5	.6	.6	.6	.6	.6	.6	.7	.7	.7
Agricultural Research Svc	33.3	40.2	43.9	52.8	54.3	54.7	54.0	61.9	68.2	75.0	77.0
Animal & Plant Health Inspection Service	8.0	15.7	16.7	17.1	19.2	19.1	18.0	19.8	20.5	20.0	20.0
Food Safety Inspection Svc	.0	.0	.0	.0	.0	.0	-	-	.1	.1	.1
Foreign Agricultural Svc	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Forest Service	4.8	4.5	4.9	5.5	3.3	5.8	5.6	13.9	15.5	22.9	22.9
Grain Inspection Packers & Stockyards Administration	.4	.1	.0	.0	.0	1.2	2.0	2.2	2.2	2.2	2.7
Office of International Cooperation & Development	.2	.2	.0	.0	.0	NA	NA	NA	NA	NA	NA
Department of Commerce, total	61.2	39.9	55.3	74.2	107.8	243.7	216.9	195.1	141.6	162.6	166.2
Bureau of the Census	2.0	1.9	2.0	2.1	2.0	1.9	3.8	1.7	3.4	6.5	3.3
National Institute of Standards & Technology	10.5	15.6	29.6	34.3	45.9	191.2	161.6	128.9	89.0	113.8	119.6
National Oceanic & Atmospheric Administration	47.7	22.4	23.7	37.8	59.9	50.6	47.7	40.5	27.4	22.1	23.3
National Telecommunications & Information Administration	.9	.0	.0	.0	.0	.0	3.8	24.0	21.8	20.3	20.1
Department of Defense, total	33,738.9	28,416.9	32,056.1	31,065.7	30,312.6	29,597.9	30,539.9	30,978.4	31,316.3	31,495.0	30,325.0
Department of the Air Force	14,055.1	10,107.1	12,636.6	11,747.5	11,713.1	10,963.4	12,159.8	13,135.0	13,102.2	12,771.1	13,636.9
Department of the Army	4,903.8	5,221.0	5,921.5	5,190.5	4,721.5	4,567.2	4,203.2	4,111.1	4,219.9	4,303.0	3,729.3
Department of the Navy	8,778.6	6,932.0	7,138.0	8,106.8	8,081.9	8,083.3	7,712.9	7,329.8	7,334.1	7,809.4	7,312.4
Operational Test & Evaluation, Director	32.6	13.6	12.4	12.3	11.2	21.7	21.9	26.6	30.3	31.8	25.4
Test & Evaluation, Deputy Under Secretary of Defense	188.7	223.7	233.2	242.5	231.8	231.0	257.7	269.7	242.0	236.6	253.1
Department of Education	39.7	39.4	41.5	44.1	39.9	39.3	38.2	43.2	55.7	67.9	99.2
Department of Energy	3,060.1	2,709.5	2,759.7	2,821.9	2,765.5	2,685.0	1,982.8	2,035.8	2,086.3	2,369.0	2,145.0
Department of Health & Human Services, total	938.5	1,593.5	1,042.3	1,156.6	1,285.1	1,379.3	1,405.2	1,557.2	1,685.8	1,932.3	2,047.2
Administration on Aging	NA	17.7	17.8	18.2	15.6	17.7	3.5	4.3	8.0	17.3	17.3
Administration for Children & Families	NA	115.5	4.8	1.4	.9	.8	.0	.0	.0	.0	.0
Agency for Health Care Policy & Research	5.5	8.1	8.5	9.2	12.4	11.3	9.2	9.9	7.7	10.1	9.0
Alcohol, Drug Abuse, & Mental Health Administration	41.5	537.6	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hlth Resources & Svcs Admin	.0	.0	.0	.0	5.8	1.0	.0	.0	.0	.0	.0
Human Development Services	87.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
National Insts of Health	800.7	912.5	1,010.5	1,126.6	1,249.6	1,348.2	1,374.1	1,473.3	1,591.0	1,825.2	1,936.4
Office of the Assistant Secretary for Health	1.1	.4	.7	1.2	.8	.3	NA	NA	NA	NA	NA
Office of the Secretary, total	.0	.0	.0	.0	.0	.0	1.7	.6	3.1	3.7	4.5
Office of Public Health & Science	NA	NA	NA	NA	NA	NA	1.7	.6	3.1	3.7	4.5
Social Security Admin	2.1	1.7	.0	.0	.0	.0	NA	NA	NA	NA	NA
Substance Abuse & Mental Health Services Admin[1]	NA	NA	NA	NA	NA	NA	16.7	69.1	76.0	76.0	80.0

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

Table C-101a. Federal obligations for development, by agency: fiscal years 1990-2000

[Dollars in millions]

Selected agency	1990	1991	1992	1993	1994	1995	1996	1997	1998	Preliminary	
										1999	2000
Dept of Housing & Urban Dvlpmt	12.7	18.4	16.3	15.5	25.9	27.7	22.0	22.2	18.8	38.1	32.6
Dept of the Interior, total	33.3	39.5	38.6	39.0	43.9	29.2	25.5	27.2	29.1	30.1	32.6
Bureau of Land Management	.7	2.8	.4	.9	.0	.0	.0	.0	.0	.0	.0
Bureau of Mines	9.4	7.1	4.2	6.9	12.5	.0	NA	NA	NA	NA	NA
Bureau of Reclamation	.5	.9	2.5	2.8	1.8	2.0	1.6	1.7	2.2	2.0	2.5
Geological Survey	15.1	18.2	16.9	12.8	15.7	14.1	23.8	25.5	26.9	28.1	30.1
Nat'l Biological Svc	NA	NA	NA	.0	13.8	13.0	NA	NA	NA	NA	NA
Office of the Secretary	.2	.5	.7	.2	.1	-	.0	.0	.0	.0	.0
US Fish & Wildlife Service	7.4	10.0	13.9	15.3	.0	.0	.0	.0	.0	.0	.0
Department of Justice, total	20.6	27.8	27.7	23.3	19.2	32.1	45.2	52.3	58.6	60.6	56.8
Bureau of Prisons	2.7	3.3	3.4	3.6	3.3	2.5	2.2	2.7	3.8	3.9	4.0
Drug Enforcement Admin	2.0	1.8	1.3	.8	.8	.4	1.2	-	.0	.0	.0
Fed Bureau of Investigation	8.2	10.8	10.9	11.3	7.0	10.9	33.5	35.5	35.8	36.2	36.2
Immigration & Naturalization Service	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5
Office of Justice Programs	7.7	11.9	12.1	7.5	8.1	18.3	8.5	14.0	19.0	20.1	16.1
Department of Labor, total	51.4	19.7	27.9	36.1	40.1	25.5	25.8	13.3	5.7	5.3	3.8
Employment & Training Admin	47.4	15.5	26.1	32.5	36.9	21.4	24.3	12.6	5.0	4.6	3.0
Office of the Secretary	3.8	4.0	1.7	3.0	2.2	3.4	.8	.1	.1	.1	.1
Pension Benefit Guaranty Corp ...	.2	.2	.1	.6	1.0	.7	.6	.6	.6	.6	.6
Dept of Transportation, total	247.4	265.3	288.1	319.3	347.4	356.2	177.3	145.7	165.1	211.6	254.2
Coast Guard	15.2	19.2	15.0	24.7	16.7	14.8	15.0	17.2	15.3	13.5	17.0
Federal Aviation Admin	189.9	196.2	206.1	189.1	206.1	205.1	77.7	49.7	76.4	61.3	60.7
Federal Highway Admin	33.8	40.8	57.0	83.1	101.5	109.4	66.1	61.1	57.7	105.0	153.6
Federal Railroad Admin	1.7	2.7	3.9	4.3	3.4	4.0	5.4	.7	.3	.3	.3
Federal Transit Admin	1.6	1.7	1.7	13.3	12.1	17.9	8.1	11.1	10.2	18.1	15.1
Office of the Secretary	5.1	3.7	3.4	3.9	4.9	3.3	2.8	3.5	3.4	9.6	4.5
Research & Special Programs Administration	.0	1.0	1.1	.8	2.7	1.8	2.1	2.4	1.7	3.8	3.1
Dept of the Treasury, total	6.9	6.7	3.8	5.5	9.8	12.4	9.5	8.8	12.5	11.3	11.4
Bureau of Engraving & Printing	.7	.8	.2	.0	.1	.5	.1	.1	.1	.1	.1
Financial Crimes Enforcement Network	.0	2.3	1.2	1.5	.0	.0	.0	.0	.0	.0	.0
Internal Revenue Service	.3	.4	.4	.0	5.2	3.9	3.7	3.0	4.1	3.3	3.4
US Customs Service	5.8	3.2	2.0	3.9	4.0	7.7	5.7	5.8	8.3	7.2	7.4
United States Mint	.1	.1	.0	.1	.5	.3	.0	-	.1	.7	.5
Department of Veterans Affairs	22.1	22.8	23.0	28.7	24.5	19.1	20.8	21.7	8.0	9.3	9.0

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

Table C-101a. Federal obligations for development, by agency: fiscal years 1990-2000

[Dollars in millions]

Selected agency	1990	1991	1992	1993	1994	1995	1996	1997	1998	Preliminary	
										1999	2000
Other agencies:											
Consumer Product Safety Comm	.7	.4	.3	.4	.2	.4	-	.0	.0	.1	.1
Environmental Protection Agcy	104.5	79.5	79.6	133.7	151.2	149.9	83.5	83.1	94.0	93.0	88.0
International Development Cooperation Agency, total	29.3	20.4	65.9	23.0	38.1	29.8	18.0	29.7	39.1	46.0	50.5
Agcy for International Development[2]	29.3	20.4	65.9	23.0	38.1	29.8	18.0	29.7	39.1	46.0	50.5
Library of Congress	7.0	7.3	8.5	8.7	8.1	8.0	8.4	1.9	1.1	1.5	1.2
Nat'l Aero & Space Admin	3,472.6	3,909.1	4,428.3	4,471.1	4,455.7	4,968.9	4,692.1	5,142.4	5,154.4	4,874.9	4,978.3
Nat'l Archives & Records Admin	.1	.1	.1	-	.0	.0	.0	.0	.0	.0	.0
Tennessee Valley Authority	43.2	49.5	72.9	80.6	71.9	66.7	1.9	4.9	1.8	.0	.0

[1] Data for fiscal years 1998-2000 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.

[2] 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 (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-1996). More accurate data for AID will be reported in future volumes of this survey.

NOTES: Because of rounding, detail may not add to totals.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

Beginning with Vol. 44, Department of Defense development obligations are reported in two categories: advanced technology and major systems.

KEY: - = Amount less than 50 thousand dollars
NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-102. Federal obligations for research and development, by performer: fiscal years 1979-1989

[Dollars in millions]

Performer	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total	28,145.1	29,830.4	33,103.9	36,432.6	38,711.5	42,224.9	48,359.6	51,412.4	55,253.7	56,769.4	61,406.5
Intramural[1]	7,417.5	7,632.3	8,425.7	9,141.0	10,581.9	11,572.3	12,945.4	13,534.9	13,413.1	14,114.6	15,024.6
Industrial firms excluding FFRDCs	12,172.4	12,969.1	14,867.9	17,192.2	17,019.7	18,610.4	21,704.9	24,201.2	26,768.2	26,719.2	28,547.9
FFRDCs administered by industrial firms	1,318.1	1,408.1	1,413.9	1,506.4	1,501.2	1,608.4	1,790.8	1,697.0	1,860.0	1,911.3	2,056.3
Universities & colleges excluding FFRDCs	3,888.8	4,263.4	4,465.8	4,605.5	4,966.4	5,546.9	6,339.7	6,558.8	7,337.3	7,827.7	8,672.0
FFRDCs administered by universities[2]	1,488.3	1,533.3	1,791.0	1,976.7	2,393.9	2,485.8	2,816.4	2,767.7	3,209.6	3,473.9	3,497.1
Nonprofit institutions excluding FFRDCs	1,026.5	1,105.6	1,068.8	1,091.7	1,241.6	1,497.3	1,699.2	1,677.0	1,711.4	1,683.2	1,999.9
FFRDCs administered by nonprofit institutions[2]	368.7	441.8	525.2	520.6	581.3	597.1	689.2	551.2	510.6	505.6	522.0
State and local governments	310.1	265.5	222.2	184.3	186.0	130.9	129.4	128.4	148.2	142.1	167.4
Foreign	154.7	211.2	323.4	214.3	239.5	175.8	244.5	296.3	295.3	391.8	919.4

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

2 In 1984 the Center for Naval Analyses was reclassified from an FFRDC administered by a university to an FFRDC administered by a nonprofit institution.

NOTE: Because of rounding, detail may not add to totals.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-102a. Federal obligations for research and development, by performer: fiscal years 1990-2000

[Dollars in millions]

Performer	1990	1991	1992	1993	1994	1995	1996	1997	1998	Preliminary	
										1999	2000
Total	63,559.5	61,295.2	65,592.6	67,314.0	67,235.4	68,186.8	67,653.0	69,826.8	71,903.3	75,351.3	75,104.3
Intramural[1]	15,848.9	15,138.2	15,582.8	16,663.3	16,132.1	17,024.8	16,540.4	16,718.2	17,114.0	18,271.6	17,641.7
Industrial firms excluding FFRDCs	29,370.0	26,420.6	29,744.8	30,219.0	30,454.9	30,236.1	30,373.8	31,419.3	31,839.7	31,906.1	31,640.0
FFRDCs administered by industrial firms	2,326.8	2,168.3	2,117.0	1,451.3	1,293.5	1,201.8	1,137.0	1,128.2	1,188.9	1,294.6	1,337.0
Universities & colleges excluding FFRDCs	9,137.5	10,168.5	10,271.2	11,208.4	11,796.9	11,927.5	11,977.8	12,559.0	13,365.9	14,981.6	15,191.3
FFRDCs administered by universities	3,449.8	3,603.8	3,855.5	3,614.2	3,292.9	3,561.6	3,447.1	3,701.0	3,890.1	4,108.0	4,470.7
Nonprofit institutions excluding FFRDCs	2,248.2	2,637.4	2,803.6	2,811.9	2,936.9	2,834.1	2,886.8	2,961.6	3,155.1	3,477.4	3,472.9
FFRDCs administered by nonprofit institutions	621.6	679.4	745.6	753.4	736.0	825.1	755.2	821.0	603.0	656.4	670.5
State and local governments	213.9	215.1	184.1	320.3	325.4	316.5	246.7	261.1	447.5	414.1	420.1
Foreign	342.6	263.9	287.9	272.2	266.8	259.2	288.3	257.5	299.1	241.6	260.3

[1] Intramural activities cover costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

NOTE: Because of rounding, detail may not add to totals.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-103. Federal obligations for research, by performer: fiscal years 1979-1989

[Dollars in millions]

Performer	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total	10,535.0	11,597.4	12,212.8	13,022.2	14,253.5	14,978.8	16,133.4	16,502.2	17,940.5	18,650.1	20,765.5
Intramural[1]	3,481.2	3,666.3	4,034.2	4,194.2	4,710.3	4,764.7	5,056.1	5,160.3	5,437.7	5,338.4	5,897.0
Industrial firms excluding FFRDCs	1,762.0	2,077.6	1,958.3	2,156.6	2,114.2	2,137.4	2,074.4	2,280.5	2,448.6	2,642.5	2,875.0
FFRDCs administered by industrial firms	245.0	311.0	351.3	487.3	522.6	496.5	485.9	482.1	433.5	455.2	604.3
Universities & colleges excluding FFRDCs	3,333.4	3,699.1	3,920.1	4,045.4	4,467.9	5,029.7	5,726.3	5,883.4	6,640.2	7,022.9	7,793.1
FFRDCs administered by universities[2]	800.6	851.2	940.6	1,056.7	1,250.1	1,335.9	1,421.3	1,291.7	1,471.0	1,564.8	1,703.4
Nonprofit institutions excluding FFRDCs	622.6	678.4	705.2	743.5	836.9	922.6	1,045.1	1,062.9	1,207.5	1,300.0	1,519.8
FFRDCs administered by nonprofit institutions[2]	73.4	71.7	67.7	104.2	85.2	87.3	97.0	87.9	89.8	82.9	109.5
State and local governments	139.5	150.9	129.3	125.9	136.7	88.2	89.5	91.0	90.2	103.1	121.2
Foreign	77.4	91.1	106.0	108.3	129.6	116.5	137.9	162.4	121.9	140.4	142.1

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

2 In 1984 the Center for Naval Analyses was reclassified from an FFRDC administered by a university to an FFRDC administered by a nonprofit institution.

NOTE: Because of rounding, detail may not add to totals.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-103a. Federal obligations for research, by performer: fiscal years 1990-2000

[Dollars in millions]

Performer	1990	1991	1992	1993	1994	1995	1996	1997	1998	Preliminary	
										1999	2000
Total	21,622.4	23,968.4	24,490.6	26,890.5	27,411.2	28,434.4	28,259.8	29,365.3	30,922.3	33,821.7	34,679.6
Intramural[1]	5,809.8	6,454.4	6,523.3	7,451.8	7,481.1	7,684.5	7,513.2	7,666.9	7,964.7	8,440.1	8,775.7
Industrial firms excluding FFRDCs	3,191.6	3,406.5	3,451.2	3,923.8	4,063.9	4,698.7	4,269.1	4,392.1	4,635.1	4,907.0	4,709.6
FFRDCs administered by industrial firms	614.3	709.6	684.9	799.3	737.2	811.6	696.2	759.6	844.1	896.4	947.7
Universities & colleges excluding FFRDCs	8,136.5	8,867.5	9,060.7	9,892.3	10,291.7	10,353.8	10,706.6	11,173.2	11,741.0	13,191.7	13,421.8
FFRDCs administered by universities	1,791.5	2,160.9	2,351.8	2,299.4	2,181.1	2,233.6	2,385.0	2,598.9	2,743.0	2,962.3	3,372.8
Nonprofit institutions excluding FFRDCs	1,660.0	1,925.9	2,049.6	2,041.3	2,102.1	2,078.7	2,178.9	2,294.9	2,425.2	2,729.8	2,761.6
FFRDCs administered by nonprofit institutions	137.6	170.9	139.9	173.4	178.4	207.2	195.5	217.5	214.5	245.5	222.8
State and local governments	126.4	129.3	109.3	211.8	230.8	221.4	187.4	144.0	240.1	329.8	345.5
Foreign	154.5	143.4	120.0	97.4	144.8	144.8	127.8	118.2	114.5	119.0	122.0

[1] Intramural activities cover costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

NOTE: Because of rounding, detail may not add to totals.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-104. Federal obligations for basic research, by performer: fiscal years 1979-1989

[Dollars in millions]

Performer	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total	4,192.7	4,674.2	5,041.3	5,481.6	6,260.1	7,067.4	7,818.7	8,153.1	8,942.4	9,473.6	10,602.0
Intramural[1]	1,089.1	1,182.5	1,301.8	1,465.5	1,689.8	1,861.1	1,923.4	2,018.9	2,046.2	2,050.3	2,313.4
Industrial firms excluding FFRDCs	277.1	325.3	292.9	270.9	292.9	377.9	380.1	511.6	467.0	596.9	773.2
FFRDCs administered by industrial firms	66.6	70.4	73.3	87.4	83.0	91.1	122.6	117.6	119.9	133.0	223.9
Universities & colleges excluding FFRDCs	2,079.9	2,320.3	2,503.2	2,727.1	3,112.3	3,530.8	4,038.7	4,132.1	4,665.6	4,868.3	5,221.4
FFRDCs administered by universities[2]	393.6	436.8	490.6	516.7	604.0	668.9	724.2	724.1	906.7	989.8	1,098.1
Nonprofit institutions excluding FFRDCs	240.3	279.5	313.1	355.6	409.6	473.6	555.8	572.1	657.7	728.6	838.9
FFRDCs administered by nonprofit institutions[2]	6.7	7.5	8.6	9.0	8.0	8.2	12.4	13.0	13.3	17.7	42.2
State and local governments	19.8	23.9	26.5	24.5	32.1	28.1	30.5	30.9	37.5	42.7	43.6
Foreign	19.5	28.1	31.2	24.9	28.5	27.7	30.9	32.7	28.5	46.3	47.4

[1] Intramural activities cover costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

[2] In 1984 the Center for Naval Analyses was reclassified from an FFRDC administered by a university to an FFRDC administered by a nonprofit institution.

NOTE: Because of rounding, detail may not add to totals.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-104a. Federal obligations for basic research, by performer: fiscal years 1990-2000

[Dollars in millions]

Performer	1990	1991	1992	1993	1994	1995	1996	1997	1998	Preliminary	
										1999	2000
Total	11,285.6	12,170.8	12,489.9	13,399.1	13,523.5	13,877.0	14,464.0	14,941.9	15,613.0	17,366.9	18,209.4
Intramural[1]	2,294.6	2,391.6	2,337.6	2,661.8	2,497.8	2,693.5	2,676.7	2,688.3	2,917.8	3,107.5	3,336.2
Industrial firms excluding FFRDCs	887.5	949.9	920.3	896.3	1,109.6	1,214.2	1,108.8	1,166.7	1,119.7	1,292.5	1,439.6
FFRDCs administered by industrial firms	246.8	264.0	247.2	243.6	237.6	239.8	272.8	294.7	326.4	336.9	338.8
Universities & colleges excluding FFRDCs	5,548.2	6,064.5	6,331.8	6,833.7	6,992.3	6,943.9	7,443.5	7,695.8	7,952.2	8,931.6	9,226.9
FFRDCs administered by universities	1,227.3	1,306.2	1,394.1	1,402.7	1,336.0	1,438.8	1,521.0	1,600.0	1,642.3	1,807.2	1,969.4
Nonprofit institutions excluding FFRDCs	924.1	1,015.5	1,097.2	1,164.9	1,132.9	1,148.3	1,234.6	1,289.6	1,397.6	1,601.5	1,623.7
FFRDCs administered by nonprofit institutions	59.2	80.8	65.5	71.3	74.4	75.2	76.1	88.4	121.9	144.9	129.0
State and local governments	50.4	49.1	42.4	71.7	75.2	78.7	80.2	68.4	84.9	89.3	87.8
Foreign	47.6	49.1	53.8	53.3	67.6	44.6	50.5	49.9	50.4	55.6	58.0

[1] Intramural activities cover costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

NOTE: Because of rounding, detail may not add to totals.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-105. Federal obligations for applied research, by performer: fiscal years 1979-1989

[Dollars in millions]

Performer	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total	6,342.3	6,923.2	7,171.5	7,540.6	7,993.4	7,911.4	8,314.7	8,349.1	8,998.1	9,176.5	10,163.5
Intramural[1]	2,392.1	2,483.8	2,732.4	2,728.7	3,020.4	2,903.6	3,132.7	3,141.5	3,391.5	3,288.1	3,583.5
Industrial firms excluding FFRDCs	1,484.9	1,752.3	1,665.4	1,885.7	1,821.3	1,759.5	1,694.3	1,768.8	1,981.6	2,045.6	2,101.8
FFRDCs administered by industrial firms	178.3	240.7	278.1	400.0	439.7	405.4	363.3	364.5	313.6	322.2	380.5
Universities & colleges excluding FFRDCs	1,253.5	1,378.8	1,416.9	1,318.3	1,355.6	1,498.9	1,687.6	1,751.4	1,974.6	2,154.6	2,571.8
FFRDCs administered by universities[2]	407.0	414.3	450.0	540.0	646.1	667.0	697.1	567.6	564.3	575.0	605.4
Nonprofit institutions excluding FFRDCs	382.3	398.9	392.1	387.9	427.3	449.0	489.3	490.8	549.8	571.3	681.0
FFRDCs administered by nonprofit institutions[2]	66.7	64.2	59.1	95.2	77.1	79.1	84.6	74.9	76.5	65.2	67.3
State and local governments	119.7	127.1	102.8	101.4	104.7	60.0	58.9	60.0	52.7	60.4	77.6
Foreign	57.9	63.0	74.8	83.4	101.1	88.8	107.0	129.7	93.4	94.1	94.6

[1] Intramural activities cover costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

[2] In 1984 the Center for Naval Analyses was reclassified from an FFRDC administered by a university to an FFRDC administered by a nonprofit institution.

NOTE: Because of rounding, detail may not add to totals.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-105a. Federal obligations for applied research, by performer: fiscal years 1990-2000

[Dollars in millions]

Performer	1990	1991	1992	1993	1994	1995	1996	1997	1998	Preliminary	
										1999	2000
Total	10,336.8	11,797.6	12,000.7	13,491.4	13,887.7	14,557.4	13,795.7	14,423.4	15,309.3	16,454.8	16,470.1
Intramural[1]	3,515.2	4,062.8	4,185.7	4,790.0	4,983.3	4,991.0	4,836.5	4,978.6	5,046.9	5,332.6	5,439.5
Industrial firms excluding FFRDCs	2,304.2	2,456.6	2,530.9	3,027.5	2,954.4	3,484.5	3,160.3	3,225.5	3,515.4	3,614.5	3,270.0
FFRDCs administered by industrial firms	367.5	445.6	437.6	555.6	499.6	571.8	423.4	464.9	517.7	559.5	608.8
Universities & colleges excluding FFRDCs	2,588.4	2,803.0	2,728.9	3,058.6	3,299.4	3,409.9	3,263.1	3,477.4	3,788.9	4,260.1	4,194.9
FFRDCs administered by universities	564.3	854.7	957.6	896.8	845.1	794.8	864.0	998.8	1,100.7	1,155.2	1,403.4
Nonprofit institutions excluding FFRDCs	735.9	910.4	952.5	876.4	969.2	930.4	944.3	1,005.3	1,027.7	1,128.4	1,137.9
FFRDCs administered by nonprofit institutions	78.4	90.1	74.5	102.2	104.0	132.0	119.4	129.2	92.6	100.7	93.8
State and local governments	76.1	80.2	66.9	140.1	155.5	142.7	107.3	75.5	155.2	240.5	257.8
Foreign	106.9	94.3	66.2	44.1	77.2	100.3	77.4	68.2	64.1	63.4	64.0

[1] Intramural activities cover costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

NOTE: Because of rounding, detail may not add to totals.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-106. Federal obligations for development, by performer: fiscal years 1979-1989

[Dollars in millions]

Performer	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total	17,610.1	18,233.1	20,891.1	23,410.4	24,458.0	27,246.1	32,226.1	34,910.2	37,313.2	38,119.3	40,641.0
Intramural[1]	3,936.3	3,966.1	4,391.5	4,946.8	5,871.7	6,807.6	7,889.3	8,374.6	7,975.3	8,776.2	9,127.6
Industrial firms excluding FFRDCs	10,410.5	10,891.5	12,909.6	15,035.6	14,905.5	16,472.9	19,630.5	21,920.7	24,319.6	24,076.7	25,672.9
FFRDCs administered by industrial firms	1,073.1	1,097.0	1,062.6	1,019.1	978.5	1,112.0	1,304.9	1,215.0	1,426.4	1,456.1	1,452.0
Universities & colleges excluding FFRDCs	555.5	564.4	545.6	560.0	498.5	517.2	613.5	675.4	697.0	804.8	878.8
FFRDCs administered by universities[2]	687.7	682.2	850.4	920.0	1,143.8	1,149.9	1,395.1	1,476.0	1,738.6	1,909.1	1,793.6
Nonprofit institutions excluding FFRDCs	403.8	427.1	363.6	348.1	404.7	574.6	654.1	614.1	503.9	383.2	480.0
FFRDCs administered by nonprofit institutions[2]	295.4	370.1	457.5	416.4	496.1	509.8	592.2	463.3	420.8	422.7	412.4
State and local governments	170.7	114.6	92.9	58.4	49.3	42.8	39.9	37.4	58.0	39.0	46.3
Foreign	77.3	120.1	217.5	106.0	109.9	59.2	106.7	133.9	173.4	251.4	777.3

[1] Intramural activities cover costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

[2] In 1984 the Center for Naval Analyses was reclassified from an FFRDC administered by a university to an FFRDC administered by a nonprofit institution.

NOTE: Because of rounding, detail may not add to totals.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-106a. Federal obligations for development, by performer: fiscal years 1990-2000

[Dollars in millions]

Performer	1990	1991	1992	1993	1994	1995	1996	1997	1998	Preliminary	
										1999	2000
Total	41,937.1	37,326.8	41,102.0	40,423.5	39,824.2	39,752.4	39,393.3	40,461.5	40,981.0	41,529.6	40,424.8
Intramural[1]	10,039.1	8,683.8	9,059.6	9,211.6	8,650.9	9,340.2	9,027.2	9,051.3	9,149.3	9,831.5	8,866.0
Industrial firms excluding FFRDCs	26,178.4	23,014.1	26,293.6	26,295.2	26,390.9	25,537.4	26,104.7	27,027.2	27,204.6	26,999.1	26,930.3
FFRDCs administered by industrial firms	1,712.5	1,458.7	1,432.2	652.1	556.3	390.2	440.7	368.6	344.7	398.2	389.3
Universities & colleges excluding FFRDCs	1,001.0	1,301.0	1,210.6	1,316.1	1,505.2	1,573.7	1,271.2	1,385.7	1,624.8	1,789.9	1,769.4
FFRDCs administered by universities	1,658.3	1,442.9	1,503.7	1,314.8	1,111.8	1,328.0	1,062.1	1,102.1	1,147.2	1,145.6	1,097.9
Nonprofit institutions excluding FFRDCs	588.2	711.5	753.9	770.6	834.8	755.4	707.9	666.7	729.9	747.5	711.3
FFRDCs administered by nonprofit institutions	484.0	508.5	605.7	580.0	557.6	617.9	559.7	603.4	388.5	410.8	447.8
State and local governments	87.5	85.8	74.8	108.5	94.7	95.1	59.3	117.1	207.4	84.3	74.5
Foreign	188.1	120.5	167.9	174.8	122.0	114.4	160.5	139.3	184.6	122.6	138.3

[1] Intramural activities cover costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

NOTE: Because of rounding, detail may not add to totals.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-107. Federal obligations for total research, by detailed field of science and engineering: fiscal years 1979-1989

[Dollars in millions]

Field of science and engineering	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total, all fields	10,535.0	11,597.4	12,212.8	13,022.2	14,253.5	14,978.8	16,133.4	16,502.2	17,940.5	18,650.1	20,765.5
Life sciences, total	3,848.3	4,192.3	4,435.6	4,745.5	5,177.9	5,635.9	6,362.5	6,464.3	7,341.4	7,724.5	8,495.1
Biol & agricultural, total	2,320.3	2,507.6	2,711.8	2,811.8	3,064.4	3,325.0	3,755.3	3,861.3	4,358.5	4,573.4	5,020.0
Biol (excl environmental)	1,702.2	1,830.6	1,996.6	2,079.3	2,305.5	2,563.1	2,885.7	2,993.4	3,502.0	3,681.7	3,983.2
Environmental biology	216.6	229.7	220.3	183.5	193.6	250.0	260.3	264.1	289.6	301.0	367.8
Agricultural	401.5	447.2	494.8	549.0	565.2	512.0	609.3	603.8	566.9	590.7	669.0
Medical sciences, total	1,380.6	1,536.9	1,609.9	1,773.0	1,927.5	2,112.8	2,368.5	2,360.4	2,664.8	2,941.0	3,222.5
Life sciences, n.e.c.	147.3	147.9	113.9	160.7	186.1	198.1	238.7	242.6	318.2	210.1	252.6
Psychology, total	197.4	199.0	208.9	218.4	240.9	266.7	327.1	334.0	369.5	389.8	421.7
Biological aspects	56.8	59.9	57.5	59.6	63.2	80.8	91.2	90.1	98.3	105.3	121.8
Social aspects	83.6	94.8	93.5	98.1	104.7	107.8	142.9	143.5	154.5	149.4	149.9
Psychological sci, n.e.c.	57.0	44.3	57.9	60.7	73.0	78.1	93.1	100.4	116.7	135.2	149.9
Physical sciences, total	1,792.6	2,000.6	2,220.5	2,500.4	2,891.4	2,969.0	3,046.0	3,069.1	3,252.6	3,317.3	3,705.2
Astronomy	284.4	285.7	281.0	275.8	357.4	382.3	414.7	468.2	522.2	470.8	541.9
Chemistry	443.6	454.5	486.9	481.2	520.3	606.4	650.4	662.4	680.3	703.1	782.6
Physics	1,022.7	1,182.5	1,345.6	1,610.5	1,854.6	1,836.4	1,816.0	1,805.9	1,853.6	1,975.3	2,190.8
Physical sciences, n.e.c.	41.8	77.9	107.0	132.9	159.2	143.9	164.8	132.6	196.6	168.1	189.9
Environmental sciences, total	1,101.0	1,261.0	1,121.1	1,148.3	1,251.2	1,275.9	1,403.7	1,481.7	1,511.6	1,607.0	1,773.2
Atmospheric sciences	348.7	409.5	373.4	425.8	460.7	434.1	486.0	521.3	552.9	587.8	588.0
Geological sciences	358.7	401.8	396.1	357.6	333.5	359.0	429.0	443.9	441.7	441.6	542.8
Oceanography	220.5	262.1	261.7	261.3	343.5	363.5	398.5	429.7	427.4	460.4	491.9
Environmental sci, n.e.c.	173.1	187.6	89.9	103.6	113.5	119.3	90.2	86.8	89.5	117.1	150.5
Math & computer sci, total	210.3	240.9	278.9	350.1	419.4	440.3	574.9	615.4	640.6	642.9	735.4
Mathematics	84.2	90.9	117.7	128.1	133.5	151.0	183.6	184.5	204.5	217.9	236.1
Computer sciences	106.3	128.6	121.5	170.9	214.6	214.5	280.3	302.4	297.8	292.7	364.6
Math & computer sci, n.e.c.	19.9	21.4	39.7	51.0	71.4	74.8	111.0	128.5	138.3	132.3	134.8
Engineering, total	2,571.6	2,830.1	3,071.5	3,386.5	3,517.0	3,624.1	3,617.6	3,738.9	3,906.3	3,956.4	4,442.2
Aeronautical	624.9	708.1	709.6	741.2	820.6	860.4	738.0	775.6	810.4	801.8	986.8
Astronautical	251.1	302.3	303.9	290.7	321.5	396.8	424.7	526.9	624.6	575.4	677.4
Chemical	114.3	96.3	147.6	95.1	145.0	144.5	254.3	245.8	215.8	258.1	142.2
Civil	125.0	158.8	159.1	201.9	188.5	202.8	216.6	202.9	204.4	214.9	229.8
Electrical	417.9	517.1	556.7	612.2	614.9	630.0	626.8	674.4	786.3	731.1	843.1
Mechanical	195.9	208.0	204.6	201.2	266.4	190.5	267.0	236.5	233.5	240.8	257.4
Metallurgy & materials	249.3	236.2	256.0	309.1	332.5	341.1	439.2	445.0	362.0	456.7	521.0
Engineering, n.e.c.	593.2	603.3	733.9	935.1	827.6	858.0	651.0	631.7	669.3	677.8	784.5
Social sciences, total	527.3	523.8	497.4	385.9	435.3	436.3	460.0	415.5	480.0	485.8	551.0
Anthropology	17.3	17.2	14.5	14.6	12.8	18.6	18.0	13.6	15.2	14.3	13.9
Economics	181.9	192.8	206.7	157.1	165.6	147.3	159.7	131.3	148.5	159.5	166.8
Political science	13.9	12.2	10.8	7.5	11.1	10.8	14.6	11.6	11.3	12.2	13.5
Sociology	64.5	71.4	65.0	52.0	67.8	70.2	66.5	67.0	74.0	81.8	94.1
Social sciences, n.e.c.	249.6	230.3	200.4	154.7	178.0	189.5	201.3	192.0	231.0	218.0	262.8
Other sciences, n.e.c.	286.6	349.6	378.8	287.0	320.4	330.5	341.6	383.3	438.3	526.5	641.6

NOTE: Because of rounding, detail may not add to totals.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-107a. Federal obligations for total research, by detailed field of science and engineering: fiscal years 1990-2000

[Dollars in millions]

Field of science and engineering	1990	1991	1992	1993	1994	1995	1996	1997	1998	Preliminary	
										1999	2000
Total, all fields	21,622.4	23,968.4	24,490.6	26,890.5	27,411.2	28,434.4	28,259.8	29,365.3	30,922.3	33,821.7	34,679.6
Life sciences, total	8,829.8	9,622.0	9,910.5	10,772.1	11,284.3	11,811.0	12,064.3	12,661.3	13,557.6	15,385.4	15,561.7
Biol & agricultural, total	5,178.4	5,597.9	5,633.6	6,059.3	6,103.0	6,402.5	6,629.9	6,544.0	7,073.8	NA	NA
Biol (excl environmental)	4,144.6	4,457.8	4,435.1	4,789.9	4,745.8	4,925.4	5,309.9	5,320.2	5,706.6	NA	NA
Environmental biology	342.3	459.7	511.0	556.5	629.9	806.9	704.0	582.5	604.5	NA	NA
Agricultural	691.4	680.3	687.5	712.9	727.2	670.3	616.0	641.3	762.8	NA	NA
Medical sciences	3,382.4	3,460.3	3,909.9	4,404.4	4,862.1	4,972.2	4,973.4	5,532.7	5,996.3	NA	NA
Life sciences, n.e.c.	269.1	563.8	367.0	308.3	319.3	436.3	461.1	584.6	487.4	NA	NA
Psychology, total	448.6	482.4	298.1	550.7	548.4	622.6	525.0	545.4	591.0	661.7	686.1
Biological aspects	130.6	140.2	34.6	37.2	48.1	58.8	62.8	57.8	41.6	NA	NA
Social aspects	177.5	197.5	100.9	134.7	116.8	156.3	83.4	96.7	97.5	NA	NA
Psychological sci, n.e.c.	140.5	144.8	162.6	378.7	383.4	407.5	378.8	390.9	451.9	NA	NA
Physical sciences, total	3,808.7	4,235.3	4,439.2	4,427.0	4,253.5	4,278.3	3,923.0	4,149.2	4,209.7	4,456.5	4,719.3
Astronomy	597.2	631.7	739.1	686.3	747.6	764.5	729.0	774.7	732.2	NA	NA
Chemistry	761.7	828.4	896.2	843.2	874.4	863.5	881.1	845.8	819.0	NA	NA
Physics	2,254.9	2,460.9	2,578.2	2,638.4	2,443.1	2,451.2	1,991.3	2,067.6	2,131.8	NA	NA
Physical sciences, n.e.c.	195.0	314.3	225.7	259.2	188.3	199.2	321.6	461.0	526.7	NA	NA
Environmental sciences, total	2,174.1	2,149.8	2,207.6	2,608.5	2,838.2	2,854.4	3,019.7	3,045.7	3,062.0	3,171.1	3,209.0
Atmospheric sciences	773.4	802.7	767.3	984.1	1,095.0	1,135.6	1,085.7	1,164.3	1,174.4	NA	NA
Geological sciences	661.1	728.7	735.7	797.9	838.0	848.3	784.3	691.8	603.3	NA	NA
Oceanography	520.1	398.6	458.9	467.4	496.8	407.3	574.3	597.7	559.8	NA	NA
Environmental sci, n.e.c.	219.5	219.8	245.8	359.2	408.5	463.3	575.4	591.8	724.4	NA	NA
Math & computer sci, total	840.7	903.7	1,160.3	1,225.4	1,301.6	1,579.1	1,571.6	1,671.8	1,836.8	2,008.0	2,131.1
Mathematics	241.3	227.6	318.7	290.8	342.3	258.6	254.5	301.6	334.1	NA	NA
Computer sciences	562.1	584.9	771.8	826.1	830.2	1,013.9	1,119.8	1,264.7	1,398.7	NA	NA
Math & computer sci, n.e.c.	37.3	91.1	69.9	108.5	129.1	306.6	197.3	105.5	104.0	NA	NA
Engineering, total	4,226.6	4,944.5	4,977.0	5,499.4	5,479.4	5,708.4	5,680.9	5,690.3	5,895.4	6,091.6	6,218.6
Aeronautical	927.1	1,016.2	874.6	1,193.0	1,222.7	1,248.3	1,249.4	1,352.7	1,596.4	NA	NA
Astronautical	580.8	653.1	630.4	494.0	499.1	546.5	526.6	596.3	631.1	NA	NA
Chemical	241.9	304.3	297.5	245.5	238.2	246.1	215.1	235.0	190.1	NA	NA
Civil	317.7	305.0	330.2	252.0	277.9	339.4	300.2	275.6	244.1	NA	NA
Electrical	640.0	729.9	759.0	881.5	741.8	756.3	669.7	622.2	639.3	NA	NA
Mechanical	268.3	335.5	337.2	466.9	378.1	412.5	294.0	254.6	249.6	NA	NA
Metallurgy & materials	554.5	710.7	727.2	695.7	851.4	815.3	989.0	860.7	789.1	NA	NA
Engineering, n.e.c.	696.3	889.8	1,020.8	1,270.9	1,270.2	1,344.0	1,437.0	1,493.2	1,555.6	NA	NA
Social sciences, total	630.0	727.3	689.7	674.9	647.4	678.7	654.6	696.3	806.1	894.5	889.9
Anthropology	14.4	16.0	14.1	13.7	16.2	21.7	18.3	21.0	18.2	NA	NA
Economics	197.2	187.4	211.6	204.7	193.3	206.5	194.2	205.2	230.5	NA	NA
Political science	13.1	17.0	22.6	29.2	25.4	22.3	16.7	14.1	20.2	NA	NA
Sociology	116.2	184.0	80.7	76.7	68.1	47.8	41.2	25.9	100.8	NA	NA
Social sciences, n.e.c.	289.1	322.9	360.8	350.5	344.4	380.3	384.2	430.2	436.4	NA	NA
Other sciences, n.e.c.	663.7	903.4	808.3	1,132.5	1,058.4	901.8	820.7	905.3	963.7	1,152.9	1,263.8

NOTES: Because of rounding, detail may not add to totals.

Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields (such as psychology) in fiscal year 1992 seems to be underreported.

During the Vol. 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.

The National Science Foundation has made changes to its field of science and engineering coding system, producing changes to some of the fiscal year 1996 field of science data (such as mechanical engineering).

KEY: NA = Not applicable (indicates that the data collected for this table were not recorded at that level in that particular fiscal year)
n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-108. Federal obligations for basic research, by detailed field of science and engineering: fiscal years 1979-1989

[Dollars in millions]

Field of science and engineering	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total, all fields	4,192.7	4,674.2	5,041.3	5,481.6	6,260.1	7,067.4	7,818.7	8,153.1	8,942.4	9,473.6	10,602.0
Life sciences, total	1,891.8	2,054.4	2,223.8	2,526.0	2,891.3	3,287.6	3,786.6	3,858.8	4,361.9	4,501.8	4,915.7
Biol & agricultural, total	1,279.3	1,339.4	1,462.4	1,674.8	1,928.8	2,174.7	2,515.5	2,543.0	2,870.4	2,855.3	3,102.9
Biol (excl environmental)	1,055.5	1,099.9	1,201.7	1,401.2	1,621.9	1,835.8	2,106.3	2,151.5	2,461.5	2,414.9	2,647.2
Environmental biology	90.8	86.1	83.3	83.2	92.7	120.8	125.7	125.7	141.0	146.8	157.3
Agricultural	133.0	153.5	177.4	190.4	214.2	218.1	283.5	265.7	267.9	293.7	298.4
Medical sciences, total	560.1	657.0	706.2	793.4	878.9	1,015.3	1,145.4	1,196.6	1,341.0	1,573.2	1,708.4
Life sciences, n.e.c.	52.4	58.0	55.3	57.8	83.6	97.7	125.7	119.2	150.6	73.2	104.4
Psychology, total	75.1	84.2	91.0	89.9	92.9	107.9	132.8	133.0	147.1	177.8	187.1
Biological aspects	26.4	30.2	30.5	32.9	31.4	43.7	48.0	47.0	49.3	52.4	61.0
Social aspects	34.0	31.3	30.2	33.7	32.8	33.4	46.9	45.3	45.5	40.9	38.1
Psychological sci, n.e.c.	14.7	22.8	30.2	23.3	28.7	30.8	38.0	40.7	52.3	84.5	88.0
Physical sciences, total	1,050.0	1,220.6	1,324.9	1,393.8	1,587.2	1,728.0	1,815.2	1,914.4	2,096.0	2,199.6	2,506.5
Astronomy	280.6	279.4	274.2	271.1	354.5	379.6	400.7	453.1	504.5	458.5	524.6
Chemistry	224.8	256.9	298.2	312.0	362.2	403.4	425.0	433.4	445.1	470.8	504.6
Physics	535.6	668.2	735.4	790.7	855.1	921.4	959.9	1,003.4	1,072.3	1,205.5	1,395.3
Physical sciences, n.e.c.	8.9	16.1	17.1	20.0	15.4	23.6	29.7	24.7	74.2	64.8	81.9
Environmental sciences, total	457.3	522.4	532.8	520.0	580.1	656.7	699.7	749.1	781.0	872.7	1,016.9
Atmospheric sciences	169.2	179.0	173.8	163.2	172.6	192.2	209.2	240.4	243.8	280.7	316.4
Geological sciences	157.6	198.3	194.2	177.5	178.3	198.0	250.0	265.5	266.2	267.3	334.9
Oceanography	119.1	130.7	143.3	154.5	195.6	220.1	219.3	224.3	249.8	269.4	293.5
Environmental sci, n.e.c.	11.4	14.3	21.5	24.9	33.5	46.4	21.2	18.9	21.2	55.2	72.1
Math & computer sci, total	104.2	116.3	140.4	165.1	208.1	240.8	260.0	293.4	306.4	313.2	345.8
Mathematics	60.0	66.8	79.2	90.9	100.9	113.9	130.3	142.4	158.4	165.4	167.8
Computer sciences	43.0	46.2	52.2	67.4	90.4	104.8	116.1	131.4	128.5	125.5	159.5
Math & computer sci, n.e.c.	1.2	3.2	9.0	6.8	16.8	22.2	13.6	19.6	19.5	22.4	18.4
Engineering, total	434.7	465.2	526.0	610.5	689.5	845.0	884.2	968.5	989.5	1,006.2	1,183.7
Aeronautical	88.4	104.2	113.3	126.5	140.7	225.5	191.5	226.3	237.4	231.0	327.9
Astronautical	25.2	27.2	33.2	44.8	50.4	52.4	41.6	52.5	48.8	48.4	58.9
Chemical	24.6	26.1	31.3	35.2	50.4	55.5	74.4	73.0	77.5	88.6	50.1
Civil	14.2	22.0	23.4	32.0	32.4	41.9	43.6	45.2	45.7	46.1	51.7
Electrical	62.0	70.6	78.5	93.6	95.8	130.4	144.9	156.3	175.4	154.0	173.8
Mechanical	35.9	42.2	47.4	53.1	60.7	64.1	88.2	83.6	87.2	83.5	100.8
Metallurgy & materials	151.1	121.3	138.5	155.9	182.9	187.3	211.9	228.5	209.8	230.1	254.8
Engineering, n.e.c.	33.2	51.6	60.5	69.4	76.2	87.9	88.2	103.2	107.8	124.4	165.7
Social sciences, total	129.7	147.2	137.0	120.2	137.7	132.6	140.7	113.5	129.5	146.8	154.6
Anthropology	12.5	14.2	13.1	13.1	11.2	16.8	15.8	11.2	12.3	12.1	12.1
Economics	32.7	40.0	34.1	39.0	41.0	29.7	34.3	26.3	29.0	34.7	37.7
Political science	4.1	7.4	6.3	4.4	4.6	4.1	5.8	4.1	5.5	5.1	5.4
Sociology	18.4	25.4	22.6	18.7	32.8	33.9	32.4	30.0	34.3	36.8	38.2
Social sciences, n.e.c.	62.0	60.2	60.9	45.1	48.2	48.1	52.4	41.9	48.4	58.1	61.2
Other sciences, n.e.c.	50.0	63.9	65.4	56.1	73.3	68.8	99.4	122.5	130.9	255.5	291.7

NOTE: Because of rounding, detail may not add to totals.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-108a. Federal obligations for basic research, by detailed field of science and engineering: fiscal years 1990-2000

[Dollars in millions]

Field of science and engineering	1990	1991	1992	1993	1994	1995	1996	1997	1998	Preliminary	
										1999	2000
Total, all fields	11,285.6	12,170.8	12,489.9	13,399.1	13,523.5	13,877.0	14,464.0	14,941.9	15,613.0	17,366.9	18,209.4
Life sciences, total	5,177.5	5,433.6	5,841.7	6,288.8	6,472.1	6,601.3	6,879.0	7,203.8	7,853.4	8,990.4	9,182.9
Biol & agricultural, total	3,219.0	3,374.9	3,517.6	3,787.8	3,751.9	3,836.5	3,922.4	3,945.1	4,222.3	NA	NA
Biol (excl environmental)	2,742.2	2,868.5	2,981.8	3,222.5	3,139.2	3,248.3	3,387.2	3,391.0	3,653.0	NA	NA
Environmental biology	168.3	186.9	201.6	223.2	242.1	220.6	205.7	206.1	196.8	NA	NA
Agricultural	308.5	319.4	334.2	342.2	370.6	367.5	329.5	348.1	372.5	NA	NA
Medical sciences	1,849.6	1,857.7	2,131.0	2,380.9	2,610.3	2,615.9	2,740.8	3,035.2	3,392.4	NA	NA
Life sciences, n.e.c.	108.9	201.0	193.1	120.1	109.9	148.9	215.9	223.4	238.6	NA	NA
Psychology, total	215.1	225.5	122.6	246.8	246.1	278.0	291.5	293.9	312.0	357.4	376.7
Biological aspects	65.3	68.2	14.3	18.1	24.8	31.4	33.5	30.2	27.3	NA	NA
Social aspects	60.9	69.2	16.9	16.0	16.3	22.2	10.1	13.0	12.9	NA	NA
Psychological sci, n.e.c.	88.8	88.1	91.4	212.7	205.0	224.4	248.0	250.7	271.8	NA	NA
Physical sciences, total	2,661.5	2,881.5	2,951.4	2,907.1	2,826.9	2,864.8	2,862.6	2,976.4	2,941.4	3,198.0	3,418.5
Astronomy	579.9	612.3	729.7	663.4	724.8	731.6	708.8	754.2	706.9	NA	NA
Chemistry	502.1	538.7	556.6	543.7	540.3	559.4	550.7	517.8	517.5	NA	NA
Physics	1,474.3	1,644.9	1,607.5	1,600.6	1,502.3	1,507.4	1,545.6	1,561.7	1,579.8	NA	NA
Physical sciences, n.e.c.	105.1	85.5	57.6	99.4	59.6	66.4	57.4	142.6	137.1	NA	NA
Environmental sciences, total	1,274.8	1,263.5	1,303.6	1,533.5	1,516.5	1,467.5	1,554.0	1,543.5	1,528.7	1,641.7	1,795.2
Atmospheric sciences	443.7	449.0	435.2	635.1	698.3	688.2	671.2	679.5	655.2	NA	NA
Geological sciences	439.7	499.0	526.5	555.3	487.8	451.7	390.0	388.3	391.2	NA	NA
Oceanography	299.7	197.5	210.0	207.2	190.2	188.2	309.1	303.5	286.0	NA	NA
Environmental sci, n.e.c.	91.6	118.0	131.9	135.9	140.2	139.3	183.8	172.1	196.4	NA	NA
Math & computer sci, total	406.9	426.1	481.4	511.3	521.7	603.0	639.6	661.4	705.5	754.7	839.5
Mathematics	176.3	164.4	228.2	221.8	247.7	164.0	162.6	238.2	250.7	NA	NA
Computer sciences	225.2	223.5	247.7	284.3	262.3	317.1	376.8	389.5	419.1	NA	NA
Math & computer sci, n.e.c.	5.3	38.2	5.5	5.1	11.8	121.9	100.2	33.6	35.6	NA	NA
Engineering, total	1,101.5	1,233.7	1,249.8	1,207.4	1,290.4	1,448.9	1,612.1	1,583.0	1,594.4	1,653.5	1,803.4
Aeronautical	269.6	256.2	245.1	246.2	275.9	271.0	261.7	269.1	285.2	NA	NA
Astronautical	62.3	69.7	94.4	53.6	59.8	66.3	71.8	69.8	68.0	NA	NA
Chemical	75.8	101.7	105.0	72.8	70.9	66.7	59.8	68.1	52.3	NA	NA
Civil	47.3	59.3	53.4	38.7	38.1	70.1	52.9	45.4	35.9	NA	NA
Electrical	146.9	142.5	165.4	203.1	205.7	204.6	201.5	172.9	213.9	NA	NA
Mechanical	91.4	115.6	113.9	142.6	141.6	164.7	113.2	104.9	106.7	NA	NA
Metallurgy & materials	260.2	294.6	273.6	241.3	330.2	368.5	501.8	462.6	478.2	NA	NA
Engineering, n.e.c.	147.9	194.3	199.2	209.1	168.3	236.9	349.4	390.4	354.3	NA	NA
Social sciences, total	146.0	161.3	139.9	194.1	184.0	206.7	212.5	221.0	224.8	249.1	252.6
Anthropology	12.5	12.7	11.0	10.0	9.7	15.1	12.7	14.8	13.5	NA	NA
Economics	37.1	37.3	39.3	46.0	38.4	44.7	39.4	46.1	41.5	NA	NA
Political science	6.4	7.1	6.4	6.4	4.8	7.1	5.7	4.9	4.6	NA	NA
Sociology	24.2	28.2	10.2	11.1	13.1	14.3	13.3	8.2	23.5	NA	NA
Social sciences, n.e.c.	65.8	75.9	72.9	120.6	118.1	125.5	141.3	147.0	141.7	NA	NA
Other sciences, n.e.c.	302.3	545.6	399.4	510.1	465.6	406.9	412.8	459.0	452.7	522.2	540.6

NOTES: Because of rounding, detail may not add to totals.

Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields (such as psychology) in fiscal year 1992 seems to be underreported.

During the Vol. 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.

The National Science Foundation has made changes to its field of science and engineering coding system, producing changes to some of the fiscal year 1996 field of science data (such as mechanical engineering).

KEY: NA = Not applicable (indicates that the data collected for this table were not recorded at that level in that particular fiscal year)
n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-109. Federal obligations for applied research, by detailed field of science and engineering: fiscal years 1979-1989

[Dollars in millions]

Field of science and engineering	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total, all fields	6,342.3	6,923.2	7,171.5	7,540.6	7,993.4	7,911.4	8,314.7	8,349.1	8,998.1	9,176.5	10,163.5
Life sciences, total	1,956.5	2,137.9	2,211.8	2,219.5	2,286.6	2,348.3	2,575.9	2,605.5	2,979.5	3,222.7	3,579.4
Biol & agricultural, total	1,041.0	1,168.1	1,249.4	1,137.0	1,135.6	1,150.3	1,239.8	1,318.4	1,488.1	1,718.0	1,917.2
Biol (excl environmental)	646.7	730.8	794.9	678.1	683.7	727.3	779.3	841.9	1,040.5	1,266.8	1,336.0
Environmental biology	125.8	143.6	137.0	100.4	101.0	129.2	134.6	138.3	148.6	154.2	210.5
Agricultural	268.6	293.7	317.4	358.6	351.0	293.8	325.8	338.1	299.1	297.0	370.7
Medical sciences, total	820.5	879.9	903.7	979.6	1,048.5	1,097.5	1,223.1	1,163.8	1,323.8	1,367.8	1,514.1
Life sciences, n.e.c.	95.0	89.9	58.7	102.9	102.4	100.4	113.0	123.3	167.6	136.9	148.1
Psychology, total	122.3	114.8	117.9	128.5	147.9	158.8	194.3	201.0	222.4	212.0	234.5
Biological aspects	30.4	29.7	27.0	26.7	31.8	37.1	43.2	43.1	49.1	52.9	60.8
Social aspects	49.6	63.5	63.3	64.4	71.8	74.3	96.0	98.3	108.9	108.4	111.8
Psychological sci, n.e.c.	42.3	21.5	27.7	37.4	44.3	47.4	55.1	59.7	64.4	50.7	61.9
Physical sciences, total	742.6	780.0	895.6	1,106.5	1,304.3	1,241.0	1,230.8	1,154.6	1,156.6	1,117.7	1,198.8
Astronomy	3.8	6.3	6.8	4.7	3.0	2.7	14.1	15.1	17.7	12.3	17.3
Chemistry	218.8	197.6	188.7	169.2	158.1	203.0	225.4	229.0	235.2	232.3	278.0
Physics	487.1	514.4	610.2	819.8	999.5	915.0	856.1	802.6	781.4	769.8	795.5
Physical sciences, n.e.c.	32.8	61.8	89.9	112.9	143.7	120.3	135.2	107.9	122.4	103.3	108.0
Environmental sciences, total	643.7	738.6	588.2	628.3	671.2	619.2	704.0	732.6	730.6	734.3	756.3
Atmospheric sciences	179.5	230.5	199.6	262.6	288.1	242.0	276.8	280.9	309.1	307.1	271.6
Geological sciences	201.1	203.4	201.9	180.1	155.2	161.0	179.0	178.4	175.6	174.3	207.8
Oceanography	101.4	131.4	118.4	106.8	147.9	143.4	179.3	205.4	177.6	190.9	198.4
Environmental sci, n.e.c.	161.7	173.3	68.4	78.7	80.0	72.9	69.0	67.9	68.3	61.9	78.5
Math & computer sci, total	106.1	124.7	138.6	185.0	211.3	199.5	314.9	322.0	334.3	329.6	389.7
Mathematics	24.2	24.1	38.6	37.3	32.6	37.1	53.4	42.1	46.1	52.5	68.3
Computer sciences	63.3	82.4	69.3	103.5	124.1	109.7	164.2	171.0	169.3	167.2	205.1
Math & computer sci, n.e.c.	18.6	18.2	30.7	44.3	54.6	52.7	97.3	108.9	118.9	109.9	116.3
Engineering, total	2,137.0	2,364.9	2,545.4	2,776.1	2,827.5	2,779.1	2,733.4	2,770.4	2,916.8	2,950.2	3,258.4
Aeronautical	536.5	604.0	596.3	614.7	679.9	634.9	546.5	549.3	573.0	570.8	658.9
Astronautical	226.0	275.1	270.8	245.9	271.1	344.4	383.2	474.4	575.9	526.9	618.5
Chemical	89.7	70.2	116.3	59.9	94.6	88.9	179.9	172.8	138.3	169.5	92.2
Civil	110.8	136.8	135.8	169.9	156.0	161.0	173.0	157.8	158.7	168.7	178.1
Electrical	355.8	446.6	478.2	518.6	519.1	499.7	481.9	518.1	610.9	577.1	669.3
Mechanical	160.0	165.8	157.3	148.1	205.7	126.3	178.8	153.0	146.2	157.2	156.5
Metallurgy & materials	98.2	114.8	117.5	153.2	149.6	153.7	227.4	216.6	152.2	226.6	266.2
Engineering, n.e.c.	560.0	551.6	673.4	865.7	751.4	770.1	562.8	528.5	561.6	553.3	618.8
Social sciences, total	397.6	376.6	360.5	265.7	297.5	303.8	319.3	302.0	350.5	339.0	396.4
Anthropology	4.9	2.9	1.5	1.5	1.6	1.7	2.1	2.4	2.9	2.2	1.8
Economics	149.2	152.8	172.6	118.2	124.6	117.6	125.4	105.0	119.6	124.8	129.1
Political science	9.8	4.8	4.5	3.2	6.6	6.7	8.9	7.5	5.8	7.1	8.1
Sociology	46.1	46.1	42.4	33.3	35.0	36.3	34.0	37.0	39.6	45.0	55.9
Social sciences, n.e.c.	187.6	170.1	139.5	109.6	129.8	141.4	148.9	150.2	182.6	159.9	201.6
Other sciences, n.e.c.	236.6	285.7	313.5	231.0	247.1	261.7	242.2	260.9	307.4	271.0	350.0

NOTE: Because of rounding, detail may not add to totals.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-109a. Federal obligations for applied research, by detailed field of science and engineering: fiscal years 1990-2000

[Dollars in millions]

Field of science and engineering	1990	1991	1992	1993	1994	1995	1996	1997	1998	Preliminary	
										1999	2000
Total, all fields	10,336.8	11,797.6	12,000.7	13,491.4	13,887.7	14,557.4	13,795.7	14,423.4	15,309.3	16,454.8	16,470.1
Life sciences, total	3,652.3	4,188.4	4,068.8	4,483.3	4,812.2	5,209.8	5,185.3	5,457.6	5,704.2	6,395.0	6,378.8
Biol & agricultural, total	1,959.4	2,223.0	2,116.0	2,271.5	2,351.1	2,566.0	2,707.6	2,598.9	2,851.5	NA	NA
Biol (excl environmental)	1,402.5	1,589.3	1,453.2	1,567.4	1,606.6	1,677.1	1,922.8	1,929.2	2,053.6	NA	NA
Environmental biology	174.0	272.8	309.4	333.3	387.8	586.2	498.3	376.4	407.6	NA	NA
Agricultural	382.9	360.9	353.4	370.8	356.7	302.8	286.5	293.2	390.3	NA	NA
Medical sciences	1,532.7	1,602.6	1,778.9	2,023.5	2,251.8	2,356.3	2,232.6	2,497.6	2,603.9	NA	NA
Life sciences, n.e.c.	160.2	362.9	173.9	188.2	209.3	287.4	245.2	361.1	248.8	NA	NA
Psychology, total	233.5	256.9	175.6	303.9	302.2	344.6	233.5	251.5	279.0	304.3	309.4
Biological aspects	65.3	72.0	20.3	19.1	23.3	27.4	29.3	27.6	14.3	NA	NA
Social aspects	116.5	128.2	84.1	118.7	100.5	134.1	73.4	83.7	84.6	NA	NA
Psychological sci, n.e.c.	51.7	56.7	71.2	166.1	178.4	183.1	130.8	140.2	180.1	NA	NA
Physical sciences, total	1,147.2	1,353.9	1,487.7	1,519.8	1,426.5	1,413.5	1,060.4	1,172.8	1,268.3	1,258.5	1,300.9
Astronomy	17.2	19.3	9.4	22.8	22.8	32.9	20.2	20.6	25.2	NA	NA
Chemistry	259.6	289.7	339.6	299.5	334.2	304.1	330.4	327.9	301.5	NA	NA
Physics	780.6	816.0	970.7	1,037.7	940.9	943.8	445.7	505.9	552.0	NA	NA
Physical sciences, n.e.c.	89.8	228.9	168.1	159.8	128.7	132.7	264.2	318.4	389.6	NA	NA
Environmental sciences, total	899.3	886.3	904.0	1,075.0	1,321.7	1,387.0	1,465.7	1,502.2	1,533.2	1,529.5	1,413.7
Atmospheric sciences	329.7	353.7	332.0	349.0	396.7	447.3	414.6	484.8	519.2	NA	NA
Geological sciences	221.4	229.7	209.2	242.6	350.1	396.6	394.3	303.5	212.1	NA	NA
Oceanography	220.4	201.0	248.9	260.2	306.6	219.1	265.2	294.2	273.8	NA	NA
Environmental sci, n.e.c.	127.8	101.7	113.8	223.3	268.3	324.0	391.7	419.7	528.1	NA	NA
Math & computer sci, total	433.9	477.6	678.9	714.1	779.9	976.1	932.0	1,010.5	1,131.4	1,253.3	1,291.5
Mathematics	65.0	63.2	90.5	68.9	94.7	94.6	91.8	63.4	83.3	NA	NA
Computer sciences	336.9	361.4	524.0	541.8	567.9	696.8	743.1	875.1	979.6	NA	NA
Math & computer sci, n.e.c.	31.9	52.9	64.3	103.4	117.3	184.7	97.1	71.9	68.4	NA	NA
Engineering, total	3,125.1	3,710.8	3,727.1	4,292.0	4,189.0	4,259.5	4,068.9	4,107.3	4,301.0	4,438.1	4,415.2
Aeronautical	657.5	760.0	629.5	946.8	946.8	977.2	987.6	1,083.7	1,311.2	NA	NA
Astronautical	518.5	583.4	536.0	440.4	439.3	480.2	454.7	526.5	563.2	NA	NA
Chemical	166.0	202.6	192.5	172.7	167.3	179.4	155.4	166.9	137.9	NA	NA
Civil	270.4	245.7	276.9	213.3	239.8	269.3	247.3	230.2	208.3	NA	NA
Electrical	493.1	587.4	593.6	678.4	536.1	551.7	468.3	449.3	425.4	NA	NA
Mechanical	176.9	220.0	223.4	324.3	236.5	247.8	180.8	149.7	142.9	NA	NA
Metallurgy & materials	294.3	416.1	453.6	454.3	521.2	446.9	487.2	398.1	310.9	NA	NA
Engineering, n.e.c.	548.4	695.4	821.6	1,061.7	1,102.0	1,107.1	1,087.6	1,102.8	1,201.3	NA	NA
Social sciences, total	484.0	566.0	549.8	480.8	463.3	472.0	442.1	475.3	581.3	645.4	637.3
Anthropology	1.9	3.3	3.1	3.7	6.6	6.6	5.6	6.2	4.7	NA	NA
Economics	160.1	150.1	172.3	158.7	154.9	161.8	154.8	159.1	188.9	NA	NA
Political science	6.8	10.0	16.1	22.8	20.6	15.2	10.9	9.2	15.6	NA	NA
Sociology	92.0	155.7	70.5	65.6	55.0	33.5	27.9	17.7	77.4	NA	NA
Social sciences, n.e.c.	223.3	246.9	287.9	229.9	226.2	254.9	242.8	283.2	294.8	NA	NA
Other sciences, n.e.c.	361.5	357.8	408.8	622.4	592.8	494.9	407.9	446.3	510.9	630.7	723.2

NOTES: Because of rounding, detail may not add to totals.

Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields (such as psychology) in fiscal year 1992 seems to be underreported.

During the Vol. 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.

The National Science Foundation has made changes to its field of science and engineering coding system, producing changes to some of the fiscal year 1996 field of science data (such as mechanical engineering).

KEY: NA = Not applicable (indicates that the data collected for this table were not recorded at that level in that particular fiscal year)
n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-110. Federal obligations for research and development for selected agencies, by State: fiscal years 1979-1989

[Dollars in millions]

State	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total	27,084.2	28,627.3	31,929.6	35,361.6	37,627.8	41,148.5	47,214.8	50,310.2	54,067.4	55,471.0	59,485.0
Alabama	516.9	455.7	493.5	561.5	671.7	792.6	896.6	1,188.2	1,346.4	1,363.7	1,646.7
Alaska	45.9	42.5	51.8	40.0	40.4	47.7	51.5	49.4	48.8	50.5	71.3
Arizona	201.4	334.6	367.7	264.5	469.3	383.9	458.2	398.1	414.9	369.4	501.2
Arkansas	37.3	30.0	31.2	43.5	31.4	35.0	39.7	40.5	52.3	56.4	57.0
California	6,338.6	6,097.7	7,049.7	8,888.3	8,194.9	8,995.8	10,771.8	11,512.3	13,672.2	14,895.9	15,919.4
Colorado	442.2	573.7	632.8	556.6	436.2	531.6	629.2	1,636.4	1,516.3	1,408.4	1,618.1
Connecticut	328.4	470.3	485.0	439.6	743.3	675.9	742.8	577.3	672.2	619.5	596.7
Delaware	14.4	20.8	25.9	34.6	20.4	63.7	34.7	30.2	32.3	36.0	31.9
District of Columbia	768.4	807.0	921.0	954.6	1,196.1	1,796.0	2,077.7	2,324.0	2,209.2	2,925.3	1,914.9
Florida	913.1	1,120.8	1,373.7	1,776.4	1,276.0	1,138.1	1,205.2	1,448.0	2,297.3	2,133.4	2,269.8
Georgia	184.4	169.8	195.0	217.3	237.2	245.5	291.8	250.5	352.1	350.4	392.5
Hawaii	40.8	42.6	49.9	44.5	71.4	52.9	58.2	54.7	63.9	82.2	97.4
Idaho	147.1	147.7	119.5	127.0	223.4	195.2	259.7	266.6	232.7	250.1	195.9
Illinois	547.2	599.9	572.6	543.0	567.5	675.6	772.8	745.0	827.3	850.7	909.1
Indiana	122.0	162.4	170.1	186.2	213.6	236.0	227.7	295.1	339.4	312.1	392.5
Iowa	84.9	121.7	147.4	136.3	95.2	134.5	150.3	224.3	162.4	197.1	190.9
Kansas	136.3	353.6	471.0	637.7	97.4	101.9	138.1	112.7	94.2	126.7	128.8
Kentucky	43.0	107.9	101.0	97.2	93.1	56.5	69.2	59.1	61.9	68.5	73.0
Louisiana	209.1	196.3	331.8	236.8	186.6	129.7	118.8	92.4	107.4	101.3	179.6
Maine	23.1	25.9	24.4	23.9	29.3	38.1	36.7	35.6	178.6	39.8	67.7
Maryland	2,299.8	2,465.0	2,585.1	2,850.2	3,412.4	3,917.9	4,371.6	4,512.5	4,036.3	4,355.3	4,849.0
Massachusetts	2,055.6	2,047.7	2,407.1	2,775.2	2,559.3	2,882.6	3,276.7	3,240.3	3,910.8	2,702.0	2,882.5
Michigan	264.4	377.5	357.2	376.7	412.5	479.4	502.1	460.5	463.3	417.5	686.2
Minnesota	202.8	261.6	309.0	378.6	448.2	636.8	718.7	515.4	506.6	576.8	597.3
Mississippi	100.7	109.3	125.5	125.7	185.8	145.5	172.4	143.4	184.4	185.1	198.7
Missouri	778.9	801.6	820.4	911.3	576.8	659.5	694.2	677.8	614.7	637.6	1,241.9
Montana	41.6	45.7	45.4	42.7	35.0	26.6	26.0	26.4	30.1	35.5	36.2
Nebraska	31.3	31.6	31.7	32.0	42.3	33.0	34.6	41.1	48.9	52.1	51.2
Nevada	222.1	214.5	263.0	376.3	647.1	440.5	490.4	462.6	462.0	443.3	427.5
New Hampshire	94.1	50.2	54.8	50.8	76.8	116.4	130.3	136.0	83.6	60.8	98.0
New Jersey	649.3	729.4	775.4	887.9	1,293.4	1,550.0	1,791.8	1,781.4	1,114.9	1,209.3	1,320.4
New Mexico	955.5	954.2	1,224.1	1,322.6	1,804.9	2,104.8	2,368.6	2,500.0	1,998.2	2,296.1	2,220.4
New York	1,362.2	1,468.8	1,557.7	1,692.5	2,523.2	2,493.4	3,128.4	3,163.5	2,941.8	2,688.7	2,904.1
North Carolina	220.9	227.7	259.8	272.7	312.5	378.3	485.7	497.7	583.8	625.0	562.8
North Dakota	33.4	38.7	40.1	36.5	27.2	37.8	32.7	27.2	29.4	32.5	33.3
Ohio	1,053.2	1,054.7	1,117.2	1,024.8	1,170.1	1,366.5	1,520.5	1,591.7	1,862.9	1,865.2	1,938.8
Oklahoma	70.1	94.5	82.4	65.6	67.9	65.5	81.3	69.8	99.4	103.7	117.6
Oregon	100.1	97.9	105.6	106.3	108.0	137.8	151.6	127.6	133.9	170.3	168.4
Pennsylvania	1,099.9	1,059.4	1,082.9	1,131.5	1,173.3	1,142.2	1,329.6	1,301.3	1,681.9	1,731.6	1,961.9
Rhode Island	140.7	149.9	182.5	242.1	267.5	306.1	334.3	392.7	365.4	335.6	314.1
South Carolina	114.3	87.5	96.1	98.7	104.6	119.8	119.9	122.5	123.7	148.7	222.6
South Dakota	10.2	9.9	10.2	19.0	12.4	14.0	14.4	14.6	12.8	13.1	15.0
Tennessee	644.1	722.9	883.6	702.3	435.5	546.7	556.3	591.3	732.0	567.2	576.0
Texas	1,000.1	908.6	1,031.7	1,054.3	1,412.6	1,473.8	1,664.6	1,912.0	2,261.3	2,514.9	3,189.2
Utah	211.6	243.9	305.7	287.9	268.9	232.4	250.9	274.6	427.3	462.0	517.8
Vermont	16.7	36.6	18.7	35.7	23.7	33.8	36.1	41.1	39.6	55.9	60.1
Virginia	945.1	1,059.3	1,066.4	1,268.1	2,286.1	2,247.2	2,472.4	2,810.0	2,292.5	2,729.1	2,778.0
Washington	864.7	951.8	1,047.5	1,038.9	709.3	881.8	1,036.5	1,153.9	1,878.8	1,765.6	1,766.2
West Virginia	107.2	152.0	151.2	91.0	82.5	73.3	66.5	88.7	115.8	113.4	104.0
Wisconsin	111.0	121.7	132.2	129.4	142.4	166.0	200.8	181.9	204.8	223.2	263.5
Wyoming	41.0	53.9	58.2	25.4	28.4	34.0	25.1	14.5	23.5	29.0	38.5
Outlying areas	39.4	45.3	38.9	40.7	32.0	44.9	62.8	36.8	42.9	33.0	45.7
Offices abroad	57.7	73.5	47.2	59.0	51.0	34.6	35.9	59.2	78.2	54.2	43.4

NOTES: For each year, the data shown include the obligations of the 10 or 11 major R&D-supporting agencies which were requested 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.

Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-110a. Federal obligations for research and development for selected agencies, by State: fiscal years 1990-1998 (revised)

[Dollars in millions]

State	1990	1991	1992	1993	1994	1995	1996	1997	1998
Total	62,105.2	59,865.4	64,089.7	65,743.8	65,820.1	66,700.1	66,292.4	68,510.2	70,513.0
Alabama	1,805.4	1,863.2	2,151.7	2,149.4	1,819.2	1,931.3	2,178.8	2,213.7	2,012.8
Alaska	90.7	102.7	93.0	92.7	157.3	96.9	93.3	99.9	106.9
Arizona	591.7	516.8	638.2	535.3	800.2	902.3	706.7	732.1	985.7
Arkansas	85.7	85.9	68.8	79.2	88.9	97.7	148.2	95.3	97.0
California	16,249.3	14,488.3	15,999.1	14,883.7	11,250.6	12,697.7	12,658.1	13,730.9	12,215.8
Colorado	1,888.3	2,694.2	1,479.2	1,343.4	1,356.4	951.7	1,277.6	1,340.2	1,334.2
Connecticut	509.8	672.7	578.3	522.2	733.5	900.7	798.9	846.5	692.3
Delaware	28.3	41.8	43.1	56.2	50.4	57.7	64.9	49.0	45.2
District of Columbia	1,593.1	1,943.7	2,185.2	2,488.8	2,483.6	2,755.4	2,574.1	2,232.3	2,229.1
Florida	2,343.4	2,181.1	2,832.3	2,775.3	2,906.7	2,391.8	2,957.9	3,326.4	2,752.4
Georgia	364.1	466.5	2,512.6	3,035.3	5,546.4	4,366.0	4,137.8	3,919.9	3,442.6
Hawaii	100.0	112.6	150.7	113.0	140.3	139.3	147.6	150.7	160.8
Idaho	326.1	279.1	299.5	303.7	227.8	211.0	244.6	205.7	213.6
Illinois	957.2	959.4	921.9	963.8	1,088.6	1,107.4	1,094.3	1,140.2	1,127.6
Indiana	363.6	378.7	367.0	513.6	403.6	426.3	439.8	410.4	377.7
Iowa	186.7	209.8	194.7	215.8	223.8	212.1	213.4	228.2	236.1
Kansas	116.4	83.6	91.2	87.9	84.8	120.4	212.0	255.5	128.7
Kentucky	96.5	122.4	71.7	86.7	90.1	73.1	78.6	91.3	189.0
Louisiana	121.2	163.6	169.6	152.6	210.5	170.1	228.7	211.0	223.6
Maine	39.7	57.1	60.6	65.2	82.1	53.1	56.7	68.7	103.9
Maryland	5,332.1	5,570.7	5,779.7	7,238.5	6,659.5	7,343.7	6,730.7	7,328.8	7,964.2
Massachusetts	2,982.8	3,146.4	3,227.9	3,551.7	3,201.8	3,337.8	3,192.1	3,437.5	3,112.3
Michigan	810.8	772.6	876.3	878.0	771.0	683.2	707.9	735.1	748.4
Minnesota	529.8	455.7	456.4	445.5	475.1	570.2	679.5	609.4	807.1
Mississippi	471.7	230.6	255.7	259.8	255.9	209.7	250.6	289.8	280.4
Missouri	1,064.3	587.9	733.5	726.3	2,272.6	1,606.2	1,267.8	1,130.1	930.7
Montana	30.9	45.8	71.5	69.1	57.0	63.8	63.0	79.3	80.7
Nebraska	76.4	76.1	71.1	78.5	86.5	84.7	88.5	83.0	85.0
Nevada	484.7	496.0	465.8	406.2	347.7	368.9	253.2	295.0	290.9
New Hampshire	145.1	196.3	156.1	237.6	218.9	213.2	268.5	278.7	269.1
New Jersey	1,601.6	1,698.2	1,646.8	1,422.8	1,385.7	1,297.7	1,272.6	1,318.8	1,459.6
New Mexico	2,311.3	2,018.7	2,211.3	2,309.6	1,894.1	1,959.9	1,955.0	1,933.1	1,891.6
New York	2,960.8	3,086.3	3,058.7	2,538.0	2,678.7	2,585.9	2,504.9	2,471.0	2,551.8
North Carolina	618.6	673.8	700.7	719.1	734.3	831.6	821.5	900.3	924.7
North Dakota	53.1	43.7	54.2	50.3	49.6	47.4	46.2	53.0	52.1
Ohio	2,088.5	1,729.9	1,863.4	1,921.7	1,736.4	1,810.0	1,681.7	1,879.8	5,562.2
Oklahoma	162.6	131.5	126.1	117.9	142.1	158.7	138.3	160.4	175.5
Oregon	175.6	216.5	226.5	229.4	279.2	283.4	308.2	319.6	314.7
Pennsylvania	2,074.6	2,125.6	1,794.4	2,566.5	1,983.4	2,394.2	1,921.2	1,893.7	1,886.3
Rhode Island	391.1	433.8	386.3	495.6	433.8	514.6	583.2	403.8	385.4
South Carolina	230.9	250.4	172.1	173.2	198.5	173.2	186.7	166.6	186.2
South Dakota	15.7	22.5	23.9	26.9	26.5	26.5	35.0	42.0	46.0
Tennessee	825.0	732.2	666.0	674.4	671.3	582.5	558.6	566.2	621.2
Texas	3,496.8	2,321.4	2,873.0	2,546.2	3,654.3	4,068.9	3,493.5	3,640.2	4,110.8
Utah	437.7	429.1	314.0	298.8	324.9	368.8	351.7	319.9	392.8
Vermont	42.5	56.1	51.3	62.1	48.5	53.0	47.1	49.9	57.6
Virginia	2,733.5	2,909.0	3,231.3	3,402.6	3,726.9	3,392.2	4,576.3	4,849.8	4,667.9
Washington	1,567.0	1,241.1	900.5	878.1	963.8	1,131.6	1,152.9	1,226.2	1,244.2
West Virginia	116.6	177.9	166.4	206.2	212.9	287.9	254.4	193.1	242.8
Wisconsin	271.7	294.5	307.7	350.8	358.3	338.5	331.4	332.2	332.2

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

Table C-110a. Federal obligations for research and development for selected agencies, by State: fiscal years 1990-1998 (revised)

[Dollars in millions]

State	1990	1991	1992	1993	1994	1995	1996	1997	1998
Wyoming	57.4	29.8	41.4	48.2	36.8	35.4	37.5	28.4	33.5
Outlying areas	54.9	221.0	246.9	332.7	166.3	166.5	172.6	93.3	111.9
Puerto Rico	NA	NA	NA	NA	50.5	46.7	51.6	58.9	61.9
Other Areas	NA	NA	NA	NA	115.8	119.8	121.0	34.3	50.0
Offices abroad	31.7	21.0	24.4	17.8	23.1	48.0	48.5	54.6	18.2

NOTES: For each year, the data shown include the obligations of the 10 or 11 major R&D-supporting agencies which were requested 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.

Because of rounding, detail may not add to totals.

KEY: NA = Not applicable (indicates that the data collected for this table were not recorded at that level in that particular fiscal year)

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-111. Federal obligations for R&D plant for selected agencies, by State: fiscal years 1979-1989

[Dollars in millions]

State	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total	1,393.8	1,533.1	1,454.4	1,380.1	1,280.9	1,770.6	1,774.7	1,482.5	1,793.8	2,025.1	2,144.3
Alabama	2.6	47.9	16.5	5.8	6.0	26.4	41.4	41.2	42.8	51.8	47.2
Alaska	.8	.1	-	-	21.3	.1	12.9	.0	.0	6.4	.0
Arizona	35.3	1.8	.4	.4	5.4	3.6	2.9	1.7	19.6	21.8	18.1
Arkansas	.2	.7	.7	1.0	1.5	.5	.5	.9	.5	.4	3.1
California	400.2	377.4	355.4	334.6	368.4	316.8	404.2	323.5	290.7	429.0	446.7
Colorado	9.7	35.6	26.9	16.6	43.9	52.3	32.4	16.3	12.8	53.5	62.5
Connecticut	12.3	1.0	9.2	25.1	5.5	5.2	8.4	1.2	.4	1.0	1.4
Delaware	.0	.7	1.6	.1	.4	.6	.4	.4	.4	1.3	.2
District of Columbia	22.0	14.3	31.7	33.6	24.6	62.4	92.5	28.0	24.1	15.4	17.1
Florida	46.0	46.7	25.5	31.8	37.2	91.2	42.8	53.2	64.6	86.0	100.0
Georgia	1.0	.6	1.6	1.5	2.1	3.8	2.6	15.6	23.1	2.7	10.8
Hawaii	.5	.2	.7	.1	1.6	.6	.9	.6	.6	6.9	.4
Idaho	41.8	45.1	11.9	21.4	19.7	11.9	8.3	24.7	17.8	39.6	12.0
Illinois	61.9	71.5	74.1	74.3	80.3	81.2	110.1	96.6	94.3	76.7	94.9
Indiana	.7	.7	.9	.6	1.3	2.8	4.5	.5	5.8	1.9	1.5
Iowa	2.2	2.9	2.1	2.2	2.7	3.5	1.4	3.3	22.7	3.8	6.2
Kansas	-	.1	.1	.1	.2	.3	2.3	41.0	49.8	.1	1.6
Kentucky	2.9	-	4.3	1.4	.4	.3	.3	.3	1.7	.1	.5
Louisiana	16.7	12.6	14.1	22.2	2.4	2.6	2.0	2.2	2.5	31.9	47.2
Maine	.1	-	-	-	-	-	-	-	-	.3	.1
Maryland	64.3	53.3	52.3	82.2	80.8	180.1	145.4	78.6	109.8	79.2	120.1
Massachusetts	36.9	20.4	35.7	23.3	29.4	62.8	66.1	17.7	36.3	94.2	54.7
Michigan	3.0	8.3	9.5	7.8	1.1	6.4	5.1	1.2	1.4	4.4	4.6
Minnesota	.8	.3	.5	.4	.8	3.1	.8	1.1	.4	.7	1.8
Mississippi	3.8	6.6	3.4	5.9	6.4	13.7	12.6	13.5	39.1	19.1	41.1
Missouri	5.6	40.9	1.8	5.7	6.0	3.9	3.7	4.7	4.8	2.7	3.7
Montana	1.2	3.7	.1	.1	.2	.2	.2	.2	.2	.2	.2
Nebraska	.8	2.1	.6	.7	.5	.7	.4	7.3	1.4	4.1	2.8
Nevada	24.2	22.4	82.9	30.0	33.0	108.4	155.2	69.9	87.0	103.3	69.3
New Hampshire	5.4	-	7.7	.1	.7	.1	.4	.3	.2	-	.2
New Jersey	64.8	60.5	55.7	57.0	42.0	52.7	40.1	37.6	39.8	52.6	46.8
New Mexico	138.6	169.5	119.3	196.6	191.8	102.3	243.7	192.0	256.6	231.4	239.6
New York	69.4	91.4	85.1	65.0	77.0	175.0	75.3	105.0	113.4	115.3	101.6
North Carolina	3.9	8.2	1.2	1.4	4.1	3.6	10.4	2.2	3.4	.9	4.3
North Dakota	1.4	4.1	1.4	1.2	.9	.9	1.3	8.8	.8	9.2	6.0
Ohio	28.0	40.3	65.2	23.7	7.5	49.6	46.5	19.2	58.1	68.5	69.8
Oklahoma	.6	3.2	2.7	1.2	1.3	.9	1.7	2.3	.9	10.7	4.5
Oregon	.9	3.9	1.0	.1	.2	3.4	1.2	12.0	24.7	8.6	30.1
Pennsylvania	46.5	35.5	95.2	51.1	19.2	20.1	18.7	19.0	41.4	56.3	79.0
Rhode Island	3.5	2.6	1.6	2.1	1.9	.7	31.6	5.5	6.4	2.0	1.6
South Carolina	9.7	3.1	18.8	65.2	49.6	146.4	7.5	5.7	19.6	8.2	8.9
South Dakota	1.6	3.1	.7	.9	.2	.1	.1	-	.1	.6	.3
Tennessee	55.8	80.1	85.5	65.2	27.3	69.9	33.8	30.8	29.3	57.2	58.8
Texas	9.7	14.2	13.9	10.2	4.7	9.6	19.4	79.7	75.1	40.7	97.6
Utah	2.9	1.9	1.5	3.1	.5	2.0	2.4	13.6	14.2	6.8	12.1
Vermont	-	.0	-	.0	.0	.0	.0	.0	1.0	8.0	1.4
Virginia	42.0	41.5	33.9	21.1	29.4	52.2	26.7	45.5	89.4	105.5	127.4
Washington	86.8	128.2	89.0	80.8	12.0	13.6	32.7	26.4	24.8	31.2	35.5
West Virginia	13.1	12.9	3.7	1.1	23.3	4.8	11.4	10.2	16.5	23.2	26.7
Wisconsin	2.9	2.5	3.0	1.0	1.9	10.2	5.6	2.7	4.0	2.0	4.0
Wyoming	1.2	4.3	2.0	1.2	.1	.3	.1	.1	.3	.2	.1
Outlying areas	.5	2.9	.7	.5	.2	3.3	1.4	13.9	18.2	46.5	1.5
Offices abroad	7.1	1.1	1.3	1.4	1.7	3.5	2.3	4.5	1.0	.9	16.8

NOTES: For each year, the data shown include the obligations of the 10 or 11 major R&D-supporting agencies which were requested 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.

Because of rounding, detail may not add to totals.

KEY: - = Amount less than 50 thousand dollars

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-111a. Federal obligations for R&D plant for selected agencies, by State: fiscal years 1990-1998

[Dollars in millions]

State	1990	1991	1992	1993	1994	1995	1996	1997	1998
Total	2,230.1	2,807.0	2,962.9	3,054.5	2,196.2	2,210.8	1,736.6	1,891.1	1,836.7
Alabama	109.7	165.0	346.1	368.2	94.1	44.1	48.9	43.4	38.6
Alaska	11.1	.2	.8	1.0	88.0	1.4	.2	3.0	3.8
Arizona	2.5	16.4	7.9	16.9	20.8	42.7	3.0	1.9	7.5
Arkansas	2.2	5.3	4.4	3.3	3.9	3.9	12.5	14.1	18.5
California	459.0	377.8	356.1	469.6	209.5	414.0	341.2	418.9	426.4
Colorado	32.3	50.7	55.6	30.0	36.9	31.2	28.4	52.6	65.2
Connecticut	1.8	2.6	2.6	14.4	3.8	5.2	3.6	5.2	2.6
Delaware	-	-	.1	2.1	1.1	1.9	2.0	2.4	.8
District of Columbia	7.4	16.3	17.8	13.3	11.2	3.0	4.6	7.0	13.2
Florida	68.3	132.1	143.1	73.5	101.7	40.6	65.3	66.1	66.4
Georgia	3.6	6.0	6.4	3.5	5.3	12.4	4.6	5.2	3.8
Hawaii	1.4	9.2	6.5	19.3	14.3	.5	1.7	3.0	3.9
Idaho	30.3	46.0	39.6	27.4	12.5	8.9	19.2	26.2	11.5
Illinois	116.3	319.7	183.9	201.6	208.5	190.0	147.3	134.3	152.6
Indiana	1.3	5.0	8.4	22.6	4.1	4.8	15.2	7.9	3.1
Iowa	10.4	26.1	5.2	7.9	10.1	15.5	10.1	8.9	7.2
Kansas	3.1	5.2	2.5	10.1	10.6	1.2	1.5	1.4	.6
Kentucky	.7	1.6	.0	.0	3.9	4.7	2.4	.4	.0
Louisiana	33.6	26.1	26.2	29.5	21.0	21.5	26.5	18.6	30.4
Maine	.7	.7	1.5	1.0	1.9	.7	.2	.3	1.6
Maryland	178.9	235.9	229.7	264.6	196.2	390.3	240.2	299.6	307.4
Massachusetts	78.2	32.5	20.2	22.3	15.8	23.1	14.1	12.1	10.7
Michigan	6.6	3.0	9.1	21.7	4.5	3.7	6.3	5.0	3.0
Minnesota	1.1	2.1	2.5	3.0	17.2	5.1	6.3	2.6	3.5
Mississippi	47.4	50.8	41.6	42.2	31.9	36.5	32.8	38.8	47.6
Missouri	1.9	6.5	1.7	1.5	4.7	4.6	4.4	5.7	4.0
Montana	.5	1.6	2.7	1.6	3.6	4.9	5.8	9.6	2.0
Nebraska	4.1	6.0	5.7	1.0	1.0	2.3	1.0	.8	.9
Nevada	61.1	57.7	59.7	50.2	26.9	38.5	16.1	1.0	2.9
New Hampshire	.3	.3	4.0	.8	.3	.0	.6	2.3	3.0
New Jersey	51.3	30.0	39.0	53.2	45.3	34.9	26.7	29.9	32.1
New Mexico	197.9	175.5	164.7	181.4	152.6	133.8	77.5	124.8	113.9
New York	100.6	107.2	194.5	177.7	186.1	159.1	164.6	152.2	122.1
North Carolina	3.4	7.4	6.8	36.6	40.0	25.7	20.5	27.4	30.4
North Dakota	7.4	9.0	7.4	5.5	5.8	4.9	1.5	3.7	3.2
Ohio	56.3	115.4	122.2	64.1	128.1	147.5	67.5	49.7	91.2
Oklahoma	1.5	3.3	4.1	1.0	1.9	2.8	3.2	6.7	2.6
Oregon	12.3	3.3	1.8	13.8	6.5	5.2	8.1	5.9	3.2
Pennsylvania	36.0	89.5	52.0	95.7	72.2	35.4	51.3	40.8	17.9
Rhode Island	.8	14.3	1.9	.6	.6	7.3	3.9	4.6	14.0
South Carolina	3.7	31.9	4.1	4.9	14.7	2.7	2.2	10.3	7.2
South Dakota	1.7	2.0	1.5	1.0	5.6	4.3	3.0	.4	.6
Tennessee	62.4	63.2	48.1	29.5	77.4	37.1	22.9	38.7	28.8
Texas	210.6	218.0	465.7	429.1	56.6	84.2	56.5	62.8	35.8
Utah	2.5	3.5	1.5	3.5	6.7	4.6	2.6	2.8	1.5
Vermont	.4	.8	.0	.1	.6	.0	2.2	.5	.1
Virginia	128.7	175.5	172.4	131.0	126.6	81.1	69.7	56.6	53.7
Washington	44.2	34.5	54.3	71.6	71.5	64.3	71.8	64.8	14.5
West Virginia	12.4	89.4	9.7	8.4	4.8	5.4	2.6	2.8	12.6
Wisconsin	4.4	13.0	10.2	8.0	24.6	9.6	3.0	2.0	1.1

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

Table C-111a. Federal obligations for R&D plant for selected agencies, by State: fiscal years 1990-1998

[Dollars in millions]

State	1990	1991	1992	1993	1994	1995	1996	1997	1998
Wyoming	0.2	0.7	1.8	0.6	1.8	1.5	0.5	0.6	0.7
Outlying areas	14.9	11.0	6.9	13.1	.5	1.4	8.3	4.3	3.1
Puerto Rico	NA	NA	NA	NA	.4	.3	.3	.4	2.2
Other Areas	NA	NA	NA	NA	-	1.1	8.1	3.9	.9
Offices abroad	.3	.5	.6	.6	.7	1.3	.5	.3	3.9

NOTES: For each year, the data shown include the obligations of the 10 or 11 major R&D-supporting agencies which were requested 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.

Because of rounding, detail may not add to totals.

KEY:
- = Amount less than 50 thousand dollars
NA = Not applicable (indicates that the data collected for this table were not recorded at that level in that particular fiscal year)

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

APPENDIX A.

AGENCIES INCLUDED IN THIS SURVEY, VOLUMES 29 TO 48

LIST OF TABLES

Table *Page*

A.1. Agencies included in the Survey of Federal Funds for Research and Development: Volumes 29–38 XX

A.2. Agencies included in the Survey of Federal Funds for Research and Development: Volumes 39–48 XX

Table A-1. Agencies included in the Survey of Federal Funds for Research and Development: Volumes 29–38

Agency	Vol 29	Vol 30	Vol 31	Vol 32	Vol 33	Vol 34	Vol 35	Vol 36	Vol 37	Vol 38
Department of Agriculture	T	T	T	T	T	T	T	T	T	T
Agricultural Cooperative Service	N	X	X	X	X	X	X	X	X	X
Agricultural Marketing Service	X	X	X	X	X	X	X	X	X	X
Agricultural Research Service	N	N	X	X	X	X	X	X	X	X
Agricultural Stabilization & Conservation Service	O	O	O	O	O	O	O	O	O	O
Animal & Plant Health Inspection Service	O	O	O	O	O	O	O	X	X	X
Cooperative State Research, Education, & Extension Service	N	N	X	X	X	X	X	X	X	X
Economic Research Service	N	N	X	X	X	X	X	X	X	X
Economics, Statistics, & Cooperative Service	X	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 & Statistics Service	N	X	N	N	N	N	N	N	N	N
Food Safety Inspection Service	N	N	O	O	O	O	O	O	O	O
Foreign Agricultural Service	N	N	N	N	N	O	O	O	O	O
Forest Service	X	X	X	X	X	X	X	X	X	X
Grain Inspection Packers & Stockyards Administration	O	O	O	O	O	O	X	X	X	X
Human Nutrition Information Service	N	N	X	X	X	X	X	X	X	X
National Agricultural Statistics Service	N	N	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 & Development	X	X	X	X	X	X	X	X	X	X
Office of Transportation	X	X	X	X	X	X	X	X	X	X
Rural Business-Cooperative Service	N	N	N	N	N	N	N	N	N	N
Rural Development Service	N	N	N	N	N	N	N	N	N	N
Science & Education Administration	T	T	N	N	N	N	N	N	N	N
Agricultural Research Service	X	X	N	N	N	N	N	N	N	N
Cooperative State Research Service	X	X	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	X	X	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 & Control Administration	N	N	N	N	N	N	N	N	N	N
National Institute of Standards & Technology	X	X	X	X	X	X	X	X	X	X
National Oceanic & 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 & Information Administration	X	X	X	X	X	X	X	X	X	X
Office of Productivity, Technology, and Innovation	N	N	N	N	N	N	N	N	N	N
Office of the Secretary	X	X	X	X	X	X	X	X	X	X
Office of Telecommunications	N	N	N	N	N	N	N	N	N	N
Patent & Trademark Office	X	X	X	X	O	O	O	O	O	O
United States Travel & Tourism Administration	O	O	O	O	O	O	O	O	O	O
Department of Defense	T	T	T	T	T	T	T	T	T	T
Department of the Army	T	T	T	T	T	T	T	T	T	T
Department of the Army, Civil Functions	X	X	X	X	X	X	X	X	X	X
Department of the Army, Military 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	X	X	X	X	X	X	X	O	O	O
Pay & Allowances of Military Personnel in R&D	X	X	X	X	X	X	X	O	O	O
RDT&E Appropriation	X	X	X	X	X	X	X	O	O	O
Special Foreign Currency Program	O	O	O	O	X	X	X	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 & 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	X	X	X	X	X	X	X	O	O	O

See explanatory information and SOURCE at end of table.

Table A-1. Agencies included in the Survey of Federal Funds for Research and Development: Volumes 29–38

Agency	Vol 29	Vol 30	Vol 31	Vol 32	Vol 33	Vol 34	Vol 35	Vol 36	Vol 37	Vol 38
Department of Defense—continued										
Pay & Allowances of Military Personnel in R&D	X	X	X	X	X	X	X	O	O	O
RDT&E Appropriation	X	X	X	X	X	X	X	O	O	O
Special Foreign Currency Program	X	X	X	X	X	X	X	O	O	O
Department of the Air Force	X	X	X	X	X	X	X	X	X	X
DT&E Support from Operations & 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	X	X	X	X	X	X	X	O	O	O
Pay & Allowances of Military Personnel in R&D	X	X	X	X	X	X	X	O	O	O
RDT&E Appropriation	X	X	X	X	X	X	X	O	O	O
Special Foreign Currency Program	O	O	O	O	O	O	O	O	O	O
Defense Agencies	X	X	X	X	X	X	X	X	T	T
Ballistic Missile Defense Organization	O	O	O	O	O	O	O	O	O	O
Defense Advanced Research Projects Agency	O	O	O	O	O	O	O	O	O	O
Defense Information Systems Agency	O	O	O	O	O	O	O	O	O	O
Defense Logistics Agency	O	O	O	O	O	O	O	O	O	O
Defense Special Weapons Agency	O	O	O	O	O	O	O	O	O	O
Defense Threat Reduction Agency	N	N	N	N	N	N	N	N	N	N
Joint Staff	O	O	O	O	O	O	O	O	O	O
National Imagery & Mapping Agency	X	X	X	X	O	X	X	O	O	O
Special Operations Command	O	O	O	O	X	X	X	O	O	O
Uniformed Services University of the Health Sciences	O	O	O	O	O	O	O	O	O	O
Washington Headquarters Services	X	X	X	X	X	X	X	O	O	O
Defense Civil Preparedness Agency	N	N	N	N	N	N	N	N	N	N
Health Affairs, Assistant Secretary of Defense for	N	N	N	N	N	N	N	N	N	N
Operational Test & Evaluation, Director	N	N	N	N	N	N	N	X	X	X
Test & Evaluation, Deputy Under Secretary 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, & Welfare	N	N	N	N	N	N	N	N	N	N
Alcohol, Drug Abuse, & 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 & 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 & 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 & 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 & Human Services	T	T	T	T	T	T	T	T	T	T
Administration on Aging	N	N	N	N	N	N	N	N	N	N
Administration for Children & Families	N	N	N	N	N	N	N	N	N	N
Agency for Health Care Policy & Research	N	N	N	N	N	N	N	N	N	N
Alcohol, Drug Abuse, & Mental Health Administration	X	X	X	X	X	X	X	X	X	X
Centers for Disease Control & Prevention	X	X	X	X	X	X	X	X	X	X
Food & Drug Administration	X	X	X	X	X	X	X	X	X	X
Health Care Financing Administration	X	X	X	X	X	X	X	X	X	X

See explanatory information and SOURCE at end of table.

Table A-1. Agencies included in the Survey of Federal Funds for Research and Development: Volumes 29–38

Agency	Vol 29	Vol 30	Vol 31	Vol 32	Vol 33	Vol 34	Vol 35	Vol 36	Vol 37	Vol 38
Department of Health & Human Services—continued										
Health Resources Administration	X	X	X	N	N	N	N	N	N	N
Health Resources & Services Administration	N	N	N	X	X	X	X	X	X	X
Health Services Administration	X	X	X	N	N	N	N	N	N	N
Human Development Services	X	X	X	X	X	X	X	X	X	X
National Institutes of Health	X	X	X	X	X	X	X	X	X	X
Office of the Assistant Secretary for Health	X	X	X	X	X	X	X	X	X	X
Office of the Secretary	X	X	X	X	X	X	X	X	X	X
Office of the Assistant Secretary, Planning & Evaluation	N	N	N	N	N	N	N	N	N	N
Office of Public Health & Science	N	N	N	N	N	N	N	N	N	N
Social Security Administration	X	X	X	X	X	X	X	X	X	X
Substance Abuse & Mental Health Services Administration	N	N	N	N	N	N	N	N	N	N
Department of Housing & Urban Development	X	X	X	X	X	X	X	X	X	X
Department of the Interior	T	T	T	T	T	T	T	T	T	T
Bonneville Power Administration	O	O	X	N	N	N	N	N	N	N
Bureau of Land Management	X	X	X	X	X	X	X	X	X	X
Bureau of Mines	X	X	X	X	X	X	X	X	X	X
Bureau of Reclamation	X	X	X	X	X	X	X	X	X	X
Federal Water Pollution Control Administration	N	N	N	N	N	N	N	N	N	N
Geological Survey	X	X	X	X	X	X	X	X	X	X
Heritage Conservation & Recreation Service	N	N	N	N	N	N	N	N	N	N
Minerals Management Service	N	N	N	X	X	X	X	X	X	X
National Biological Service	N	N	N	N	N	N	N	N	N	N
National Park Service	X	X	X	X	X	X	X	X	X	X
National Resources Library	N	N	N	N	N	N	N	N	N	N
Office of Coal Research	N	N	N	N	N	N	N	N	N	N
Office of the Secretary	X	X	X	X	X	X	X	X	X	X
Office of Surface Mining Reclamation & Enforcement	X	X	X	X	X	X	X	X	X	X
Office of Water Research & Technology	X	X	X	X	X	X	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
United States Fish & Wildlife Service	X	X	X	X	X	X	X	X	X	X
Bureau of Commercial Fisheries	N	N	N	N	N	N	N	N	N	N
Bureau of Sport Fisheries & Wildlife	N	N	N	N	N	N	N	N	N	N
Department of Justice	T	T	T	T	T	T	T	T	T	T
Bureau of Prisons	X	X	X	X	X	X	X	X	X	X
Drug Enforcement Administration	X	X	X	X	X	X	X	X	X	X
Federal Bureau of Investigation	X	X	X	X	X	X	X	X	X	X
Immigration & Naturalization Service	X	X	X	X	X	X	X	X	X	X
Office of Justice Programs	X	X	X	X	X	X	X	X	X	X
Office of Legal Policy	X	X	X	X	X	X	X	X	X	O
Department of Labor	T	T	T	T	T	T	T	T	T	T
Bureau of Apprenticeship & 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	X	X	X	X	X	X	X	X	X	X
Employment & Training Administration	X	X	X	X	X	X	X	X	X	X
Labor-Management Relations & Cooperative Programs	N	N	N	N	N	X	X	X	X	X
Labor-Management Services Administration	X	X	X	X	X	N	N	N	N	N
Occupational Safety & Health Administration	X	X	X	X	X	X	X	X	X	X
Office of the Secretary	X	X	X	X	X	X	X	X	X	X
Pension Benefit Guaranty Corporation	N	N	X	X	X	X	X	X	X	X
Pension & Welfare Benefits Administration	N	N	N	N	N	X	X	X	X	X
Wage & 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

See explanatory information and SOURCE at end of table.

Table A-1. Agencies included in the Survey of Federal Funds for Research and Development: Volumes 29–38

Agency	Vol 29	Vol 30	Vol 31	Vol 32	Vol 33	Vol 34	Vol 35	Vol 36	Vol 37	Vol 38
Department of State	T	T	T	X	X	X	X	X	X	X
Agency for International Development	N	N	N	N	N	N	N	N	N	N
Bureau of Intelligence & Research	O	O	O	O	O	O	O	O	O	O
Departmental Funds	X	X	X	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
Coast Guard	X	X	X	X	X	X	X	X	X	X
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 Railroad Administration	X	X	X	X	X	X	X	X	X	X
Federal Transit Administration	X	X	X	X	X	X	X	X	X	X
Infrastructure Investment	N	N	N	N	N	N	N	N	N	N
Maritime Administration	N	N	X	X	X	X	X	X	X	X
Materials Transportation Bureau	O	O	O	O	O	O	O	O	O	O
National Highway Traffic Safety Administration	X	X	X	X	X	X	X	X	X	X
Office of the Secretary	X	X	X	X	X	X	X	X	X	X
Research & Special Programs Administration	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, & Firearms	X	X	X	N	N	N	N	N	N	N
Bureau of Engraving & Printing	X	X	X	X	X	X	X	X	X	X
Financial Crimes Enforcement Network	O	O	O	O	O	O	O	O	O	O
Internal Revenue Service	X	X	X	X	X	X	X	X	X	X
Office of Thrift Supervision	N	N	N	N	N	N	N	N	N	N
United States Customs Service	X	X	X	X	X	X	X	X	X	X
United States Mint	O	O	O	O	O	X	X	X	X	X
United States Secret Service	N	X	X	X	X	X	X	X	X	X
Department of Veterans Affairs	X	X	X	X	X	X	X	X	X	X
Other agencies										
ACTION	X	O	O	O	O	O	O	O	O	O
Advisory Commission on Intergovernmental Relations	X	X	X	X	X	X	X	X	X	X
Appalachian Regional Commission	X	X	X	X	X	X	X	X	X	X
Atomic Energy Commission	N	N	N	N	N	N	N	N	N	N
Civil Aeronautics Board	O	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	X	X	X	N	N	N	N	N	N	N
Consumer Product Safety Commission	X	X	X	X	X	X	X	X	X	X
Energy Research & Development Administration	N	N	N	N	N	N	N	N	N	N
Energy Security Trust Fund	X	N	N	N	N	N	N	N	N	N
Environmental Protection Agency	X	X	X	X	X	X	X	X	X	X
Federal Communications Commission	X	X	X	X	X	X	X	X	X	X
Federal Emergency Management Agency	X	X	X	X	X	X	X	O	O	O
Defense Civil Preparedness Agency	O	O	O	O	O	O	O	O	O	O
National Fire Prevention & 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
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 & Technological Cooperation	X	O	O	O	O	O	O	O	O	O
Interstate Commerce Commission	X	X	O	O	O	O	O	O	O	O
Library of Congress	X	X	X	X	X	X	X	X	X	X
National Aeronautics & Space Administration	X	X	X	X	X	X	X	X	X	X
National Archives & Records Administration	N	N	N	N	N	N	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

See explanatory information and SOURCE at end of table.

Table A-1. Agencies included in the Survey of Federal Funds for Research and Development: Volumes 29–38

Agency	Vol 29	Vol 30	Vol 31	Vol 32	Vol 33	Vol 34	Vol 35	Vol 36	Vol 37	Vol 38
Office of Emergency Preparedness	N	N	N	N	N	N	N	N	N	N
Office of Personnel Management	X	X	X	O	O	O	O	O	O	O
Office of Science & Technology	N	N	N	N	N	N	N	N	N	N
Office of Telecommunications Policy	N	N	N	N	N	N	N	N	N	N
Office of Thrift Supervision	X	X	X	X	X	X	X	X	X	X
Postal Service	O	O	O	O	O	O	O	O	O	O
Small Business Administration	O	O	O	O	O	O	O	O	O	O
Smithsonian Institution	X	X	X	X	X	X	X	X	X	X
Social Security Administration	N	N	N	N	N	N	N	N	N	N
Special Action Office for Drug Abuse Prevention	N	N	N	N	N	N	N	N	N	N
Tennessee Valley Authority	X	X	X	X	X	X	X	X	X	X
United States Arms Control & Disarmament Agency	X	X	X	X	X	X	X	X	X	X
United States Commission on Civil Rights	O	O	O	O	O	O	O	O	O	O
United States Information Agency	X	X	X	X	X	X	X	X	X	X
United States International Trade Commission	X	X	X	X	X	X	X	X	X	X

NOTE: Federal funds data, as collected, always span 3 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. For Volume 48 (see table A-2), for example, actual data were collected for FY 1998 and estimates were collected for FYs 1999 and 2000.

KEY:
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.

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table A-2. Agencies included in the Survey of Federal Funds for Research and Development: Volumes 39–48

Agency	Vol 39	Vol 40	Vol 41	Vol 42	Vol 43	Vol 44	Vol 45	Vol 46	Vol 47	Vol 48
Department of Agriculture	T	T	T	T	T	T	T	T	T	T
Agricultural Cooperative Service	X	X	X	X	X	X	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 & Conservation Service	O	O	O	O	O	O	N	N	N	N
Animal & Plant Health Inspection Service	X	X	X	X	X	X	X	X	X	X
Cooperative State Research, Education, & 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, & 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 & Statistics Service	N	N	N	N	N	N	N	N	N	N
Food Safety Inspection Service	O	O	O	O	O	O	O	X	X	X
Foreign Agricultural Service	O	O	O	O	X	X	X	X	X	X
Forest Service	X	X	X	X	X	X	X	X	X	X
Grain Inspection Packers & Stockyards Administration	X	X	X	X	X	X	X	X	X	X
Human Nutrition Information Service	X	X	X	X	X	X	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 & Development	X	X	X	X	X	X	N	N	N	N
Office of Transportation	N	N	N	N	N	N	N	N	N	N
Rural Business-Cooperative Service	N	N	N	N	N	X	X	X	X	X
Rural Development Service	N	N	N	N	N	N	N	N	N	N
Science & 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 & Control Administration	N	N	N	N	N	N	N	N	N	N
National Institute of Standards & Technology	X	X	X	X	X	X	X	X	X	X
National Oceanic & 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 & Information Administration	X	X	X	X	X	X	X	X	X	X
Office of Productivity, Technology, and Innovation	N	N	N	N	N	N	N	N	N	N
Office of the Secretary	X	X	X	X	X	X	X	X	X	O
Office of Telecommunications	N	N	N	N	N	N	N	N	N	N
Patent & Trademark Office	O	O	O	O	O	O	O	O	O	O
United States Travel & Tourism Administration	O	O	O	O	O	O	O	O	O	O
Department of Defense	T	T	T	T	T	T	T	T	T	T
Department of the Army	T	T	T	T	T	T	T	T	T	T
Department of the Army, Civil Functions	X	X	X	X	X	X	X	X	X	X
Department of the Army, Military 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
Pay & 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 & 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

See explanatory information and SOURCE at end of table.

Table A-2. Agencies included in the Survey of Federal Funds for Research and Development: Volumes 39–48

Agency	Vol 39	Vol 40	Vol 41	Vol 42	Vol 43	Vol 44	Vol 45	Vol 46	Vol 47	Vol 48
Department of Defense—continued										
Pay & 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
Department of the Air Force	X	X	X	X	X	X	X	X	X	X
DT&E Support from Operations & 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 & 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
Defense Agencies	T	T	T	T	T	T	T	T	T	T
Ballistic Missile Defense Organization	O	X	X	X	X	X	X	X	X	X
Defense Advanced Research Projects Agency	O	X	X	X	X	X	X	X	X	X
Defense Information Systems Agency	O	X	X	X	X	X	X	X	X	X
Defense Logistics Agency	O	X	X	X	X	X	X	X	X	X
Defense Special Weapons Agency	O	X	X	X	X	X	X	X	X	O
Defense Threat Reduction Agency	N	N	N	N	N	N	N	N	N	X
Joint Staff	O	X	X	X	X	X	X	X	X	X
National Imagery & Mapping Agency	O	X	X	X	X	X	X	O	O	O
Special Operations Command	O	X	X	X	X	X	X	X	X	X
Uniformed Services University of the Health Sciences	O	X	X	X	X	X	N	N	N	N
Washington Headquarters Services	O	X	X	X	X	X	X	X	X	X
Defense Civil Preparedness Agency	N	N	N	N	N	N	N	N	N	N
Health Affairs, Assistant Secretary of Defense for	N	N	X	O	O	O	O	O	O	O
Operational Test & Evaluation, Director	X	X	X	X	X	X	X	X	X	X
Test & Evaluation, Deputy Under Secretary 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, & Welfare	N	N	N	N	N	N	N	N	N	N
Alcohol, Drug Abuse, & 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 & 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 & 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 & 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 & Human Services	T	T	T	T	T	T	T	T	T	T
Administration on Aging	N	N	X	X	X	X	X	X	X	X
Administration for Children & Families	N	N	X	X	X	X	X	X	X	X
Agency for Health Care Policy & Research	N	X	X	X	X	X	X	X	X	X
Alcohol, Drug Abuse, & Mental Health Administration	X	X	X	N	N	N	N	N	N	N
Centers for Disease Control & Prevention	X	X	X	X	X	X	X	X	X	X
Food & Drug Administration	X	X	X	X	X	X	X	X	X	X
Health Care Financing Administration	X	X	X	X	X	X	X	X	X	X

See explanatory information and SOURCE at end of table.

Table A-2. Agencies included in the Survey of Federal Funds for Research and Development: Volumes 39–48

Agency	Vol 39	Vol 40	Vol 41	Vol 42	Vol 43	Vol 44	Vol 45	Vol 46	Vol 47	Vol 48
Department of Health & Human Services—continued										
Health Resources Administration	N	N	N	N	N	N	N	N	N	N
Health Resources & Services Administration	X	X	X	X	X	X	X	X	X	X
Health Services Administration	N	N	N	N	N	N	N	N	N	N
Human Development Services	X	X	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	X	X	X	X	N	N	N
Office of the Secretary	X	X	X	X	X	X	X	T	T	T
Office of the Assistant Secretary, Planning & Evaluation	N	N	N	N	N	N	N	X	X	X
Office of Public Health & Science	N	N	N	N	N	N	N	X	X	X
Social Security Administration	X	X	X	X	X	X	X	N	N	N
Substance Abuse & Mental Health Services Administration	N	N	N	N	N	N	N	X	X	X
Department of Housing & Urban Development	X	X	X	X	X	X	X	X	X	X
Department of the Interior	T	T	T	T	T	T	T	T	T	T
Bonneville Power Administration	N	N	N	N	N	N	N	N	N	N
Bureau of Land Management	X	X	X	X	X	O	O	O	O	O
Bureau of Mines	X	X	X	X	X	X	O	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 & Recreation Service	N	N	N	N	N	N	N	N	N	N
Minerals Management Service	X	X	X	X	X	X	X	X	X	X
National Biological Service	N	N	N	N	X	X	X	N	N	N
National Park Service	X	X	X	X	X	X	X	X	X	X
National Resources Library	N	N	N	N	N	N	N	N	N	N
Office of Coal Research	N	N	N	N	N	N	N	N	N	N
Office of the Secretary	X	X	X	X	X	X	X	O	O	O
Office of Surface Mining Reclamation & Enforcement	X	X	X	X	X	X	O	O	O	O
Office of Water Research & 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
United States Fish & Wildlife Service	X	X	X	X	X	O	O	O	O	O
Bureau of Commercial Fisheries	N	N	N	N	N	N	N	N	N	N
Bureau of Sport Fisheries & Wildlife	N	N	N	N	N	N	N	N	N	N
Department of Justice	T	T	T	T	T	T	T	T	T	T
Bureau of Prisons	X	X	X	X	X	X	X	X	X	X
Drug Enforcement Administration	X	X	X	X	X	X	X	X	X	O
Federal Bureau of Investigation	X	X	X	X	X	X	X	X	X	X
Immigration & 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
Department of Labor	T	T	T	T	T	T	T	T	T	T
Bureau of Apprenticeship & 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	X	X	O	O	O	O	O	O	O	O
Employment & Training Administration	X	X	X	X	X	X	X	X	X	X
Labor-Management Relations & Cooperative Programs	X	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 & 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 & Welfare Benefits Administration	X	X	X	X	X	X	X	X	X	X
Wage & 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

See explanatory information and SOURCE at end of table.

Table A-2. Agencies included in the Survey of Federal Funds for Research and Development: Volumes 39–48

Agency	Vol 39	Vol 40	Vol 41	Vol 42	Vol 43	Vol 44	Vol 45	Vol 46	Vol 47	Vol 48
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 & 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
Coast Guard	X	X	X	X	X	X	X	X	X	X
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 Railroad Administration	X	X	X	X	X	X	X	X	X	X
Federal Transit Administration	X	X	X	X	X	X	X	X	X	X
Infrastructure Investment	N	N	N	N	N	X	N	N	N	N
Maritime Administration	O	X	X	X	X	X	X	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 & Special Programs Administration	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, & Firearms	N	N	N	N	N	N	N	N	N	N
Bureau of Engraving & Printing	X	X	X	X	X	X	X	X	X	X
Financial Crimes Enforcement Network	O	O	X	X	X	O	O	O	O	O
Internal Revenue Service	X	X	X	X	X	X	X	X	X	X
Office of Thrift Supervision	N	O	X	X	X	X	X	X	X	X
United States Customs Service	X	X	X	X	X	X	X	X	X	X
United States Mint	X	X	X	X	X	X	X	X	X	X
United States 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
Other agencies										
ACTION	O	O	O	O	O	O	O	O	O	O
Advisory Commission on Intergovernmental Relations	X	X	X	X	X	X	X	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
Civil Aeronautics Board	N	N	N	N	N	N	N	N	N	N
Civil Service Commission	N	N	N	N	N	N	N	N	N	N
Community Services Administration	N	N	N	N	N	N	N	N	N	N
Consumer Product Safety Commission	X	X	X	X	X	X	X	X	X	X
Energy Research & 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 & 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
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 & 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 & Space Administration	X	X	X	X	X	X	X	X	X	X
National Archives & 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

See explanatory information and SOURCE at end of table.

Table A-2. Agencies included in the Survey of Federal Funds for Research and Development: Volumes 39–48

Agency	Vol 39	Vol 40	Vol 41	Vol 42	Vol 43	Vol 44	Vol 45	Vol 46	Vol 47	Vol 48
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 & Technology	N	N	N	N	N	N	N	N	N	N
Office of Telecommunications Policy	N	N	N	N	N	N	N	N	N	N
Office of Thrift Supervision	X	X	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	N	N	N	N	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	X	X	X	X
United States Arms Control & Disarmament Agency	X	X	X	X	X	X	X	X	X	X
United States Commission on Civil Rights	O	O	O	O	O	O	O	O	O	O
United States Information Agency	X	X	X	X	X	X	X	X	X	X
United States International Trade Commission	X	X	X	X	X	X	X	X	X	X

NOTE: Federal funds data, as collected, always span 3 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. For Volume 48, for example, actual data were collected for FY 1998 and estimates were collected for FYs 1999 and 2000.

KEY:
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.

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

APPENDIX B.

NOTES ASSOCIATED WITH AGENCIES INCLUDED IN THIS SURVEY, VOLUMES 29 TO 48

Table B. Notes associated with agencies included in the Survey of Federal Funds for Research and Development: Volumes 29-48

Department of Agriculture	
Agricultural Cooperative Service	
Agricultural Marketing Service	Although the Agricultural Marketing Service was established in April 1972, fiscal year 1979 was the first year in which Congress appropriated funds to this agency.
	Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.
Agricultural Research Service	The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
Agricultural Stabilization & Conservation Service	The Agricultural Stabilization & Conservation Service was abolished as of Oct. 20, 1994.
Animal & Plant Health Inspection Service	
Cooperative State Research, Education, & Extension Service	The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.
Economic Research Service	
Economics, Statistics, & Cooperative Service	Data reported for the Economics, Statistics, & Cooperative Service include programs of the Economic Research Service, the Statistical Reporting Service, and the Farmer Cooperative Service for fiscal years 1977–1979.
Economics & Statistics Service	Data reported for the Economics & Statistics Service include programs of the Economic Research Service and the Statistical Reporting Service for fiscal year 1980.
Food Safety Inspection Service	
Foreign Agricultural Service	The Office of International Cooperation & Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation & Development programs within FAS as of fiscal year 1994.
Forest Service	
Grain Inspection Packers & Stockyards Administration	The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.
Human Nutrition Information Service	The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
National Agricultural Statistics Service	
Office of International Cooperation & Development	The Office of International Cooperation & Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation & Development programs within FAS as of fiscal year 1994.
Office of Transportation	
Rural Business-Cooperative Service	This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.
Science & Education Administration	
Agricultural Research Service	
Cooperative State Research Service	

See explanatory information and SOURCE at end of table.

Table B. Notes associated with agencies included in the Survey of Federal Funds for Research and Development: Volumes 29-48

Department of Commerce	
Bureau of the Census	
Economic Development Administration	
Maritime Administration	In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.
Minority Business Development Agency	
National Fire Prevention & Control Administration	Functions for the National Fire Prevention & Control Administration transferred from the Department of Commerce to the Federal Emergency Management Agency as of Apr. 1, 1979.
National Institute of Standards & Technology	
National Oceanic & Atmospheric Administration	
National Telecommunications & Information Administration	
Office of the Secretary	
Patent & Trademark Office	
Department of Defense	Beginning with Volume 40, Department of Defense (DoD) research is reported separately from DoD development. DoD states that more than 90 percent of its development reported for "university and colleges" is performed at off-campus, university-affiliated laboratories that are not involved in teaching. Beginning with Volume 44, Department of Defense 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 Department of Defense (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.
Department of the Army, Military Functions	
Department of the Army, Civil Functions	The Department of the Army, Civil Functions (Corps of Engineers) development activities are appropriated by the Energy & Water Development Act and therefore cannot be categorized according to the advanced technology and major systems development breakdown.
Department of the Navy	
Department of the Air Force	
Defense Agencies	
Ballistic Missile Defense Organization	
Defense Advanced Research Projects Agency	This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.
Defense Information Systems Agency	
Defense Logistics Agency	
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.
Defense Threat Reduction Agency	The Defense Threat Reduction Agency (DTRA) was established on October 1, 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 Sepcial 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 fiscal year 1986.
National Imagery & Mapping Agency	The Defense Mapping Agency merged with the newly created National Imagery & Mapping Agency on October 1, 1996.
Special Operations Command	
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 Vol. 45.

See explanatory information and SOURCE at end of table.

Table B. Notes associated with agencies included in the Survey of Federal Funds for Research and Development: Volumes 29-48

Washington Headquarters Services	Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 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 fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46. Washington Headquarters Services' basic research data were revised in Volume 47 to reflect changes that were not incorporated in Volume 46.
Defense Civil Preparedness Agency	Functions for the Defense Civil Preparedness Agency transferred from the Department of Defense to the Federal Emergency Management Agency on July 20, 1979.
Health Affairs, Assistant Secretary of Defense for	
Operational Test & Evaluation, Director	
Test & Evaluation, Deputy Under Secretary of Defense	
Department of Education	
Department of Energy	In 1977 the Energy Research & Development Administration became part of the Department of Energy. In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.
Department of Health, Education, & Welfare	
Alcohol, Drug Abuse, & Mental Health Administration	
Center for Disease Control	
Food & Drug Administration	
Health Care Financing Administration	
Health Resources Administration	
Health Services Administration	
National Institute of Education	
National Institutes of Health	
Office of Assistant Secretary for Education	
Office of the Assistant Secretary for Health	
Office of Education	
Office of Human Development Services	
Office of the Secretary	
Social Security Administration	
Department of Health & Human Services	
Administration on Aging	In fiscal year 1991 Human Development Services was replaced by the Administration for Children & Families (ACF) and by the Administration on Aging (AoA). Beginning in fiscal year 1992, data shown for the ACF are separate from obligations for the AoA.
Administration for Children & Families	Obligations reported for the Administration for Children & Families may be incomplete for fiscal year 1992 due to unavailability of data. In fiscal year 1991 Human Development Services was replaced by the Administration for Children & Families (ACF) and by the Administration on Aging (AoA). Beginning in fiscal year 1992, data shown for the ACF are separate from obligations for the AoA.
Agency for Health Care Policy & Research	In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.
Alcohol, Drug Abuse, & Mental Health Administration	Due to reorganization within the Department of Health and Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields (such as psychology) in fiscal year 1992 seems to be underreported.
Centers for Disease Control & Prevention	

See explanatory information and SOURCE at end of table.

Table B. Notes associated with agencies included in the Survey of Federal Funds for Research and Development: Volumes 29-48

Food & Drug Administration	
Health Care Financing Administration	
Health Resources Administration	
Health Resources & Services Administration	
Health Services Administration	
Human Development Services	In fiscal year 1991 Human Development Services was replaced by the Administration for Children & Families (ACF) and by the Administration on Aging (AoA). Beginning in fiscal year 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, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields (such as psychology) in fiscal year 1992 seems to be underreported.
Office of the Assistant Secretary for Health	In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health As of fiscal year 1996, the Office of the Assistant Secretary for Health (OASH) 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 (OPHS), a new division within OS.
Office of the Secretary	As of fiscal year 1996, the Office of the Assistant Secretary for Health (OASH) 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 (OPHS), a new division within OS.
Office of the Assistant Secretary, Planning & Evaluation	
Office of Public Health & Science	As of fiscal year 1996, the Office of the Assistant Secretary for Health (OASH) 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 (OPHS), a new division within OS.
Social Security Administration	As of Mar. 31, 1995, the Social Security Administration became an independent agency; it is no longer part of the Department of Health & Human Services.
Substance Abuse & Mental Health Services Administration	Data for fiscal years 1998-2000 from the Substance Abuse & Mental Health Services Administration (SAMHSA) are estimates based on SAMHSA's obligations by program activity budget and previously reported funding for development.
Department of Housing & Urban Development	
Department of the Interior	
Bonneville Power Administration	In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.
Bureau of Land Management	
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.
Bureau of Reclamation	
Geological Survey	As of 1985 the Office of Water Research & Technology has been combined with the Geological Survey. As of fiscal year 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.
Minerals Management Service	

See explanatory information and SOURCE at end of table.

Table B. Notes associated with agencies included in the Survey of Federal Funds for Research and Development: Volumes 29-48

National Biological Service	The National Biological Service's (NBS) name changed from the National Biological Survey on Jan. 5, 1995. As of fiscal year 1994, NBS performs all biological research activities formerly funded by the United States Fish & Wildlife Service and the National Park Service. As of fiscal year 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.
National Park Service	The National Biological Service's (NBS) name changed from the National Biological Survey on Jan. 5, 1995. As of fiscal year 1994, NBS performs all biological research activities formerly funded by the United States Fish & 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 fiscal year 1995.
Office of Surface Mining Reclamation & Enforcement	
Office of Water Research & Technology	As of 1985 the Office of Water Research & Technology has been combined with the Geological Survey.
United States Fish & Wildlife Service	The National Biological Service's (NBS) name changed from the National Biological Survey on Jan. 5, 1995. As of fiscal year 1994, NBS performs all biological research activities formerly funded by the United States Fish & 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 fiscal years 1996 and 1997 R&D funding amounts due to changes in this agency's R&D programs.
Federal Bureau of Investigation	
Immigration & Naturalization Service	Fiscal years 1997-1999 figures for the Immigration and Naturalization Service are based on the agency's Volume 46 submission.
Office of Justice Programs	
Office of Legal Policy	
Department of Labor	
Bureau of Labor Statistics	
Employment Standards Administration	
Employment & Training Administration	
Labor-Management Relations & Cooperative Programs	In 1984 the Labor-Management Services Administration was replaced by Labor-Management Relations & Cooperative Programs.
Labor-Management Services Administration	In 1984 the Labor-Management Services Administration was replaced by Labor-Management Relations & Cooperative Programs.
Occupational Safety & Health Administration	
Office of the Secretary	
Pension Benefit Guaranty Corporation	
Pension & Welfare Benefits Administration	
Wage & Hour Division	
Department of State	The Agency for International Development transferred from the Department of State to the International Development Cooperation Agency on Oct. 1, 1979. Increases in outlays and obligations reported by the Department of State during the Vol. 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.
Agency for International Development	The Agency for International Development transferred from the Department of State to the International Development Cooperation Agency on Oct. 1, 1979.
Departmental Funds	

See explanatory information and SOURCE at end of table.

Table B. Notes associated with agencies included in the Survey of Federal Funds for Research and Development: Volumes 29-48

Department of Transportation	
Coast Guard	
Federal Aviation Administration	
Federal Highway Administration	
Federal Railroad Administration	
Federal Transit Administration	The name of this agency changed from the Urban Mass Transit Administration to the Federal Transit Administration on Dec. 18, 1991.
Maritime Administration	In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation. Beginning with fiscal year 1996, the Maritime Administration has had no directly appropriated funding for research and development activities.
National Highway Traffic Safety Administration	
Office of the Secretary	
Research & Special Programs Administration	
Department of the Treasury	
Bureau of Alcohol, Tobacco, & Firearms	
Bureau of Engraving & Printing	
Financial Crimes Enforcement Network	
Internal Revenue Service	Due to the reorganization of the Internal Revenue Service and subsequent unavailability of data, fiscal year 1992 figures are taken from estimates made in the Vol. 41 submission. Large changes in obligations reported by the Internal Revenue Service for Vol. 44 are due to shifts in research funding.
Office of Thrift Supervision	In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.
United States Customs Service	Fiscal years 1997-1999 figures for the United States Customs Service are estimates based on the agency's Volume 46 submission.
United States Mint	
United States Secret Service	The United States Secret Service was formerly listed as the Office of Protective Research.
Department of Veterans Affairs	
Other agencies	
ACTION	
Advisory Commission on Intergovernmental Relations	
Appalachian Regional Commission	
Community Services Administration	
Consumer Product Safety Commission	
Environmental Protection Agency	
Federal Communications Commission	
Federal Emergency Management Agency	Functions for the Defense Civil Preparedness Agency transferred from the Department of Defense to the Federal Emergency Management Agency on July 20, 1979.
National Fire Prevention & Control Administration	Functions for the National Fire Prevention & Control Administration transferred from the Department of Commerce to the Federal Emergency Management Agency as of Apr. 1, 1979.
Federal Trade Commission	
General Services Administration	As of 1985 the National Archives & 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 Oct. 1, 1979.

See explanatory information and SOURCE at end of table.

Table B. Notes associated with agencies included in the Survey of Federal Funds for Research and Development: Volumes 29-48

Agency for International Development	Increases in outlays and obligations reported by the Department of State during the Vol. 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 (fiscal years 1996-1998) and AID's Federal Funds Survey submission to Vol. 44 (fiscal years 1994-1996). More accurate data for AID will be reported in future volumes of this survey.
Institute for Scientific & Technological Cooperation	
Interstate Commerce Commission	
Library of Congress	
National Aeronautics & 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.
National Archives & Records Administration	As of 1985 the National Archives & 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 fiscal year 1996 field of science data (such as mechanical engineering). These changes are reflected in the historical data tables.
Nuclear Regulatory Commission	
Office of Personnel Management	
Office of Thrift Supervision	In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.
Smithsonian Institution	
Social Security Administration	As of Mar. 31, 1995, the Social Security Administration became an independent agency; it is no longer part of the Department of Health & 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 research and development (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.
United States Arms Control & Disarmament Agency	Fiscal year 1994 figures for the United States Arms Control & Disarmament Agency are estimates based on the agency's Vol. 43 submission. Effective April 1, 1999, all functions and authorities of the United States Arms Control & Disarmament Agency were transferred to the Department of State.
United States Information Agency	Data reported for the United States Information Agency include funds for the former International Communication Agency for fiscal years 1977–1981.
United States International Trade Commission	

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000