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ABSTRACT

This annual report contains information on federal funding of research and development for fiscal years 1995, 1996, 1997. Data in the tables of this report were derived from the Survey of Federal Funds for Research and Development for Fiscal Years 1995, 1996, and 1997. They reflect research and development funding levels as reported by 33 federal agencies from May through August 1996. Research and development totals in these tables are given in both outlays and obligations. The research and development obligation data are further categorized according to character of work, performer, field of science or engineering, and Federal Research and Development funding by State. This report consists of three sections. The first section provides definitions of technical terms to the reader. The second section lists federally funded research and development centers by agency and type of administration. Section three contains statistical tables. Appended are agencies included in this survey (volumes 26 to 45). (ASK)

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Federal Funds for Research and Development

Fiscal Years 1995, 1996, and 1997

Volume 45

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National Science Foundation

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Federal Funds for Research and Development

Fiscal Years 1995, 1996, and 1997

Volume 45

Detailed Statistical Tables

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Directorate for Social, Behavioral and Economic Sciences**



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OVERVIEW

INTRODUCTION

Federal agencies expected their funding for research and development (R&D) and R&D plant to decrease 1 percent (4-percent decrease in inflation-adjusted 1992 dollars) to \$70 billion in fiscal year (FY) 1997, according to survey reports received during the period May through August 1996. Development accounts for the entire R&D decrease, declining by 4 percent (a 6-percent decrease in constant 1992 dollars) from estimated FY 1996 levels (to \$39 billion). Research spending (including basic and applied research) will increase 2 percent (to \$29 billion). But after adjusting for inflation, Federal obligations for research will decline slightly by 0.4 percent. Research would account for 42 percent of the FY 1997 R&D money. Also, R&D plant will increase 6 percent (a 3-percent increase in constant 1992 dollars) to \$2 billion. The estimated obligations provided in this report are subject to change as Federal agencies' budgets are updated to reflect approved programs.

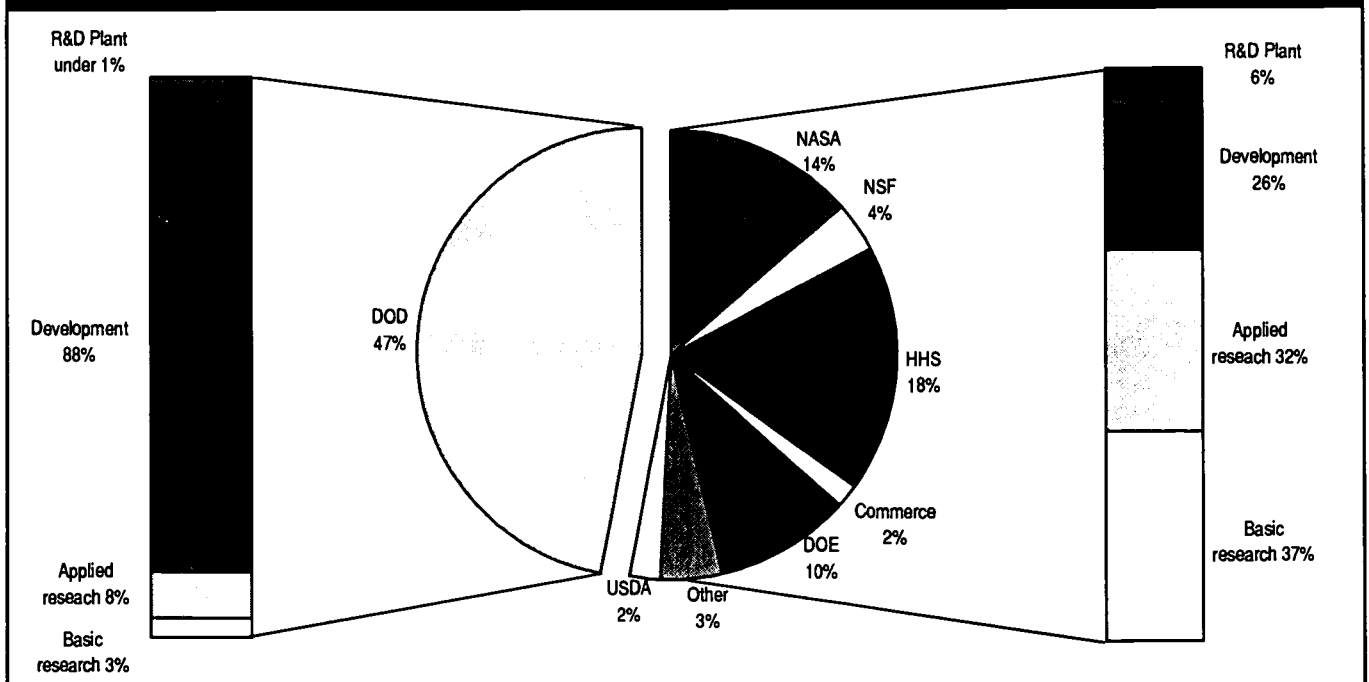
AGENCY TOTAL FUNDING SHARES

Seven Federal agencies, out of the 33 that report to the R&D survey, account for 97 percent (\$67 billion) of total projected Federal funding for R&D and R&D

plant in FY 1997 (Chart 1). The Department of Defense (DOD) will still comprise the largest share (47 percent), even though its funding will decrease 4 percent from FYs 1996-97. Contributing to DOD's drop in overall R&D funding are Navy (14 percent decrease), combined Defense agencies (12 percent decrease), and the Army (its military functions component) (10-percent decrease). Within the Defense agencies, the Washington Headquarters Services (WHS) (down 23 percent), Special Operations Command (down 20 percent), and Ballistic Missile Defense Organization (BMDO) (down 13 percent) report the largest percentage decreases in proposed R&D funding.

Funding from the Department of Health and Human Services (HHS) will comprise the second largest share of Federal agencies' R&D funding (18 percent), increasing by 3 percent from the FY 1996 level. Most (94 percent) of the HHS amount is from its National Institutes of Health (NIH) for support of the life sciences. The other top funding agencies are the National Aeronautics and Space Administration (NASA) (14 percent of the FY 1997 Federal R&D and R&D plant total), the Department of Energy (DOE) (10 percent), the National Science Foundation (NSF) (4

Chart 1. Projected Federal obligations, by agency and character of work: 1997



SOURCE: NSF/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997.

percent), the Department of Agriculture (USDA) (2 percent), and the Department of Commerce (DOC) (nearly 2 percent). Almost all (99 percent) of DOC's funding is from its National Institute of Standards and Technology (NIST) and National Oceanic and Atmospheric Administration (NOAA). NASA, DOC, and USDA each project that combined R&D and R&D plant funding will decline in FY 1997, whereas such funding from DOE and NSF is slated to increase.

R&D GROWTH IN THE 1990s

Of the seven major R&D funding agencies, DOC reports the largest estimated R&D and R&D plant funding annual growth rate for the FYs 1990-97 period (15 percent, 12 percent in constant 1992 dollars)

(Table 1). DOC's growth reflects the rapid increases in funding at NIST. Even though reporting a projected 9-percent decrease in overall R&D funding in FY 1997, NIST increased its obligations from \$131 million (\$141 million in constant dollars) in FY 1990 to \$647 million (\$573 million in constant dollars) in FY 1997. However, the FY 1997 NIST R&D funding level is nearly back to what it was in FY 1995. HHS follows DOC with a 6-percent growth rate (3 percent in constant dollars during the same period). NSF expects its R&D and R&D plant funding to average 5-percent growth per year (2 percent in constant dollars) from FYs 1990-97. DOD's obligations will drop on average 2 percent annually. In constant dollars, its funding will decrease at an estimated annualized rate of 5 percent over this seven-year period.

Table 1. Federal Obligations for R&D and R&D Plant: Fiscal Years 1990-97

| Agency | FY 1990 Actual | FY 1991 Actual | FY 1992 Actual | FY 1993 Actual | FY 1994 Actual | FY 1995 Actual | FY 1996 Preliminary | FY 1997 Preliminary | Average Percentage Change FYs 1990-97 |
|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------------|------------------------|--|
| (in millions of current dollars) | | | | | | | | | |
| Total..... | 65,831 | 64,148 | 68,577 | 70,415 | 69,427 | 71,012 | 71,048 | 70,149 | 0.9 |
| DOD..... | 37,756 | 32,561 | 36,526 | 36,221 | 34,788 | 34,427 | 34,369 | 33,004 | -1.9 |
| HHS..... | 8,513 | 9,842 | 9,085 | 10,499 | 11,142 | 11,711 | 12,218 | 12,614 | 5.8 |
| NASA..... | 7,060 | 8,004 | 8,475 | 8,769 | 8,812 | 9,640 | 9,946 | 9,519 | 4.4 |
| DOE..... | 6,547 | 7,203 | 7,493 | 7,724 | 6,960 | 6,890 | 6,432 | 6,721 | 0.4 |
| NSF..... | 1,729 | 1,945 | 1,970 | 2,012 | 2,212 | 2,439 | 2,361 | 2,479 | 5.3 |
| USDA..... | 1,211 | 1,381 | 1,492 | 1,470 | 1,525 | 1,523 | 1,502 | 1,494 | 3.1 |
| DOC..... | 454 | 505 | 672 | 682 | 857 | 1,214 | 1,252 | 1,201 | 14.9 |
| Other..... | 2,562 | 2,707 | 2,864 | 3,038 | 3,131 | 3,168 | 2,968 | 3,117 | 2.8 |
| (in millions of constant 1992 dollars) | | | | | | | | | |
| Total..... | 70,634 | 65,996 | 68,577 | 68,630 | 66,121 | 65,996 | 64,530 | 62,134 | -1.8 |
| DOD..... | 40,510 | 33,498 | 36,526 | 35,303 | 33,131 | 31,995 | 31,216 | 29,233 | -4.6 |
| HHS..... | 9,135 | 10,126 | 9,085 | 10,232 | 10,611 | 10,884 | 11,097 | 11,173 | 2.9 |
| NASA..... | 7,575 | 8,234 | 8,475 | 8,547 | 8,392 | 8,959 | 9,034 | 8,431 | 1.5 |
| DOE..... | 7,024 | 7,411 | 7,493 | 7,528 | 6,629 | 6,403 | 5,842 | 5,953 | -2.3 |
| NSF..... | 1,855 | 2,001 | 1,970 | 1,961 | 2,107 | 2,267 | 2,144 | 2,196 | 2.4 |
| USDA..... | 1,299 | 1,421 | 1,492 | 1,433 | 1,452 | 1,415 | 1,364 | 1,323 | 0.3 |
| DOC..... | 487 | 520 | 672 | 664 | 816 | 1,128 | 1,137 | 1,064 | 11.8 |
| Other..... | 2,749 | 2,785 | 2,864 | 2,961 | 2,982 | 2,944 | 2,696 | 2,761 | 0.1 |

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997.

DEVELOPMENT FUNDING

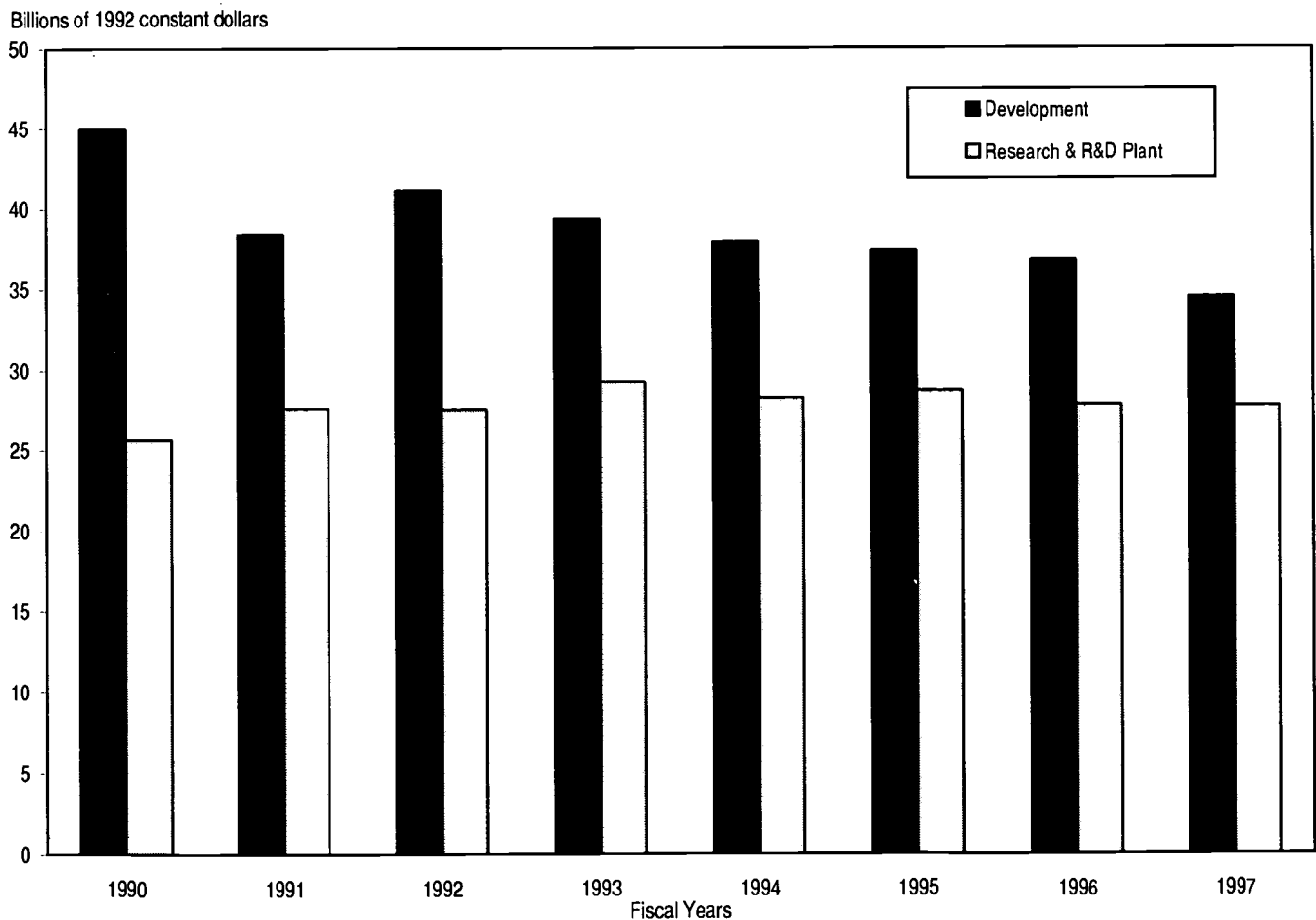
As in the past, the Federal Government obligates the largest portion of its R&D dollars for development, which accounts for approximately 55 percent of the FY 1997 preliminary total R&D and R&D plant obligations. However, the development share has been decreasing throughout the 1990's, having declined from its peak 64-percent share in FY 1990 (Chart 2). Agencies project development funds to drop 4 percent (down 6 percent in constant 1992 dollars) from their FY 1996 level, to \$39 billion (\$34 billion in constant 1992 dollars) in FY 1997.

Six agencies account for 99 percent of estimated Federal development obligations in FY 1997 (Table 2). These agencies are DOD (more than three-fourths from the three service agencies—Army, Navy, and Air Force), NASA, DOE, HHS (almost entirely from NIH),

Department of Transportation (DOT) (more than 90 percent from the Federal Aviation Administration and Federal Highway Administration), and DOC (more than three-fourths from NIST). However, after adjusting for inflation, all six of these agencies report an expected decrease in development funding for FY 1997: DOC (down 19 percent), NASA (down 9 percent), DOD (down 6 percent), DOE (down 5 percent), DOT (down 1 percent), and HHS (down under 1 percent).

To better understand the component pieces of Federal R&D funding and to allow a closer look at the funding activity of DOD agencies that report to the Federal Funds Survey, NSF collects data on DOD development dollars in two categories: advanced technology development and major systems development. Advanced technology includes development for military and nondefense applications. Major systems

Chart 2. Federal Obligations for R&D and R&D Plant: Fiscal Years 1990-97



SOURCE: NSF/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table 2. Federal Obligations for Development: Fiscal Years 1990-97

| Agency | FY 1990 Actual | FY 1991 Actual | FY 1992 Actual | FY 1993 Actual | FY 1994 Actual | FY 1995 Actual | FY 1996 Preliminary | FY 1997 Preliminary | Average annual percent change, FY 1990-97 |
|-------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------------|------------------------|---|
| (millions of current dollars) | | | | | | | | | |
| Total..... | 41,937 | 37,327 | 41,102 | 40,424 | 39,815 | 40,181 | 40,499 | 38,890 | -1.1 |
| DOD..... | 33,739 | 28,417 | 32,056 | 31,066 | 30,304 | 30,028 | 30,336 | 29,103 | -2.1 |
| NASA..... | 3,473 | 3,909 | 4,428 | 4,471 | 4,456 | 4,969 | 5,332 | 4,964 | 5.2 |
| DOE..... | 3,060 | 2,709 | 2,760 | 2,822 | 2,766 | 2,685 | 2,376 | 2,320 | -3.9 |
| HHS..... | 939 | 1,594 | 1,042 | 1,157 | 1,285 | 1,379 | 1,390 | 1,417 | 6.1 |
| DOT..... | 247 | 265 | 288 | 319 | 347 | 356 | 307 | 311 | 3.3 |
| DOC..... | 61 | 40 | 55 | 74 | 108 | 244 | 275 | 227 | 20.6 |
| USDA..... | 47 | 61 | 66 | 76 | 77 | 80 | 150 | 82 | 8.3 |
| Other..... | 371 | 331 | 406 | 439 | 473 | 440 | 334 | 466 | 3.3 |
| (millions of constant 1992 dollars) | | | | | | | | | |
| Total..... | 44,997 | 38,402 | 41,102 | 39,399 | 37,919 | 37,343 | 36,784 | 34,447 | -3.7 |
| DOD..... | 36,201 | 29,235 | 32,056 | 30,278 | 28,861 | 27,907 | 27,553 | 25,778 | -4.7 |
| NASA..... | 3,726 | 4,022 | 4,428 | 4,358 | 4,244 | 4,618 | 4,843 | 4,396 | 2.4 |
| DOE..... | 3,283 | 2,788 | 2,760 | 2,750 | 2,634 | 2,495 | 2,158 | 2,055 | -6.5 |
| HHS..... | 1,007 | 1,639 | 1,042 | 1,127 | 1,224 | 1,282 | 1,262 | 1,255 | 3.2 |
| DOT..... | 265 | 273 | 288 | 311 | 331 | 331 | 279 | 276 | 0.5 |
| DOC..... | 66 | 41 | 55 | 72 | 103 | 226 | 249 | 201 | 17.4 |
| USDA..... | 51 | 63 | 66 | 74 | 74 | 75 | 136 | 73 | 5.4 |
| Other..... | 398 | 341 | 406 | 428 | 450 | 409 | 303 | 413 | 0.5 |

SOURCE: NSF/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

include testing and evaluation of mostly defense-related systems. This *Federal Funds* volume is the second to include such statistics on development funding.

DOD expects to provide \$25 billion (86 percent of its total development obligations) toward major systems development, which represents a projected 2-percent drop in FY 1997 (down 4 percent in constant 1992 dollars) (Table 3). Combined, the Air Force, Navy, Army (its Military Functions component), and BMDO expect to account for \$23 billion (94 percent) of the estimated major systems development obligations. However, three of these four funders expect decreases in major systems development from FYs 1996-97—Army and Navy expect to decline by 5.5 percent and 15 percent, respectively, and BMDO is slated to drop by 11 percent. Air Force will increase its

funding more than \$1 billion (12 percent), three times the increase from FYs 1995-96.

DOD projects that advanced technology development funding will decrease \$0.7 billion (15 percent to \$4 billion) in FY 1997. Six DOD agencies account for nearly all (97 percent) of the estimated advanced technology development funding. They are the Defense Advanced Research Projects Agency (DARPA) (\$1 billion for advanced technology development), WHS (\$0.7 billion), BMDO (\$0.6 billion), and the three service agencies, each with \$0.5 billion. However, each of these agencies reports an expected decrease in funding for advanced technology development from FYs 1996-97—Army down by \$300 million, WHS down by \$181 million, BMDO down by \$125 million, and DARPA down by \$103 million.

Table 3. Federal Obligations for Development by Agencies in DOD: Fiscal Years 1994-97

(millions of current dollars)

| | FY 1994 Actual | FY 1995 Actual | FY 1996 Preliminary | FY 1997 Preliminary | Percentage Change FYs 1996-97 |
|-----------------------------|----------------|----------------|---------------------|---------------------|-------------------------------|
| Total DOD..... | | | | | |
| Basic Research..... | 1,222 | 1,264 | 1,134 | 1,146 | 1.0 |
| Applied Research..... | 3,040 | 3,070 | 2,814 | 2,716 | -3.5 |
| Development 1/..... | 30,304 | 30,028 | 30,336 | 29,103 | -4.1 |
| Advanced Tech..... | 4,461 | 4,578 | 4,829 | 4,101 | -15.1 |
| Major Systems..... | 25,812 | 25,450 | 25,507 | 25,002 | -2.0 |
| Army..... | | | | | |
| Development..... | 4,721 | 4,567 | 4,184 | 3,701 | -11.5 |
| Advanced Tech..... | 1,187 | 641 | 764 | 470 | -38.4 |
| Major Systems..... | 3,514 | 3,926 | 3,421 | 3,231 | -5.5 |
| Navy..... | | | | | |
| Development..... | 8,082 | 8,083 | 7,863 | 6,728 | -14.4 |
| Advanced Tech..... | 412 | 414 | 484 | 449 | -7.2 |
| Major Systems..... | 7,670 | 7,669 | 7,379 | 6,279 | -14.9 |
| Air Force..... | | | | | |
| Development..... | 11,713 | 10,963 | 11,214 | 12,487 | 11.4 |
| Advanced Tech..... | 448 | 566 | 501 | 487 | -2.8 |
| Major Systems..... | 11,265 | 10,398 | 10,713 | 12,000 | 12.0 |
| Total Defense Agencies..... | | | | | |
| Development..... | 5,544 | 6,161 | 6,824 | 5,913 | -13.3 |
| Advanced Tech..... | 2,414 | 2,958 | 3,080 | 2,695 | -12.5 |
| Major Systems..... | 3,120 | 3,204 | 3,744 | 3,218 | -14.0 |

1/ DOD development does not equal the sum of the advanced technology and major systems detail because some DOD agencies could not break down development into these two categories.

SOURCE: NSF/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

BASIC RESEARCH FUNDING

Basic research support will reach almost \$15 billion dollars, according to the preliminary FY 1997 estimates. By comparison, Federal agencies report applied research funding will total just slightly more than \$14 billion. In constant 1992 dollars, basic research will decrease nearly 1 percent, and applied research will remain flat.

The basic research share of Federal R&D obligations has increased slowly since FY 1992. In FY 1992, basic research comprised 18 percent of the total R&D. That percentage increased slightly each year and reaches 21 percent in FY 1997, according to preliminary estimates. Overall, Federal agencies report a 4-

percent average annual rate of growth (1 percent in constant 1992 dollars) from FYs 1990-97. When adjusted for inflation, basic research funding has held steady at about \$13 billion since FY 1993.

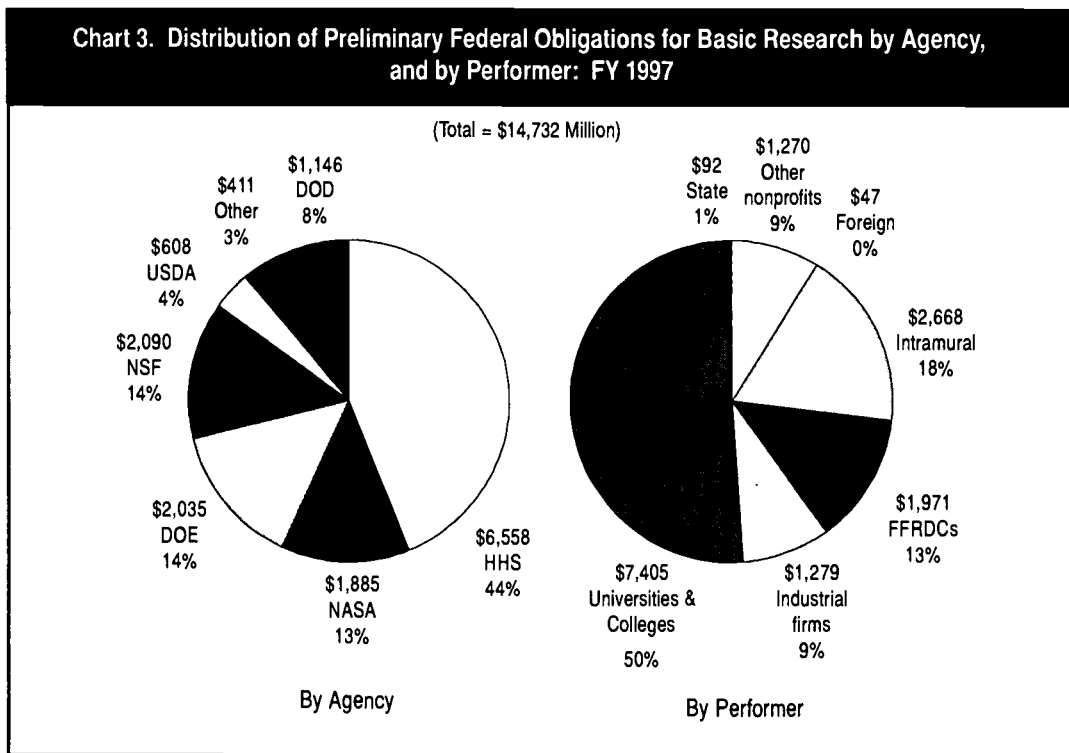
Six agencies provide 97 percent of the estimated Federal basic research total in FY 1997 (Chart 3). They are HHS (almost entirely from NIH), NSF, DOE, NASA, DOD, and USDA. Of these six agencies, only NASA reports an expected decrease in basic research funding for FY 1997, dropping 6 percent (down \$124 million). Each of the other five agencies expects strong to modest increases in basic research funding: NSF (6 percent); DOE (4 percent); USDA (4 percent); HHS (2 percent); and the DOD (1 percent).

After adjusting for inflation, HHS expects its obligations for basic research to average 2-percent annual growth from FYs 1990-97. DOE would increase basic research funding second fastest, with just under 2-percent real-dollar growth during the same time period. NSF reports a basic research funding growth rate of 1 percent, and DOD reveals a flat rate. In real dollars, USDA and NASA expect slightly less funding for basic research in FY 1997 than was available in FY 1990.

PERFORMERS OF BASIC RESEARCH

Universities and colleges, receiving 50 percent of the Federal basic research funds in FY 1997, might expect a 4.5-percent decrease in such obligations to \$7.4 billion in that year (Chart 3). Intramural performers of basic research, which covers Federal in-house performance and costs associated with the planning and administration of both internal and external basic research programs by Federal personnel, are slated to receive 18 percent of all Federal basic research funds. This represents a 10.5-percent increase over FY 1996 funding, reversing the 11-percent drop from FYs 1995-

96. The largest Federal intramural basic research performers in FY 1997 include HHS, \$1.1 billion (nearly all performed by NIH); NASA, \$0.5 billion; USDA, \$0.4 billion (91 percent from the Agricultural Research Service), and DOD, \$0.3 billion (mostly from the three service agencies: Army, Navy, and Air Force) (Table 4). Federally Funded Research and Development Centers (such as Jet Propulsion Laboratory, Sandia National Laboratories, and Lincoln Laboratory) will receive 13 percent of the total basic research funds, or \$2 billion. Industrial firms can expect to receive 9 percent of the basic research, an increase of 4 percent over the FY 1996 funding level. Non-academic nonprofit organizations might expect to receive nearly 9 percent of the basic research funds, increasing more than \$0.2 billion (an increase of nearly 20 percent) over the FY 1996 funding level. State and local governments, which as a group will receive less than one percent of all Federal basic research funds, and foreign performers which will receive under a half percent of basic research funds, are projected to receive large percentage increases for FY 1997, 31 percent and 13 percent, respectively.



SOURCE: NSF/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table 4. Preliminary Federal Obligations for Basic Research, by Agency and Performer: Fiscal Year 1997

(in millions of current dollars)

| Agency | Total | Intramural | Industrial Firms | All FFRDCs | Univ. & Colleges | Other Nonprofits | State & Local Governments | Foreign |
|------------|--------|------------|------------------|------------|------------------|------------------|---------------------------|---------|
| Total..... | 14,732 | 2,668 | 1,279 | 1,971 | 7,405 | 1,270 | 92 | 47 |
| DOD..... | 1,146 | 293 | 153 | 5 | 647 | 39 | 0 | 9 |
| HHS..... | 6,558 | 1,142 | 270 | 154 | 3,928 | 973 | 64 | 27 |
| NASA..... | 1,885 | 471 | 614 | 258 | 480 | 56 | 1 | 3 |
| DOE..... | 2,035 | 69 | 103 | 1,407 | 440 | 14 | 2 | 1 |
| NSF..... | 2,090 | 18 | 90 | 146 | 1,680 | 149 | 3 | 4 |
| USDA..... | 608 | 395 | 7 | 0 | 199 | 4 | 1 | 2 |
| Other..... | 411 | 280 | 41 | 0 | 31 | 35 | 23 | 1 |

SOURCE: NSF/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

GENERAL NOTES

Data in the tables of this publication were derived from the Survey of Federal Funds for Research and Development, Volume 45, for fiscal years 1995–97. They reflect research and development (R&D) funding levels as reported by 33 Federal agencies in May through August 1996. All agencies that conduct 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 1995 are actual, representing completed transactions. Data for 1996 and 1997 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 1996. The amounts reported for 1996 reflect congressional appropriation actions as of that period, as

well as apportionment and reprogramming decisions as of that time. Data for 1997 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 1995, 1996, and 1997*, Volume 45, should be directed to—

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Note

For trend comparison, use only the historical data for fiscal years 1976–97 contained in tables C-89 through C-109a in this Federal funds, Volume 45 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

SCOPE AND METHOD

During the period May through August 1996, a total of 33 Federal agencies and their subdivisions—98 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), Volume 45, which was distributed in February 1996. 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.

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 1995, 1996, and 1997 appearing in *The Budget of the United States Government, Fiscal Year 1997*. 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 1995 and those estimated for fiscal years 1996 and 1997.

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 1995 began on October 1, 1994, and ended September 30, 1995.

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.

b. **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 inter-disciplinary 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 engaged primarily in providing resident and/or accredited instruction for at least a one-year program above the secondary school level. 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 1995 R&D obligations**
- 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 1995. 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.
 - Actual fiscal year 1995 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.
 - Obligations were reported for R&D as a combined amount.
 - 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 forms each year, agency respondents make revisions to their estimates for the latest 2 years of the previous report, in this case fiscal years 1995 and 1996. 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.

LIMITATIONS OF THE DATA

Funds for research and development were reported on a three-year basis comparable with the 1997 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 1997 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 Department of Defense (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 1995-97. The list is arranged by sponsoring agency and adminis-

tering organization. Respondents reported under the FFRDC category those funds obligated to centers identified on this list.

Federally funded R&D 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 | | Institute for Defense Analyses Studies and Analyses FFRDC (Institute for Defense Analyses), Alexandria, VA Logistics Management Institute (Logistics Management Institute), McLean, VA ³ National Defense Research Institute (RAND Corp. ⁴), Santa Monica, CA C3I Federally Funded Research and Development Center (MITRE Corp. ⁵), Bedford, MA, and McLean, VA | |
| Defense Advanced Research Projects Agency | Software Engineering Institute (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. ⁴), Santa Monica, CA | |
| Department of the Army ⁵ | | Arvo Center (RAND Corp. ⁴), Santa Monica, CA | |
| DEPARTMENT OF ENERGY ⁸ | Ames Laboratory (Iowa State University of Science and Technology), Ames, IA Argonne National Laboratory (University of Chicago), Argonne, IL Brookhaven National Laboratory (Associated Universities, Inc.), Upton, Long Island, NY | National Renewable Energy Laboratory ⁹ (Midwest Research Institute), Golden, CO Pacific Northwest National Laboratory (Battelle Memorial Institute), Richland, WA | Idaho National Engineering 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 |

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 colleges¹ | Administered by other nonprofit institutions² | Administered by Industrial firms |
|---|--|---|--|
| DEPARTMENT OF ENERGY ⁸ continued | Ernest Orlando Lawrence Berkeley National Laboratory (University of California), Berkeley, CA Fermi National Accelerator Laboratory (Universities Research Association, Inc.), Batavia, IL Lawrence Livermore National Laboratory (University of California), Livermore, CA Los Alamos National Laboratory (University of California), Los Alamos, NM 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 ¹⁰ | | Savannah River Technology Center (Westinghouse Savannah River Co.), Alken, SC |
| 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 | | |

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

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

| Sponsoring agency | Administered by universities and colleges¹ | Administered by other nonprofit institutions² | Administered by industrial firms |
|--|---|--|---|
| NATIONAL SCIENCE FOUNDATION | <p>National Astronomy and Ionosphere Center (Cornell University), Arecibo, PR</p> <p>National Center for Atmospheric Research (University Corp. for Atmospheric Research), Boulder, CO</p> <p>National Optical Astronomy Observatories¹¹ (Association of Universities for Research in Astronomy, Inc.), Tucson, AZ</p> <p>National Radio Astronomy Observatory (Associated Universities, Inc.), Green Bank, WV</p> | Critical Technologies Institute (RAND Corp. ⁴), Washington, DC | |
| 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 Logistics Management Institute moved from Bethesda, MD, to McLean, VA, in May 1994.
- ⁴ 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."
- ⁵ 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."
- ⁶ The Department of the Army decertified the Institute for Advanced Technology (University of Texas), Austin, TX, as an FFRDC in November 1993.
- 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 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.
- ⁹ In September 1991 the name was changed from Solar Energy Research Institute.
- ¹⁰ In May 1996 the name was changed from Continuous Electron Beam Accelerator Facility.
- ¹¹ 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/SRS

Updates of this list and an Annotated List of FFRDCs are available at <http://www.nsf.gov/sbe/srs/frdc96/start.htm>.

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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 Defense Advanced Research Projects Agency, the Ballistic Missile Defense Organization, the Defense Information Systems Agency, the Defense Logistics Agency, the Defense Mapping Agency, the Defense Nuclear Agency, the Joint Staff, the Special Operations Command, and the Washington Headquarters Services.
- Data for the Washington Headquarters Services’ (WHS) submission for Volumes 44 and 45 are derived from appropriated Department of Defense (DOD) budget baselines and may include a portion of the Defense Research and Engineering (DR&E) data. NSF will update all data tables in Volume 46 to reflect WHS data revisions.

Table C-1. Federal obligations for research and development, by character of work, and R&D plant: fiscal years 1951-97

[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 | 69,426,972 | 67,255,776 | 13,552,858 | 13,887,494 | 39,815,424 | 2,171,196 |
| 1995 | 71,011,759 | 68,754,875 | 13,895,493 | 14,677,941 | 40,181,441 | 2,256,884 |
| 1996 (Preliminary) | 71,047,756 | 69,076,929 | 14,482,056 | 14,095,711 | 40,499,162 | 1,970,827 |
| 1997 (Preliminary) | 70,148,683 | 68,063,742 | 14,732,254 | 14,441,282 | 38,890,206 | 2,084,941 |

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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

**Table C-2. Summary of Federal funds for research and development and for R&D plant:
fiscal years 1995, 1996, and 1997**

[In millions of dollars and percentages]

Page 1 of 2

| Item | 1995 | Preliminary | | | |
|--|------------|-------------|---------------------------|------------|---------------------------|
| | | 1996 | Percentage change 1995-96 | 1997 | Percentage change 1996-97 |
| Total outlays for research and development and for R&D plant | \$68,410.0 | \$69,180.0 | 1.1 | \$70,118.4 | 1.4 |
| Research and development | 66,374.6 | 66,876.9 | .8 | 67,691.5 | 1.2 |
| R&D plant | 2,035.4 | 2,303.1 | 13.2 | 2,426.9 | 5.4 |
| Total obligations for research and development and for R&D plant | 71,011.8 | 71,047.8 | .1 | 70,148.7 | -1.3 |
| Research and development, total | 68,754.9 | 69,076.9 | .5 | 68,063.7 | -1.5 |
| By performers: | | | | | |
| Intramural ¹ | 17,342.7 | 16,897.0 | -2.6 | 16,403.7 | -2.9 |
| Industrial firms | 30,468.7 | 31,267.6 | 2.6 | 30,712.6 | -1.8 |
| FFRDCs administered by industrial firms | 1,203.9 | 1,231.3 | 2.3 | 1,339.5 | 8.8 |
| Universities and colleges | 11,933.0 | 12,251.2 | 2.7 | 12,362.2 | .9 |
| FFRDCs administered by universities and colleges | 3,574.3 | 3,302.2 | -7.6 | 3,230.6 | -2.2 |
| Other nonprofit institutions | 2,806.5 | 2,866.6 | 2.1 | 2,883.6 | .6 |
| FFRDCs administered by nonprofit institutions | 831.4 | 721.2 | -13.3 | 644.1 | -10.7 |
| State and local governments | 316.5 | 273.8 | -13.5 | 281.6 | 2.9 |
| Foreign | 277.8 | 266.0 | -4.2 | 205.9 | -22.6 |
| Research, total | 28,573.4 | 28,577.8 | * | 29,173.5 | 2.1 |
| By performers: | | | | | |
| Intramural ¹ | 7,787.8 | 7,404.3 | -4.9 | 7,696.1 | 3.9 |
| Industrial firms | 4,727.9 | 4,672.8 | -1.2 | 4,799.7 | 2.7 |
| FFRDCs administered by industrial firms | 818.0 | 877.7 | 7.3 | 1,005.5 | 14.6 |
| Universities and colleges | 10,371.6 | 10,919.9 | 5.3 | 10,823.3 | -.9 |
| FFRDCs administered by universities and colleges | 2,235.6 | 2,085.7 | -6.7 | 2,131.1 | 2.2 |
| Other nonprofit institutions | 2,056.1 | 2,101.0 | 2.2 | 2,199.9 | 4.7 |
| FFRDCs administered by nonprofit institutions | 210.1 | 183.7 | -12.6 | 191.6 | 4.3 |
| State and local governments | 221.4 | 198.9 | -10.2 | 207.0 | 4.1 |
| Foreign | 144.8 | 133.9 | -7.6 | 119.3 | -10.9 |
| By fields of science: | | | | | |
| Life sciences | 11,869.4 | 12,150.1 | 2.4 | 12,299.6 | 1.2 |
| Psychology | 620.8 | 641.3 | 3.3 | 650.2 | 1.4 |
| Physical sciences | 4,281.6 | 4,322.4 | 1.0 | 4,398.2 | 1.8 |
| Environmental sciences | 2,947.4 | 2,924.1 | -.8 | 2,955.1 | 1.1 |
| Mathematics and computer sciences | 1,530.9 | 1,508.3 | -1.5 | 1,545.8 | 2.5 |
| Engineering | 5,740.1 | 5,508.5 | -4.0 | 5,707.7 | 3.6 |
| Social sciences | 681.5 | 669.4 | -1.8 | 727.6 | 8.7 |
| Other sciences, n.e.c. | 901.8 | 853.5 | -5.4 | 889.3 | 4.2 |
| Basic research, total | 13,895.5 | 14,482.1 | 4.2 | 14,732.3 | 1.7 |
| By performers: | | | | | |
| Intramural ¹ | 2,712.9 | 2,413.9 | -11.0 | 2,667.8 | 10.5 |
| Industrial firms | 1,221.2 | 1,225.7 | .4 | 1,279.1 | 4.4 |
| FFRDCs administered by industrial firms | 239.1 | 339.9 | 42.2 | 368.3 | 8.3 |
| Universities and colleges | 6,951.3 | 7,753.6 | 11.5 | 7,405.5 | -4.5 |
| FFRDCs administered by universities and colleges | 1,438.3 | 1,503.5 | 4.5 | 1,519.7 | 1.1 |
| Other nonprofit institutions | 1,134.2 | 1,062.1 | -6.4 | 1,270.2 | 19.6 |
| FFRDCs administered by nonprofit institutions | 75.2 | 71.6 | -4.8 | 82.9 | 15.8 |
| State and local governments | 78.7 | 70.4 | -10.6 | 92.3 | 31.2 |
| Foreign | 44.5 | 41.3 | -7.2 | 46.5 | 12.6 |
| By fields of science: | | | | | |
| Life sciences | 6,645.3 | 6,896.1 | 3.8 | 7,043.4 | 2.1 |
| Psychology | 275.5 | 288.6 | 4.7 | 294.4 | 2.0 |
| Physical sciences | 2,863.0 | 3,160.7 | 10.4 | 3,185.6 | .8 |
| Environmental sciences | 1,473.2 | 1,512.7 | 2.7 | 1,496.0 | -1.1 |
| Mathematics and computer sciences | 554.0 | 597.8 | 7.9 | 604.3 | 1.1 |
| Engineering | 1,468.1 | 1,392.5 | -5.1 | 1,453.2 | 4.4 |
| Social sciences | 209.5 | 214.5 | 2.4 | 226.7 | 5.7 |
| Other sciences, n.e.c. | 406.9 | 419.0 | 3.0 | 428.5 | 2.3 |

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 1995, 1996, and 1997

[In millions of dollars and percentages]

| Item | 1995 | Preliminary | | | |
|--|------------|-------------|---------------------------|------------|---------------------------|
| | | 1996 | Percentage change 1995-96 | 1997 | Percentage change 1996-97 |
| Applied research, total | \$14,677.9 | \$14,095.7 | -4.0 | \$14,441.3 | 2.5 |
| By performers: | | | | | |
| Intramural ¹ | 5,074.9 | 4,990.4 | -1.7 | 5,028.3 | .8 |
| Industrial firms | 3,506.7 | 3,447.1 | -1.7 | 3,520.6 | 2.1 |
| FFRDCs administered by industrial firms | 578.9 | 537.7 | -7.1 | 637.2 | 18.5 |
| Universities and colleges | 3,420.3 | 3,166.3 | -7.4 | 3,417.8 | 7.9 |
| FFRDCs administered by universities and colleges | 797.3 | 582.2 | -27.0 | 611.4 | 5.0 |
| Other nonprofit institutions | 921.9 | 1,038.9 | 12.7 | 929.7 | -10.5 |
| FFRDCs administered by nonprofit institutions | 134.9 | 112.1 | -16.9 | 108.7 | -3.0 |
| State and local governments | 142.7 | 128.5 | -9.9 | 114.7 | -10.8 |
| Foreign | 100.3 | 92.6 | -7.7 | 72.8 | -21.3 |
| By fields of science: | | | | | |
| Life sciences | 5,224.1 | 5,254.0 | .6 | 5,256.2 | * |
| Psychology | 345.2 | 352.7 | 2.2 | 355.9 | .9 |
| Physical sciences | 1,418.5 | 1,161.7 | -18.1 | 1,212.6 | 4.4 |
| Environmental sciences | 1,474.2 | 1,411.4 | -4.3 | 1,459.1 | 3.4 |
| Mathematics and computer sciences | 976.9 | 910.5 | -6.8 | 941.5 | 3.4 |
| Engineering | 4,272.0 | 4,116.0 | -3.7 | 4,254.5 | 3.4 |
| Social sciences | 472.0 | 454.8 | -3.6 | 500.9 | 10.1 |
| Other sciences, n.e.c. | 494.9 | 434.5 | -12.2 | 460.7 | 6.0 |
| Development, total | 40,181.4 | 40,499.2 | .8 | 38,890.2 | -4.0 |
| By performers: | | | | | |
| Intramural ¹ | 9,554.9 | 9,492.8 | -.7 | 8,707.6 | -8.3 |
| Industrial firms | 25,740.7 | 26,594.8 | 3.3 | 25,912.9 | -2.6 |
| FFRDCs administered by industrial firms | 385.9 | 353.6 | -8.4 | 334.0 | -5.5 |
| Universities and colleges | 1,561.4 | 1,331.3 | -14.7 | 1,538.9 | 15.6 |
| FFRDCs administered by universities and colleges | 1,338.7 | 1,216.5 | -9.1 | 1,099.5 | -9.6 |
| Other nonprofit institutions | 750.4 | 765.6 | 2.0 | 683.7 | -10.7 |
| FFRDCs administered by nonprofit institutions | 621.3 | 537.5 | -13.5 | 452.5 | -15.8 |
| State and local governments | 95.1 | 74.9 | -21.3 | 74.6 | -.4 |
| Foreign | 133.0 | 132.2 | -.6 | 86.5 | -34.5 |
| R&D plant, total | 2,256.9 | 1,970.8 | -12.7 | 2,084.9 | 5.8 |
| By performers supported: | | | | | |
| Intramural | 482.6 | 571.1 | 18.3 | 723.7 | 26.7 |
| Industrial firms | 696.6 | 415.0 | -40.4 | 407.5 | -1.8 |
| FFRDCs administered by industrial firms | 95.1 | 77.1 | -19.0 | 83.3 | 8.0 |
| Universities and colleges | 323.8 | 279.6 | -13.7 | 157.4 | -43.7 |
| FFRDCs administered by universities and colleges | 543.9 | 536.2 | -1.4 | 642.1 | 19.7 |
| Other nonprofit institutions | 25.6 | 21.7 | -15.1 | 12.2 | -43.7 |
| FFRDCs administered by nonprofit institutions | 62.6 | 69.7 | 11.3 | 58.2 | -16.5 |
| State and local governments | .5 | .5 | .0 | .5 | .0 |
| Foreign | 26.1 | .0 | -100.0 | .0 | .0 |

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

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

KEY: * = Percentage less than .05%
 FFRDCs = Federally funded research and development centers
 n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-3. Federal funds for research and development and for R&D plant, by agency: fiscal years 1995, 1996, and 1997

(Dollars in millions)

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| Agency and subdivision | Obligations | | | Outlays | | |
|---|-------------|-------------|----------|----------|-------------|----------|
| | 1995 | Preliminary | | 1995 | Preliminary | |
| | | 1996 | 1997 | | 1996 | 1997 |
| Total, all agencies | 71,011.8 | 71,047.8 | 70,148.7 | 68,410.0 | 69,180.0 | 70,118.4 |
| Departments: | | | | | | |
| Department of Agriculture, total | 1,523.1 | 1,501.8 | 1,493.8 | 1,503.8 | 1,512.2 | 1,507.1 |
| Agricultural Marketing Service | 4.8 | 4.9 | 4.9 | 5.0 | 4.9 | 4.9 |
| Agricultural Research Service ¹ | 751.0 | 759.3 | 819.9 | 758.4 | 768.2 | 790.4 |
| Animal & Plant Health Inspection Service | 19.1 | 21.2 | 20.6 | 19.1 | 21.2 | 20.6 |
| Cooperative State Research, Education, & Extension Service ² | 489.0 | 473.2 | 402.2 | 463.9 | 474.8 | 445.2 |
| Economic Research Service | 53.8 | 53.1 | 54.9 | 52.0 | 53.2 | 54.7 |
| Foreign Agricultural Service ³ | .5 | 1.4 | 1.4 | .5 | 1.4 | 1.4 |
| Forest Service | 197.8 | 180.5 | 181.8 | 197.8 | 180.5 | 181.8 |
| Grain Inspection Packers & Stockyards Admin ⁴ | 1.5 | 2.8 | 2.8 | 1.5 | 2.8 | 2.8 |
| National Agricultural Statistics Service | 4.0 | 3.9 | 3.9 | 4.2 | 3.8 | 3.9 |
| Rural Business-Cooperative Service ⁵ | 1.6 | 1.4 | 1.4 | 1.6 | 1.4 | 1.4 |
| Department of Commerce, total | 1,213.7 | 1,252.4 | 1,201.4 | 886.4 | 957.7 | 1,040.3 |
| Bureau of the Census | 4.9 | 7.1 | 7.1 | 5.1 | 7.4 | 7.4 |
| Economic Development Administration | .5 | .5 | 1.5 | 1.0 | .5 | 1.5 |
| National Institute of Standards & Technology | 640.5 | 711.2 | 647.0 | 350.4 | 416.2 | 485.6 |
| National Oceanic & Atmospheric Administration | 561.4 | 529.1 | 541.1 | 523.6 | 529.1 | 541.1 |
| Nat'l Telecommunications & Information Admin | 6.4 | 4.5 | 4.7 | 6.4 | 4.5 | 4.7 |
| Office of the Secretary | - | - | .0 | - | .0 | .0 |
| Department of Defense, total | 34,427.3 | 34,368.8 | 33,004.3 | 33,712.5 | 33,499.0 | 32,870.5 |
| Department of the Army, total | 5,424.7 | 4,838.5 | 4,377.7 | 5,137.3 | 5,112.4 | 4,581.2 |
| Department of the Army, Civil Functions ⁶ | 56.3 | 29.4 | 36.2 | 56.3 | 29.4 | 36.2 |
| Department of the Army, Military Functions | 5,368.5 | 4,809.1 | 4,341.5 | 5,081.0 | 5,083.0 | 4,545.0 |
| Department of the Navy | 8,974.5 | 8,812.3 | 7,593.6 | 9,454.1 | 8,571.5 | 7,952.5 |
| Department of the Air Force | 11,835.7 | 12,123.6 | 13,379.7 | 12,051.8 | 11,809.3 | 12,987.5 |
| Defense Agencies, total | 7,939.6 | 8,343.6 | 7,380.3 | 6,822.7 | 7,727.9 | 7,075.4 |
| Ballistic Missile Defense Organization | 2,400.7 | 2,937.3 | 2,568.5 | 2,423.6 | 2,991.7 | 2,628.2 |
| Defense Advanced Research Projects Agency ⁷ | 2,503.8 | 2,255.0 | 2,185.7 | 2,391.4 | 2,324.2 | 2,235.9 |
| Defense Information Systems Agency | 79.0 | 56.3 | 66.6 | 72.0 | 60.0 | 54.2 |
| Defense Logistics Agency | 33.8 | 35.1 | 38.8 | 27.6 | 41.2 | 44.0 |
| Defense Mapping Agency | 78.3 | 58.9 | 95.2 | 36.2 | 65.4 | 88.2 |
| Defense Nuclear Agency | 243.9 | 194.8 | 224.4 | 320.4 | 270.3 | 244.8 |
| Joint Staff | 4.2 | 12.5 | 38.8 | 4.2 | 12.5 | 38.8 |
| Special Operations Command | 264.6 | 156.9 | 125.6 | 219.9 | 278.5 | 144.6 |
| Washington Headquarters Services ⁸ | 2,331.4 | 2,636.8 | 2,036.7 | 1,327.5 | 1,684.1 | 1,596.7 |
| Operational Test & Evaluation, Director | 21.7 | 23.0 | 22.0 | 12.4 | 30.8 | 21.8 |
| Test & Evaluation, Deputy Under Secretary of Defense | 231.0 | 227.8 | 251.0 | 234.3 | 247.1 | 252.0 |
| Department of Education | 179.4 | 181.7 | 188.1 | 180.6 | 181.0 | 170.2 |
| Department of Energy | 6,890.0 | 6,431.5 | 6,721.1 | 7,016.3 | 6,728.5 | 6,879.3 |
| Department of Health & Human Services, total | 11,711.0 | 12,218.0 | 12,614.2 | 11,245.2 | 11,321.4 | 12,318.1 |
| Administration on Aging | 20.7 | 3.7 | 3.2 | 20.7 | 2.9 | 2.9 |
| Administration for Children & Families | 12.0 | 9.0 | 19.0 | 12.0 | 9.0 | 19.0 |
| Agency for Health Care Policy & Research | 135.3 | 65.2 | 84.0 | 133.0 | 124.0 | 85.0 |
| Centers for Disease Control & Prevention | 317.4 | 323.2 | 361.2 | 317.4 | 323.4 | 361.2 |
| Food & Drug Administration | 175.8 | 182.6 | 178.8 | 147.9 | 154.6 | 146.1 |
| Health Care Financing Administration | 74.5 | 54.5 | 55.3 | 72.9 | 70.1 | 59.0 |
| Health Resources & Services Administration | 14.8 | 14.0 | 12.7 | 14.4 | 13.7 | 12.7 |
| National Institutes of Health ⁹ | 10,930.6 | 11,556.3 | 11,890.5 | 10,511.5 | 10,616.4 | 11,625.8 |
| Office of the Assistant Secretary for Health | .3 | .5 | .6 | .6 | .5 | .5 |
| Office of the Secretary | 9.1 | 9.0 | 9.0 | 3.5 | 7.0 | 6.0 |
| Social Security Administration ¹⁰ | 20.4 | .0 | .0 | 11.3 | .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 1995, 1996, and 1997**

[Dollars in millions]

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| Agency and subdivision | Obligations | | | Outlays | | |
|--|-------------|-------------|-------|---------|-------------|-------|
| | 1995 | Preliminary | | 1995 | Preliminary | |
| | | 1996 | 1997 | | 1996 | 1997 |
| Department of Housing & Urban Development | 41.8 | 35.0 | 45.5 | 38.0 | 34.8 | 39.1 |
| Department of the Interior, total | 568.3 | 567.5 | 580.6 | 558.8 | 570.0 | 591.4 |
| Bureau of Reclamation | 8.0 | 6.0 | 7.6 | 8.0 | 6.0 | 7.6 |
| Geological Survey ¹¹ | 367.4 | 519.9 | 530.6 | 359.3 | 522.4 | 541.4 |
| Minerals Management Service | 21.0 | 21.8 | 21.6 | 20.8 | 21.7 | 21.6 |
| National Biological Service ^{12 11} | 152.1 | .0 | .0 | 151.0 | .0 | .0 |
| National Park Service ¹² | 19.7 | 19.8 | 20.8 | 19.7 | 19.8 | 20.8 |
| Office of the Secretary | - | - | .0 | - | - | .0 |
| Department of Justice, total | 57.9 | 80.9 | 93.7 | 49.0 | 76.9 | 93.8 |
| Bureau of Prisons | 5.7 | 4.7 | 4.7 | 5.7 | 4.7 | 4.7 |
| Drug Enforcement Administration | .4 | 1.2 | .5 | .4 | 1.2 | .5 |
| Federal Bureau of Investigation | 10.9 | 36.8 | 34.8 | 10.9 | 36.8 | 34.8 |
| Immigration & Naturalization Service | .4 | .4 | .4 | .4 | .4 | .4 |
| Office of Justice Programs | 40.5 | 37.8 | 53.2 | 31.5 | 33.8 | 53.3 |
| Department of Labor, total | 53.7 | 46.5 | 42.9 | 51.7 | 48.1 | 45.7 |
| Bureau of Labor Statistics | 13.1 | 13.3 | 12.6 | 13.1 | 13.3 | 12.6 |
| Employment & Training Administration | 25.6 | 20.8 | 17.3 | 23.1 | 23.4 | 21.1 |
| Occupational Safety & Health Administration | 4.4 | 3.2 | 3.5 | 4.3 | 3.1 | 3.6 |
| Office of the Secretary | 6.3 | 6.4 | 6.5 | 6.2 | 5.4 | 5.4 |
| Pension Benefit Guaranty Corporation | .8 | .6 | .7 | 1.4 | .6 | .7 |
| Pension & Welfare Benefits Administration | 3.6 | 2.3 | 2.3 | 3.6 | 2.3 | 2.3 |
| Department of State | 5.0 | 4.3 | 4.3 | 5.0 | 4.3 | 4.3 |
| Department of Transportation, total | 755.8 | 670.5 | 728.2 | 661.4 | 551.1 | 864.2 |
| Coast Guard | 20.2 | 20.6 | 20.3 | 21.1 | 24.1 | 24.5 |
| Federal Aviation Administration | 310.1 | 238.2 | 240.9 | 270.8 | 277.6 | 260.9 |
| Federal Highway Administration | 315.6 | 308.6 | 363.4 | 260.6 | 133.5 | 456.9 |
| Federal Railroad Administration | 30.1 | 34.5 | 27.6 | 22.8 | 37.1 | 32.3 |
| Federal Transit Administration | 28.7 | 16.0 | 14.6 | 33.4 | 27.7 | 22.1 |
| Maritime Administration | 2.5 | .0 | 2.0 | 2.3 | .3 | 1.8 |
| National Highway Traffic Safety Admin | 39.7 | 38.2 | 45.7 | 41.4 | 39.2 | 51.8 |
| Office of the Secretary | 3.9 | 2.9 | 2.8 | 4.0 | 2.8 | 2.8 |
| Research & Special Programs Administration | 5.0 | 11.5 | 10.9 | 4.9 | 8.8 | 11.2 |
| Department of the Treasury, total | 61.5 | 63.8 | 64.5 | 61.5 | 63.8 | 64.2 |
| Bureau of Engraving & Printing | 1.8 | 2.2 | 2.0 | 1.8 | 2.2 | 2.0 |
| Internal Revenue Service | 49.7 | 50.6 | 54.3 | 49.7 | 50.6 | 54.3 |
| Office of Thrift Supervision | .6 | .5 | .6 | .6 | .5 | .6 |
| United States Customs Service | 8.6 | 9.6 | 6.5 | 8.6 | 9.6 | 6.5 |
| United States Mint | .3 | .2 | .4 | .3 | .2 | .1 |
| United States Secret Service ¹³ | .6 | .6 | .6 | .6 | .6 | .6 |
| Department of Veterans Affairs | 245.1 | 279.8 | 262.3 | 258.3 | 259.1 | 261.2 |

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 1995, 1996, and 1997

[Dollars in millions]

| Agency and subdivision | Obligations | | | Outlays | | |
|---|-------------|-------------|---------|---------|-------------|---------|
| | 1995 | Preliminary | | 1995 | Preliminary | |
| | | 1996 | 1997 | | 1996 | 1997 |
| Other agencies: | | | | | | |
| Advisory Comm on Intergovernmental Relations | 1.4 | 1.4 | .0 | 1.4 | 1.4 | .0 |
| Appalachian Regional Commission | .9 | .9 | .9 | .9 | .9 | .9 |
| Consumer Product Safety Commission | .4 | - | .0 | .4 | .1 | - |
| Environmental Protection Agency | 556.3 | 461.9 | 585.7 | 495.5 | 422.3 | 523.8 |
| Federal Communications Commission | 2.3 | 2.8 | 2.7 | 2.3 | 2.8 | 2.7 |
| Federal Trade Commission | .6 | 1.0 | 1.0 | .6 | 1.0 | 1.0 |
| General Services Administration | .1 | .2 | .0 | 1.3 | 1.2 | 1.1 |
| International Development Cooperation | | | | | | |
| Agency, total | 302.5 | 246.5 | 186.8 | 256.8 | 277.7 | 244.4 |
| Agency for International Development | 302.5 | 246.5 | 186.8 | 256.8 | 277.7 | 244.4 |
| Library of Congress | 10.2 | 8.3 | 9.1 | 7.7 | 11.0 | 8.3 |
| National Aeronautics & Space Administration | 9,639.7 | 9,946.2 | 9,519.0 | 9,116.2 | 10,074.2 | 9,839.3 |
| National Archives & Records Administration | .1 | .1 | .1 | .1 | .1 | .1 |
| National Science Foundation | 2,438.9 | 2,360.5 | 2,479.2 | 1,977.0 | 2,261.0 | 2,433.0 |
| Nuclear Regulatory Commission | 88.2 | 59.2 | 59.0 | 88.8 | 66.4 | 59.1 |
| Smithsonian Institution | 129.0 | 130.4 | 141.8 | 125.0 | 126.0 | 137.0 |
| Social Security Administration ¹⁰ | .0 | 8.3 | 27.7 | .0 | 8.3 | 27.7 |
| Tennessee Valley Authority | 94.1 | 104.4 | 77.0 | 94.1 | 104.4 | 77.0 |
| United States Arms Control & Disarmament Agency | 1.1 | .5 | 1.0 | 1.1 | .5 | 1.0 |
| United States Information Agency | .3 | .2 | .1 | .3 | .2 | .1 |
| United States International Trade Commission | 12.2 | 12.7 | 12.5 | 12.2 | 12.7 | 12.5 |

- 1 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 2 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.
- 3 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.
- 4 The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.
- 5 This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.
- 6 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.
- 7 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.
- 8 Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
- 9 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.
- 10 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.
- 11 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.
- 12 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.
- 13 The United States Secret Service was formerly listed as the Office of Protective Research.

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.

KEY: - = Amount less than 50 thousand dollars

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

**Table C-4. Federal funds for total research and development, by agency:
fiscal years 1995, 1996, and 1997**

[Dollars in millions]

Page 1 of 3

| Agency and subdivision | Obligations | | | Outlays | | |
|--|-------------|-------------|----------|----------|-------------|----------|
| | 1995 | Preliminary | | 1995 | Preliminary | |
| | | 1996 | 1997 | | 1996 | 1997 |
| Total, all agencies | 68,754.9 | 69,076.9 | 68,063.7 | 66,374.6 | 66,876.9 | 67,691.5 |
| Departments: | | | | | | |
| Department of Agriculture, total | 1,379.8 | 1,352.3 | 1,368.6 | 1,375.3 | 1,362.9 | 1,353.5 |
| Agricultural Marketing Service | 4.8 | 4.9 | 4.9 | 5.0 | 4.9 | 4.9 |
| Agricultural Research Service ¹ | 683.3 | 680.9 | 696.6 | 679.3 | 680.3 | 693.8 |
| Animal & Plant Health Inspection Service | 19.1 | 19.7 | 20.6 | 19.1 | 19.7 | 20.6 |
| Cooperative State Research, Education, & Extension Service ² | 417.7 | 406.2 | 402.2 | 418.8 | 417.5 | 390.2 |
| Economic Research Service | 53.8 | 53.1 | 54.9 | 52.0 | 53.2 | 54.7 |
| Foreign Agricultural Service ³ | .5 | 1.4 | 1.4 | .5 | 1.4 | 1.4 |
| Forest Service | 193.5 | 178.0 | 179.8 | 193.5 | 178.0 | 179.8 |
| Grain Inspection Packers & Stockyards Admin ⁴ | 1.5 | 2.8 | 2.8 | 1.5 | 2.8 | 2.8 |
| National Agricultural Statistics Service | 4.0 | 3.9 | 3.9 | 4.2 | 3.8 | 3.9 |
| Rural Business-Cooperative Service ⁵ | 1.6 | 1.4 | 1.4 | 1.6 | 1.4 | 1.4 |
| Department of Commerce, total | 1,136.0 | 1,172.6 | 1,095.8 | 863.0 | 926.0 | 991.7 |
| Bureau of the Census | 4.9 | 7.1 | 7.1 | 5.1 | 7.4 | 7.4 |
| Economic Development Administration | .5 | .5 | 1.5 | 1.0 | .5 | 1.5 |
| National Institute of Standards & Technology | 563.3 | 631.7 | 541.7 | 327.4 | 384.8 | 437.3 |
| National Oceanic & Atmospheric Administration | 560.9 | 528.8 | 540.8 | 523.1 | 528.8 | 540.8 |
| Nat'l Telecommunications & Information Admin | 6.4 | 4.5 | 4.7 | 6.4 | 4.5 | 4.7 |
| Office of the Secretary | - | - | .0 | - | .0 | .0 |
| Department of Defense, total | 34,362.0 | 34,284.3 | 32,964.4 | 33,629.5 | 33,405.7 | 32,819.2 |
| Department of the Army, total | 5,419.3 | 4,833.3 | 4,373.3 | 5,133.0 | 5,107.1 | 4,576.6 |
| Department of the Army, Civil Functions ⁶ | 56.3 | 29.4 | 36.2 | 56.3 | 29.4 | 36.2 |
| Department of the Army, Military Functions | 5,363.0 | 4,804.0 | 4,337.1 | 5,076.8 | 5,077.8 | 4,540.4 |
| Department of the Navy | 8,963.3 | 8,804.0 | 7,581.6 | 9,416.6 | 8,552.6 | 7,942.9 |
| Department of the Air Force | 11,797.9 | 12,096.2 | 13,359.8 | 12,024.9 | 11,780.8 | 12,962.4 |
| Defense Agencies, total | 7,928.9 | 8,299.9 | 7,376.6 | 6,808.2 | 7,687.3 | 7,063.5 |
| Ballistic Missile Defense Organization | 2,395.0 | 2,910.8 | 2,567.1 | 2,415.5 | 2,965.1 | 2,626.8 |
| Defense Advanced Research Projects Agency ⁷ | 2,503.8 | 2,255.0 | 2,185.7 | 2,391.4 | 2,324.2 | 2,235.9 |
| Defense Information Systems Agency | 79.0 | 56.3 | 66.6 | 72.0 | 60.0 | 54.2 |
| Defense Logistics Agency | 33.6 | 34.9 | 38.6 | 27.4 | 41.0 | 43.8 |
| Defense Mapping Agency | 78.3 | 58.9 | 95.2 | 36.2 | 65.4 | 88.2 |
| Defense Nuclear Agency | 243.9 | 194.8 | 224.4 | 316.2 | 264.4 | 242.6 |
| Joint Staff | 4.2 | 12.5 | 38.8 | 4.2 | 12.5 | 38.8 |
| Special Operations Command | 264.6 | 156.9 | 125.6 | 219.9 | 278.5 | 144.6 |
| Washington Headquarters Services ⁸ | 2,326.7 | 2,619.8 | 2,034.6 | 1,325.5 | 1,676.2 | 1,588.7 |
| Operational Test & Evaluation, Director | 21.7 | 23.0 | 22.0 | 12.4 | 30.8 | 21.8 |
| Test & Evaluation, Deputy Under Secretary of Defense | 231.0 | 227.8 | 251.0 | 234.3 | 247.1 | 252.0 |
| Department of Education | 177.6 | 181.7 | 188.1 | 179.6 | 174.6 | 169.5 |
| Department of Energy | 6,145.0 | 5,675.7 | 5,895.2 | 6,152.2 | 5,858.0 | 5,963.6 |
| Department of Health & Human Services, total | 11,455.2 | 11,914.2 | 12,184.9 | 10,978.2 | 11,006.4 | 11,882.3 |
| Administration on Aging | 20.7 | 3.7 | 3.2 | 20.7 | 2.9 | 2.9 |
| Administration for Children & Families | 12.0 | 9.0 | 19.0 | 12.0 | 9.0 | 19.0 |
| Agency for Health Care Policy & Research | 135.3 | 65.2 | 84.0 | 133.0 | 124.0 | 85.0 |
| Centers for Disease Control & Prevention | 317.4 | 323.2 | 361.2 | 317.4 | 323.4 | 361.2 |
| Food & Drug Administration | 170.5 | 170.5 | 170.5 | 131.3 | 131.3 | 131.3 |
| Health Care Financing Administration | 74.5 | 54.5 | 55.3 | 72.9 | 70.1 | 59.0 |
| Health Resources & Services Administration | 13.2 | 13.0 | 11.7 | 12.8 | 12.7 | 11.7 |
| National Institutes of Health ⁹ | 10,681.8 | 11,265.6 | 11,470.5 | 10,262.8 | 10,325.7 | 11,205.8 |
| Office of the Assistant Secretary for Health | .3 | .5 | .6 | .6 | .5 | .5 |
| Office of the Secretary | 9.1 | 9.0 | 9.0 | 3.5 | 7.0 | 6.0 |
| Social Security Administration ¹⁰ | 20.4 | .0 | .0 | 11.3 | .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 1995, 1996, and 1997**

[Dollars in millions]

Page 2 of 3

| Agency and subdivision | Obligations | | | Outlays | | |
|--|-------------|-------------|-------|---------|-------------|-------|
| | 1995 | Preliminary | | 1995 | Preliminary | |
| | | 1996 | 1997 | | 1996 | 1997 |
| Department of Housing & Urban Development | 41.8 | 35.0 | 45.5 | 38.0 | 34.8 | 39.1 |
| Department of the Interior, total | 561.6 | 565.1 | 573.5 | 552.3 | 567.6 | 584.4 |
| Bureau of Reclamation | 8.0 | 6.0 | 7.6 | 8.0 | 6.0 | 7.6 |
| Geological Survey ¹¹ | 362.0 | 518.5 | 524.4 | 354.1 | 521.0 | 535.4 |
| Minerals Management Service | 20.0 | 20.8 | 20.6 | 19.8 | 20.7 | 20.6 |
| National Biological Service ^{12 11} | 151.8 | .0 | .0 | 150.7 | .0 | .0 |
| National Park Service ¹² | 19.7 | 19.8 | 20.8 | 19.7 | 19.8 | 20.8 |
| Office of the Secretary | - | - | .0 | - | - | .0 |
| Department of Justice, total | 57.9 | 80.9 | 93.7 | 49.0 | 76.9 | 93.8 |
| Bureau of Prisons | 5.7 | 4.7 | 4.7 | 5.7 | 4.7 | 4.7 |
| Drug Enforcement Administration | .4 | 1.2 | .5 | .4 | 1.2 | .5 |
| Federal Bureau of Investigation | 10.9 | 36.8 | 34.8 | 10.9 | 36.8 | 34.8 |
| Immigration & Naturalization Service | .4 | .4 | .4 | .4 | .4 | .4 |
| Office of Justice Programs | 40.5 | 37.8 | 53.2 | 31.5 | 33.8 | 53.3 |
| Department of Labor, total | 53.7 | 46.5 | 42.9 | 51.7 | 48.1 | 45.7 |
| Bureau of Labor Statistics | 13.1 | 13.3 | 12.6 | 13.1 | 13.3 | 12.6 |
| Employment & Training Administration | 25.6 | 20.8 | 17.3 | 23.1 | 23.4 | 21.1 |
| Occupational Safety & Health Administration | 4.4 | 3.2 | 3.5 | 4.3 | 3.1 | 3.6 |
| Office of the Secretary | 6.3 | 6.4 | 6.5 | 6.2 | 5.4 | 5.4 |
| Pension Benefit Guaranty Corporation | .8 | .6 | .7 | 1.4 | .6 | .7 |
| Pension & Welfare Benefits Administration | 3.6 | 2.3 | 2.3 | 3.6 | 2.3 | 2.3 |
| Department of State | 5.0 | 4.3 | 4.3 | 5.0 | 4.3 | 4.3 |
| Department of Transportation, total | 727.0 | 641.4 | 705.7 | 634.7 | 531.4 | 840.4 |
| Coast Guard | 19.7 | 20.0 | 19.8 | 20.6 | 23.6 | 24.0 |
| Federal Aviation Administration | 288.4 | 217.6 | 223.7 | 256.8 | 261.6 | 242.9 |
| Federal Highway Administration | 312.5 | 304.8 | 362.1 | 249.6 | 133.2 | 455.6 |
| Federal Railroad Administration | 26.5 | 30.3 | 24.1 | 21.5 | 34.2 | 28.2 |
| Federal Transit Administration | 28.7 | 16.0 | 14.6 | 33.4 | 27.7 | 22.1 |
| Maritime Administration | 2.5 | .0 | 2.0 | 2.3 | .3 | 1.8 |
| National Highway Traffic Safety Admin | 39.7 | 38.2 | 45.7 | 41.4 | 39.2 | 51.8 |
| Office of the Secretary | 3.9 | 2.9 | 2.8 | 4.0 | 2.8 | 2.8 |
| Research & Special Programs Administration | 5.0 | 11.5 | 10.9 | 4.9 | 8.8 | 11.2 |
| Department of the Treasury, total | 61.4 | 63.6 | 64.4 | 61.4 | 63.6 | 64.0 |
| Bureau of Engraving & Printing | 1.8 | 2.2 | 2.0 | 1.8 | 2.2 | 2.0 |
| Internal Revenue Service | 49.7 | 50.6 | 54.3 | 49.7 | 50.6 | 54.3 |
| Office of Thrift Supervision | .6 | .5 | .6 | .6 | .5 | .6 |
| United States Customs Service | 8.5 | 9.5 | 6.4 | 8.5 | 9.5 | 6.4 |
| United States Mint | .3 | .2 | .4 | .3 | .2 | .1 |
| United States Secret Service ¹³ | .5 | .6 | .6 | .5 | .6 | .6 |
| Department of Veterans Affairs | 237.9 | 276.2 | 258.0 | 251.1 | 255.5 | 256.9 |

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 1995, 1996, and 1997**

[Dollars in millions]

| Agency and subdivision | Obligations | | | Outlays | | |
|---|-------------|-------------|---------|---------|-------------|---------|
| | 1995 | Preliminary | | 1995 | Preliminary | |
| | | 1996 | 1997 | | 1996 | 1997 |
| Other agencies: | | | | | | |
| Advisory Comm on Intergovernmental Relations | 1.4 | 1.4 | .0 | 1.4 | 1.4 | .0 |
| Appalachian Regional Commission | .9 | .9 | .9 | .9 | .9 | .9 |
| Consumer Product Safety Commission | .4 | - | .0 | .4 | .1 | - |
| Environmental Protection Agency | 551.5 | 457.1 | 581.0 | 492.5 | 419.3 | 520.8 |
| Federal Communications Commission | 2.3 | 2.8 | 2.7 | 2.3 | 2.8 | 2.7 |
| Federal Trade Commission | .6 | 1.0 | 1.0 | .6 | 1.0 | 1.0 |
| International Development Cooperation | | | | | | |
| Agency, total | 302.5 | 246.5 | 186.8 | 256.8 | 277.7 | 244.4 |
| Agency for International Development | 302.5 | 246.5 | 186.8 | 256.8 | 277.7 | 244.4 |
| Library of Congress | 10.2 | 8.3 | 9.1 | 7.7 | 11.0 | 8.3 |
| National Aeronautics & Space Administration | 9,014.9 | 9,613.7 | 9,204.2 | 8,600.7 | 9,484.1 | 9,350.4 |
| National Archives & Records Administration | .1 | .1 | .1 | .1 | .1 | .1 |
| National Science Foundation | 2,149.3 | 2,141.7 | 2,278.9 | 1,876.0 | 2,051.0 | 2,146.0 |
| Nuclear Regulatory Commission | 88.2 | 59.2 | 59.0 | 88.8 | 66.4 | 59.1 |
| Smithsonian Institution | 124.0 | 125.4 | 136.8 | 119.0 | 120.0 | 131.0 |
| Social Security Administration ¹⁰ | .0 | 8.3 | 27.7 | .0 | 8.3 | 27.7 |
| Tennessee Valley Authority | 93.1 | 103.4 | 77.0 | 93.1 | 103.4 | 77.0 |
| United States Arms Control & Disarmament Agency | 1.1 | .5 | 1.0 | 1.1 | .5 | 1.0 |
| United States Information Agency | .3 | .2 | .1 | .3 | .2 | .1 |
| United States International Trade Commission | 12.2 | 12.7 | 12.5 | 12.2 | 12.7 | 12.5 |

- 1 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 2 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.
- 3 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.
- 4 The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.
- 5 This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.
- 6 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.
- 7 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.
- 8 Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
- 9 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.
- 10 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.
- 11 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.
- 12 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.
- 13 The United States Secret Service was formerly listed as the Office of Protective Research.

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.

KEY: - = Amount less than 50 thousand dollars

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

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Table C-5. Federal obligations for total research and development, by agency and character of work: fiscal year 1995

[Dollars in thousands]

| Agency and subdivision | Total | Research | | Development | | |
|---|------------|------------|------------|-------------|---------------------|---------------|
| | | Basic | Applied | Total | Advanced technology | Major systems |
| Total, all agencies | 68,754,875 | 13,895,493 | 14,677,941 | 40,181,441 | NA | NA |
| Departments: | | | | | | |
| Department of Agriculture, total | 1,379,753 | 594,903 | 704,649 | 80,201 | NA | NA |
| Agricultural Marketing Service | 4,797 | 0 | 4,180 | 617 | NA | NA |
| Agricultural Research Service ¹ | 683,270 | 368,966 | 259,642 | 54,662 | NA | NA |
| Animal & Plant Health Inspection Service | 19,117 | 0 | 0 | 19,117 | NA | NA |
| Cooperative State Research, Education, & Extension Service ² | 417,712 | 185,992 | 231,720 | 0 | NA | NA |
| Economic Research Service | 53,827 | 5,383 | 48,444 | 0 | NA | NA |
| Foreign Agricultural Service ³ | 457 | 343 | 114 | 0 | NA | NA |
| Forest Service | 193,509 | 32,897 | 154,807 | 5,805 | NA | NA |
| Grain Inspection Packers & Stockyards Admin ⁴ | 1,484 | 0 | 1,484 | 0 | NA | NA |
| National Agricultural Statistics Service | 4,019 | 1,322 | 2,697 | 0 | NA | NA |
| Rural Business-Cooperative Service ⁵ | 1,561 | 0 | 1,561 | 0 | NA | NA |
| Department of Commerce, total | 1,136,003 | 39,258 | 853,060 | 243,685 | NA | NA |
| Bureau of the Census | 4,856 | 312 | 2,618 | 1,926 | NA | NA |
| Economic Development Administration | 521 | 0 | 521 | 0 | NA | NA |
| National Institute of Standards & Technology | 563,281 | 38,946 | 333,145 | 191,190 | NA | NA |
| National Oceanic & Atmospheric Administration | 560,931 | 0 | 510,362 | 50,569 | NA | NA |
| Nat'l Telecommunications & Information Admin | 6,383 | 0 | 6,383 | 0 | NA | NA |
| Office of the Secretary | 31 | 0 | 31 | 0 | NA | NA |
| Department of Defense, total | 34,362,034 | 1,264,113 | 3,069,821 | 30,028,100 | NA | NA |
| Department of the Army, total | 5,419,258 | 218,790 | 633,273 | 4,567,195 | NA | NA |
| Department of the Army, Civil Functions ⁶ | 56,257 | 4,823 | 28,931 | 22,503 | NA | NA |
| Department of the Army, Military Functions | 5,363,001 | 213,967 | 604,342 | 4,544,692 | 618,225 | 3,926,467 |
| Department of the Navy | 8,963,258 | 409,419 | 470,533 | 8,083,306 | 413,927 | 7,669,379 |
| Department of the Air Force | 11,797,908 | 206,776 | 627,683 | 10,963,449 | 565,686 | 10,397,763 |
| Defense Agencies, total | 7,928,920 | 429,128 | 1,338,332 | 6,161,460 | 2,957,853 | 3,203,607 |
| Ballistic Missile Defense Organization | 2,394,952 | 10,742 | 93,811 | 2,290,399 | 426,398 | 1,864,001 |
| Defense Advanced Research Projects Agency ⁷ | 2,503,793 | 94,587 | 826,817 | 1,582,389 | 1,547,656 | 34,733 |
| Defense Information Systems Agency | 78,990 | 0 | 1,717 | 77,273 | 0 | 77,273 |
| Defense Logistics Agency | 33,550 | 0 | 7,062 | 26,488 | 19,097 | 7,391 |
| Defense Mapping Agency | 78,299 | 0 | 0 | 78,299 | 0 | 78,299 |
| Defense Nuclear Agency | 243,907 | 0 | 209,033 | 34,874 | 34,874 | 0 |
| Joint Staff | 4,154 | 0 | 0 | 4,154 | 4,154 | 0 |
| Special Operations Command | 264,612 | 0 | 39,913 | 224,699 | 93,197 | 131,502 |
| Washington Headquarters Services ⁸ | 2,326,663 | 323,799 | 159,979 | 1,842,885 | 832,477 | 1,010,408 |
| Operational Test & Evaluation, Director | 21,707 | 0 | 0 | 21,707 | 0 | 21,707 |
| Test & Evaluation, Deputy Under Secretary of Defense | 230,983 | 0 | 0 | 230,983 | 0 | 230,983 |
| Department of Education | 177,620 | 5,535 | 132,817 | 39,268 | NA | NA |
| Department of Energy | 6,144,975 | 1,634,353 | 1,825,581 | 2,685,041 | NA | NA |
| Department of Health & Human Services, total | 11,455,247 | 6,061,057 | 4,014,893 | 1,379,297 | NA | NA |
| Administration on Aging | 20,679 | 0 | 3,000 | 17,679 | NA | NA |
| Administration for Children & Families | 12,000 | 0 | 11,200 | 800 | NA | NA |
| Agency for Health Care Policy & Research | 135,287 | 0 | 124,000 | 11,287 | NA | NA |
| Centers for Disease Control & Prevention | 317,385 | 0 | 317,385 | 0 | NA | NA |
| Food & Drug Administration | 170,462 | 0 | 170,462 | 0 | NA | NA |
| Health Care Financing Administration | 74,537 | 0 | 74,537 | 0 | NA | NA |
| Health Resources & Services Administration | 13,177 | 1,010 | 11,201 | 966 | NA | NA |
| National Institutes of Health ⁹ | 10,681,844 | 6,060,047 | 3,273,555 | 1,348,242 | NA | NA |
| Office of the Assistant Secretary for Health | 323 | 0 | 0 | 323 | NA | NA |
| Office of the Secretary | 9,121 | 0 | 9,121 | 0 | NA | NA |
| Social Security Administration ¹⁰ | 20,432 | 0 | 20,432 | 0 | 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 1995

[Dollars in thousands]

Page 2 of 3

| Agency and subdivision | Total | Research | | Development | | |
|--|---------|----------|---------|-------------|---------------------|---------------|
| | | Basic | Applied | Total | Advanced technology | Major systems |
| Department of Housing & Urban Development | 41,831 | 0 | 14,180 | 27,651 | NA | NA |
| Department of the Interior, total | 561,613 | 55,179 | 477,257 | 29,177 | NA | NA |
| Bureau of Reclamation | 7,990 | 0 | 5,997 | 1,993 | NA | NA |
| Geological Survey ¹¹ | 362,037 | 41,649 | 306,248 | 14,140 | NA | NA |
| Minerals Management Service | 20,010 | 0 | 20,010 | 0 | NA | NA |
| National Biological Service ^{12 11} | 151,810 | 13,000 | 125,810 | 13,000 | NA | NA |
| National Park Service ¹² | 19,722 | 530 | 19,192 | 0 | NA | NA |
| Office of the Secretary | 44 | 0 | 0 | 44 | NA | NA |
| Department of Justice, total | 57,938 | 8,121 | 17,707 | 32,110 | NA | NA |
| Bureau of Prisons | 5,724 | 0 | 3,249 | 2,475 | NA | NA |
| Drug Enforcement Administration | 400 | 0 | 0 | 400 | NA | NA |
| Federal Bureau of Investigation | 10,937 | 0 | 0 | 10,937 | NA | NA |
| Immigration & Naturalization Service | 400 | 0 | 400 | 0 | NA | NA |
| Office of Justice Programs | 40,477 | 8,121 | 14,058 | 18,298 | NA | NA |
| Department of Labor, total | 53,748 | 11,600 | 16,648 | 25,500 | NA | NA |
| Bureau of Labor Statistics | 13,100 | 11,600 | 1,500 | 0 | NA | NA |
| Employment & Training Administration | 25,594 | 0 | 4,206 | 21,388 | NA | NA |
| Occupational Safety & Health Administration | 4,370 | 0 | 4,370 | 0 | NA | NA |
| Office of the Secretary | 6,287 | 0 | 2,872 | 3,415 | NA | NA |
| Pension Benefit Guaranty Corporation | 799 | 0 | 102 | 697 | NA | NA |
| Pension & Welfare Benefits Administration | 3,598 | 0 | 3,598 | 0 | NA | NA |
| Department of State | 5,010 | 4,510 | 500 | 0 | NA | NA |
| Department of Transportation, total | 726,986 | 46,880 | 323,866 | 356,240 | NA | NA |
| Coast Guard | 19,719 | 0 | 4,930 | 14,789 | NA | NA |
| Federal Aviation Administration | 288,366 | 0 | 83,291 | 205,075 | NA | NA |
| Federal Highway Administration | 312,535 | 46,880 | 156,268 | 109,387 | NA | NA |
| Federal Railroad Administration | 26,545 | 0 | 22,545 | 4,000 | NA | NA |
| Federal Transit Administration | 28,724 | 0 | 10,866 | 17,858 | NA | NA |
| Maritime Administration | 2,450 | 0 | 2,450 | 0 | NA | NA |
| National Highway Traffic Safety Admin | 39,707 | 0 | 39,707 | 0 | NA | NA |
| Office of the Secretary | 3,901 | 0 | 590 | 3,311 | NA | NA |
| Research & Special Programs Administration | 5,039 | 0 | 3,219 | 1,820 | NA | NA |
| Department of the Treasury, total | 61,362 | 41 | 48,887 | 12,434 | NA | NA |
| Bureau of Engraving & Printing | 1,800 | 41 | 1,283 | 476 | NA | NA |
| Internal Revenue Service | 49,698 | 0 | 45,797 | 3,901 | NA | NA |
| Office of Thrift Supervision | 550 | 0 | 550 | 0 | NA | NA |
| United States Customs Service | 8,455 | 0 | 710 | 7,745 | NA | NA |
| United States Mint | 312 | 0 | 0 | 312 | NA | NA |
| United States Secret Service ¹³ | 547 | 0 | 547 | 0 | NA | NA |
| Department of Veterans Affairs | 237,860 | 12,390 | 206,416 | 19,054 | 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 1995

[Dollars in thousands]

| Agency and subdivision | Total | Research | | Development | | |
|---|-----------|-----------|-----------|-------------|---------------------|---------------|
| | | Basic | Applied | Total | Advanced technology | Major systems |
| Other agencies: | | | | | | |
| Advisory Comm on Intergovernmental Relations | 1,413 | 0 | 1,413 | 0 | NA | NA |
| Appalachian Regional Commission | 900 | 0 | 900 | 0 | NA | NA |
| Consumer Product Safety Commission | 370 | 0 | 0 | 370 | NA | NA |
| Environmental Protection Agency | 551,521 | 70,297 | 331,330 | 149,894 | NA | NA |
| Federal Communications Commission | 2,268 | 0 | 2,268 | 0 | NA | NA |
| Federal Trade Commission | 564 | 0 | 564 | 0 | NA | NA |
| International Development Cooperation | | | | | | |
| Agency, total | 302,498 | 2,297 | 270,382 | 29,819 | NA | NA |
| Agency for International Development | 302,498 | 2,297 | 270,382 | 29,819 | NA | NA |
| Library of Congress | 10,151 | 512 | 1,594 | 8,045 | NA | NA |
| National Aeronautics & Space Administration | 9,014,944 | 1,978,193 | 2,067,896 | 4,968,855 | NA | NA |
| National Archives & Records Administration | 120 | 0 | 120 | 0 | NA | NA |
| National Science Foundation | 2,149,277 | 1,973,264 | 176,013 | 0 | NA | NA |
| Nuclear Regulatory Commission | 88,212 | 0 | 88,212 | 0 | NA | NA |
| Smithsonian Institution | 124,000 | 124,000 | 0 | 0 | NA | NA |
| Tennessee Valley Authority | 93,070 | 8,990 | 17,380 | 66,700 | NA | NA |
| United States Arms Control & Disarmament Agency | 1,146 | 0 | 1,146 | 0 | NA | NA |
| United States Information Agency | 289 | 0 | 289 | 0 | NA | NA |
| United States International Trade Commission | 12,152 | 0 | 12,152 | 0 | NA | NA |

- 1 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 2 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.
- 3 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.
- 4 The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.
- 5 This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.
- 6 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.
- 7 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.
- 8 Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
- 9 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.
- 10 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.
- 11 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.
- 12 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.
- 13 The United States Secret Service was formerly listed as the Office of Protective Research.

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.

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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-6. Preliminary Federal obligations for total research and development, by agency and character of work: fiscal year 1996

[Dollars in thousands]

| Agency and subdivision | Total | Research | | Development | | |
|---|------------|------------|------------|-------------|---------------------|---------------|
| | | Basic | Applied | Total | Advanced technology | Major systems |
| Total, all agencies | 69,076,929 | 14,482,056 | 14,095,711 | 40,499,162 | NA | NA |
| Departments: | | | | | | |
| Department of Agriculture, total | 1,352,258 | 586,329 | 685,762 | 80,167 | NA | NA |
| Agricultural Marketing Service | 4,864 | 0 | 4,237 | 627 | NA | NA |
| Agricultural Research Service ¹ | 680,863 | 367,666 | 258,728 | 54,469 | NA | NA |
| Animal & Plant Health Inspection Service | 19,731 | 0 | 0 | 19,731 | NA | NA |
| Cooperative State Research, Education, & Extension Service ² | 406,163 | 180,744 | 225,419 | 0 | NA | NA |
| Economic Research Service | 53,131 | 5,313 | 47,818 | 0 | NA | NA |
| Foreign Agricultural Service ³ | 1,422 | 1,067 | 355 | 0 | NA | NA |
| Forest Service | 178,000 | 30,260 | 142,400 | 5,340 | NA | NA |
| Grain Inspection Packers & Stockyards Admin ⁴ | 2,797 | 0 | 2,797 | 0 | NA | NA |
| National Agricultural Statistics Service | 3,887 | 1,279 | 2,608 | 0 | NA | NA |
| Rural Business-Cooperative Service ⁵ | 1,400 | 0 | 1,400 | 0 | NA | NA |
| Department of Commerce, total | 1,172,635 | 37,529 | 860,512 | 274,594 | NA | NA |
| Bureau of the Census | 7,074 | 307 | 2,564 | 4,203 | NA | NA |
| Economic Development Administration | 500 | 0 | 500 | 0 | NA | NA |
| National Institute of Standards & Technology | 631,706 | 37,222 | 371,790 | 222,694 | NA | NA |
| National Oceanic & Atmospheric Administration | 528,848 | 0 | 481,151 | 47,697 | NA | NA |
| Nat'l Telecommunications & Information Admin | 4,479 | 0 | 4,479 | 0 | NA | NA |
| Office of the Secretary | 28 | 0 | 28 | 0 | NA | NA |
| Department of Defense, total | 34,284,285 | 1,134,158 | 2,814,272 | 30,335,855 | NA | NA |
| Department of the Army, total | 4,833,344 | 190,418 | 458,641 | 4,184,285 | NA | NA |
| Department of the Army, Civil Functions ⁶ | 29,361 | 2,156 | 15,461 | 11,744 | NA | NA |
| Department of the Army, Military Functions | 4,803,983 | 188,262 | 443,180 | 4,172,541 | 751,853 | 3,420,688 |
| Department of the Navy | 8,804,034 | 373,175 | 568,346 | 7,862,513 | 484,012 | 7,378,501 |
| Department of the Air Force | 12,096,219 | 233,793 | 648,131 | 11,214,295 | 501,102 | 10,713,193 |
| Defense Agencies, total | 8,299,864 | 336,772 | 1,139,154 | 6,823,938 | 3,080,014 | 3,743,924 |
| Ballistic Missile Defense Organization | 2,910,781 | 7,902 | 74,594 | 2,828,285 | 684,733 | 2,143,552 |
| Defense Advanced Research Projects Agency ⁷ | 2,254,956 | 65,971 | 711,626 | 1,477,359 | 1,408,189 | 69,170 |
| Defense Information Systems Agency | 56,276 | 0 | 1,455 | 54,821 | 0 | 54,821 |
| Defense Logistics Agency | 34,910 | 0 | 7,981 | 26,929 | 18,198 | 8,731 |
| Defense Mapping Agency | 58,888 | 0 | 0 | 58,888 | 0 | 58,888 |
| Defense Nuclear Agency | 194,823 | 0 | 168,417 | 26,406 | 26,406 | 0 |
| Joint Staff | 12,532 | 0 | 0 | 12,532 | 12,532 | 0 |
| Special Operations Command | 156,910 | 0 | 21,787 | 135,123 | 56,752 | 78,371 |
| Washington Headquarters Services ⁸ | 2,619,788 | 262,899 | 153,294 | 2,203,595 | 873,204 | 1,330,391 |
| Operational Test & Evaluation, Director | 22,981 | 0 | 0 | 22,981 | 0 | 22,981 |
| Test & Evaluation, Deputy Under Secretary of Defense | 227,843 | 0 | 0 | 227,843 | 0 | 227,843 |
| Department of Education | 181,731 | 3,459 | 138,164 | 40,108 | NA | NA |
| Department of Energy | 5,675,744 | 1,956,610 | 1,342,767 | 2,376,367 | NA | NA |
| Department of Health & Human Services, total | 11,914,176 | 6,441,509 | 4,083,076 | 1,389,591 | NA | NA |
| Administration on Aging | 3,704 | 171 | 0 | 3,533 | NA | NA |
| Administration for Children & Families | 9,000 | 0 | 8,300 | 700 | NA | NA |
| Agency for Health Care Policy & Research | 65,186 | 0 | 59,000 | 6,186 | NA | NA |
| Centers for Disease Control & Prevention | 323,181 | 0 | 323,181 | 0 | NA | NA |
| Food & Drug Administration | 170,462 | 0 | 170,462 | 0 | NA | NA |
| Health Care Financing Administration | 54,500 | 0 | 54,500 | 0 | NA | NA |
| Health Resources & Services Administration | 13,013 | 800 | 10,963 | 1,250 | NA | NA |
| National Institutes of Health ⁹ | 11,265,606 | 6,440,538 | 3,447,670 | 1,377,398 | NA | NA |
| Office of the Assistant Secretary for Health | 524 | 0 | 0 | 524 | NA | NA |
| Office of the Secretary | 9,000 | 0 | 9,000 | 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 1996

[Dollars in thousands]

| Agency and subdivision | Total | Research | | Development | | |
|---|---------|----------|---------|-------------|---------------------|---------------|
| | | Basic | Applied | Total | Advanced technology | Major systems |
| Department of Housing & Urban Development | 34,955 | 0 | 12,162 | 22,793 | NA | NA |
| Department of the Interior, total | 565,105 | 55,863 | 483,740 | 25,502 | NA | NA |
| Bureau of Reclamation | 6,031 | 0 | 4,523 | 1,508 | NA | NA |
| Geological Survey ¹⁰ | 518,504 | 55,460 | 439,069 | 23,975 | NA | NA |
| Minerals Management Service | 20,774 | 0 | 20,774 | 0 | NA | NA |
| National Park Service ¹¹ | 19,777 | 403 | 19,374 | 0 | NA | NA |
| Office of the Secretary | 19 | 0 | 0 | 19 | NA | NA |
| Department of Justice, total | 80,883 | 8,300 | 18,919 | 53,664 | NA | NA |
| Bureau of Prisons | 4,700 | 0 | 1,900 | 2,800 | NA | NA |
| Drug Enforcement Administration | 1,200 | 0 | 45 | 1,155 | NA | NA |
| Federal Bureau of Investigation | 36,784 | 0 | 0 | 36,784 | NA | NA |
| Immigration & Naturalization Service | 400 | 0 | 400 | 0 | NA | NA |
| Office of Justice Programs | 37,799 | 8,300 | 16,574 | 12,925 | NA | NA |
| Department of Labor, total | 46,545 | 11,500 | 13,187 | 21,858 | NA | NA |
| Bureau of Labor Statistics | 13,300 | 11,500 | 1,800 | 0 | NA | NA |
| Employment & Training Administration | 20,810 | 0 | 3,023 | 17,787 | NA | NA |
| Occupational Safety & Health Administration | 3,175 | 0 | 3,175 | 0 | NA | NA |
| Office of the Secretary | 6,360 | 0 | 2,871 | 3,489 | NA | NA |
| Pension Benefit Guaranty Corporation | 635 | 0 | 53 | 582 | NA | NA |
| Pension & Welfare Benefits Administration | 2,265 | 0 | 2,265 | 0 | NA | NA |
| Department of State | 4,250 | 3,750 | 500 | 0 | NA | NA |
| Department of Transportation, total | 641,350 | 45,721 | 288,251 | 307,378 | NA | NA |
| Coast Guard | 20,037 | 0 | 5,010 | 15,027 | NA | NA |
| Federal Aviation Administration | 217,636 | 0 | 60,373 | 157,263 | NA | NA |
| Federal Highway Administration | 304,809 | 45,721 | 152,405 | 106,683 | NA | NA |
| Federal Railroad Administration | 30,288 | 0 | 19,913 | 10,375 | NA | NA |
| Federal Transit Administration | 16,009 | 0 | 5,515 | 10,494 | NA | NA |
| National Highway Traffic Safety Admin | 38,185 | 0 | 38,185 | 0 | NA | NA |
| Office of the Secretary | 2,897 | 0 | 0 | 2,897 | NA | NA |
| Research & Special Programs Administration | 11,489 | 0 | 6,850 | 4,639 | NA | NA |
| Department of the Treasury, total | 63,633 | 53 | 50,209 | 13,371 | NA | NA |
| Bureau of Engraving & Printing | 2,165 | 53 | 1,223 | 889 | NA | NA |
| Internal Revenue Service | 50,642 | 0 | 47,196 | 3,446 | NA | NA |
| Office of Thrift Supervision | 546 | 0 | 546 | 0 | NA | NA |
| United States Customs Service | 9,471 | 0 | 660 | 8,811 | NA | NA |
| United States Mint | 225 | 0 | 0 | 225 | NA | NA |
| United States Secret Service ¹² | 584 | 0 | 584 | 0 | NA | NA |
| Department of Veterans Affairs | 276,197 | 14,372 | 239,441 | 22,384 | 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 1996

[Dollars in thousands]

| Agency and subdivision | Total | Research | | Development | | |
|---|-----------|-----------|-----------|-------------|---------------------|---------------|
| | | Basic | Applied | Total | Advanced technology | Major systems |
| Other agencies: | | | | | | |
| Advisory Comm on Intergovernmental Relations | 1,402 | 0 | 1,402 | 0 | NA | NA |
| Appalachian Regional Commission | 900 | 0 | 900 | 0 | NA | NA |
| Consumer Product Safety Commission | 30 | 0 | 0 | 30 | NA | NA |
| Environmental Protection Agency | 457,111 | 65,914 | 286,256 | 104,941 | NA | NA |
| Federal Communications Commission | 2,819 | 0 | 2,819 | 0 | NA | NA |
| Federal Trade Commission | 981 | 0 | 981 | 0 | NA | NA |
| International Development Cooperation Agency, total | 246,500 | 2,444 | 224,305 | 19,751 | NA | NA |
| Agency for International Development | 246,500 | 2,444 | 224,305 | 19,751 | NA | NA |
| Library of Congress | 8,320 | 442 | 1,385 | 6,493 | NA | NA |
| National Aeronautics & Space Administration | 9,613,669 | 2,009,237 | 2,272,339 | 5,332,093 | NA | NA |
| National Archives & Records Administration | 120 | 0 | 120 | 0 | NA | NA |
| National Science Foundation | 2,141,712 | 1,967,676 | 174,036 | 0 | NA | NA |
| Nuclear Regulatory Commission | 59,184 | 0 | 59,184 | 0 | NA | NA |
| Smithsonian Institution | 125,400 | 125,400 | 0 | 0 | NA | NA |
| Social Security Administration ¹³ | 8,292 | 0 | 8,292 | 0 | NA | NA |
| Tennessee Valley Authority | 103,352 | 11,790 | 19,340 | 72,222 | NA | NA |
| United States Arms Control & Disarmament Agency | 545 | 0 | 545 | 0 | NA | NA |
| United States Information Agency | 150 | 0 | 150 | 0 | NA | NA |
| United States International Trade Commission | 12,695 | 0 | 12,695 | 0 | NA | NA |

- 1 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 2 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.
- 3 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.
- 4 The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.
- 5 This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.
- 6 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.
- 7 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.
- 8 Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
- 9 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.
- 10 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.
- 11 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.
- 12 The United States Secret Service was formerly listed as the Office of Protective Research.
- 13 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.

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.

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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

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Table C-7. Preliminary Federal obligations for total research and development, by agency and character of work: fiscal year 1997

[Dollars in thousands]

| Agency and subdivision | Total | Research | | Development | | |
|---|------------|------------|------------|-------------|---------------------|---------------|
| | | Basic | Applied | Total | Advanced technology | Major systems |
| Total, all agencies | 68,063,742 | 14,732,254 | 14,441,282 | 38,890,206 | NA | NA |
| Departments: | | | | | | |
| Department of Agriculture, total | 1,368,585 | 607,823 | 678,441 | 82,321 | NA | NA |
| Agricultural Marketing Service | 4,905 | 0 | 4,271 | 634 | NA | NA |
| Agricultural Research Service ¹ | 696,617 | 376,173 | 264,715 | 55,729 | NA | NA |
| Animal & Plant Health Inspection Service | 20,565 | 0 | 0 | 20,565 | NA | NA |
| Cooperative State Research, Education, & Extension Service ² | 402,172 | 193,227 | 208,945 | 0 | NA | NA |
| Economic Research Service | 54,947 | 5,495 | 49,452 | 0 | NA | NA |
| Foreign Agricultural Service ³ | 1,422 | 1,067 | 355 | 0 | NA | NA |
| Forest Service | 179,786 | 30,564 | 143,829 | 5,393 | NA | NA |
| Grain Inspection Packers & Stockyards Admin ⁴ | 2,830 | 0 | 2,830 | 0 | NA | NA |
| National Agricultural Statistics Service | 3,941 | 1,297 | 2,644 | 0 | NA | NA |
| Rural Business-Cooperative Service ⁵ | 1,400 | 0 | 1,400 | 0 | NA | NA |
| Department of Commerce, total | 1,095,844 | 38,774 | 829,786 | 227,284 | NA | NA |
| Bureau of the Census | 7,074 | 307 | 2,564 | 4,203 | NA | NA |
| Economic Development Administration | 1,500 | 0 | 1,500 | 0 | NA | NA |
| National Institute of Standards & Technology | 541,734 | 38,467 | 327,834 | 175,433 | NA | NA |
| National Oceanic & Atmospheric Administration | 540,791 | 0 | 493,143 | 47,648 | NA | NA |
| Nat'l Telecommunications & Information Admin | 4,745 | 0 | 4,745 | 0 | NA | NA |
| Department of Defense, total | 32,964,353 | 1,145,751 | 2,715,785 | 29,102,817 | NA | NA |
| Department of the Army, total | 4,373,321 | 204,793 | 467,291 | 3,701,237 | NA | NA |
| Department of the Army, Civil Functions ⁶ | 36,175 | 1,950 | 19,755 | 14,470 | NA | NA |
| Department of the Army, Military Functions | 4,337,146 | 202,843 | 447,536 | 3,686,767 | 455,598 | 3,231,169 |
| Department of the Navy | 7,581,571 | 386,754 | 466,971 | 6,727,846 | 449,135 | 6,278,711 |
| Department of the Air Force | 13,359,782 | 233,999 | 638,576 | 12,487,207 | 486,948 | 12,000,259 |
| Defense Agencies, total | 7,376,622 | 320,205 | 1,142,947 | 5,913,470 | 2,695,040 | 3,218,430 |
| Ballistic Missile Defense Organization | 2,567,090 | 9,316 | 86,377 | 2,471,397 | 559,851 | 1,911,546 |
| Defense Advanced Research Projects Agency ⁷ | 2,185,715 | 73,948 | 722,751 | 1,389,016 | 1,305,279 | 83,737 |
| Defense Information Systems Agency | 66,605 | 0 | 1,849 | 64,756 | 0 | 64,756 |
| Defense Logistics Agency | 38,589 | 0 | 7,785 | 30,804 | 24,993 | 5,811 |
| Defense Mapping Agency | 95,168 | 0 | 0 | 95,168 | 0 | 95,168 |
| Defense Nuclear Agency | 224,419 | 0 | 196,954 | 27,465 | 27,465 | 0 |
| Joint Staff | 38,776 | 0 | 0 | 38,776 | 38,776 | 0 |
| Special Operations Command | 125,613 | 0 | 15,048 | 110,565 | 46,437 | 64,128 |
| Washington Headquarters Services ⁸ | 2,034,647 | 236,941 | 112,183 | 1,685,523 | 692,239 | 993,284 |
| Operational Test & Evaluation, Director | 22,011 | 0 | 0 | 22,011 | 0 | 22,011 |
| Test & Evaluation, Deputy Under Secretary of Defense | 251,046 | 0 | 0 | 251,046 | 0 | 251,046 |
| Department of Education | 188,131 | 2,937 | 139,773 | 45,421 | NA | NA |
| Department of Energy | 5,895,206 | 2,034,582 | 1,540,558 | 2,320,066 | NA | NA |
| Department of Health & Human Services, total | 12,184,873 | 6,558,265 | 4,209,864 | 1,416,744 | NA | NA |
| Administration on Aging | 3,191 | 0 | 0 | 3,191 | NA | NA |
| Administration for Children & Families | 19,000 | 0 | 17,522 | 1,478 | NA | NA |
| Agency for Health Care Policy & Research | 84,000 | 0 | 77,000 | 7,000 | NA | NA |
| Centers for Disease Control & Prevention | 361,181 | 0 | 361,181 | 0 | NA | NA |
| Food & Drug Administration | 170,462 | 0 | 170,462 | 0 | NA | NA |
| Health Care Financing Administration | 55,310 | 0 | 55,310 | 0 | NA | NA |
| Health Resources & Services Administration | 11,668 | 800 | 10,868 | 0 | NA | NA |
| National Institutes of Health ⁹ | 11,470,511 | 6,557,465 | 3,508,521 | 1,404,525 | NA | NA |
| Office of the Assistant Secretary for Health | 550 | 0 | 0 | 550 | NA | NA |
| Office of the Secretary | 9,000 | 0 | 9,000 | 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 1997

[Dollars in thousands]

Page 2 of 3

| Agency and subdivision | Total | Research | | Development | | |
|---|---------|----------|---------|-------------|---------------------|---------------|
| | | Basic | Applied | Total | Advanced technology | Major systems |
| Department of Housing & Urban Development | 45,464 | 0 | 16,690 | 28,774 | NA | NA |
| Department of the Interior, total | 573,457 | 56,891 | 489,214 | 27,352 | NA | NA |
| Bureau of Reclamation | 7,641 | 0 | 5,730 | 1,911 | NA | NA |
| Geological Survey ¹⁰ | 524,400 | 56,341 | 442,618 | 25,441 | NA | NA |
| Minerals Management Service | 20,579 | 0 | 20,579 | 0 | NA | NA |
| National Park Service ¹¹ | 20,837 | 550 | 20,287 | 0 | NA | NA |
| Department of Justice, total | 93,665 | 12,400 | 22,811 | 58,454 | NA | NA |
| Bureau of Prisons | 4,700 | 0 | 1,900 | 2,800 | NA | NA |
| Drug Enforcement Administration | 500 | 0 | 50 | 450 | NA | NA |
| Federal Bureau of Investigation | 34,829 | 0 | 0 | 34,829 | NA | NA |
| Immigration & Naturalization Service | 400 | 0 | 400 | 0 | NA | NA |
| Office of Justice Programs | 53,236 | 12,400 | 20,461 | 20,375 | NA | NA |
| Department of Labor, total | 42,937 | 11,300 | 12,470 | 19,167 | NA | NA |
| Bureau of Labor Statistics | 12,600 | 11,300 | 1,300 | 0 | NA | NA |
| Employment & Training Administration | 17,317 | 0 | 2,375 | 14,942 | NA | NA |
| Occupational Safety & Health Administration | 3,495 | 0 | 3,495 | 0 | NA | NA |
| Office of the Secretary | 6,542 | 0 | 2,918 | 3,624 | NA | NA |
| Pension Benefit Guaranty Corporation | 655 | 0 | 54 | 601 | NA | NA |
| Pension & Welfare Benefits Administration | 2,328 | 0 | 2,328 | 0 | NA | NA |
| Department of State | 4,250 | 3,750 | 500 | 0 | NA | NA |
| Department of Transportation, total | 705,673 | 54,313 | 339,998 | 311,362 | NA | NA |
| Coast Guard | 19,775 | 0 | 4,944 | 14,831 | NA | NA |
| Federal Aviation Administration | 223,700 | 0 | 67,570 | 156,130 | NA | NA |
| Federal Highway Administration | 362,085 | 54,313 | 181,043 | 126,729 | NA | NA |
| Federal Railroad Administration | 24,145 | 0 | 23,495 | 650 | NA | NA |
| Federal Transit Administration | 14,630 | 0 | 5,802 | 8,828 | NA | NA |
| Maritime Administration | 2,006 | 0 | 2,006 | 0 | NA | NA |
| National Highway Traffic Safety Admin | 45,663 | 0 | 45,663 | 0 | NA | NA |
| Office of the Secretary | 2,808 | 0 | 0 | 2,808 | NA | NA |
| Research & Special Programs Administration | 10,861 | 0 | 9,475 | 1,386 | NA | NA |
| Department of the Treasury, total | 64,355 | 29 | 53,872 | 10,454 | NA | NA |
| Bureau of Engraving & Printing | 2,001 | 29 | 1,144 | 828 | NA | NA |
| Internal Revenue Service | 54,328 | 0 | 50,830 | 3,498 | NA | NA |
| Office of Thrift Supervision | 583 | 0 | 583 | 0 | NA | NA |
| United States Customs Service | 6,403 | 0 | 700 | 5,703 | NA | NA |
| United States Mint | 425 | 0 | 0 | 425 | NA | NA |
| United States Secret Service ¹² | 615 | 0 | 615 | 0 | NA | NA |
| Department of Veterans Affairs | 258,000 | 13,654 | 222,520 | 21,826 | 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 1997

(Dollars in thousands)

| Agency and subdivision | Total | Research | | Development | | |
|---|-----------|-----------|-----------|-------------|---------------------|---------------|
| | | Basic | Applied | Total | Advanced technology | Major systems |
| Other agencies: | | | | | | |
| Appalachian Regional Commission | 900 | 0 | 900 | 0 | NA | NA |
| Environmental Protection Agency | 580,971 | 75,085 | 335,468 | 170,418 | NA | NA |
| Federal Communications Commission | 2,749 | 0 | 2,749 | 0 | NA | NA |
| Federal Trade Commission | 1,034 | 0 | 1,034 | 0 | NA | NA |
| International Development Cooperation Agency, total | 186,827 | 4,870 | 167,870 | 14,087 | NA | NA |
| Agency for International Development | 186,827 | 4,870 | 167,870 | 14,087 | NA | NA |
| Library of Congress | 9,116 | 458 | 1,428 | 7,230 | NA | NA |
| National Aeronautics & Space Administration | 9,204,151 | 1,884,953 | 2,355,587 | 4,963,611 | NA | NA |
| National Archives & Records Administration | 120 | 0 | 120 | 0 | NA | NA |
| National Science Foundation | 2,278,922 | 2,089,619 | 189,303 | 0 | NA | NA |
| Nuclear Regulatory Commission | 59,014 | 0 | 59,014 | 0 | NA | NA |
| Smithsonian Institution | 136,800 | 136,800 | 0 | 0 | NA | NA |
| Social Security Administration ¹³ | 27,698 | 0 | 27,698 | 0 | NA | NA |
| Tennessee Valley Authority | 77,000 | 0 | 14,182 | 62,818 | NA | NA |
| United States Arms Control & Disarmament Agency | 1,000 | 0 | 1,000 | 0 | NA | NA |
| United States Information Agency | 136 | 0 | 136 | 0 | NA | NA |
| United States International Trade Commission | 12,511 | 0 | 12,511 | 0 | NA | NA |

- 1 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 2 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.
- 3 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.
- 4 The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.
- 5 This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.
- 6 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.
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- 10 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.
- 11 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.
- 12 The United States Secret Service was formerly listed as the Office of Protective Research.
- 13 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.

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.

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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

**Table C-8. Federal obligations for total research and development, by agency and performer:
fiscal year 1995**

[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 | 68,754.9 | 17,342.7 | 30,468.7 | 1,203.9 | 11,933.0 | 3,574.3 | 2,806.5 | 831.4 | 316.5 | 277.8 |
| Departments: | | | | | | | | | | |
| Department of Agriculture, total | 1,379.8 | 915.3 | 10.7 | .0 | 434.5 | .0 | 12.3 | .0 | 2.4 | 4.6 |
| Agricultural Marketing Service | 4.8 | 4.3 | .0 | .0 | .5 | .0 | .0 | .0 | .0 | .0 |
| Agricultural Research Service ² | 683.3 | 648.9 | .0 | .0 | 26.3 | .0 | 3.9 | .0 | .3 | 3.9 |
| Animal & Plant Hlth Inspection Svc | 19.1 | 17.5 | .0 | .0 | 1.6 | .0 | .0 | .0 | .0 | .0 |
| Cooperative State Research, Education, & Extension Service ³ | 417.7 | 19.0 | 10.5 | .0 | 379.8 | .0 | 7.0 | .0 | 1.5 | .0 |
| Economic Research Service | 53.8 | 50.6 | .0 | .0 | 3.2 | .0 | .0 | .0 | .0 | .0 |
| Foreign Agricultural Service ⁴ | .5 | .3 | .0 | .0 | .1 | .0 | .0 | .0 | .0 | .0 |
| Forest Service | 193.5 | 167.7 | .2 | .0 | 23.0 | .0 | 1.4 | .0 | .6 | .7 |
| Grain Inspection Packers & Stockyards Administration ⁵ | 1.5 | 1.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Nat'l Agricultural Statistics Svc | 4.0 | 3.8 | .0 | .0 | .1 | .0 | - | .0 | .0 | .0 |
| Rural Business-Cooperative Service ⁶ | 1.6 | 1.6 | .0 | .0 | - | .0 | .0 | .0 | .0 | .0 |
| Department of Commerce, total | 1,136.0 | 664.8 | 376.4 | .0 | 85.3 | .1 | 3.7 | .0 | 4.4 | 1.2 |
| Bureau of the Census | 4.9 | 4.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Economic Development Admin | .5 | - | .5 | .0 | .0 | .0 | .1 | .0 | .0 | .0 |
| National Inst of Standards & Tech | 563.3 | 211.0 | 336.1 | .0 | 11.8 | .1 | 3.0 | .0 | .0 | 1.2 |
| Nat'l Oceanic & Atmospheric Admin | 560.9 | 442.5 | 39.9 | .0 | 73.5 | .0 | .7 | .0 | 4.4 | .0 |
| National Telecommunications & Information Administration | 6.4 | 6.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Office of the Secretary | - | - | .0 | .0 | .0 | .0 | .0 | .0 | .0 | - |
| Department of Defense, research ⁷ | 4,333.9 | 1,563.6 | 1,509.4 | 19.2 | 1,062.8 | 70.4 | 77.7 | 15.9 | .0 | 14.8 |
| Department of Defense, development ⁸ | 30,028.1 | 7,343.3 | 21,042.4 | 74.3 | 529.6 | 191.1 | 303.2 | 452.3 | 1.3 | 90.7 |
| Department of Defense, advanced technology development | 4,578.2 | 1,504.7 | 2,379.9 | 38.5 | 192.0 | 108.1 | 257.7 | 61.9 | .8 | 34.6 |
| Department of Defense, major system development | 25,449.9 | 5,838.6 | 18,662.5 | 35.7 | 337.6 | 83.0 | 45.6 | 390.3 | .4 | 56.1 |
| Department of the Army, research & development (R&D) | 5,419.3 | 2,409.8 | 2,668.9 | 26.9 | 237.5 | 26.3 | 12.4 | 23.4 | .0 | 14.1 |
| Department of the Navy, R&D | 8,963.3 | 3,355.6 | 4,937.8 | 1.1 | 446.2 | 26.8 | 111.4 | 70.5 | .0 | 14.0 |
| Department of the Air Force, R&D | 11,797.9 | 1,113.8 | 10,164.1 | 14.5 | 190.3 | 42.4 | 11.7 | 259.1 | .4 | 1.6 |
| Defense Agencies, R&D, total | 7,928.9 | 1,825.2 | 4,749.2 | 51.0 | 718.5 | 166.0 | 245.2 | 97.3 | .8 | 75.8 |
| Ballistic Missile Defense Organization, R&D | 2,395.0 | 440.9 | 1,747.4 | 20.0 | 75.7 | 59.7 | 1.2 | 19.2 | .0 | 30.9 |
| Defense Advanced Research Projects Agency, R&D ⁹ | 2,503.8 | 386.3 | 1,490.6 | 4.7 | 294.4 | 61.3 | 237.6 | 23.0 | .8 | 4.9 |
| Defense Information Systems Agency, R&D | 79.0 | 18.5 | 46.5 | .0 | .8 | .8 | .0 | 12.4 | .0 | .0 |
| Defense Logistics Agency, R&D | 33.6 | 16.8 | 12.7 | .0 | 4.1 | .0 | .0 | .0 | .0 | .0 |
| Defense Mapping Agency, R&D | 78.3 | 4.7 | 71.2 | .0 | 1.1 | .5 | .0 | .8 | .0 | .0 |
| Defense Nuclear Agency, R&D | 243.9 | 55.9 | 159.6 | 5.3 | 4.6 | 14.2 | 2.7 | .5 | .0 | 1.1 |
| Joint Staff, R&D | 4.2 | 3.7 | .5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Special Operations Command, R&D | 264.6 | 73.8 | 151.5 | 3.8 | .0 | .0 | .0 | .0 | .0 | 35.5 |
| Washington Headquarters Services, R&D ¹⁰ | 2,326.7 | 824.8 | 1,069.3 | 17.1 | 337.6 | 29.5 | 3.8 | 41.3 | .0 | 3.4 |
| Operational Test & Evaluation, R&D, Director | 21.7 | 7.9 | .0 | .0 | .0 | .2 | .4 | 13.2 | .0 | .0 |
| Test & Evaluation, R&D, Deputy Under Secretary of Defense | 231.0 | 194.6 | 31.8 | .0 | .0 | .0 | .0 | 4.6 | .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 1995**

[Dollars in millions]

| Agency and subdivision | Total | Intra- mural ¹ | Extramural | | | | | | | Foreign |
|---|----------|------------------------------|-------------------------------|--|--------------------------------------|---|--|--|--------------------------------|---------|
| | | | United States and territories | | | | | | State and local govts | |
| | | | 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 | | |
| Department of Education | 177.6 | 9.2 | 7.5 | .0 | 108.5 | .0 | 46.0 | .0 | 6.5 | .0 |
| Department of Energy | 6,145.0 | 490.7 | 1,650.0 | 935.6 | 594.3 | 2,057.3 | 71.4 | 302.9 | 18.2 | 24.5 |
| Dept of Health & Human Svcs, total | 11,455.2 | 2,484.9 | 598.8 | 142.2 | 6,394.5 | 24.5 | 1,606.9 | 19.4 | 141.2 | 42.8 |
| Administration on Aging | 20.7 | .9 | 2.0 | .0 | 4.7 | .0 | 9.9 | .0 | 3.2 | .0 |
| Admin for Children & Families | 12.0 | .2 | .0 | .0 | 10.6 | .0 | 1.2 | .0 | .0 | .0 |
| Agcy for Hlth Care Policy & Rsch | 135.3 | 26.6 | 30.2 | .0 | 50.1 | .0 | 27.5 | .0 | .0 | .8 |
| Centers for Disease Control & Prevention | 317.4 | 275.5 | 1.1 | .0 | 31.7 | .2 | 8.6 | .1 | .2 | .0 |
| Food & Drug Administration | 170.5 | 153.9 | .0 | .0 | 9.9 | .0 | 6.7 | .0 | .0 | .0 |
| Health Care Financing Admin | 74.5 | .1 | 27.3 | .0 | 5.8 | .0 | 19.2 | .0 | 21.9 | .3 |
| Health Resources & Services Admin | 13.2 | 2.8 | .0 | .0 | 7.8 | .0 | 2.5 | .0 | .0 | .0 |
| National Institutes of Health ¹¹ | 10,681.8 | 2,010.5 | 535.1 | 142.2 | 6,271.1 | 24.2 | 1,526.8 | 19.3 | 110.8 | 41.7 |
| Office of the Assistant Secretary for Health | .3 | - | .0 | .0 | .0 | .0 | .3 | .0 | .0 | .0 |
| Office of the Secretary | 9.1 | 3.8 | 1.4 | .0 | 1.5 | .0 | 2.2 | .0 | .3 | .0 |
| Social Security Administration ¹² | 20.4 | 10.6 | 1.7 | .0 | 1.2 | .0 | 2.0 | .0 | 4.8 | .0 |
| Dept of Housing & Urban Dvlpmt | 41.8 | 25.7 | 5.8 | .0 | 1.6 | .0 | 8.7 | .0 | .0 | .0 |
| Department of the Interior, total | 561.6 | 491.9 | 16.4 | .1 | 50.0 | .6 | .6 | .0 | 1.0 | 1.0 |
| Bureau of Reclamation | 8.0 | 7.1 | .0 | .0 | .6 | .0 | .3 | .0 | .0 | .0 |
| Geological Survey ¹³ | 362.0 | 326.3 | 11.0 | .0 | 24.8 | .0 | .0 | .0 | .0 | .0 |
| Minerals Management Service | 20.0 | 5.9 | 3.7 | .1 | 8.3 | .5 | .0 | .0 | .4 | 1.0 |
| National Biological Service ¹⁴ ¹³ | 151.8 | 143.5 | .1 | .0 | 7.4 | .0 | .2 | .0 | .6 | .0 |
| National Park Service ¹⁴ | 19.7 | 9.1 | 1.6 | .0 | 8.8 | .1 | - | .0 | .0 | .0 |
| Office of the Secretary | - | - | - | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Department of Justice, total | 57.9 | 17.4 | 1.2 | .0 | 7.2 | .0 | 20.2 | .0 | 11.9 | .0 |
| Bureau of Prisons | 5.7 | 2.6 | .0 | .0 | .0 | .0 | .0 | .0 | 3.1 | .0 |
| Drug Enforcement Administration | .4 | .1 | .4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Federal Bureau of Investigation | 10.9 | 10.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Immigration & Naturalization Svc | .4 | - | .0 | .0 | .0 | .0 | .4 | .0 | .0 | .0 |
| Office of Justice Programs | 40.5 | 3.8 | .8 | .0 | 7.2 | .0 | 19.8 | .0 | 8.8 | .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 1995**

[Dollars in millions]

| Agency and subdivision | Total | Intra- mural ¹ | Extramural | | | | | | | Foreign |
|---|---------|------------------------------|-------------------------------|--|--------------------------------------|---|--|--|--------------------------------|---------|
| | | | United States and territories | | | | | | | |
| | | | 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 | |
| Department of Labor, total | 53.7 | 11.6 | 11.1 | .0 | 10.1 | .0 | 3.5 | .0 | 17.3 | .0 |
| Bureau of Labor Statistics | 13.1 | 3.8 | .0 | .0 | 9.3 | .0 | .0 | .0 | .0 | .0 |
| Employment & Training Admin | 25.6 | 2.7 | 3.1 | .0 | .6 | .0 | 2.1 | .0 | 17.1 | .0 |
| Occupational Safety & Hlth Admin | 4.4 | 1.3 | 3.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Office of the Secretary | 6.3 | 2.8 | 2.3 | .0 | .2 | .0 | .8 | .0 | .3 | .0 |
| Pension Benefit Guaranty Corp | .8 | .2 | .6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Pension & Welfare Benefits Admin | 3.6 | .8 | 2.1 | .0 | - | .0 | .7 | .0 | .0 | .0 |
| Department of State | 5.0 | .4 | .1 | .0 | .0 | - | 4.5 | .0 | .0 | .0 |
| Department of Transportation, total | 727.0 | 235.5 | 268.6 | 1.6 | 48.0 | 27.9 | 36.8 | 10.3 | 98.0 | 0.3 |
| Coast Guard | 19.7 | 14.0 | 5.2 | .0 | .5 | .0 | .0 | .0 | .0 | .0 |
| Federal Aviation Administration | 288.4 | 122.4 | 121.9 | 1.2 | 20.4 | 11.9 | .0 | 10.3 | .0 | .2 |
| Federal Highway Administration | 312.5 | 52.0 | 119.2 | .4 | 13.6 | 15.9 | 22.7 | .0 | 88.7 | .0 |
| Federal Railroad Administration | 26.5 | 15.6 | 4.3 | .0 | 1.3 | .0 | 5.3 | .0 | .0 | - |
| Federal Transit Administration | 28.7 | 4.2 | 2.0 | .0 | 5.7 | .0 | 7.5 | .0 | 9.3 | .0 |
| Maritime Administration | 2.5 | .7 | 1.0 | .0 | .5 | .0 | .2 | .0 | .0 | - |
| National Highway Traffic Safety Administration | 39.7 | 20.9 | 11.8 | .0 | 6.0 | .0 | 1.0 | .0 | .0 | .0 |
| Office of the Secretary | 3.9 | 2.9 | 1.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Research & Special Programs Admin | 5.0 | 2.8 | 2.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Department of the Treasury, total | 61.4 | 35.2 | 7.5 | .0 | .0 | 1.5 | .0 | 17.2 | .0 | .0 |
| Bureau of Engraving & Printing | 1.8 | 1.6 | .0 | .0 | .0 | .2 | .0 | .0 | .0 | .0 |
| Internal Revenue Service | 49.7 | 31.2 | .0 | .0 | .0 | 1.3 | .0 | 17.2 | .0 | .0 |
| Office of Thrift Supervision | .6 | .6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| United States Customs Service | 8.5 | 1.5 | 6.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| United States Mint | .3 | - | .3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| United States Secret Service ¹⁵ | .5 | .2 | .3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Department of Veterans Affairs | 237.9 | 235.4 | .0 | .0 | 2.5 | .0 | .0 | .0 | .0 | .0 |
| Other agencies: | | | | | | | | | | |
| Advisory Commission on Intergovernmental Relations | 1.4 | 1.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Appalachian Regional Commission | .9 | .1 | .3 | .0 | .5 | .0 | .0 | .0 | .0 | .0 |
| Consumer Product Safety Commission | .4 | .4 | - | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Environmental Protection Agency | 551.5 | 224.6 | 150.1 | .0 | 125.7 | .0 | 41.2 | .0 | 6.4 | 3.5 |
| Federal Communications Commission | 2.3 | 2.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Federal Trade Commission | .6 | .6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Internat'l Dvlpmt Cooperation Agency, total | 302.5 | 61.9 | 12.2 | .0 | 30.2 | .0 | 161.3 | .0 | .0 | 37.0 |
| Agency for Internat'l Dvlpmt | 302.5 | 61.9 | 12.2 | .0 | 30.2 | .0 | 161.3 | .0 | .0 | 37.0 |
| Library of Congress | 10.2 | 10.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| National Aeronautics & Space Admin | 9,014.9 | 2,253.7 | 4,686.6 | .0 | 708.1 | 1,043.9 | 269.1 | 3.8 | 2.9 | 46.8 |
| National Archives & Records Admin | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| National Science Foundation | 2,149.3 | 17.3 | 108.6 | - | 1,733.5 | 140.9 | 138.2 | .6 | 4.8 | 5.3 |
| Nuclear Regulatory Commission | 88.2 | 15.5 | 4.1 | 30.9 | 6.1 | 16.1 | 1.2 | 9.1 | .0 | 5.3 |

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 1995

[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 institutions | FFRDCs admin by nonprofit institutions | State and local govts | |
| Smithsonian Institution | 124.0 | 124.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Tennessee Valley Authority | 93.1 | 93.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| US Arms Control & Disarmament Agcy | 1.1 | .3 | 0.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| United States Information Agency | .3 | .3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| US Internat'l Trade Commission | 12.2 | 12.2 | .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 Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- ³ 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.
- ⁴ 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.
- ⁵ The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.
- ⁶ This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.
- ⁷ 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.
- ⁸ Not all Department of Defense (DoD) agencies with development obligations are able to categorize these obligations according to the advanced technology and major systems development breakdown. Therefore, total DoD development does not equal the sum of total DoD advanced technology development and total DoD major systems development.
- ⁹ 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.
- ¹⁰ Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
- ¹¹ 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.
- ¹² 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.
- ¹³ 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.
- ¹⁴ 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.
- ¹⁵ The United States Secret Service was formerly listed as the Office of Protective Research.

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.

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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-9. Preliminary Federal obligations for total research and development, by agency and performer: fiscal year 1996

[Dollars in millions]

| Agency and subdivision | Total | Intra-mural ¹ | Extramural | | | | | | | |
|---|-----------------|--------------------------|-------------------------------|----------------------------------|---------------------------|------------------------------------|-------------------------------|--|-----------------------|--------------|
| | | | United States and territories | | | | | | | Foreign |
| | | | Industrial firms | FFRDCs admin by industrial firms | Universities and colleges | FFRDCs admin by univs and colleges | Other non-profit institutions | FFRDCs admin by nonprofit institutions | State and local govts | |
| Total, all agencies | 69,076.9 | 16,897.0 | 31,267.6 | 1,231.3 | 12,251.2 | 3,302.2 | 2,866.6 | 721.2 | 273.8 | 266.0 |
| Departments: | | | | | | | | | | |
| Department of Agriculture, total | 1,352.3 | 897.7 | 10.4 | .0 | 423.1 | .0 | 14.8 | .0 | 2.3 | 3.8 |
| Agricultural Marketing Service | 4.9 | 4.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Agricultural Research Service ² | 680.9 | 643.4 | .0 | .0 | 27.7 | .0 | 6.4 | .0 | .3 | 3.1 |
| Animal & Plant Hlth Inspection Svc | 19.7 | 18.2 | .0 | .0 | 1.5 | .0 | .0 | .0 | .0 | .0 |
| Cooperative State Research, Education, & Extension Service ³ | 406.2 | 18.8 | 10.3 | .0 | 368.7 | .0 | 7.0 | .0 | 1.5 | .0 |
| Economic Research Service | 53.1 | 51.2 | .0 | .0 | 1.9 | .0 | .0 | .0 | .0 | .0 |
| Foreign Agricultural Service ⁴ | 1.4 | 1.1 | .0 | .0 | .4 | .0 | .0 | .0 | .0 | .0 |
| Forest Service | 178.0 | 152.2 | .2 | .0 | 23.0 | .0 | 1.4 | .0 | .6 | .7 |
| Grain Inspection Packers & Stockyards Administration ⁵ | 2.8 | 2.8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Nat'l Agricultural Statistics Svc | 3.9 | 3.8 | .0 | .0 | .1 | .0 | - | .0 | .0 | .0 |
| Rural Business-Cooperative Service ⁶ | 1.4 | 1.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Department of Commerce, total | 1,172.6 | 688.1 | 397.6 | .0 | 76.9 | .2 | 5.3 | .0 | 3.1 | 1.5 |
| Bureau of the Census | 7.1 | 7.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Economic Development Admin | .5 | - | .2 | .0 | .0 | .0 | .3 | .0 | .0 | .0 |
| National Inst of Standards & Tech | 631.7 | 219.9 | 395.5 | .0 | 11.2 | .1 | 3.6 | .0 | .0 | 1.4 |
| Nat'l Oceanic & Atmospheric Admin | 528.8 | 456.7 | 1.9 | .0 | 65.8 | .1 | 1.4 | .0 | 3.1 | .0 |
| National Telecommunications & Information Administration | 4.5 | 4.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Office of the Secretary | - | - | .0 | .0 | .0 | .0 | .0 | .0 | .0 | - |
| Department of Defense, research ⁷ | 3,948.4 | 1,402.0 | 1,334.6 | 11.4 | 1,026.4 | 57.9 | 81.3 | 18.6 | .0 | 16.3 |
| Department of Defense, development ⁸ | 30,335.9 | 7,253.2 | 21,699.3 | 64.6 | 353.2 | 165.3 | 285.9 | 430.7 | .0 | 83.7 |
| Department of Defense, advanced technology development | 4,828.7 | 1,510.7 | 2,695.6 | 20.4 | 151.0 | 100.2 | 242.7 | 76.2 | .0 | 32.0 |
| Department of Defense, major system development | 25,507.1 | 5,742.5 | 19,003.7 | 44.2 | 202.2 | 65.1 | 43.2 | 354.5 | .0 | 51.7 |
| Department of the Army, research & development (R&D) | 4,833.3 | 2,251.9 | 2,373.4 | 9.8 | 119.1 | 32.3 | 17.2 | 21.6 | .0 | 8.0 |
| Department of the Navy, R&D | 8,804.0 | 3,193.6 | 4,957.2 | 3.0 | 435.2 | 18.9 | 110.7 | 68.5 | .0 | 16.9 |
| Department of the Air Force, R&D | 12,096.2 | 1,037.0 | 10,593.0 | 15.3 | 183.7 | 8.9 | 16.1 | 240.0 | .0 | 2.3 |
| Defense Agencies, R&D, total | 8,299.9 | 1,965.3 | 5,086.8 | 47.9 | 641.6 | 162.9 | 223.2 | 99.5 | .0 | 72.7 |
| Ballistic Missile Defense Organization, R&D | 2,910.8 | 537.7 | 2,178.4 | 18.8 | 57.9 | 57.4 | .1 | 18.8 | .0 | 41.8 |
| Defense Advanced Research Projects Agency, R&D ⁹ | 2,255.0 | 341.7 | 1,348.4 | 4.8 | 260.7 | 56.6 | 215.0 | 26.1 | .0 | 1.7 |
| Defense Information Systems Agency, R&D | 56.3 | 15.7 | 31.4 | .0 | .0 | .3 | 3.8 | 5.2 | .0 | .0 |
| Defense Logistics Agency, R&D | 34.9 | 24.6 | 8.5 | .0 | 1.8 | .0 | .0 | .0 | .0 | .0 |
| Defense Mapping Agency, R&D | 58.9 | 3.6 | 52.7 | .0 | 1.0 | .3 | .0 | 1.3 | .0 | .0 |
| Defense Nuclear Agency, R&D | 194.8 | 43.6 | 130.5 | 3.4 | .8 | 11.1 | 2.6 | .4 | .0 | 2.4 |
| Joint Staff, R&D | 12.5 | 5.3 | 7.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Special Operations Command, R&D | 156.9 | 43.1 | 90.2 | 2.3 | .0 | .0 | .0 | .0 | .0 | 21.4 |
| Washington Headquarters Services, R&D ¹⁰ | 2,619.8 | 950.0 | 1,239.5 | 18.7 | 319.4 | 37.3 | 1.7 | 47.7 | .0 | 5.5 |
| Operational Test & Evaluation, R&D, Director | 23.0 | 8.7 | .7 | .0 | .0 | .2 | .0 | 13.4 | .0 | .0 |
| Test & Evaluation, R&D, Deputy Under Secretary of Defense | 227.8 | 198.8 | 22.8 | .0 | .0 | .0 | .0 | 6.3 | .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 1996

[Dollars in millions]

| Agency and subdivision | Total | Intra-mural ¹ | Extramural | | | | | | | Foreign |
|--|----------|--------------------------|-------------------------------|----------------------------------|---------------------------|------------------------------------|-------------------------------|--|-----------------------|---------|
| | | | United States and territories | | | | | | State and local govts | |
| | | | Industrial firms | FFRDCs admin by industrial firms | Universities and colleges | FFRDCs admin by univs and colleges | Other non-profit institutions | FFRDCs admin by nonprofit institutions | | |
| Department of Education | 181.7 | 8.9 | 10.5 | .0 | 112.6 | .0 | 44.7 | .0 | 5.0 | .0 |
| Department of Energy | 5,675.7 | 416.2 | 1,485.7 | 905.2 | 557.1 | 2,001.8 | 55.0 | 224.0 | 12.9 | 18.1 |
| Dept of Health & Human Svcs, total | 11,914.2 | 2,239.6 | 547.2 | 224.0 | 6,995.2 | 18.5 | 1,694.2 | 21.0 | 130.4 | 44.3 |
| Administration on Aging | 3.7 | .9 | .0 | .0 | .0 | .0 | 2.9 | .0 | .0 | .0 |
| Admin for Children & Families | 9.0 | .2 | .0 | .0 | 7.9 | .0 | .9 | .0 | .0 | .0 |
| Agcy for Hlth Care Policy & Rsch | 65.2 | 17.1 | 13.5 | .0 | 22.1 | .0 | 12.5 | .0 | .0 | .0 |
| Centers for Disease Control & Prevention | 323.2 | 281.3 | 1.1 | .0 | 31.7 | .2 | 8.6 | .1 | .2 | .0 |
| Food & Drug Administration | 170.5 | 153.9 | .0 | .0 | 9.9 | .0 | 6.7 | .0 | .0 | .0 |
| Health Care Financing Admin | 54.5 | - | 23.9 | .0 | 5.2 | .0 | 13.9 | .0 | 11.1 | .3 |
| Health Resources & Services Admin | 13.0 | 2.4 | .0 | .0 | 8.1 | .0 | 2.5 | .0 | .0 | .0 |
| National Institutes of Health ¹¹ | 11,265.6 | 1,780.2 | 506.7 | 224.0 | 6,908.3 | 18.2 | 1,644.2 | 20.9 | 119.1 | 44.0 |
| Office of the Assistant Secretary for Health | .5 | - | .0 | .0 | .0 | .0 | .5 | .0 | .0 | .0 |
| Office of the Secretary | 9.0 | 3.5 | 2.0 | .0 | 2.0 | .0 | 1.5 | .0 | .0 | .0 |
| Dept of Housing & Urban Dvlpmt | 35.0 | 19.0 | 10.6 | .0 | 1.4 | .0 | 3.9 | .0 | .0 | .0 |
| Department of the Interior, total | 565.1 | 492.8 | 15.2 | - | 55.0 | .4 | .3 | .0 | .2 | 1.3 |
| Bureau of Reclamation | 6.0 | 5.6 | .0 | .0 | .3 | .0 | .2 | .0 | .0 | .0 |
| Geological Survey ¹² | 518.5 | 470.4 | 10.9 | .0 | 37.3 | .0 | .0 | .0 | .0 | .0 |
| Minerals Management Service | 20.8 | 7.7 | 2.7 | - | 8.5 | .4 | - | .0 | .2 | 1.3 |
| National Park Service ¹³ | 19.8 | 9.1 | 1.6 | .0 | 8.9 | .0 | .1 | .0 | .0 | .0 |
| Office of the Secretary | - | - | - | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Department of Justice, total | 80.9 | 42.2 | 1.2 | .4 | 6.3 | .0 | 26.7 | .0 | 4.1 | .0 |
| Bureau of Prisons | 4.7 | 2.4 | .0 | .0 | .0 | .0 | .0 | .0 | 2.3 | .0 |
| Drug Enforcement Administration | 1.2 | .1 | .7 | .4 | .0 | .0 | .0 | .0 | .0 | .0 |
| Federal Bureau of Investigation | 36.8 | 36.8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Immigration & Naturalization Svc | .4 | - | .0 | .0 | .0 | .0 | .4 | .0 | .0 | .0 |
| Office of Justice Programs | 37.8 | 2.8 | .5 | .0 | 6.3 | .0 | 26.4 | .0 | 1.8 | .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 1996

[Dollars in millions]

| 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 nonprofit insti-tutions | State and local govts | |
| Department of Labor, total | 46.5 | 14.1 | 10.6 | .0 | 5.4 | .0 | 5.8 | .0 | 10.7 | .0 |
| Bureau of Labor Statistics | 13.3 | 8.2 | .0 | .0 | 5.1 | .0 | .0 | .0 | .0 | .0 |
| Employment & Training Admin | 20.8 | 1.6 | 4.5 | .0 | .3 | .0 | 3.8 | .0 | 10.7 | .0 |
| Occupational Safety & Hlth Admin | 3.2 | .9 | 2.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Office of the Secretary | 6.4 | 2.4 | 1.9 | .0 | .1 | .0 | 2.0 | .0 | .0 | .0 |
| Pension Benefit Guaranty Corp | .6 | .2 | .4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Pension & Welfare Benefits Admin | 2.3 | .8 | 1.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Department of State | 4.3 | .4 | .1 | .0 | - | - | 3.7 | .0 | .0 | .0 |
| Department of Transportation, total | 641.4 | 191.1 | 231.9 | 2.4 | 75.8 | 8.3 | 34.3 | 7.1 | 90.2 | 0.2 |
| Coast Guard | 20.0 | 14.2 | 5.4 | .0 | .4 | .0 | .0 | .0 | .0 | .0 |
| Federal Aviation Administration | 217.6 | 87.8 | 83.4 | .9 | 30.0 | 8.3 | .0 | 7.1 | .0 | .2 |
| Federal Highway Administration | 304.8 | 47.6 | 118.7 | 1.5 | 30.2 | .0 | 24.8 | .0 | 81.9 | .0 |
| Federal Railroad Administration | 30.3 | 12.5 | 4.4 | .0 | 1.9 | .0 | 5.4 | .0 | 6.1 | - |
| Federal Transit Administration | 16.0 | 2.6 | .7 | .0 | 7.3 | .0 | 3.1 | .0 | 2.3 | .0 |
| National Highway Traffic Safety Administration | 38.2 | 19.2 | 12.0 | .0 | 6.0 | .0 | 1.0 | .0 | .0 | .0 |
| Office of the Secretary | 2.9 | 2.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Research & Special Programs Admin | 11.5 | 4.2 | 7.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Department of the Treasury, total | 63.6 | 40.3 | 8.1 | .0 | .6 | .1 | .0 | 14.5 | .0 | .0 |
| Bureau of Engraving & Printing | 2.2 | 2.0 | .0 | .0 | .0 | .1 | .0 | .0 | .0 | .0 |
| Internal Revenue Service | 50.6 | 35.6 | .0 | .0 | .6 | .0 | .0 | 14.5 | .0 | .0 |
| Office of Thrift Supervision | .5 | .5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| United States Customs Service | 9.5 | 1.9 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| United States Mint | .2 | - | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| United States Secret Service ¹⁴ | .6 | .3 | .3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Department of Veterans Affairs | 276.2 | 274.3 | .0 | .0 | 1.9 | .0 | .0 | .0 | .0 | .0 |
| Other agencies: | | | | | | | | | | |
| Advisory Commission on Intergovernmental Relations | 1.4 | 1.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Appalachian Regional Commission | .9 | .1 | .1 | .0 | .7 | .0 | .0 | .0 | .0 | .0 |
| Consumer Product Safety Commission | - | - | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Environmental Protection Agency | 457.1 | 186.2 | 124.4 | .0 | 104.2 | .0 | 34.1 | .0 | 5.3 | 2.9 |
| Federal Communications Commission | 2.8 | 2.8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Federal Trade Commission | 1.0 | 1.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Internat'l Dvlpmt Cooperation Agency, total | 246.5 | 36.6 | 9.7 | .0 | 18.9 | .0 | 143.3 | .0 | .0 | 38.0 |
| Agency for Internat'l Dvlpmt | 246.5 | 36.6 | 9.7 | .0 | 18.9 | .0 | 143.3 | .0 | .0 | 38.0 |
| Library of Congress | 8.3 | 8.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| National Aeronautics & Space Admin | 9,613.7 | 2,403.4 | 5,258.4 | .0 | 708.1 | 903.3 | 286.9 | 3.8 | 2.9 | 46.8 |
| National Archives & Records Admin | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| National Science Foundation | 2,141.7 | 20.1 | 106.5 | - | 1,725.6 | 135.6 | 143.4 | .6 | 4.7 | 5.3 |
| Nuclear Regulatory Commission | 59.2 | 13.9 | 3.6 | 23.3 | 2.2 | 10.8 | .6 | 1.1 | .0 | 3.8 |

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 1996

[Dollars in millions]

| Agency and subdivision | Total | Intra-mural ¹ | Extramural | | | | | | | Foreign |
|--|-------|--------------------------|-------------------------------|-----------------------------------|----------------------------|------------------------------------|-------------------------------|--|-----------------------|---------|
| | | | United States and territories | | | | | | | |
| | | | Indus-trial firms | FFRDCs admin by in-dustrial firms | Univer-sities and colleges | FFRDCs admin by univs and colleges | Other non-profit institutions | FFRDCs admin by nonprofit institutions | State and local govts | |
| Smithsonian Institution | 125.4 | 125.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Social Security Administration ¹⁵ | 8.3 | 1.7 | 1.6 | .0 | 0.7 | .0 | 2.4 | .0 | 1.8 | .0 |
| Tennessee Valley Authority | 103.4 | 103.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| US Arms Control & Disarmament Agcy | .5 | .1 | .5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| United States Information Agency | .2 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| US Internat'l Trade Commission | 12.7 | 12.7 | .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 Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 3 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.
- 4 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.
- 5 The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.
- 6 This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.
- 7 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.
- 8 Not all Department of Defense (DoD) agencies with development obligations are able to categorize these obligations according to the advanced technology and major systems development breakdown. Therefore, total DoD development does not equal the sum of total DoD advanced technology development and total DoD major systems development.
- 9 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.
- 10 Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
- 11 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.
- 12 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.
- 13 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.
- 14 The United States Secret Service was formerly listed as the Office of Protective Research.
- 15 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.

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.

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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-10. Preliminary Federal obligations for total research and development, by agency and performer: fiscal year 1997

[Dollars in millions]

| Agency and subdivision | Total | Intra-mural ¹ | Extramural | | | | | | | Foreign |
|---|----------|--------------------------|-------------------------------|----------------------------------|----------------------------|------------------------------------|-------------------------------|--|-----------------------|---------|
| | | | United States and territories | | | | | | | |
| | | | Indus-trial firms | FFRDCs admin by industrial firms | Univer-sities and colleges | FFRDCs admin by univs and colleges | Other non-profit institutions | FFRDCs admin by nonprofit institutions | State and local govts | |
| Total, all agencies | 68,063.7 | 16,403.7 | 30,712.6 | 1,339.5 | 12,362.2 | 3,230.6 | 2,883.6 | 644.1 | 281.6 | 205.9 |
| Departments: | | | | | | | | | | |
| Department of Agriculture, total | 1,368.6 | 922.3 | 12.3 | .0 | 420.6 | .0 | 7.3 | .0 | 2.3 | 3.8 |
| Agricultural Marketing Service | 4.9 | 4.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Agricultural Research Service ² | 696.6 | 662.8 | .0 | .0 | 27.7 | .0 | 2.7 | .0 | .3 | 3.1 |
| Animal & Plant Hlth Inspection Svc | 20.6 | 19.1 | .0 | .0 | 1.5 | .0 | .0 | .0 | .0 | .0 |
| Cooperative State Research, Education, & Extension Service ³ | 402.2 | 19.3 | 12.1 | .0 | 366.1 | .0 | 3.2 | .0 | 1.5 | .0 |
| Economic Research Service | 54.9 | 53.1 | .0 | .0 | 1.9 | .0 | .0 | .0 | .0 | .0 |
| Foreign Agricultural Service ⁴ | 1.4 | 1.1 | .0 | .0 | .4 | .0 | .0 | .0 | .0 | .0 |
| Forest Service | 179.8 | 154.0 | .2 | .0 | 23.0 | .0 | 1.4 | .0 | .6 | .7 |
| Grain Inspection Packers & Stockyards Administration ⁵ | 2.8 | 2.8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Nat'l Agricultural Statistics Svc | 3.9 | 3.8 | .0 | .0 | .1 | .0 | - | .0 | .0 | .0 |
| Rural Business-Cooperative Service ⁶ | 1.4 | 1.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Department of Commerce, total | 1,095.8 | 712.3 | 302.8 | .0 | 70.8 | .2 | 5.6 | .0 | 3.1 | 1.1 |
| Bureau of the Census | 7.1 | 7.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Economic Development Admin | 1.5 | - | .6 | .0 | .0 | .0 | .9 | .0 | .0 | .0 |
| National Inst of Standards & Tech | 541.7 | 225.6 | 300.1 | .0 | 11.8 | .1 | 3.0 | .0 | .0 | 1.1 |
| Nat'l Oceanic & Atmospheric Admin | 540.8 | 474.9 | 2.0 | .0 | 59.0 | .1 | 1.7 | .0 | 3.1 | .0 |
| National Telecommunications & Information Administration | 4.7 | 4.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Department of Defense, research ⁷ | 3,861.5 | 1,366.0 | 1,344.6 | 9.1 | 968.1 | 68.8 | 77.7 | 14.0 | .0 | 13.4 |
| Department of Defense, development ⁸ | 29,102.8 | 6,552.8 | 21,280.1 | 145.6 | 319.7 | 134.2 | 273.6 | 348.9 | .0 | 48.0 |
| Department of Defense, advanced technology development | 4,101.2 | 1,159.4 | 2,361.4 | 22.5 | 147.3 | 75.1 | 238.7 | 64.9 | .0 | 31.9 |
| Department of Defense, major system development | 25,001.6 | 5,393.4 | 18,918.7 | 123.2 | 172.4 | 59.1 | 34.9 | 283.9 | .0 | 16.0 |
| Department of the Army, research & development (R&D) | 4,373.3 | 2,276.8 | 1,919.3 | 3.3 | 123.3 | 15.4 | 15.0 | 15.5 | .0 | 4.7 |
| Department of the Navy, R&D | 7,581.6 | 2,850.1 | 4,113.0 | 3.3 | 411.8 | 18.5 | 108.2 | 65.2 | .0 | 11.5 |
| Department of the Air Force, R&D | 13,359.8 | 1,013.5 | 11,922.1 | 73.0 | 175.7 | 8.3 | 14.8 | 150.4 | .0 | 2.0 |
| Defense Agencies, R&D, total | 7,376.6 | 1,550.7 | 4,645.7 | 75.0 | 577.0 | 160.8 | 213.3 | 111.1 | .0 | 43.1 |
| Ballistic Missile Defense Organization, R&D | 2,567.1 | 456.9 | 1,965.1 | 12.3 | 49.7 | 47.7 | .0 | 18.6 | .0 | 16.7 |
| Defense Advanced Research Projects Agency, R&D ⁹ | 2,185.7 | 310.7 | 1,331.2 | 4.7 | 253.4 | 54.7 | 209.4 | 20.9 | .0 | .7 |
| Defense Information Systems Agency, R&D | 66.6 | 17.6 | 43.1 | .0 | .0 | .0 | .9 | 5.0 | .0 | .0 |
| Defense Logistics Agency, R&D | 38.6 | 28.7 | 5.1 | .0 | 4.8 | .0 | .0 | .0 | .0 | .0 |
| Defense Mapping Agency, R&D | 95.2 | 9.6 | 83.9 | .0 | .9 | .0 | .0 | .8 | .0 | .0 |
| Defense Nuclear Agency, R&D | 224.4 | 47.9 | 159.5 | 3.2 | .7 | 10.3 | 1.5 | .3 | .0 | 1.2 |
| Joint Staff, R&D | 38.8 | 35.3 | 3.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Special Operations Command, R&D | 125.6 | 33.7 | 72.6 | 1.9 | .0 | .0 | .0 | .0 | .0 | 17.5 |
| Washington Headquarters Services, R&D ¹⁰ | 2,034.6 | 610.4 | 981.7 | 53.0 | 267.4 | 48.1 | 1.4 | 65.6 | .0 | 7.0 |
| Operational Test & Evaluation, R&D, Director | 22.0 | 7.7 | .7 | .0 | .0 | .0 | .0 | 13.6 | .0 | .0 |
| Test & Evaluation, R&D, Deputy Under Secretary of Defense | 251.0 | 220.0 | 23.9 | .0 | .0 | .0 | .0 | 7.2 | .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 1997

[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 | |
| Department of Education | 188.1 | 9.3 | 11.8 | .0 | 113.0 | .0 | 48.0 | .0 | 6.1 | .0 |
| Department of Energy | 5,895.2 | 507.3 | 1,515.9 | 932.7 | 574.2 | 2,035.1 | 69.0 | 232.8 | 13.7 | 14.4 |
| Dept of Health & Human Svcs, total | 12,184.9 | 2,362.1 | 556.8 | 227.0 | 7,087.8 | 21.3 | 1,733.8 | 21.2 | 129.1 | 45.7 |
| Administration on Aging | 3.2 | .3 | .0 | .0 | .0 | .0 | 2.9 | .0 | .0 | .0 |
| Admin for Children & Families | 19.0 | .4 | .0 | .0 | 16.7 | .0 | 1.9 | .0 | .0 | .0 |
| Agcy for Hlth Care Policy & Rsch | 84.0 | 25.7 | 16.3 | .0 | 26.8 | .0 | 15.2 | .0 | .0 | .0 |
| Centers for Disease Control & Prevention | 361.2 | 319.3 | 1.1 | .0 | 31.7 | .2 | 8.6 | .1 | .2 | .0 |
| Food & Drug Administration | 170.5 | 153.9 | .0 | .0 | 9.9 | .0 | 6.7 | .0 | .0 | .0 |
| Health Care Financing Admin | 55.3 | .1 | 29.7 | .0 | 6.6 | .0 | 10.2 | .0 | 8.5 | .3 |
| Health Resources & Services Admin | 11.7 | 2.1 | .0 | .0 | 7.1 | .0 | 2.5 | .0 | .0 | .0 |
| National Institutes of Health ¹¹ | 11,470.5 | 1,856.8 | 507.7 | 227.0 | 6,987.0 | 21.1 | 1,683.9 | 21.1 | 120.4 | 45.4 |
| Office of the Assistant Secretary for Health | .6 | .1 | .0 | .0 | .0 | .0 | .5 | .0 | .0 | .0 |
| Office of the Secretary | 9.0 | 3.5 | 2.0 | .0 | 2.0 | .0 | 1.5 | .0 | .0 | .0 |
| Dept of Housing & Urban Dvlpmt | 45.5 | 25.8 | 11.5 | .0 | 1.0 | .0 | 7.2 | .0 | .0 | .0 |
| Department of the Interior, total | 573.5 | 508.3 | 15.6 | - | 47.8 | .4 | .2 | .0 | .2 | 1.0 |
| Bureau of Reclamation | 7.6 | 7.6 | .0 | .0 | .1 | .0 | .0 | .0 | .0 | .0 |
| Geological Survey ¹² | 524.4 | 483.4 | 11.3 | .0 | 29.8 | .0 | .0 | .0 | .0 | .0 |
| Minerals Management Service | 20.6 | 7.8 | 2.7 | - | 8.5 | .4 | - | .0 | .2 | 1.0 |
| National Park Service ¹³ | 20.8 | 9.6 | 1.6 | .0 | 9.5 | .0 | .1 | .0 | .0 | .0 |
| Department of Justice, total | 93.7 | 43.8 | .5 | .4 | 7.1 | .0 | 30.0 | .0 | 12.0 | .0 |
| Bureau of Prisons | 4.7 | 2.4 | .0 | .0 | .0 | .0 | .0 | .0 | 2.3 | .0 |
| Drug Enforcement Administration | .5 | .1 | .0 | .4 | .0 | .0 | .0 | .0 | .0 | .0 |
| Federal Bureau of Investigation | 34.8 | 34.8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Immigration & Naturalization Svc | .4 | - | .0 | .0 | .0 | .0 | .4 | .0 | .0 | .0 |
| Office of Justice Programs | 53.2 | 6.4 | .5 | .0 | 7.1 | .0 | 29.6 | .0 | 9.7 | .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 1997

[Dollars in millions]

| Agency and subdivision | Total | Intra-mural ¹ | Extramural | | | | | | | |
|--|---------|--------------------------|-------------------------------|----------------------------------|---------------------------|------------------------------------|-------------------------------|--|-----------------------|---------|
| | | | United States and territories | | | | | | | Foreign |
| | | | Industrial firms | FFRDCs admin by industrial firms | Universities and colleges | FFRDCs admin by univs and colleges | Other non-profit institutions | FFRDCs admin by nonprofit institutions | State and local govts | |
| Department of Labor, total | 42.9 | 20.9 | 9.4 | .0 | 0.2 | .0 | 3.5 | .0 | 9.0 | .0 |
| Bureau of Labor Statistics | 12.6 | 12.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Employment & Training Admin | 17.3 | 1.5 | 3.8 | .0 | .2 | .0 | 2.9 | .0 | 9.0 | .0 |
| Occupational Safety & Hlth Admin | 3.5 | 1.0 | 2.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Office of the Secretary | 6.5 | 4.8 | 1.2 | .0 | .0 | .0 | .6 | .0 | .0 | .0 |
| Pension Benefit Guaranty Corp | .7 | .2 | .4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Pension & Welfare Benefits Admin | 2.3 | .8 | 1.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Department of State | 4.3 | .4 | .1 | .0 | - | - | 3.7 | .0 | .0 | .0 |
| Department of Transportation, total | 705.7 | 239.4 | 264.1 | 1.5 | 67.0 | 8.6 | 26.6 | 7.1 | 91.4 | 0.1 |
| Coast Guard | 19.8 | 14.0 | 5.4 | .0 | .3 | .0 | .0 | .0 | .0 | .0 |
| Federal Aviation Administration | 223.7 | 95.0 | 77.2 | .9 | 35.0 | 8.4 | .0 | 7.1 | .0 | .1 |
| Federal Highway Administration | 362.1 | 81.7 | 155.4 | .6 | 15.1 | .2 | 18.7 | .0 | 90.5 | .0 |
| Federal Railroad Administration | 24.1 | 15.1 | 2.5 | .0 | 1.5 | .0 | 5.1 | .0 | .0 | .0 |
| Federal Transit Administration | 14.6 | 2.6 | .5 | .0 | 8.9 | .0 | 1.7 | .0 | .9 | .0 |
| Maritime Administration | 2.0 | .5 | 1.2 | .0 | .2 | .0 | .2 | .0 | .0 | .0 |
| National Highway Traffic Safety Administration | 45.7 | 23.7 | 15.0 | .0 | 6.0 | .0 | 1.0 | .0 | .0 | .0 |
| Office of the Secretary | 2.8 | 2.8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Research & Special Programs Admin | 10.9 | 3.9 | 7.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Department of the Treasury, total | 64.4 | 44.6 | 5.2 | .0 | - | - | .0 | 14.5 | .0 | .0 |
| Bureau of Engraving & Printing | 2.0 | 2.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Internal Revenue Service | 54.3 | 39.8 | .0 | .0 | - | .0 | .0 | 14.5 | .0 | .0 |
| Office of Thrift Supervision | .6 | .6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| United States Customs Service | 6.4 | 1.9 | 4.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| United States Mint | .4 | .1 | .3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| United States Secret Service ¹⁴ | .6 | .3 | .3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Department of Veterans Affairs | 258.0 | 256.0 | .0 | .0 | 2.0 | .0 | .0 | .0 | .0 | .0 |
| Other agencies: | | | | | | | | | | |
| Appalachian Regional Commission | .9 | .1 | .1 | .0 | .7 | .0 | .0 | .0 | .0 | .0 |
| Environmental Protection Agency | 581.0 | 236.6 | 158.1 | .0 | 132.4 | .0 | 43.4 | .0 | 6.7 | 3.7 |
| Federal Communications Commission | 2.7 | 2.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Federal Trade Commission | 1.0 | 1.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Internat'l Dvlpmt Cooperation Agency, total | 186.8 | 21.2 | 9.7 | .0 | 13.0 | .0 | 122.7 | .0 | .0 | 20.1 |
| Agency for Internat'l Dvlpmt | 186.8 | 21.2 | 9.7 | .0 | 13.0 | .0 | 122.7 | .0 | .0 | 20.1 |
| Library of Congress | 9.1 | 9.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| National Aeronautics & Space Admin | 9,204.2 | 2,301.0 | 5,062.7 | .0 | 708.1 | 803.9 | 274.7 | 3.8 | 3.1 | 46.8 |
| National Archives & Records Admin | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| National Science Foundation | 2,278.9 | 18.9 | 124.6 | - | 1,823.6 | 145.4 | 155.6 | .5 | 4.9 | 5.4 |
| Nuclear Regulatory Commission | 59.0 | 13.8 | 2.0 | 23.3 | 3.2 | 12.7 | .4 | 1.4 | .0 | 2.3 |

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 1997

[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 | |
| Smithsonian Institution | 136.8 | 136.8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Social Security Administration ¹⁵ | 27.7 | 1.1 | 23.9 | .0 | 2.0 | .0 | 0.7 | .0 | - | .0 |
| Tennessee Valley Authority | 77.0 | 77.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| US Arms Control & Disarmament Agcy | 1.0 | .2 | .8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| United States Information Agency | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| US Internat'l Trade Commission | 12.5 | 12.5 | .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 Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 3 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.
- 4 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.
- 5 The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.
- 6 This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.
- 7 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.
- 8 Not all Department of Defense (DoD) agencies with development obligations are able to categorize these obligations according to the advanced technology and major systems development breakdown. Therefore, total DoD development does not equal the sum of total DoD advanced technology development and total DoD major systems development.
- 9 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.
- 10 Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
- 11 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.
- 12 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.
- 13 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.
- 14 The United States Secret Service was formerly listed as the Office of Protective Research.
- 15 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.

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.

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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997



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 1995

[Dollars in thousands]

Page 1 of 1

| Agency and subdivision | Research and development | | | | R&D plant | | | |
|--|--------------------------|---------------------------|---------------------------|--------------------------------|-----------|---------------------------|---------------------------|--------------------------------|
| | Total | Admin by industrial firms | Admin by univs & colleges | Admin by other nonprofit insts | Total | Admin by industrial firms | Admin by univs & colleges | Admin by other nonprofit insts |
| Total, all agencies | 5,609,641 | 1,203,899 | 3,574,349 | 831,393 | 701,654 | 95,143 | 543,888 | 62,623 |
| Department of Commerce, total | 129 | 0 | 129 | 0 | 0 | 0 | 0 | 0 |
| National Inst of Standards & Tech | 129 | 0 | 129 | 0 | 0 | 0 | 0 | 0 |
| Department of Defense, total | 823,106 | 93,468 | 261,520 | 468,118 | 315 | 0 | 115 | 200 |
| Department of the Army | 76,603 | 26,941 | 26,258 | 23,404 | 0 | 0 | 0 | 0 |
| Department of the Navy | 98,403 | 1,088 | 26,785 | 70,530 | 0 | 0 | 0 | 0 |
| Department of the Air Force | 315,905 | 14,450 | 42,375 | 259,080 | 0 | 0 | 0 | 0 |
| Defense Agencies, total | 314,197 | 50,989 | 165,952 | 97,256 | 315 | 0 | 115 | 200 |
| Ballistic Missile Defense Organization | 98,937 | 20,041 | 59,667 | 19,229 | 0 | 0 | 0 | 0 |
| Defense Advanced Research Projects Agency ¹ | 89,089 | 4,733 | 61,308 | 23,048 | 0 | 0 | 0 | 0 |
| Defense Information Systems Agency | 13,207 | 0 | 828 | 12,379 | 0 | 0 | 0 | 0 |
| Defense Logistics Agency | 0 | 0 | 0 | 0 | 200 | 0 | 0 | 200 |
| Defense Mapping Agency | 1,318 | 0 | 500 | 818 | 0 | 0 | 0 | 0 |
| Defense Nuclear Agency | 19,978 | 5,332 | 14,186 | 460 | 0 | 0 | 0 | 0 |
| Special Operations Command | 3,767 | 3,767 | 0 | 0 | 0 | 0 | 0 | 0 |
| Washington Headquarters Svcs ² | 87,901 | 17,116 | 29,463 | 41,322 | 115 | 0 | 115 | 0 |
| Operational Test & Evaluation, Director | 13,370 | 0 | 150 | 13,220 | 0 | 0 | 0 | 0 |
| Test & Evaluation, Deputy Under Secretary of Defense | 4,628 | 0 | 0 | 4,628 | 0 | 0 | 0 | 0 |
| Department of Energy | 3,295,890 | 935,637 | 2,057,324 | 302,929 | 652,357 | 95,143 | 494,791 | 62,423 |
| Dept of Health & Human Svcs, total | 186,057 | 142,164 | 24,478 | 19,415 | 0 | 0 | 0 | 0 |
| Centers for Disease Control & Prevention | 304 | 0 | 237 | 67 | 0 | 0 | 0 | 0 |
| National Institutes of Health ³ | 185,753 | 142,164 | 24,241 | 19,348 | 0 | 0 | 0 | 0 |
| Department of the Interior, total | 695 | 85 | 610 | 0 | 0 | 0 | 0 | 0 |
| Minerals Management Service | 615 | 85 | 530 | 0 | 0 | 0 | 0 | 0 |
| National Park Service ⁴ | 80 | 0 | 80 | 0 | 0 | 0 | 0 | 0 |
| Department of State | 23 | 0 | 23 | 0 | 0 | 0 | 0 | 0 |
| Department of Transportation, total | 39,785 | 1,619 | 27,875 | 10,291 | 0 | 0 | 0 | 0 |
| Federal Aviation Administration | 23,436 | 1,219 | 11,926 | 10,291 | 0 | 0 | 0 | 0 |
| Federal Highway Administration | 16,349 | 400 | 15,949 | 0 | 0 | 0 | 0 | 0 |
| Department of the Treasury, total | 18,696 | 0 | 1,496 | 17,200 | 0 | 0 | 0 | 0 |
| Bureau of Engraving & Printing | 184 | 0 | 184 | 0 | 0 | 0 | 0 | 0 |
| Internal Revenue Service | 18,512 | 0 | 1,312 | 17,200 | 0 | 0 | 0 | 0 |
| Other agencies: | | | | | | | | |
| National Aeronautics & Space Admin | 1,047,684 | 0 | 1,043,913 | 3,771 | 0 | 0 | 0 | 0 |
| National Science Foundation | 141,476 | 10 | 140,883 | 583 | 48,982 | 0 | 48,982 | 0 |
| Nuclear Regulatory Commission | 56,100 | 30,916 | 16,098 | 9,086 | 0 | 0 | 0 | 0 |

¹ 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.

² Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

³ 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

⁴ 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.

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.

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

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 1996

[Dollars in thousands]

Page 1 of 1

| Agency and subdivision | Research and development | | | | R&D plant | | | |
|--|--------------------------|---------------------------|---------------------------|--------------------------------|-----------|---------------------------|---------------------------|--------------------------------|
| | Total | Admin by industrial firms | Admin by univs & colleges | Admin by other nonprofit insts | Total | Admin by industrial firms | Admin by univs & colleges | Admin by other nonprofit insts |
| Total, all agencies | 5,254,639 | 1,231,251 | 3,302,165 | 721,223 | 682,973 | 77,101 | 536,179 | 69,693 |
| Department of Commerce, total | 183 | 0 | 183 | 0 | 0 | 0 | 0 | 0 |
| National Inst of Standards & Tech | 133 | 0 | 133 | 0 | 0 | 0 | 0 | 0 |
| Nat'l Oceanic & Atmospheric Admin | 50 | 0 | 50 | 0 | 0 | 0 | 0 | 0 |
| Department of Defense, total | 748,555 | 76,050 | 223,219 | 449,286 | 300 | 0 | 100 | 200 |
| Department of the Army | 63,724 | 9,783 | 32,327 | 21,614 | 0 | 0 | 0 | 0 |
| Department of the Navy | 90,375 | 3,045 | 18,855 | 68,475 | 0 | 0 | 0 | 0 |
| Department of the Air Force | 264,249 | 15,295 | 8,910 | 240,044 | 0 | 0 | 0 | 0 |
| Defense Agencies, total | 310,370 | 47,927 | 162,927 | 99,516 | 300 | 0 | 100 | 200 |
| Ballistic Missile Defense Organization | 94,976 | 18,768 | 57,369 | 18,839 | 0 | 0 | 0 | 0 |
| Defense Advanced Research Projects Agency ¹ | 87,460 | 4,763 | 56,593 | 26,104 | 0 | 0 | 0 | 0 |
| Defense Information Systems Agency | 5,445 | 0 | 289 | 5,156 | 0 | 0 | 0 | 0 |
| Defense Logistics Agency | 0 | 0 | 0 | 0 | 200 | 0 | 0 | 200 |
| Defense Mapping Agency | 1,593 | 0 | 250 | 1,343 | 0 | 0 | 0 | 0 |
| Defense Nuclear Agency | 14,961 | 3,439 | 11,118 | 404 | 0 | 0 | 0 | 0 |
| Special Operations Command | 2,265 | 2,265 | 0 | 0 | 0 | 0 | 0 | 0 |
| Washington Headquarters Svcs ² | 103,670 | 18,692 | 37,308 | 47,670 | 100 | 0 | 100 | 0 |
| Operational Test & Evaluation, Director | 13,560 | 0 | 200 | 13,360 | 0 | 0 | 0 | 0 |
| Test & Evaluation, Deputy Under Secretary of Defense | 6,277 | 0 | 0 | 6,277 | 0 | 0 | 0 | 0 |
| Department of Energy | 3,130,904 | 905,159 | 2,001,756 | 223,989 | 675,244 | 77,101 | 528,650 | 69,493 |
| Dept of Health & Human Svcs, total | 263,411 | 223,966 | 18,471 | 20,974 | 0 | 0 | 0 | 0 |
| Centers for Disease Control & Prevention | 304 | 0 | 237 | 67 | 0 | 0 | 0 | 0 |
| National Institutes of Health ³ | 263,107 | 223,966 | 18,234 | 20,907 | 0 | 0 | 0 | 0 |
| Department of the Interior, total | 370 | 20 | 350 | 0 | 0 | 0 | 0 | 0 |
| Minerals Management Service | 370 | 20 | 350 | 0 | 0 | 0 | 0 | 0 |
| Department of Justice, total | 355 | 355 | 0 | 0 | 0 | 0 | 0 | 0 |
| Drug Enforcement Administration | 355 | 355 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of State | 41 | 0 | 41 | 0 | 0 | 0 | 0 | 0 |
| Department of Transportation, total | 17,804 | 2,422 | 8,295 | 7,087 | 0 | 0 | 0 | 0 |
| Federal Aviation Administration | 16,280 | 898 | 8,295 | 7,087 | 0 | 0 | 0 | 0 |
| Federal Highway Administration | 1,524 | 1,524 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of the Treasury, total | 14,616 | 0 | 116 | 14,500 | 0 | 0 | 0 | 0 |
| Bureau of Engraving & Printing | 116 | 0 | 116 | 0 | 0 | 0 | 0 | 0 |
| Internal Revenue Service | 14,500 | 0 | 0 | 14,500 | 0 | 0 | 0 | 0 |
| Other agencies: | | | | | | | | |
| National Aeronautics & Space Admin | 907,081 | 0 | 903,310 | 3,771 | 0 | 0 | 0 | 0 |
| National Science Foundation | 136,188 | 8 | 135,621 | 559 | 7,429 | 0 | 7,429 | 0 |
| Nuclear Regulatory Commission | 35,131 | 23,271 | 10,803 | 1,057 | 0 | 0 | 0 | 0 |

¹ 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.

² Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

³ 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

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.

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

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 1997

[Dollars in thousands]

Page 1 of 1

| Agency and subdivision | Research and development | | | | R&D plant | | | |
|--|--------------------------|---------------------------|---------------------------|--------------------------------|-----------|---------------------------|---------------------------|--------------------------------|
| | Total | Admin by industrial firms | Admin by univs & colleges | Admin by other nonprofit insts | Total | Admin by industrial firms | Admin by univs & colleges | Admin by other nonprofit insts |
| Total, all agencies | 5,214,163 | 1,339,507 | 3,230,552 | 644,104 | 783,565 | 83,305 | 642,065 | 58,195 |
| Department of Commerce, total | 188 | 0 | 188 | 0 | 0 | 0 | 0 | 0 |
| National Inst of Standards & Tech | 138 | 0 | 138 | 0 | 0 | 0 | 0 | 0 |
| Nat'l Oceanic & Atmospheric Admin | 50 | 0 | 50 | 0 | 0 | 0 | 0 | 0 |
| Department of Defense, total | 720,583 | 154,677 | 202,996 | 362,910 | 300 | 0 | 100 | 200 |
| Department of the Army | 34,217 | 3,313 | 15,402 | 15,502 | 0 | 0 | 0 | 0 |
| Department of the Navy | 86,983 | 3,342 | 18,489 | 65,152 | 0 | 0 | 0 | 0 |
| Department of the Air Force | 231,721 | 73,031 | 8,331 | 150,359 | 0 | 0 | 0 | 0 |
| Defense Agencies, total | 346,863 | 74,991 | 160,774 | 111,098 | 300 | 0 | 100 | 200 |
| Ballistic Missile Defense Organization | 78,575 | 12,287 | 47,670 | 18,618 | 0 | 0 | 0 | 0 |
| Defense Advanced Research Projects Agency ¹ | 80,285 | 4,674 | 54,672 | 20,939 | 0 | 0 | 0 | 0 |
| Defense Information Systems Agency | 4,972 | 0 | 0 | 4,972 | 0 | 0 | 0 | 0 |
| Defense Logistics Agency | 0 | 0 | 0 | 0 | 200 | 0 | 0 | 200 |
| Defense Mapping Agency | 750 | 0 | 0 | 750 | 0 | 0 | 0 | 0 |
| Defense Nuclear Agency | 13,713 | 3,167 | 10,286 | 260 | 0 | 0 | 0 | 0 |
| Special Operations Command | 1,853 | 1,853 | 0 | 0 | 0 | 0 | 0 | 0 |
| Washington Headquarters Svcs ² | 166,715 | 53,010 | 48,146 | 65,559 | 100 | 0 | 100 | 0 |
| Operational Test & Evaluation, Director | 13,624 | 0 | 0 | 13,624 | 0 | 0 | 0 | 0 |
| Test & Evaluation, Deputy Under Secretary of Defense | 7,175 | 0 | 0 | 7,175 | 0 | 0 | 0 | 0 |
| Department of Energy | 3,200,536 | 932,715 | 2,035,067 | 232,754 | 773,005 | 83,305 | 631,705 | 57,995 |
| Dept of Health & Human Svcs, total | 269,480 | 226,976 | 21,316 | 21,188 | 0 | 0 | 0 | 0 |
| Centers for Disease Control & Prevention | 304 | 0 | 237 | 67 | 0 | 0 | 0 | 0 |
| National Institutes of Health ³ | 269,176 | 226,976 | 21,079 | 21,121 | 0 | 0 | 0 | 0 |
| Department of the Interior, total | 370 | 20 | 350 | 0 | 0 | 0 | 0 | 0 |
| Minerals Management Service | 370 | 20 | 350 | 0 | 0 | 0 | 0 | 0 |
| Department of Justice, total | 400 | 400 | 0 | 0 | 0 | 0 | 0 | 0 |
| Drug Enforcement Administration | 400 | 400 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of State | 41 | 0 | 41 | 0 | 0 | 0 | 0 | 0 |
| Department of Transportation, total | 17,117 | 1,459 | 8,583 | 7,075 | 0 | 0 | 0 | 0 |
| Federal Aviation Administration | 16,411 | 903 | 8,433 | 7,075 | 0 | 0 | 0 | 0 |
| Federal Highway Administration | 706 | 556 | 150 | 0 | 0 | 0 | 0 | 0 |
| Department of the Treasury, total | 14,549 | 0 | 49 | 14,500 | 0 | 0 | 0 | 0 |
| Bureau of Engraving & Printing | 49 | 0 | 49 | 0 | 0 | 0 | 0 | 0 |
| Internal Revenue Service | 14,500 | 0 | 0 | 14,500 | 0 | 0 | 0 | 0 |
| Other agencies: | | | | | | | | |
| National Aeronautics & Space Admin | 807,665 | 0 | 803,894 | 3,771 | 0 | 0 | 0 | 0 |
| National Science Foundation | 145,909 | 10 | 145,402 | 497 | 10,260 | 0 | 10,260 | 0 |
| Nuclear Regulatory Commission | 37,325 | 23,250 | 12,666 | 1,409 | 0 | 0 | 0 | 0 |

¹ 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.

² Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

³ 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

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.

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-14. Federal obligations for research and development to federally funded research and development centers (FFRDCs), by individual FFRDC and agency: fiscal year 1995

[Dollars in thousands]

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| Federally funded research and development centers | Total | Dept of Commerce | Dept of Defense | Dept of Energy | Dept of Health & Human Services | National Aeronautics & Space Admin | National Science Foundation | Other |
|---|-----------|------------------|-----------------|----------------|---------------------------------|------------------------------------|-----------------------------|---------|
| Total, all FFRDCs | 5,609,641 | 129 | 823,106 | 3,295,890 | 186,057 | 1,047,684 | 141,476 | 115,299 |
| FFRDCs administered by industrial firms | 1,203,899 | 0 | 93,468 | 935,637 | 142,164 | 0 | 10 | 32,620 |
| Energy Technology Engineering Center | 11,783 | 0 | 48 | 11,526 | 0 | 0 | 0 | 209 |
| Idaho National Engineering Lab | 77,745 | 0 | 1,578 | 63,753 | 0 | 0 | 0 | 12,414 |
| NCI Frederick Cancer Rsch & Dvlpmt Ctr | 141,707 | 0 | 72 | 0 | 141,635 | 0 | 0 | 0 |
| Oak Ridge National Laboratory | 288,332 | 0 | 9,086 | 267,663 | 529 | 0 | 10 | 11,044 |
| Sandia National Laboratories | 654,472 | 0 | 82,659 | 562,860 | 0 | 0 | 0 | 8,953 |
| Savannah River Technology Center | 29,860 | 0 | 25 | 29,835 | 0 | 0 | 0 | 0 |
| FFRDCs administered by universities & colleges ¹ | 3,574,349 | 129 | 261,520 | 2,057,324 | 24,478 | 1,043,913 | 140,883 | 46,102 |
| Ames Laboratory | 29,815 | 0 | 30 | 25,930 | 0 | 0 | 0 | 3,855 |
| Argonne National Laboratory | 252,879 | 4 | 1,841 | 246,877 | 0 | 240 | 0 | 3,917 |
| Brookhaven National Laboratory | 216,094 | 50 | 2,696 | 199,269 | 2,806 | 353 | 1,448 | 9,472 |
| Ernest Orlando Lawrence Berkeley National Laboratory | 170,870 | 75 | 879 | 156,754 | 12,343 | 703 | 116 | 0 |
| Fermi National Accelerator Lab | 170,917 | 0 | 0 | 170,917 | 0 | 0 | 0 | 0 |
| Jet Propulsion Laboratory | 1,056,916 | 0 | 25,778 | 0 | 0 | 1,031,078 | 60 | 0 |
| Lawrence Livermore National Lab | 500,622 | 0 | 32,857 | 461,840 | 3,192 | 1,016 | 2 | 1,715 |
| Lincoln Laboratory | 158,648 | 0 | 150,206 | 0 | 0 | 343 | 0 | 8,099 |
| Los Alamos National Laboratory | 540,637 | 0 | 24,781 | 489,485 | 5,537 | 812 | 1,162 | 18,860 |
| National Astronomy & Ionosphere Ctr | 7,669 | 0 | 0 | 0 | 0 | 0 | 7,669 | 0 |
| National Center for Atmospheric Rsch | 79,483 | 0 | 462 | 0 | 0 | 7,449 | 71,572 | 0 |
| National Optical Astronomy Observatories ² | 29,099 | 0 | 0 | 0 | 0 | 0 | 29,099 | 0 |
| National Radio Astronomy Observatory | 29,960 | 0 | 0 | 0 | 363 | 0 | 29,597 | 0 |
| Oak Ridge Institute for Science & Ed | 16,747 | 0 | 25 | 14,330 | 237 | 1,919 | 52 | 184 |
| Princeton Plasma Physics Laboratory | 115,284 | 0 | 0 | 115,178 | 0 | 0 | 106 | 0 |
| Software Engineering Institute | 21,965 | 0 | 21,965 | 0 | 0 | 0 | 0 | 0 |
| Stanford Linear Accelerator Center | 117,713 | 0 | 0 | 117,713 | 0 | 0 | 0 | 0 |
| Thomas Jefferson National Accelerator Facility ³ | 59,031 | 0 | 0 | 59,031 | 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 1995

[Dollars in thousands]

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| Federally funded research and development centers | Total | Dept of Commerce | Dept of Defense | Dept of Energy | Dept of Health & Human Services | National Aeronautics & Space Admin | National Science Foundation | Other |
|---|---------|------------------|-----------------|----------------|---------------------------------|------------------------------------|-----------------------------|--------|
| FFRDCs administered by nonprofit institutions ⁴ | 831,393 | 0 | 468,118 | 302,929 | 19,415 | 3,771 | 583 | 36,577 |
| Aerospace Federally Funded Research & Development Center | 137,495 | 0 | 136,552 | 0 | 0 | 738 | 205 | 0 |
| Arroyo Center ⁵ | 2,621 | 0 | 2,621 | 0 | 0 | 0 | 0 | 0 |
| C3I Federally Funded Research & Development Center ⁶ | 192,993 | 0 | 190,330 | 0 | 0 | 2,549 | 114 | 0 |
| Center for Advanced Aviation System Development ⁶ | 15,961 | 0 | 7,073 | 0 | 0 | 0 | 0 | 8,888 |
| Center for Naval Analyses | 44,143 | 0 | 44,056 | 0 | 0 | 0 | 87 | 0 |
| Center for Nuclear Waste Regulatory Analyses | 5,795 | 0 | 0 | 0 | 0 | 0 | 0 | 5,795 |
| Inhalation Toxicology Rsch Institute | 7,417 | 0 | 0 | 6,648 | 769 | 0 | 0 | 0 |
| Institute for Defense Analyses Studies & Analyses FFRDC | 56,215 | 0 | 56,038 | 0 | 0 | 0 | 177 | 0 |
| Logistics Management Institute ⁷ | 2,271 | 0 | 1,871 | 0 | 0 | 200 | 0 | 200 |
| National Defense Research Institute ⁵ | 14,326 | 0 | 2,633 | 0 | 11,558 | 135 | 0 | 0 |
| National Renewable Energy Laboratory ⁸ | 102,278 | 0 | 0 | 102,278 | 0 | 0 | 0 | 0 |
| Pacific Northwest National Laboratory | 208,529 | 0 | 2,944 | 194,003 | 7,088 | 0 | 0 | 4,494 |
| Project Air Force ⁵ | 24,149 | 0 | 24,000 | 0 | 0 | 149 | 0 | 0 |
| Tax Systems Modernization Institute | 17,200 | 0 | 0 | 0 | 0 | 0 | 0 | 17,200 |

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

⁸ 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.

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-15. Federal obligations for R&D plant to federally funded research and development centers (FFRDCs), by individual FFRDC and agency: fiscal year 1995

[Dollars in thousands]

Page 1 of 1

| Federally funded research and development centers | Total | Dept of Commerce | Dept of Defense | Dept of Energy | Dept of Health & Human Services | National Aeronautics & Space Admin | National Science Foundation | Other |
|---|---------|------------------|-----------------|----------------|---------------------------------|------------------------------------|-----------------------------|-------|
| Total, all FFRDCs | 701,654 | 0 | 315 | 652,357 | 0 | 0 | 48,982 | 0 |
| FFRDCs administered by industrial firms | 95,143 | 0 | 0 | 95,143 | 0 | 0 | 0 | 0 |
| Energy Technology Engineering Center | 681 | 0 | 0 | 681 | 0 | 0 | 0 | 0 |
| Idaho National Engineering Lab | 1,192 | 0 | 0 | 1,192 | 0 | 0 | 0 | 0 |
| Oak Ridge National Laboratory | 27,067 | 0 | 0 | 27,067 | 0 | 0 | 0 | 0 |
| Sandia National Laboratories | 66,013 | 0 | 0 | 66,013 | 0 | 0 | 0 | 0 |
| Savannah River Technology Center | 190 | 0 | 0 | 190 | 0 | 0 | 0 | 0 |
| FFRDCs administered by universities & colleges ¹ | 543,888 | 0 | 115 | 494,791 | 0 | 0 | 48,982 | 0 |
| Ames Laboratory | 2,647 | 0 | 0 | 2,647 | 0 | 0 | 0 | 0 |
| Argonne National Laboratory | 88,581 | 0 | 0 | 88,581 | 0 | 0 | 0 | 0 |
| Brookhaven National Laboratory | 109,621 | 0 | 15 | 109,606 | 0 | 0 | 0 | 0 |
| Ernest Orlando Lawrence Berkeley National Laboratory | 54,818 | 0 | 0 | 54,818 | 0 | 0 | 0 | 0 |
| Fermi National Accelerator Lab | 80,226 | 0 | 0 | 80,226 | 0 | 0 | 0 | 0 |
| Lawrence Livermore National Lab | 38,883 | 0 | 100 | 38,783 | 0 | 0 | 0 | 0 |
| Los Alamos National Laboratory | 52,726 | 0 | 0 | 52,726 | 0 | 0 | 0 | 0 |
| National Center for Atmospheric Rsch | 7,982 | 0 | 0 | 0 | 0 | 0 | 7,982 | 0 |
| National Optical Astronomy Observatories ² | 41,000 | 0 | 0 | 0 | 0 | 0 | 41,000 | 0 |
| Oak Ridge Institute for Science & Ed | 1,854 | 0 | 0 | 1,854 | 0 | 0 | 0 | 0 |
| Princeton Plasma Physics Laboratory | 2,900 | 0 | 0 | 2,900 | 0 | 0 | 0 | 0 |
| Stanford Linear Accelerator Center | 51,105 | 0 | 0 | 51,105 | 0 | 0 | 0 | 0 |
| Thomas Jefferson National Accelerator Facility ³ | 11,545 | 0 | 0 | 11,545 | 0 | 0 | 0 | 0 |
| FFRDCs administered by nonprofit institutions ⁴ | 62,623 | 0 | 200 | 62,423 | 0 | 0 | 0 | 0 |
| Inhalation Toxicology Rsch Institute | 287 | 0 | 0 | 287 | 0 | 0 | 0 | 0 |
| Institute for Defense Analyses Studies & Analyses FFRDC | 200 | 0 | 200 | 0 | 0 | 0 | 0 | 0 |
| National Renewable Energy Laboratory ⁵ | 7,133 | 0 | 0 | 7,133 | 0 | 0 | 0 | 0 |
| Pacific Northwest National Laboratory | 55,003 | 0 | 0 | 55,003 | 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.

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-16. Federal obligations for research, by agency and performer: fiscal year 1995

[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 non-profit insti-tutions | FFRDCs admin by non-profit insti-tutions | State and local govts | |
| Total, all agencies | 28,573,434 | 7,787,847 | 4,727,929 | 817,994 | 10,371,580 | 2,235,646 | 2,056,107 | 210,130 | 221,388 | 144,813 |
| Departments: | | | | | | | | | | |
| Department of Agriculture, total | 1,299,552 | 839,448 | 10,653 | 0 | 430,853 | 0 | 11,942 | 0 | 2,332 | 4,324 |
| Agricultural Marketing Service | 4,180 | 3,699 | 0 | 0 | 481 | 0 | 0 | 0 | 0 | 0 |
| Agricultural Research Service ² | 628,608 | 596,975 | 0 | 0 | 24,198 | 0 | 3,578 | 0 | 260 | 3,597 |
| Cooperative State Research, Education, & Extension Service ³ | 417,712 | 19,034 | 10,473 | 0 | 379,762 | 0 | 6,965 | 0 | 1,478 | 0 |
| Economic Research Service | 53,827 | 50,644 | 0 | 0 | 3,183 | 0 | 0 | 0 | 0 | 0 |
| Foreign Agricultural Service ⁴ | 457 | 343 | 0 | 0 | 114 | 0 | 0 | 0 | 0 | 0 |
| Forest Service | 187,704 | 161,869 | 180 | 0 | 22,965 | 0 | 1,369 | 0 | 594 | 727 |
| Grain Inspection Packers & Stockyards Administration ⁵ | 1,484 | 1,484 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nat'l Agricultural Statistics Svc | 4,019 | 3,844 | 0 | 0 | 145 | 0 | 30 | 0 | 0 | 0 |
| Rural Business-Cooperative Svc ⁶ | 1,561 | 1,556 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 |
| Department of Commerce, total | 892,318 | 592,908 | 209,231 | 0 | 82,475 | 129 | 2,509 | 0 | 4,388 | 678 |
| Bureau of the Census | 2,930 | 2,930 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Economic Development Admin | 521 | 10 | 461 | 0 | 0 | 0 | 50 | 0 | 0 | 0 |
| National Inst of Standards & Tech | 372,091 | 188,967 | 169,047 | 0 | 11,457 | 129 | 1,843 | 0 | 0 | 648 |
| Nat'l Oceanic & Atmospheric Admin | 510,362 | 394,617 | 39,723 | 0 | 71,018 | 0 | 616 | 0 | 4,388 | 0 |
| National Telecommunications & Information Administration | 6,383 | 6,383 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Office of the Secretary | 31 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 |
| Department of Defense, total | 4,333,934 | 1,563,632 | 1,509,430 | 19,205 | 1,062,832 | 70,444 | 77,735 | 15,858 | 0 | 14,798 |
| Department of the Army | 852,063 | 543,061 | 192,765 | 3,465 | 95,166 | 2,697 | 8,626 | 1,003 | 0 | 5,280 |
| Department of the Navy | 879,952 | 380,885 | 212,259 | 0 | 248,241 | 3,726 | 28,885 | 1,771 | 0 | 4,185 |
| Department of the Air Force | 834,459 | 390,323 | 259,715 | 368 | 167,351 | 4,869 | 9,280 | 1,310 | 0 | 1,243 |
| Defense Agencies, total | 1,767,460 | 249,363 | 844,691 | 15,372 | 552,074 | 59,152 | 30,944 | 11,774 | 0 | 4,090 |
| Ballistic Missile Defense Organization | 104,553 | 15,190 | 67,763 | 0 | 13,268 | 4,878 | 0 | 2,294 | 0 | 1,160 |
| Defense Advanced Research Projects Agency ⁷ | 921,404 | 60,152 | 558,694 | 4,012 | 226,723 | 37,895 | 26,063 | 5,868 | 0 | 1,997 |
| Defense Information Systems Agency | 1,717 | 1,717 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Defense Logistics Agency | 7,062 | 7,062 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Defense Nuclear Agency | 209,033 | 47,118 | 137,497 | 3,910 | 4,638 | 12,765 | 2,172 | 0 | 0 | 933 |
| Special Operations Command | 39,913 | 22,883 | 17,030 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Washington Headquarters Svcs ⁸ | 483,778 | 95,241 | 63,707 | 7,450 | 307,445 | 3,614 | 2,709 | 3,612 | 0 | 0 |
| Department of Education | 138,352 | 7,144 | 3,728 | 0 | 92,122 | 0 | 29,924 | 0 | 5,434 | 0 |
| Department of Energy | 3,459,934 | 230,690 | 248,594 | 645,370 | 558,061 | 1,542,255 | 53,857 | 146,580 | 10,598 | 23,929 |
| Dept of Health & Human Svcs, total | 10,075,950 | 2,244,942 | 514,284 | 122,008 | 5,599,759 | 22,731 | 1,389,881 | 18,005 | 126,679 | 37,661 |
| Administration on Aging | 3,000 | 171 | 0 | 0 | 1,500 | 0 | 1,160 | 0 | 169 | 0 |
| Admin for Children & Families | 11,200 | 224 | 0 | 0 | 9,856 | 0 | 1,075 | 0 | 45 | 0 |
| Agcy for Hlth Care Policy & Rsch | 124,000 | 15,290 | 30,204 | 0 | 50,138 | 0 | 27,539 | 0 | 0 | 829 |
| Centers for Disease Control & Prevention | 317,385 | 275,498 | 1,058 | 0 | 31,700 | 237 | 8,645 | 67 | 180 | 0 |
| Food & Drug Administration | 170,462 | 153,932 | 0 | 0 | 9,856 | 0 | 6,674 | 0 | 0 | 0 |
| Health Care Financing Admin | 74,537 | 64 | 27,270 | 0 | 5,838 | 0 | 19,199 | 0 | 21,876 | 290 |
| Health Resources & Services Admin | 12,211 | 2,482 | 0 | 0 | 7,229 | 0 | 2,500 | 0 | 0 | 0 |
| National Institutes of Health ⁹ | 9,333,602 | 1,782,920 | 452,625 | 122,008 | 5,480,904 | 22,494 | 1,318,880 | 17,938 | 99,291 | 36,542 |
| Office of the Secretary | 9,121 | 3,750 | 1,414 | 0 | 1,499 | 0 | 2,183 | 0 | 275 | 0 |
| Social Security Administration ¹⁰ | 20,432 | 10,611 | 1,713 | 0 | 1,239 | 0 | 2,026 | 0 | 4,843 | 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 1995

[Dollars in thousands]

| Agency and subdivision | Total | Intra-mural ¹ | Extramural | | | | | | | | Foreign |
|--|---------|--------------------------|-------------------------------|-----------------------------------|----------------------------|------------------------------------|-------------------------------|--|--------|-----------------------|---------|
| | | | United States and territories | | | | | | | State and local govts | |
| | | | 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 | | | |
| Dept of Housing & Urban Dvlpmt | 14,180 | 7,401 | 595 | 0 | 1,294 | 0 | 4,890 | 0 | 0 | 0 | 0 |
| Department of the Interior, total | 532,436 | 473,703 | 6,716 | 85 | 49,311 | 610 | 595 | 0 | 419 | 997 | 0 |
| Bureau of Reclamation | 5,997 | 5,082 | 0 | 0 | 570 | 0 | 345 | 0 | 0 | 0 | 0 |
| Geological Survey ¹¹ | 347,897 | 322,016 | 1,311 | 0 | 24,570 | 0 | 0 | 0 | 0 | 0 | 0 |
| Minerals Management Service | 20,010 | 5,943 | 3,712 | 85 | 8,324 | 530 | 0 | 0 | 419 | 997 | 0 |
| National Biological Service ^{12 11} | 138,810 | 131,551 | 53 | 0 | 7,001 | 0 | 205 | 0 | 0 | 0 | 0 |
| National Park Service ¹² | 19,722 | 9,111 | 1,640 | 0 | 8,846 | 80 | 45 | 0 | 0 | 0 | 0 |
| Department of Justice, total | 25,828 | 2,968 | 723 | 0 | 5,448 | 0 | 13,733 | 0 | 2,956 | 0 | 0 |
| Bureau of Prisons | 3,249 | 2,068 | 0 | 0 | 0 | 0 | 0 | 0 | 1,181 | 0 | 0 |
| Immigration & Naturalization Svc | 400 | 40 | 0 | 0 | 0 | 0 | 360 | 0 | 0 | 0 | 0 |
| Office of Justice Programs | 22,179 | 860 | 723 | 0 | 5,448 | 0 | 13,373 | 0 | 1,775 | 0 | 0 |
| Department of Labor, total | 28,248 | 8,991 | 7,136 | 0 | 9,965 | 0 | 1,761 | 0 | 395 | 0 | 0 |
| Bureau of Labor Statistics | 13,100 | 3,779 | 0 | 0 | 9,321 | 0 | 0 | 0 | 0 | 0 | 0 |
| Employment & Training Admin | 4,206 | 1,144 | 1,000 | 0 | 592 | 0 | 1,075 | 0 | 395 | 0 | 0 |
| Occupational Safety & Hlth Admin | 4,370 | 1,286 | 3,084 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Office of the Secretary | 2,872 | 1,942 | 892 | 0 | 12 | 0 | 26 | 0 | 0 | 0 | 0 |
| Pension Benefit Guaranty Corp | 102 | 52 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pension & Welfare Benefits Admin | 3,598 | 788 | 2,110 | 0 | 40 | 0 | 660 | 0 | 0 | 0 | 0 |
| Department of State | 5,010 | 402 | 101 | 0 | 0 | 23 | 4,484 | 0 | 0 | 0 | 0 |
| Department of Transportation, total | 370,746 | 133,864 | 95,712 | 400 | 30,536 | 19,064 | 33,196 | 967 | 56,819 | 188 | 0 |
| Coast Guard | 4,930 | 3,360 | 1,070 | 0 | 500 | 0 | 0 | 0 | 0 | 0 | 0 |
| Federal Aviation Administration | 83,291 | 42,444 | 30,435 | 0 | 6,180 | 3,115 | 0 | 967 | 0 | 150 | 0 |
| Federal Highway Administration | 203,148 | 50,745 | 44,701 | 400 | 13,303 | 15,949 | 22,479 | 0 | 55,571 | 0 | 0 |
| Federal Railroad Administration | 22,545 | 12,702 | 3,278 | 0 | 1,200 | 0 | 5,340 | 0 | 0 | 25 | 0 |
| Federal Transit Administration | 10,866 | 1,002 | 1,660 | 0 | 2,850 | 0 | 4,106 | 0 | 1,248 | 0 | 0 |
| Maritime Administration | 2,450 | 723 | 969 | 0 | 503 | 0 | 242 | 0 | 0 | 13 | 0 |
| National Highway Traffic Safety Administration | 39,707 | 20,865 | 11,813 | 0 | 6,000 | 0 | 1,029 | 0 | 0 | 0 | 0 |
| Office of the Secretary | 590 | 90 | 500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Research & Special Programs Admin .. | 3,219 | 1,933 | 1,286 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of the Treasury, total | 48,928 | 29,256 | 976 | 0 | 0 | 1,496 | 0 | 17,200 | 0 | 0 | 0 |
| Bureau of Engraving & Printing | 1,324 | 1,140 | 0 | 0 | 0 | 184 | 0 | 0 | 0 | 0 | 0 |
| Internal Revenue Service | 45,797 | 27,285 | 0 | 0 | 0 | 1,312 | 0 | 17,200 | 0 | 0 | 0 |
| Office of Thrift Supervision | 550 | 550 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| United States Customs Service | 710 | 40 | 670 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| United States Secret Service ¹³ | 547 | 241 | 306 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Veterans Affairs | 218,806 | 217,806 | 0 | 0 | 1,000 | 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 1995

[Dollars in thousands]

| Agency and subdivision | Total | Intra-mural ¹ | Extramural | | | | | | | |
|---|-----------|--------------------------|-------------------------------|----------------------------------|---------------------------|------------------------------------|------------------------------|--|-----------------------|---------|
| | | | United States and territories | | | | | | | Foreign |
| | | | Industrial firms | FFRDCs admin by industrial firms | Universities and colleges | FFRDCs admin by univs and colleges | Other nonprofit institutions | FFRDCs admin by nonprofit institutions | State and local govts | |
| Other agencies: | | | | | | | | | | |
| Advisory Commission on Intergovernmental Relations | 1,413 | 1,413 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Appalachian Regional Commission | 900 | 100 | 300 | 0 | 500 | 0 | 0 | 0 | 0 | 0 |
| Environmental Protection Agency | 401,627 | 163,586 | 109,300 | 0 | 91,552 | 0 | 30,000 | 0 | 4,643 | 2,546 |
| Federal Communications Commission | 2,268 | 2,268 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Federal Trade Commission | 564 | 564 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| International Development Cooperation Agency, total | 272,679 | 57,146 | 11,086 | 0 | 28,681 | 0 | 141,698 | 0 | 0 | 34,068 |
| Agency for Internat'l Dvlpmt | 272,679 | 57,146 | 11,086 | 0 | 28,681 | 0 | 141,698 | 0 | 0 | 34,068 |
| Library of Congress | 2,106 | 2,106 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Aeronautics & Space Admin | 4,046,089 | 1,011,522 | 1,885,761 | 0 | 587,589 | 421,913 | 120,543 | 1,851 | 1,907 | 15,003 |
| National Archives & Records Admin | 120 | 120 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Science Foundation | 2,149,277 | 17,343 | 108,611 | 10 | 1,733,512 | 140,883 | 138,209 | 583 | 4,818 | 5,308 |
| Nuclear Regulatory Commission | 88,212 | 15,463 | 4,096 | 30,916 | 6,090 | 16,098 | 1,150 | 9,086 | 0 | 5,313 |
| Smithsonian Institution | 124,000 | 124,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tennessee Valley Authority | 26,370 | 26,370 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| US Arms Control & Disarmament Agcy | 1,146 | 250 | 896 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| United States Information Agency | 289 | 289 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| US Internat'l Trade Commission | 12,152 | 12,152 | 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 Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 3 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.
- 4 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.
- 5 The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.
- 6 This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.
- 7 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.
- 8 Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
- 9 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.
- 10 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.
- 11 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.
- 12 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.
- 13 The United States Secret Service was formerly listed as the Office of Protective Research.

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: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-17. Preliminary Federal obligations for research, by agency and performer: fiscal year 1996

[Dollars in thousands]

| Agency and subdivision | Total | Intra- mural ¹ | Extramural | | | | | | | | Foreign |
|--|-------------------|------------------------------|-------------------------------|--|-----------------------------------|---|---|---|--------------------------------|----------------|---------|
| | | | United States and territories | | | | | | | | |
| | | | 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 | 28,577,767 | 7,404,277 | 4,672,802 | 877,683 | 10,919,863 | 2,085,714 | 2,100,973 | 183,682 | 198,898 | 133,875 | |
| Departments: | | | | | | | | | | | |
| Department of Agriculture, total | 1,272,091 | 822,054 | 10,445 | 0 | 419,407 | 0 | 14,277 | 0 | 2,314 | 3,594 | |
| Agricultural Marketing Service | 4,237 | 4,237 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Agricultural Research Service ² | 626,394 | 591,885 | 0 | 0 | 25,465 | 0 | 5,917 | 0 | 260 | 2,867 | |
| Cooperative State Research, Education, & Extension Service ³ | 406,163 | 18,824 | 10,266 | 0 | 368,650 | 0 | 6,961 | 0 | 1,462 | 0 | |
| Economic Research Service | 53,131 | 51,249 | 0 | 0 | 1,882 | 0 | 0 | 0 | 0 | 0 | |
| Foreign Agricultural Service ⁴ | 1,422 | 1,067 | 0 | 0 | 355 | 0 | 0 | 0 | 0 | 0 | |
| Forest Service | 172,660 | 146,828 | 179 | 0 | 22,965 | 0 | 1,369 | 0 | 592 | 727 | |
| Grain Inspection Packers & Stockyards Administration ⁵ | 2,797 | 2,797 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Nat'l Agricultural Statistics Svc | 3,887 | 3,767 | 0 | 0 | 90 | 0 | 30 | 0 | 0 | 0 | |
| Rural Business-Cooperative Svc ⁶ | 1,400 | 1,400 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Department of Commerce, total | 898,041 | 615,475 | 200,207 | 0 | 74,452 | 183 | 3,829 | 0 | 3,098 | 797 | |
| Bureau of the Census | 2,871 | 2,871 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Economic Development Admin | 500 | 10 | 200 | 0 | 0 | 0 | 290 | 0 | 0 | 0 | |
| National Inst of Standards & Tech | 409,012 | 196,755 | 198,435 | 0 | 10,797 | 133 | 2,122 | 0 | 0 | 770 | |
| Nat'l Oceanic & Atmospheric Admin | 481,151 | 411,359 | 1,572 | 0 | 63,655 | 50 | 1,417 | 0 | 3,098 | 0 | |
| National Telecommunications & Information Administration | 4,479 | 4,479 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Office of the Secretary | 28 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | |
| Department of Defense, total | 3,948,430 | 1,402,031 | 1,334,569 | 11,448 | 1,026,368 | 57,904 | 81,268 | 18,566 | 0 | 16,276 | |
| Department of the Army | 649,059 | 397,420 | 133,752 | 748 | 98,919 | 607 | 13,691 | 359 | 0 | 3,563 | |
| Department of the Navy | 941,521 | 402,195 | 264,534 | 0 | 236,921 | 2,821 | 27,188 | 1,913 | 0 | 5,949 | |
| Department of the Air Force | 881,924 | 426,664 | 272,183 | 777 | 157,739 | 4,360 | 13,291 | 5,205 | 0 | 1,705 | |
| Defense Agencies, total | 1,475,926 | 175,752 | 664,100 | 9,923 | 532,789 | 50,116 | 27,098 | 11,089 | 0 | 5,059 | |
| Ballistic Missile Defense Organization | 82,496 | 12,084 | 45,194 | 471 | 15,600 | 7,400 | 33 | 714 | 0 | 1,000 | |
| Defense Advanced Research Projects Agency ⁷ | 777,597 | 44,731 | 464,106 | 3,332 | 208,860 | 22,828 | 24,410 | 7,668 | 0 | 1,662 | |
| Defense Information Systems Agency | 1,455 | 1,455 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Defense Logistics Agency | 7,981 | 7,981 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Defense Nuclear Agency | 168,417 | 35,962 | 115,196 | 2,842 | 768 | 9,582 | 1,670 | 0 | 0 | 2,397 | |
| Special Operations Command | 21,787 | 12,491 | 9,296 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Washington Headquarters Svcs ⁸ | 416,193 | 61,048 | 30,308 | 3,278 | 307,561 | 10,306 | 985 | 2,707 | 0 | 0 | |
| Department of Education | 141,623 | 6,628 | 6,863 | 0 | 98,685 | 0 | 25,262 | 0 | 4,185 | 0 | |
| Department of Energy | 3,299,377 | 194,348 | 260,451 | 651,959 | 526,497 | 1,471,380 | 42,296 | 127,263 | 7,487 | 17,696 | |
| Dept of Health & Human Svcs, total | 10,524,585 | 1,999,385 | 456,272 | 189,333 | 6,248,275 | 17,207 | 1,440,310 | 19,268 | 116,507 | 38,028 | |
| Administration on Aging | 171 | 171 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Admin for Children & Families | 8,300 | 166 | 0 | 0 | 7,304 | 0 | 830 | 0 | 0 | 0 | |
| Agcy for Hlth Care Policy & Rsch | 59,000 | 10,923 | 13,462 | 0 | 22,115 | 0 | 12,500 | 0 | 0 | 0 | |
| Centers for Disease Control & Prevention | 323,181 | 281,294 | 1,058 | 0 | 31,700 | 237 | 8,645 | 67 | 180 | 0 | |
| Food & Drug Administration | 170,462 | 153,932 | 0 | 0 | 9,856 | 0 | 6,674 | 0 | 0 | 0 | |
| Health Care Financing Admin | 54,500 | 40 | 23,900 | 0 | 5,200 | 0 | 13,928 | 0 | 11,120 | 312 | |
| Health Resources & Services Admin | 11,763 | 2,077 | 0 | 0 | 7,197 | 0 | 2,489 | 0 | 0 | 0 | |
| National Institutes of Health ⁹ | 9,888,208 | 1,547,282 | 415,852 | 189,333 | 6,162,903 | 16,970 | 1,393,744 | 19,201 | 105,207 | 37,716 | |
| Office of the Secretary | 9,000 | 3,500 | 2,000 | 0 | 2,000 | 0 | 1,500 | 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 1996

[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 Housing & Urban Dvlpmt | 12,162 | 8,502 | 1,206 | 0 | 531 | 0 | 1,923 | 0 | 0 | 0 |
| Department of the Interior, total | 539,603 | 478,185 | 5,633 | 20 | 53,645 | 350 | 271 | 0 | 226 | 1,273 |
| Bureau of Reclamation | 4,523 | 4,058 | 0 | 0 | 300 | 0 | 165 | 0 | 0 | 0 |
| Geological Survey ¹⁰ | 494,529 | 457,277 | 1,312 | 0 | 35,940 | 0 | 0 | 0 | 0 | 0 |
| Minerals Management Service | 20,774 | 7,731 | 2,681 | 20 | 8,483 | 350 | 10 | 0 | 226 | 1,273 |
| National Park Service ¹¹ | 19,777 | 9,119 | 1,640 | 0 | 8,922 | 0 | 96 | 0 | 0 | 0 |
| Department of Justice, total | 27,219 | 3,326 | 540 | 0 | 5,575 | 0 | 16,445 | 0 | 1,333 | 0 |
| Bureau of Prisons | 1,900 | 1,900 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Drug Enforcement Administration | 45 | 45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Immigration & Naturalization Svc | 400 | 40 | 0 | 0 | 0 | 0 | 360 | 0 | 0 | 0 |
| Office of Justice Programs | 24,874 | 1,341 | 540 | 0 | 5,575 | 0 | 16,085 | 0 | 1,333 | 0 |
| Department of Labor, total | 24,687 | 12,744 | 5,618 | 0 | 5,350 | 0 | 975 | 0 | 0 | 0 |
| Bureau of Labor Statistics | 13,300 | 8,200 | 0 | 0 | 5,100 | 0 | 0 | 0 | 0 | 0 |
| Employment & Training Admin | 3,023 | 850 | 973 | 0 | 250 | 0 | 950 | 0 | 0 | 0 |
| Occupational Safety & Hlth Admin | 3,175 | 935 | 2,240 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Office of the Secretary | 2,871 | 1,918 | 928 | 0 | 0 | 0 | 25 | 0 | 0 | 0 |
| Pension Benefit Guaranty Corp | 53 | 53 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pension & Welfare Benefits Admin | 2,265 | 788 | 1,477 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of State | 4,250 | 405 | 101 | 0 | 23 | 41 | 3,680 | 0 | 0 | 0 |
| Department of Transportation, total | 333,972 | 113,608 | 87,863 | 1,644 | 44,590 | 1,811 | 32,596 | 603 | 51,172 | 85 |
| Coast Guard | 5,010 | 3,383 | 1,227 | 0 | 400 | 0 | 0 | 0 | 0 | 0 |
| Federal Aviation Administration | 60,373 | 31,819 | 21,734 | 120 | 4,226 | 1,811 | 0 | 603 | 0 | 60 |
| Federal Highway Administration | 198,126 | 46,414 | 44,526 | 1,524 | 29,894 | 0 | 24,596 | 0 | 51,172 | 0 |
| Federal Railroad Administration | 19,913 | 9,106 | 3,712 | 0 | 1,670 | 0 | 5,400 | 0 | 0 | 25 |
| Federal Transit Administration | 5,515 | 1,115 | 400 | 0 | 2,400 | 0 | 1,600 | 0 | 0 | 0 |
| National Highway Traffic Safety Administration | 38,185 | 19,209 | 11,976 | 0 | 6,000 | 0 | 1,000 | 0 | 0 | 0 |
| Research & Special Programs Admin .. | 6,850 | 2,562 | 4,288 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of the Treasury, total | 50,262 | 34,169 | 920 | 0 | 557 | 116 | 0 | 14,500 | 0 | 0 |
| Bureau of Engraving & Printing | 1,276 | 1,160 | 0 | 0 | 0 | 116 | 0 | 0 | 0 | 0 |
| Internal Revenue Service | 47,196 | 32,139 | 0 | 0 | 557 | 0 | 0 | 14,500 | 0 | 0 |
| Office of Thrift Supervision | 546 | 546 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| United States Customs Service | 660 | 60 | 600 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| United States Secret Service ¹² | 584 | 264 | 320 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Veterans Affairs | 253,813 | 252,963 | 0 | 0 | 850 | 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 1996

[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 nonprofit insti-tutions | FFRDCs admin by non-profit insti-tutions | State and local govts | |
| Other agencies: | | | | | | | | | | |
| Advisory Commission on Intergovernmental Relations | 1,402 | 1,402 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Appalachian Regional Commission | 900 | 100 | 100 | 0 | 700 | 0 | 0 | 0 | 0 | 0 |
| Environmental Protection Agency | 352,170 | 143,442 | 95,840 | 0 | 80,278 | 0 | 26,306 | 0 | 4,071 | 2,233 |
| Federal Communications Commission | 2,819 | 2,819 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Federal Trade Commission | 981 | 981 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| International Development Cooperation Agency, total | 226,749 | 34,315 | 9,421 | 0 | 18,025 | 0 | 135,155 | 0 | 0 | 29,833 |
| Agency for Internat'l Dvlpmt | 226,749 | 34,315 | 9,421 | 0 | 18,025 | 0 | 135,155 | 0 | 0 | 29,833 |
| Library of Congress | 1,827 | 1,827 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Aeronautics & Space Admin | 4,281,576 | 1,070,394 | 2,084,572 | 0 | 587,589 | 390,298 | 129,983 | 1,866 | 1,973 | 14,901 |
| National Archives & Records Admin | 120 | 120 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Science Foundation | 2,141,712 | 20,061 | 106,461 | 8 | 1,725,596 | 135,621 | 143,393 | 559 | 4,689 | 5,324 |
| Nuclear Regulatory Commission | 59,184 | 13,872 | 3,632 | 23,271 | 2,155 | 10,803 | 559 | 1,057 | 0 | 3,835 |
| Smithsonian Institution | 125,400 | 125,400 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Social Security Administration ¹³ | 8,292 | 1,656 | 1,633 | 0 | 715 | 0 | 2,445 | 0 | 1,843 | 0 |
| Tennessee Valley Authority | 31,130 | 31,130 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| US Arms Control & Disarmament Agcy ... | 545 | 90 | 455 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| United States Information Agency | 150 | 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| US Internat'l Trade Commission | 12,695 | 12,695 | 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 Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 3 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.
- 4 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.
- 5 The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.
- 6 This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.
- 7 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.
- 8 Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
- 9 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.
- 10 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.
- 11 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.
- 12 The United States Secret Service was formerly listed as the Office of Protective Research.
- 13 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.

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: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-18. Preliminary Federal obligations for research, by agency and performer: fiscal year 1997

[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 | 29,173,536 | 7,696,114 | 4,799,723 | 1,005,509 | 10,823,289 | 2,131,096 | 2,199,887 | 191,571 | 207,020 | 119,327 |
| Departments: | | | | | | | | | | |
| Department of Agriculture, total | 1,286,264 | 844,144 | 12,269 | 0 | 416,869 | 0 | 7,073 | 0 | 2,315 | 3,594 |
| Agricultural Marketing Service | 4,271 | 4,271 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Agricultural Research Service ² | 640,888 | 609,793 | 0 | 0 | 25,465 | 0 | 2,503 | 0 | 260 | 2,867 |
| Cooperative State Research, Education, & Extension Service ³ | 402,172 | 19,336 | 12,090 | 0 | 366,112 | 0 | 3,171 | 0 | 1,463 | 0 |
| Economic Research Service | 54,947 | 53,065 | 0 | 0 | 1,882 | 0 | 0 | 0 | 0 | 0 |
| Foreign Agricultural Service ⁴ | 1,422 | 1,067 | 0 | 0 | 355 | 0 | 0 | 0 | 0 | 0 |
| Forest Service | 174,393 | 148,561 | 179 | 0 | 22,965 | 0 | 1,369 | 0 | 592 | 727 |
| Grain Inspection Packers & Stockyards Administration ⁵ | 2,830 | 2,830 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nat'l Agricultural Statistics Svc | 3,941 | 3,821 | 0 | 0 | 90 | 0 | 30 | 0 | 0 | 0 |
| Rural Business-Cooperative Svc ⁶ | 1,400 | 1,400 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Commerce, total | 868,560 | 639,000 | 153,067 | 0 | 68,153 | 188 | 4,444 | 0 | 3,092 | 616 |
| Bureau of the Census | 2,871 | 2,871 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Economic Development Admin | 1,500 | 30 | 600 | 0 | 0 | 0 | 870 | 0 | 0 | 0 |
| National Inst of Standards & Tech | 366,301 | 201,499 | 150,790 | 0 | 11,421 | 138 | 1,837 | 0 | 0 | 616 |
| Nat'l Oceanic & Atmospheric Admin | 493,143 | 429,855 | 1,677 | 0 | 56,732 | 50 | 1,737 | 0 | 3,092 | 0 |
| National Telecommunications & Information Administration | 4,745 | 4,745 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Defense, total | 3,861,536 | 1,365,977 | 1,344,594 | 9,050 | 968,057 | 68,771 | 77,689 | 14,032 | 0 | 13,366 |
| Department of the Army | 672,084 | 413,975 | 147,841 | 763 | 93,352 | 1,337 | 11,452 | 688 | 0 | 2,676 |
| Department of the Navy | 853,725 | 356,785 | 223,767 | 0 | 236,170 | 2,561 | 27,789 | 467 | 0 | 6,186 |
| Department of the Air Force | 872,575 | 425,636 | 263,545 | 747 | 158,506 | 4,610 | 12,503 | 5,360 | 0 | 1,668 |
| Defense Agencies, total | 1,463,152 | 169,581 | 709,441 | 7,540 | 480,029 | 60,263 | 25,945 | 7,517 | 0 | 2,836 |
| Ballistic Missile Defense Organization | 95,693 | 16,226 | 54,578 | 471 | 16,977 | 5,963 | 0 | 478 | 0 | 1,000 |
| Defense Advanced Research Projects Agency ⁷ | 796,699 | 48,952 | 488,043 | 2,294 | 203,250 | 25,912 | 23,877 | 3,702 | 0 | 669 |
| Defense Information Systems Agency | 1,849 | 1,849 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Defense Logistics Agency | 7,785 | 7,785 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Defense Nuclear Agency | 196,954 | 41,405 | 141,511 | 1,498 | 682 | 9,482 | 1,049 | 160 | 0 | 1,167 |
| Special Operations Command | 15,048 | 8,627 | 6,421 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Washington Headquarters Svcs ⁸ | 349,124 | 44,737 | 18,888 | 3,277 | 259,120 | 18,906 | 1,019 | 3,177 | 0 | 0 |
| Department of Education | 142,710 | 6,963 | 5,448 | 0 | 98,481 | 0 | 26,701 | 0 | 5,117 | 0 |
| Department of Energy | 3,575,140 | 251,942 | 276,079 | 770,198 | 533,090 | 1,534,190 | 49,561 | 138,590 | 7,426 | 14,064 |
| Dept of Health & Human Svcs, total | 10,768,129 | 2,188,721 | 492,058 | 202,290 | 6,132,461 | 20,415 | 1,551,779 | 19,972 | 119,160 | 41,273 |
| Admin for Children & Families | 17,522 | 351 | 0 | 0 | 15,419 | 0 | 1,752 | 0 | 0 | 0 |
| Agcy for Hlth Care Policy & Rsch | 77,000 | 18,715 | 16,320 | 0 | 26,811 | 0 | 15,154 | 0 | 0 | 0 |
| Centers for Disease Control & Prevention | 361,181 | 319,294 | 1,058 | 0 | 31,700 | 237 | 8,645 | 67 | 180 | 0 |
| Food & Drug Administration | 170,462 | 153,932 | 0 | 0 | 9,856 | 0 | 6,674 | 0 | 0 | 0 |
| Health Care Financing Admin | 55,310 | 51 | 29,724 | 0 | 6,605 | 0 | 10,173 | 0 | 8,463 | 294 |
| Health Resources & Services Admin | 11,668 | 2,091 | 0 | 0 | 7,116 | 0 | 2,461 | 0 | 0 | 0 |
| National Institutes of Health ⁹ | 10,065,986 | 1,690,787 | 442,956 | 202,290 | 6,032,954 | 20,178 | 1,505,420 | 19,905 | 110,517 | 40,979 |
| Office of the Secretary | 9,000 | 3,500 | 2,000 | 0 | 2,000 | 0 | 1,500 | 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 1997

[Dollars in thousands]

| Agency and subdivision | Total | Intra-mural ¹ | Extramural | | | | | | | | Foreign |
|--|---------|--------------------------|-------------------------------|-----------------------------------|----------------------------|------------------------------------|-------------------------------|--|-----------------------|-------|---------|
| | | | United States and territories | | | | | | | | |
| | | | 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 Housing & Urban Dvlpmt | 16,690 | 11,612 | 1,100 | 0 | 370 | 0 | 3,608 | 0 | 0 | 0 | 0 |
| Department of the Interior, total | 546,105 | 492,309 | 5,740 | 20 | 46,304 | 350 | 155 | 0 | 226 | 1,001 | 0 |
| Bureau of Reclamation | 5,730 | 5,655 | 0 | 0 | 75 | 0 | 0 | 0 | 0 | 0 | 0 |
| Geological Survey ¹⁰ | 498,959 | 469,259 | 1,420 | 0 | 28,280 | 0 | 0 | 0 | 0 | 0 | 0 |
| Minerals Management Service | 20,579 | 7,809 | 2,680 | 20 | 8,483 | 350 | 10 | 0 | 226 | 1,001 | 0 |
| National Park Service ¹¹ | 20,837 | 9,586 | 1,640 | 0 | 9,466 | 0 | 145 | 0 | 0 | 0 | 0 |
| Department of Justice, total | 35,211 | 5,876 | 500 | 0 | 5,375 | 0 | 22,160 | 0 | 1,300 | 0 | 0 |
| Bureau of Prisons | 1,900 | 1,900 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Drug Enforcement Administration | 50 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Immigration & Naturalization Svc | 400 | 40 | 0 | 0 | 0 | 0 | 360 | 0 | 0 | 0 | 0 |
| Office of Justice Programs | 32,861 | 3,886 | 500 | 0 | 5,375 | 0 | 21,800 | 0 | 1,300 | 0 | 0 |
| Department of Labor, total | 23,770 | 17,070 | 5,566 | 0 | 150 | 0 | 984 | 0 | 0 | 0 | 0 |
| Bureau of Labor Statistics | 12,600 | 12,600 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Employment & Training Admin | 2,375 | 681 | 810 | 0 | 150 | 0 | 734 | 0 | 0 | 0 | 0 |
| Occupational Safety & Hlth Admin | 3,495 | 1,029 | 2,466 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Office of the Secretary | 2,918 | 1,918 | 750 | 0 | 0 | 0 | 250 | 0 | 0 | 0 | 0 |
| Pension Benefit Guaranty Corp | 54 | 54 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pension & Welfare Benefits Admin | 2,328 | 788 | 1,540 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of State | 4,250 | 405 | 101 | 0 | 23 | 41 | 3,680 | 0 | 0 | 0 | 0 |
| Department of Transportation, total | 394,311 | 147,977 | 130,322 | 691 | 29,898 | 2,177 | 26,011 | 675 | 56,490 | 70 | 0 |
| Coast Guard | 4,944 | 3,370 | 1,274 | 0 | 300 | 0 | 0 | 0 | 0 | 0 | 0 |
| Federal Aviation Administration | 67,570 | 35,608 | 24,325 | 135 | 4,730 | 2,027 | 0 | 675 | 0 | 70 | 0 |
| Federal Highway Administration | 235,356 | 65,675 | 79,725 | 556 | 14,808 | 150 | 18,452 | 0 | 55,990 | 0 | 0 |
| Federal Railroad Administration | 23,495 | 14,451 | 2,450 | 0 | 1,510 | 0 | 5,084 | 0 | 0 | 0 | 0 |
| Federal Transit Administration | 5,802 | 1,102 | 500 | 0 | 2,400 | 0 | 1,300 | 0 | 500 | 0 | 0 |
| Maritime Administration | 2,006 | 454 | 1,227 | 0 | 150 | 0 | 175 | 0 | 0 | 0 | 0 |
| National Highway Traffic Safety Administration | 45,663 | 23,681 | 14,982 | 0 | 6,000 | 0 | 1,000 | 0 | 0 | 0 | 0 |
| Research & Special Programs Admin .. | 9,475 | 3,636 | 5,839 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of the Treasury, total | 53,901 | 38,370 | 950 | 0 | 32 | 49 | 0 | 14,500 | 0 | 0 | 0 |
| Bureau of Engraving & Printing | 1,173 | 1,124 | 0 | 0 | 0 | 49 | 0 | 0 | 0 | 0 | 0 |
| Internal Revenue Service | 50,830 | 36,298 | 0 | 0 | 32 | 0 | 0 | 14,500 | 0 | 0 | 0 |
| Office of Thrift Supervision | 583 | 583 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| United States Customs Service | 700 | 70 | 630 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| United States Secret Service ¹² | 615 | 295 | 320 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Veterans Affairs | 236,174 | 235,324 | 0 | 0 | 850 | 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 1997

[Dollars in thousands]

| Agency and subdivision | Total | Intra-mural ¹ | Extramural | | | | | | | Foreign |
|---|-----------|--------------------------|-------------------------------|-----------------------------------|----------------------------|------------------------------------|--------------------------------|--|-----------------------|---------|
| | | | United States and territories | | | | | | | |
| | | | 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 non-profit insti-tutions | State and local govts | |
| Other agencies: | | | | | | | | | | |
| Appalachian Regional Commission | 900 | 100 | 100 | 0 | 700 | 0 | 0 | 0 | 0 | 0 |
| Environmental Protection Agency | 410,553 | 167,221 | 111,729 | 0 | 93,586 | 0 | 30,667 | 0 | 4,746 | 2,604 |
| Federal Communications Commission | 2,749 | 2,749 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Federal Trade Commission | 1,034 | 1,034 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| International Development Cooperation Agency, total | 172,740 | 19,573 | 9,569 | 0 | 12,446 | 0 | 111,202 | 0 | 0 | 19,950 |
| Agency for Internat'l Dvlpmt | 172,740 | 19,573 | 9,569 | 0 | 12,446 | 0 | 111,202 | 0 | 0 | 19,950 |
| Library of Congress | 1,886 | 1,886 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Aeronautics & Space Admin | 4,240,540 | 1,060,135 | 2,099,209 | 0 | 587,589 | 346,847 | 127,469 | 1,896 | 2,267 | 15,128 |
| National Archives & Records Admin | 120 | 120 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Science Foundation | 2,278,922 | 18,942 | 124,621 | 10 | 1,823,586 | 145,402 | 155,624 | 497 | 4,859 | 5,381 |
| Nuclear Regulatory Commission | 59,014 | 13,760 | 2,035 | 23,250 | 3,224 | 12,666 | 390 | 1,409 | 0 | 2,280 |
| Smithsonian Institution | 136,800 | 136,800 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Social Security Administration ¹³ | 27,698 | 1,075 | 23,866 | 0 | 2,045 | 0 | 690 | 0 | 22 | 0 |
| Tennessee Valley Authority | 14,182 | 14,182 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| US Arms Control & Disarmament Agcy ... | 1,000 | 200 | 800 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| United States Information Agency | 136 | 136 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| US Internat'l Trade Commission | 12,511 | 12,511 | 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 Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- ³ 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.
- ⁴ 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.
- ⁵ The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.
- ⁶ This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.
- ⁷ 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.
- ⁸ Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
- ⁹ 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.
- ¹⁰ 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.
- ¹¹ 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.
- ¹² The United States Secret Service was formerly listed as the Office of Protective Research.
- ¹³ 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.

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: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-19. Federal obligations for research, by detailed field of science and engineering: fiscal years 1995, 1996, and 1997

[Dollars in thousands]

Page 1 of 1

| Field of science and engineering | 1995 | Preliminary | |
|--|------------|-------------|------------|
| | | 1996 | 1997 |
| Total, all fields | 28,573,434 | 28,577,767 | 29,173,536 |
| Life sciences, total | 11,869,420 | 12,150,125 | 12,299,589 |
| Biological (excluding environmental) | 4,803,882 | NA | NA |
| Environmental biology | 891,524 | NA | NA |
| Agricultural | 733,152 | NA | NA |
| Medical | 5,004,566 | NA | NA |
| Life sciences, n.e.c. | 436,296 | NA | NA |
| Psychology, total | 620,786 | 641,334 | 650,244 |
| Biological aspects | 57,006 | NA | NA |
| Social aspects | 156,303 | NA | NA |
| Psychological sciences, n.e.c. | 407,477 | NA | NA |
| Physical sciences, total | 4,281,568 | 4,322,403 | 4,398,227 |
| Astronomy | 764,911 | NA | NA |
| Chemistry | 866,213 | NA | NA |
| Physics | 2,451,288 | NA | NA |
| Physical sciences, n.e.c. | 199,156 | NA | NA |
| Environmental sciences, total | 2,947,385 | 2,924,144 | 2,955,071 |
| Atmospheric | 1,176,125 | NA | NA |
| Geological | 864,200 | NA | NA |
| Oceanography | 424,026 | NA | NA |
| Environmental sciences, n.e.c. | 483,034 | NA | NA |
| Mathematics & computer sciences, total | 1,530,877 | 1,508,327 | 1,545,836 |
| Mathematics | 359,221 | NA | NA |
| Computer sciences | 961,877 | NA | NA |
| Mathematics & computer sciences, n.e.c. | 209,779 | NA | NA |
| Engineering, total | 5,740,088 | 5,508,544 | 5,707,682 |
| Aeronautical | 1,248,561 | NA | NA |
| Astronautical | 545,098 | NA | NA |
| Chemical | 250,407 | NA | NA |
| Civil | 340,442 | NA | NA |
| Electrical | 765,854 | NA | NA |
| Mechanical | 418,064 | NA | NA |
| Metallurgy & materials | 793,349 | NA | NA |
| Engineering, n.e.c. | 1,378,313 | NA | NA |
| Social sciences, total | 681,518 | 669,373 | 727,632 |
| Anthropology | 22,079 | NA | NA |
| Economics | 205,940 | NA | NA |
| Political science | 24,136 | NA | NA |
| Sociology | 48,509 | NA | NA |
| Social sciences, n.e.c. | 380,854 | NA | NA |
| Other sciences, n.e.c. | 901,792 | 853,517 | 889,255 |

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 National Aeronautics and Space Administration has made a statistical adjustment to the 1994, 1995, 1996, and 1997 field of science and engineering values to diminish a computational error introduced by its software.

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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

**Table C-20. Federal obligations for research, by agency and field of science and engineering:
fiscal year 1995**

[Dollars in thousands]

Page 1 of 3

| Agency and subdivision | Total | Life sciences | Psychology | Physical sciences | Environmental sciences | Mathematics and computer sciences | Engineering | Social sciences | Other sciences, n.e.c. |
|---|------------|---------------|------------|-------------------|------------------------|-----------------------------------|-------------|-----------------|------------------------|
| Total, all agencies | 28,573,434 | 11,869,420 | 620,786 | 4,281,568 | 2,947,385 | 1,530,877 | 5,740,088 | 681,518 | 901,792 |
| Departments: | | | | | | | | | |
| Department of Agriculture, total | 1,299,552 | 987,939 | 448 | 88,918 | 13,421 | 17,880 | 69,431 | 117,789 | 3,726 |
| Agricultural Marketing Service | 4,180 | 4,180 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Agricultural Research Service ¹ | 628,608 | 556,750 | 0 | 55,242 | 4,302 | 2,685 | 9,629 | 0 | 0 |
| Cooperative State Research, Education, & Extension Service ² | 417,712 | 312,446 | 0 | 25,875 | 3,113 | 0 | 27,274 | 49,004 | 0 |
| Economic Research Service | 53,827 | 0 | 0 | 0 | 0 | 0 | 0 | 53,827 | 0 |
| Foreign Agricultural Service ³ | 457 | 457 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Forest Service | 187,704 | 112,622 | 448 | 7,801 | 6,006 | 11,176 | 32,528 | 13,397 | 3,726 |
| Grain Inspection Packers & Stockyards Administration ⁴ | 1,484 | 1,484 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nat'l Agricultural Statistics Svc | 4,019 | 0 | 0 | 0 | 0 | 4,019 | 0 | 0 | 0 |
| Rural Business-Cooperative Svc ⁵ | 1,561 | 0 | 0 | 0 | 0 | 0 | 0 | 1,561 | 0 |
| Department of Commerce, total | 892,318 | 150,587 | 287 | 102,683 | 290,811 | 102,369 | 189,311 | 18,827 | 37,443 |
| Bureau of the Census | 2,930 | 0 | 287 | 0 | 0 | 1,902 | 0 | 678 | 63 |
| Economic Development Admin | 521 | 0 | 0 | 0 | 0 | 0 | 0 | 521 | 0 |
| National Inst of Standards & Tech | 372,091 | 33,546 | 0 | 81,242 | 440 | 83,165 | 173,515 | 183 | 0 |
| Nat'l Oceanic & Atmospheric Admin | 510,362 | 117,041 | 0 | 21,441 | 290,371 | 17,302 | 9,413 | 17,445 | 37,349 |
| National Telecommunications & Information Administration | 6,383 | 0 | 0 | 0 | 0 | 0 | 6,383 | 0 | 0 |
| Office of the Secretary | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 31 |
| Department of Defense, total | 4,333,934 | 421,754 | 117,477 | 561,036 | 347,907 | 695,377 | 2,057,848 | 488 | 132,047 |
| Department of the Army | 852,063 | 184,217 | 15,163 | 97,521 | 51,000 | 100,247 | 395,506 | 488 | 7,921 |
| Department of the Navy | 879,952 | 52,425 | 31,909 | 202,154 | 116,437 | 60,472 | 402,327 | 0 | 14,228 |
| Department of the Air Force | 834,459 | 72,726 | 58,983 | 149,741 | 30,706 | 109,006 | 404,965 | 0 | 8,332 |
| Defense Agencies, total | 1,767,460 | 112,386 | 11,422 | 111,620 | 149,764 | 425,652 | 855,050 | 0 | 101,566 |
| Ballistic Missile Defense Organization | 104,553 | 0 | 0 | 18,450 | 4,553 | 23,501 | 54,749 | 0 | 3,300 |
| Defense Advanced Research Projects Agency ⁶ | 921,404 | 0 | 0 | 10,168 | 23,844 | 354,899 | 522,571 | 0 | 9,922 |
| Defense Information Systems Agency | 1,717 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,717 |
| Defense Logistics Agency | 7,062 | 0 | 7,062 | 0 | 0 | 0 | 0 | 0 | 0 |
| Defense Nuclear Agency | 209,033 | 4,411 | 0 | 46,189 | 12,490 | 2,838 | 57,480 | 0 | 85,625 |
| Special Operations Command | 39,913 | 1,218 | 0 | 0 | 0 | 0 | 37,693 | 0 | 1,002 |
| Washington Headquarters Svcs ⁷ | 483,778 | 106,757 | 4,360 | 36,813 | 108,877 | 44,414 | 182,557 | 0 | 0 |
| Department of Education | 138,352 | 13,412 | 3,688 | 0 | 0 | 1,229 | 5,737 | 114,286 | 0 |
| Department of Energy | 3,459,934 | 256,121 | 0 | 1,799,182 | 382,213 | 223,195 | 735,085 | 500 | 63,638 |
| Dept of Health & Human Svcs, total | 10,075,950 | 8,651,148 | 410,659 | 155,685 | 23,853 | 68,945 | 135,683 | 171,728 | 458,249 |
| Administration on Aging | 3,000 | 0 | 0 | 0 | 0 | 0 | 0 | 3,000 | 0 |
| Admin for Children & Families | 11,200 | 0 | 0 | 0 | 0 | 0 | 0 | 11,200 | 0 |
| Agcy for Hlth Care Policy & Rsch | 124,000 | 57,864 | 1,116 | 0 | 0 | 10,764 | 0 | 22,245 | 32,011 |
| Centers for Disease Control & Prevention | 317,385 | 317,385 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Food & Drug Administration | 170,462 | 170,462 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Health Care Financing Admin | 74,537 | 74,537 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Health Resources & Services Admin | 12,211 | 12,211 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Institutes of Health ⁸ | 9,333,602 | 8,018,689 | 409,543 | 155,685 | 23,853 | 58,181 | 135,683 | 105,730 | 426,238 |
| Office of the Secretary | 9,121 | 0 | 0 | 0 | 0 | 0 | 0 | 9,121 | 0 |
| Social Security Administration ⁹ | 20,432 | 0 | 0 | 0 | 0 | 0 | 0 | 20,432 | 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 1995

[Dollars in thousands]

Page 2 of 3

| Agency and subdivision | Total | Life sciences | Psychology | Physical sciences | Environmental sciences | Mathematics and computer sciences | Engineering | Social sciences | Other sciences, n.e.c. |
|--|---------|---------------|------------|-------------------|------------------------|-----------------------------------|-------------|-----------------|------------------------|
| Dept of Housing & Urban Dvlpmt | 14,180 | 0 | 0 | 0 | 156 | 31 | 750 | 10,619 | 2,624 |
| Department of the Interior, total | 532,436 | 145,340 | 0 | 38,643 | 293,845 | 18,139 | 21,475 | 14,327 | 667 |
| Bureau of Reclamation | 5,997 | 0 | 0 | 0 | 0 | 0 | 5,997 | 0 | 0 |
| Geological Survey ¹⁰ | 347,897 | 2,826 | 0 | 38,113 | 278,827 | 16,609 | 11,198 | 324 | 0 |
| Minerals Management Service | 20,010 | 4 | 0 | 0 | 12,971 | 1,319 | 3,817 | 1,899 | 0 |
| National Biological Service ^{11 10} | 138,810 | 138,810 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Park Service ¹¹ | 19,722 | 3,700 | 0 | 530 | 2,047 | 211 | 463 | 12,104 | 667 |
| Department of Justice, total | 25,828 | 750 | 2,059 | 900 | 0 | 0 | 400 | 18,874 | 2,845 |
| Bureau of Prisons | 3,249 | 0 | 532 | 0 | 0 | 0 | 0 | 2,717 | 0 |
| Immigration & Naturalization Svc | 400 | 0 | 0 | 0 | 0 | 0 | 400 | 0 | 0 |
| Office of Justice Programs | 22,179 | 750 | 1,527 | 900 | 0 | 0 | 0 | 16,157 | 2,845 |
| Department of Labor, total | 28,248 | 0 | 0 | 0 | 0 | 0 | 0 | 28,248 | 0 |
| Bureau of Labor Statistics | 13,100 | 0 | 0 | 0 | 0 | 0 | 0 | 13,100 | 0 |
| Employment & Training Admin | 4,206 | 0 | 0 | 0 | 0 | 0 | 0 | 4,206 | 0 |
| Occupational Safety & Hlth Admin | 4,370 | 0 | 0 | 0 | 0 | 0 | 0 | 4,370 | 0 |
| Office of the Secretary | 2,872 | 0 | 0 | 0 | 0 | 0 | 0 | 2,872 | 0 |
| Pension Benefit Guaranty Corp | 102 | 0 | 0 | 0 | 0 | 0 | 0 | 102 | 0 |
| Pension & Welfare Benefits Admin | 3,598 | 0 | 0 | 0 | 0 | 0 | 0 | 3,598 | 0 |
| Department of State | 5,010 | 0 | 0 | 0 | 0 | 0 | 0 | 5,010 | 0 |
| Department of Transportation, total | 370,746 | 5,773 | 34,927 | 1,389 | 6,717 | 90,247 | 196,746 | 15,784 | 19,163 |
| Coast Guard | 4,930 | 0 | 590 | 0 | 581 | 1,315 | 2,444 | 0 | 0 |
| Federal Aviation Administration | 83,291 | 0 | 30,680 | 1,189 | 1,524 | 0 | 48,539 | 0 | 1,359 |
| Federal Highway Administration | 203,148 | 233 | 3,657 | 0 | 4,412 | 77,336 | 93,511 | 6,195 | 17,804 |
| Federal Railroad Administration | 22,545 | 0 | 0 | 0 | 0 | 504 | 22,041 | 0 | 0 |
| Federal Transit Administration | 10,866 | 0 | 0 | 0 | 25 | 684 | 4,678 | 5,479 | 0 |
| Maritime Administration | 2,450 | 0 | 0 | 0 | 125 | 0 | 2,163 | 162 | 0 |
| National Highway Traffic Safety Administration | 39,707 | 5,540 | 0 | 0 | 0 | 9,128 | 21,306 | 3,733 | 0 |
| Office of the Secretary | 590 | 0 | 0 | 0 | 50 | 0 | 525 | 15 | 0 |
| Research & Special Programs Admin .. | 3,219 | 0 | 0 | 200 | 0 | 1,280 | 1,539 | 200 | 0 |
| Department of the Treasury, total | 48,928 | 633 | 394 | 1,226 | 0 | 17,430 | 98 | 29,147 | 0 |
| Bureau of Engraving & Printing | 1,324 | 0 | 0 | 1,226 | 0 | 0 | 98 | 0 | 0 |
| Internal Revenue Service | 45,797 | 0 | 0 | 0 | 0 | 17,200 | 0 | 28,597 | 0 |
| Office of Thrift Supervision | 550 | 0 | 0 | 0 | 0 | 0 | 0 | 550 | 0 |
| United States Customs Service | 710 | 480 | 0 | 0 | 0 | 230 | 0 | 0 | 0 |
| United States Secret Service ¹² | 547 | 153 | 394 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Veterans Affairs | 218,806 | 202,124 | 16,491 | 0 | 0 | 0 | 191 | 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 1995

[Dollars in thousands]

| Agency and subdivision | Total | Life sciences | Psychology | Physical sciences | Environmental sciences | Mathematics and computer sciences | Engineering | Social sciences | Other sciences, n.e.c. |
|---|-----------|---------------|------------|-------------------|------------------------|-----------------------------------|-------------|-----------------|------------------------|
| Other agencies: | | | | | | | | | |
| Advisory Commission on Intergovernmental Relations | 1,413 | 0 | 0 | 0 | 0 | 0 | 0 | 1,413 | 0 |
| Appalachian Regional Commission | 900 | 0 | 0 | 0 | 0 | 0 | 0 | 900 | 0 |
| Environmental Protection Agency | 401,627 | 111,029 | 0 | 0 | 171,874 | 0 | 118,724 | 0 | 0 |
| Federal Communications Commission | 2,268 | 0 | 0 | 80 | 0 | 128 | 1,531 | 529 | 0 |
| Federal Trade Commission | 564 | 0 | 0 | 0 | 0 | 0 | 0 | 564 | 0 |
| International Development Cooperation Agency, total | 272,679 | 262,288 | 0 | 0 | 0 | 0 | 0 | 7,844 | 2,547 |
| Agency for Internat'l Dvlpmnt | 272,679 | 262,288 | 0 | 0 | 0 | 0 | 0 | 7,844 | 2,547 |
| Library of Congress | 2,106 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,106 |
| Nat'l Aeronautics & Space Admin ¹³ | 4,046,089 | 262,196 | 19,041 | 1,001,190 | 972,418 | 78,916 | 1,683,770 | 364 | 28,194 |
| National Archives & Records Admin | 120 | 0 | 0 | 120 | 0 | 0 | 0 | 0 | 0 |
| National Science Foundation | 2,149,277 | 341,040 | 15,315 | 485,798 | 437,742 | 216,856 | 432,432 | 79,478 | 140,616 |
| Nuclear Regulatory Commission | 88,212 | 0 | 0 | 0 | 0 | 0 | 88,212 | 0 | 0 |
| Smithsonian Institution | 124,000 | 46,637 | 0 | 38,417 | 5,486 | 0 | 0 | 31,977 | 1,483 |
| Tennessee Valley Authority | 26,370 | 10,599 | 0 | 5,785 | 942 | 0 | 2,325 | 475 | 6,244 |
| US Arms Control & Disarmament Agcy ... | 1,146 | 50 | 0 | 516 | 0 | 135 | 50 | 195 | 200 |
| United States Information Agency | 289 | 0 | 0 | 0 | 0 | 0 | 289 | 0 | 0 |
| US Internat'l Trade Commission | 12,152 | 0 | 0 | 0 | 0 | 0 | 0 | 12,152 | 0 |

- 1 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 2 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.
- 3 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.
- 4 The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.
- 5 This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.
- 6 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.
- 7 Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
- 8 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.
- 9 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.
- 10 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.
- 11 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.
- 12 The United States Secret Service was formerly listed as the Office of Protective Research.
- 13 The National Aeronautics and Space Administration has made a statistical adjustment to the 1994, 1995, 1996, and 1997 field of science and engineering values to diminish a computational error introduced by its software.

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: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

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Table C-21. Preliminary Federal obligations for research, by agency and field of science and engineering: fiscal year 1996

[Dollars in thousands]

| Agency and subdivision | Total | Life sciences | Psychology | Physical sciences | Environmental sciences | Mathematics and computer sciences | Engineering | Social sciences | Other sciences, n.e.c. |
|---|-------------------|-------------------|----------------|-------------------|------------------------|-----------------------------------|------------------|-----------------|------------------------|
| Total, all agencies | 28,577,767 | 12,150,125 | 641,334 | 4,322,403 | 2,924,144 | 1,508,327 | 5,508,544 | 669,373 | 853,517 |
| Departments: | | | | | | | | | |
| Department of Agriculture, total | 1,272,091 | 962,375 | 412 | 94,283 | 13,216 | 16,850 | 67,069 | 114,460 | 3,426 |
| Agricultural Marketing Service | 4,237 | 4,237 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Agricultural Research Service ¹ | 626,394 | 546,521 | 0 | 62,037 | 4,695 | 2,682 | 10,459 | 0 | 0 |
| Cooperative State Research, Education, & Extension Service ² | 406,163 | 303,803 | 0 | 25,069 | 2,997 | 0 | 26,689 | 47,605 | 0 |
| Economic Research Service | 53,131 | 0 | 0 | 0 | 0 | 0 | 0 | 53,131 | 0 |
| Foreign Agricultural Service ³ | 1,422 | 1,422 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Forest Service | 172,660 | 103,595 | 412 | 7,177 | 5,524 | 10,281 | 29,921 | 12,324 | 3,426 |
| Grain Inspection Packers & Stockyards Administration ⁴ | 2,797 | 2,797 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nat'l Agricultural Statistics Svc | 3,887 | 0 | 0 | 0 | 0 | 3,887 | 0 | 0 | 0 |
| Rural Business-Cooperative Svc ⁵ | 1,400 | 0 | 0 | 0 | 0 | 0 | 0 | 1,400 | 0 |
| Department of Commerce, total | 898,041 | 156,062 | 281 | 106,584 | 260,355 | 112,120 | 204,367 | 19,285 | 38,987 |
| Bureau of the Census | 2,871 | 0 | 281 | 0 | 0 | 1,864 | 0 | 664 | 62 |
| Economic Development Admin | 500 | 0 | 0 | 0 | 0 | 0 | 0 | 500 | 0 |
| National Inst of Standards & Tech | 409,012 | 39,346 | 0 | 86,123 | 482 | 92,267 | 190,585 | 209 | 0 |
| Nat'l Oceanic & Atmospheric Admin | 481,151 | 116,716 | 0 | 20,461 | 259,873 | 17,989 | 9,303 | 17,912 | 38,897 |
| National Telecommunications & Information Administration | 4,479 | 0 | 0 | 0 | 0 | 0 | 4,479 | 0 | 0 |
| Office of the Secretary | 28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 28 |
| Department of Defense, total | 3,948,430 | 324,112 | 124,454 | 563,050 | 262,676 | 674,007 | 1,884,434 | 1,786 | 113,911 |
| Department of the Army | 649,059 | 100,196 | 12,551 | 68,810 | 34,819 | 84,023 | 346,366 | 368 | 1,926 |
| Department of the Navy | 941,521 | 47,377 | 32,438 | 223,463 | 110,994 | 60,049 | 450,190 | 0 | 17,010 |
| Department of the Air Force | 881,924 | 79,911 | 63,566 | 150,264 | 33,360 | 98,495 | 455,237 | 0 | 1,091 |
| Defense Agencies, total | 1,475,926 | 96,628 | 15,899 | 120,513 | 83,503 | 431,440 | 632,641 | 1,418 | 93,884 |
| Ballistic Missile Defense Organization | 82,496 | 0 | 0 | 26,787 | 0 | 21,536 | 34,173 | 0 | 0 |
| Defense Advanced Research Projects Agency ⁶ | 777,597 | 0 | 0 | 4,901 | 18,880 | 299,744 | 436,728 | 0 | 17,344 |
| Defense Information Systems Agency | 1,455 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,455 |
| Defense Logistics Agency | 7,981 | 0 | 7,981 | 0 | 0 | 0 | 0 | 0 | 0 |
| Defense Nuclear Agency | 168,417 | 2,688 | 0 | 37,149 | 2,841 | 1,847 | 49,355 | 0 | 74,537 |
| Special Operations Command | 21,787 | 664 | 0 | 0 | 0 | 0 | 20,575 | 0 | 548 |
| Washington Headquarters Svcs ⁷ | 416,193 | 93,276 | 7,918 | 51,676 | 61,782 | 108,313 | 91,810 | 1,418 | 0 |
| Department of Education | 141,623 | 13,029 | 3,278 | 0 | 0 | 819 | 6,556 | 117,941 | 0 |
| Department of Energy | 3,299,377 | 244,015 | 0 | 1,754,405 | 426,495 | 219,544 | 627,230 | 621 | 27,067 |
| Dept of Health & Human Svcs, total | 10,524,585 | 9,083,526 | 433,373 | 165,148 | 24,948 | 66,772 | 143,750 | 139,983 | 467,085 |
| Administration on Aging | 171 | 0 | 0 | 0 | 0 | 0 | 0 | 171 | 0 |
| Admin for Children & Families | 8,300 | 0 | 0 | 0 | 0 | 0 | 0 | 8,300 | 0 |
| Agcy for Hlth Care Policy & Rsch | 59,000 | 27,730 | 0 | 0 | 0 | 5,310 | 0 | 10,620 | 15,340 |
| Centers for Disease Control & Prevention | 323,181 | 323,181 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Food & Drug Administration | 170,462 | 170,462 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Health Care Financing Admin | 54,500 | 54,500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Health Resources & Services Admin | 11,763 | 11,763 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Institutes of Health ⁸ | 9,888,208 | 8,495,890 | 433,373 | 165,148 | 24,948 | 61,462 | 143,750 | 111,892 | 451,745 |
| Office of the Secretary | 9,000 | 0 | 0 | 0 | 0 | 0 | 0 | 9,000 | 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 1996

[Dollars in thousands]

Page 2 of 3

| 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 Housing & Urban Dvlpmt | 12,162 | 0 | 0 | 0 | 111 | 265 | 253 | 10,855 | 678 |
| Department of the Interior, total | 539,603 | 133,517 | 0 | 40,117 | 311,898 | 18,166 | 20,815 | 14,423 | 667 |
| Bureau of Reclamation | 4,523 | 0 | 0 | 0 | 0 | 0 | 4,523 | 0 | 0 |
| Geological Survey ⁹ | 494,529 | 129,778 | 0 | 39,714 | 295,945 | 17,138 | 11,623 | 331 | 0 |
| Minerals Management Service | 20,774 | 39 | 0 | 0 | 13,906 | 817 | 4,206 | 1,806 | 0 |
| National Park Service ¹⁰ | 19,777 | 3,700 | 0 | 403 | 2,047 | 211 | 463 | 12,286 | 667 |
| Department of Justice, total | 27,219 | 1,000 | 1,975 | 1,000 | 0 | 0 | 400 | 20,249 | 2,595 |
| Bureau of Prisons | 1,900 | 0 | 475 | 0 | 0 | 0 | 0 | 1,425 | 0 |
| Drug Enforcement Administration | 45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 45 |
| Immigration & Naturalization Svc | 400 | 0 | 0 | 0 | 0 | 0 | 400 | 0 | 0 |
| Office of Justice Programs | 24,874 | 1,000 | 1,500 | 1,000 | 0 | 0 | 0 | 18,824 | 2,550 |
| Department of Labor, total | 24,687 | 0 | 0 | 0 | 0 | 0 | 0 | 24,687 | 0 |
| Bureau of Labor Statistics | 13,300 | 0 | 0 | 0 | 0 | 0 | 0 | 13,300 | 0 |
| Employment & Training Admin | 3,023 | 0 | 0 | 0 | 0 | 0 | 0 | 3,023 | 0 |
| Occupational Safety & Hlth Admin | 3,175 | 0 | 0 | 0 | 0 | 0 | 0 | 3,175 | 0 |
| Office of the Secretary | 2,871 | 0 | 0 | 0 | 0 | 0 | 0 | 2,871 | 0 |
| Pension Benefit Guaranty Corp | 53 | 0 | 0 | 0 | 0 | 0 | 0 | 53 | 0 |
| Pension & Welfare Benefits Admin | 2,265 | 0 | 0 | 0 | 0 | 0 | 0 | 2,265 | 0 |
| Department of State | 4,250 | 0 | 0 | 0 | 0 | 0 | 0 | 4,250 | 0 |
| Department of Transportation, total | 333,972 | 8,484 | 24,621 | 1,400 | 6,033 | 85,504 | 177,196 | 11,914 | 18,820 |
| Coast Guard | 5,010 | 0 | 673 | 0 | 673 | 1,248 | 2,416 | 0 | 0 |
| Federal Aviation Administration | 60,373 | 2,500 | 23,731 | 1,000 | 865 | 0 | 31,797 | 0 | 480 |
| Federal Highway Administration | 198,126 | 624 | 217 | 0 | 4,495 | 73,642 | 93,922 | 6,886 | 18,340 |
| Federal Railroad Administration | 19,913 | 0 | 0 | 0 | 0 | 314 | 19,599 | 0 | 0 |
| Federal Transit Administration | 5,515 | 0 | 0 | 0 | 0 | 389 | 4,602 | 524 | 0 |
| National Highway Traffic Safety Administration | 38,185 | 5,360 | 0 | 0 | 0 | 8,561 | 20,160 | 4,104 | 0 |
| Research & Special Programs Admin .. | 6,850 | 0 | 0 | 400 | 0 | 1,350 | 4,700 | 400 | 0 |
| Department of the Treasury, total | 50,262 | 160 | 424 | 1,934 | 0 | 14,500 | 2 | 33,242 | 0 |
| Bureau of Engraving & Printing | 1,276 | 0 | 0 | 1,274 | 0 | 0 | 2 | 0 | 0 |
| Internal Revenue Service | 47,196 | 0 | 0 | 0 | 0 | 14,500 | 0 | 32,696 | 0 |
| Office of Thrift Supervision | 546 | 0 | 0 | 0 | 0 | 0 | 0 | 546 | 0 |
| United States Customs Service | 660 | 0 | 0 | 660 | 0 | 0 | 0 | 0 | 0 |
| United States Secret Service ¹¹ | 584 | 160 | 424 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Veterans Affairs | 253,813 | 236,952 | 16,656 | 0 | 0 | 0 | 205 | 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 1996

[Dollars in thousands]

| Agency and subdivision | Total | Life sciences | Psychology | Physical sciences | Environmental sciences | Mathematics and computer sciences | Engineering | Social sciences | Other sciences, n.e.c. |
|---|-----------|---------------|------------|-------------------|------------------------|-----------------------------------|-------------|-----------------|------------------------|
| Other agencies: | | | | | | | | | |
| Advisory Commission on Intergovernmental Relations | 1,402 | 0 | 0 | 0 | 0 | 0 | 0 | 1,402 | 0 |
| Appalachian Regional Commission | 900 | 0 | 0 | 0 | 0 | 0 | 0 | 900 | 0 |
| Environmental Protection Agency | 352,170 | 97,368 | 0 | 0 | 150,704 | 0 | 104,098 | 0 | 0 |
| Federal Communications Commission | 2,819 | 0 | 0 | 85 | 0 | 160 | 1,457 | 1,117 | 0 |
| Federal Trade Commission | 981 | 0 | 0 | 0 | 0 | 0 | 0 | 981 | 0 |
| International Development Cooperation Agency, total | 226,749 | 210,039 | 0 | 0 | 0 | 0 | 0 | 14,863 | 1,847 |
| Agency for Internat'l Dvlpmt | 226,749 | 210,039 | 0 | 0 | 0 | 0 | 0 | 14,863 | 1,847 |
| Library of Congress | 1,827 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,827 |
| Nat'l Aeronautics & Space Admin ¹² | 4,281,576 | 277,451 | 20,148 | 1,059,462 | 1,029,015 | 83,508 | 1,781,767 | 370 | 29,855 |
| National Archives & Records Admin | 120 | 0 | 0 | 120 | 0 | 0 | 0 | 0 | 0 |
| National Science Foundation | 2,141,712 | 339,468 | 15,712 | 492,254 | 431,815 | 216,112 | 426,889 | 80,643 | 138,819 |
| Nuclear Regulatory Commission | 59,184 | 0 | 0 | 0 | 0 | 0 | 59,184 | 0 | 0 |
| Smithsonian Institution | 125,400 | 48,915 | 0 | 35,426 | 5,775 | 0 | 0 | 33,679 | 1,605 |
| Social Security Administration ¹³ | 8,292 | 0 | 0 | 0 | 0 | 0 | 0 | 8,292 | 0 |
| Tennessee Valley Authority | 31,130 | 13,652 | 0 | 6,795 | 1,103 | 0 | 2,722 | 555 | 6,303 |
| US Arms Control & Disarmament Agcy ... | 545 | 0 | 0 | 340 | 0 | 0 | 0 | 180 | 25 |
| United States Information Agency | 150 | 0 | 0 | 0 | 0 | 0 | 150 | 0 | 0 |
| US Internat'l Trade Commission | 12,695 | 0 | 0 | 0 | 0 | 0 | 0 | 12,695 | 0 |

- 1 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 2 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.
- 3 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.
- 4 The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.
- 5 This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.
- 6 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.
- 7 Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
- 8 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.
- 9 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.
- 10 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.
- 11 The United States Secret Service was formerly listed as the Office of Protective Research.
- 12 The National Aeronautics and Space Administration has made a statistical adjustment to the 1994, 1995, 1996, and 1997 field of science and engineering values to diminish a computational error introduced by its software.
- 13 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.

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: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-22. Preliminary Federal obligations for research, by agency and field of science and engineering: fiscal year 1997

[Dollars in thousands]

Page 1 of 3

| Agency and subdivision | Total | Life sciences | Psychology | Physical sciences | Environmental sciences | Mathematics and computer sciences | Engineering | Social sciences | Other sciences, n.e.c. |
|---|------------|---------------|------------|-------------------|------------------------|-----------------------------------|-------------|-----------------|------------------------|
| Total, all agencies | 29,173,536 | 12,299,589 | 650,244 | 4,398,227 | 2,955,071 | 1,545,836 | 5,707,682 | 727,632 | 889,255 |
| Departments: | | | | | | | | | |
| Department of Agriculture, total | 1,286,264 | 987,049 | 417 | 92,878 | 12,592 | 17,007 | 61,804 | 111,057 | 3,460 |
| Agricultural Marketing Service | 4,271 | 4,271 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Agricultural Research Service ¹ | 640,888 | 561,015 | 0 | 62,037 | 4,695 | 2,682 | 10,459 | 0 | 0 |
| Cooperative State Research, Education, & Extension Service ² | 402,172 | 312,877 | 0 | 23,592 | 2,317 | 0 | 21,125 | 42,261 | 0 |
| Economic Research Service | 54,947 | 0 | 0 | 0 | 0 | 0 | 0 | 54,947 | 0 |
| Foreign Agricultural Service ³ | 1,422 | 1,422 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Forest Service | 174,393 | 104,634 | 417 | 7,249 | 5,580 | 10,384 | 30,220 | 12,449 | 3,460 |
| Grain Inspection Packers & Stockyards Administration ⁴ | 2,830 | 2,830 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nat'l Agricultural Statistics Svc | 3,941 | 0 | 0 | 0 | 0 | 3,941 | 0 | 0 | 0 |
| Rural Business-Cooperative Svc ⁵ | 1,400 | 0 | 0 | 0 | 0 | 0 | 0 | 1,400 | 0 |
| Department of Commerce, total | 868,560 | 144,264 | 281 | 107,643 | 270,829 | 100,783 | 182,120 | 21,087 | 41,553 |
| Bureau of the Census | 2,871 | 0 | 281 | 0 | 0 | 1,864 | 0 | 664 | 62 |
| Economic Development Admin | 1,500 | 0 | 0 | 0 | 0 | 0 | 0 | 1,500 | 0 |
| National Inst of Standards & Tech | 366,301 | 30,393 | 0 | 87,309 | 491 | 79,847 | 168,049 | 212 | 0 |
| Nat'l Oceanic & Atmospheric Admin | 493,143 | 113,871 | 0 | 20,334 | 270,338 | 19,072 | 9,326 | 18,711 | 41,491 |
| National Telecommunications & Information Administration | 4,745 | 0 | 0 | 0 | 0 | 0 | 4,745 | 0 | 0 |
| Department of Defense, total | 3,861,536 | 292,950 | 125,685 | 533,816 | 228,821 | 652,399 | 1,906,136 | 3,909 | 117,820 |
| Department of the Army | 672,084 | 98,817 | 14,620 | 70,583 | 35,756 | 95,012 | 350,919 | 1,260 | 5,117 |
| Department of the Navy | 853,725 | 44,332 | 30,072 | 199,395 | 111,131 | 58,165 | 393,996 | 0 | 16,634 |
| Department of the Air Force | 872,575 | 86,212 | 65,280 | 149,974 | 20,747 | 90,515 | 458,706 | 0 | 1,141 |
| Defense Agencies, total | 1,463,152 | 63,589 | 15,713 | 113,864 | 61,187 | 408,707 | 702,515 | 2,649 | 94,928 |
| Ballistic Missile Defense Organization | 95,693 | 0 | 0 | 37,234 | 0 | 24,800 | 33,659 | 0 | 0 |
| Defense Advanced Research Projects Agency ⁶ | 796,699 | 0 | 0 | 2,246 | 0 | 318,739 | 466,786 | 0 | 8,928 |
| Defense Information Systems Agency | 1,849 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,849 |
| Defense Logistics Agency | 7,785 | 0 | 7,785 | 0 | 0 | 0 | 0 | 0 | 0 |
| Defense Nuclear Agency | 196,954 | 4,032 | 0 | 42,995 | 1,910 | 2,247 | 61,997 | 0 | 83,773 |
| Special Operations Command | 15,048 | 459 | 0 | 0 | 0 | 0 | 14,211 | 0 | 378 |
| Washington Headquarters Svcs ⁷ | 349,124 | 59,098 | 7,928 | 31,389 | 59,277 | 62,921 | 125,862 | 2,649 | 0 |
| Department of Education | 142,710 | 12,186 | 3,331 | 0 | 0 | 833 | 6,663 | 119,697 | 0 |
| Department of Energy | 3,575,140 | 238,358 | 0 | 1,840,193 | 438,447 | 246,689 | 777,543 | 553 | 33,357 |
| Dept of Health & Human Svcs, total | 10,768,129 | 9,283,484 | 441,146 | 168,127 | 25,395 | 69,494 | 146,336 | 154,281 | 479,866 |
| Admin for Children & Families | 17,522 | 0 | 0 | 0 | 0 | 0 | 0 | 17,522 | 0 |
| Agcy for Hlth Care Policy & Rsch | 77,000 | 36,190 | 0 | 0 | 0 | 6,930 | 0 | 13,860 | 20,020 |
| Centers for Disease Control & Prevention | 361,181 | 361,181 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Food & Drug Administration | 170,462 | 170,462 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Health Care Financing Admin | 55,310 | 55,310 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Health Resources & Services Admin | 11,668 | 11,668 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Institutes of Health ⁸ | 10,065,986 | 8,648,673 | 441,146 | 168,127 | 25,395 | 62,564 | 146,336 | 113,899 | 459,846 |
| Office of the Secretary | 9,000 | 0 | 0 | 0 | 0 | 0 | 0 | 9,000 | 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 1997

[Dollars in thousands]

Page 2 of 3

| Agency and subdivision | Total | Life sciences | Psychology | Physical sciences | Environmental sciences | Mathematics and computer sciences | Engineering | Social sciences | Other sciences, n.e.c. |
|--|---------|---------------|------------|-------------------|------------------------|-----------------------------------|-------------|-----------------|------------------------|
| Dept of Housing & Urban Dvlpmnt | 16,690 | 0 | 0 | 0 | 133 | 136 | 296 | 14,935 | 1,190 |
| Department of the Interior, total | 546,105 | 140,649 | 0 | 39,534 | 310,004 | 18,247 | 21,631 | 15,373 | 667 |
| Bureau of Reclamation | 5,730 | 0 | 0 | 0 | 0 | 0 | 5,730 | 0 | 0 |
| Geological Survey ⁹ | 498,959 | 136,910 | 0 | 38,984 | 293,977 | 17,215 | 11,514 | 359 | 0 |
| Minerals Management Service | 20,579 | 39 | 0 | 0 | 13,980 | 821 | 3,924 | 1,815 | 0 |
| National Park Service ¹⁰ | 20,837 | 3,700 | 0 | 550 | 2,047 | 211 | 463 | 13,199 | 667 |
| Department of Justice, total | 35,211 | 1,000 | 1,475 | 1,000 | 0 | 0 | 400 | 30,002 | 1,334 |
| Bureau of Prisons | 1,900 | 0 | 475 | 0 | 0 | 0 | 0 | 1,425 | 0 |
| Drug Enforcement Administration | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| Immigration & Naturalization Svc | 400 | 0 | 0 | 0 | 0 | 0 | 400 | 0 | 0 |
| Office of Justice Programs | 32,861 | 1,000 | 1,000 | 1,000 | 0 | 0 | 0 | 28,577 | 1,284 |
| Department of Labor, total | 23,770 | 0 | 0 | 0 | 0 | 0 | 0 | 23,570 | 200 |
| Bureau of Labor Statistics | 12,600 | 0 | 0 | 0 | 0 | 0 | 0 | 12,600 | 0 |
| Employment & Training Admin | 2,375 | 0 | 0 | 0 | 0 | 0 | 0 | 2,375 | 0 |
| Occupational Safety & Hlth Admin | 3,495 | 0 | 0 | 0 | 0 | 0 | 0 | 3,495 | 0 |
| Office of the Secretary | 2,918 | 0 | 0 | 0 | 0 | 0 | 0 | 2,718 | 200 |
| Pension Benefit Guaranty Corp | 54 | 0 | 0 | 0 | 0 | 0 | 0 | 54 | 0 |
| Pension & Welfare Benefits Admin | 2,328 | 0 | 0 | 0 | 0 | 0 | 0 | 2,328 | 0 |
| Department of State | 4,250 | 0 | 0 | 0 | 0 | 0 | 0 | 4,250 | 0 |
| Department of Transportation, total | 394,311 | 12,307 | 25,308 | 2,558 | 7,341 | 112,962 | 194,662 | 12,125 | 27,048 |
| Coast Guard | 4,944 | 0 | 618 | 0 | 610 | 1,208 | 2,508 | 0 | 0 |
| Federal Aviation Administration | 67,570 | 4,178 | 24,543 | 2,258 | 1,696 | 0 | 28,711 | 0 | 6,184 |
| Federal Highway Administration | 235,356 | 719 | 147 | 0 | 4,950 | 99,715 | 102,623 | 6,338 | 20,864 |
| Federal Railroad Administration | 23,495 | 0 | 0 | 0 | 0 | 100 | 23,395 | 0 | 0 |
| Federal Transit Administration | 5,802 | 0 | 0 | 0 | 0 | 113 | 5,120 | 569 | 0 |
| Maritime Administration | 2,006 | 0 | 0 | 0 | 85 | 0 | 1,836 | 85 | 0 |
| National Highway Traffic Safety Administration | 45,663 | 7,410 | 0 | 0 | 0 | 10,376 | 23,044 | 4,833 | 0 |
| Research & Special Programs Admin .. | 9,475 | 0 | 0 | 300 | 0 | 1,450 | 7,425 | 300 | 0 |
| Department of the Treasury, total | 53,901 | 510 | 455 | 1,423 | 0 | 14,500 | 100 | 36,913 | 0 |
| Bureau of Engraving & Printing | 1,173 | 0 | 0 | 1,073 | 0 | 0 | 100 | 0 | 0 |
| Internal Revenue Service | 50,830 | 0 | 0 | 0 | 0 | 14,500 | 0 | 36,330 | 0 |
| Office of Thrift Supervision | 583 | 0 | 0 | 0 | 0 | 0 | 0 | 583 | 0 |
| United States Customs Service | 700 | 350 | 0 | 350 | 0 | 0 | 0 | 0 | 0 |
| United States Secret Service ¹¹ | 615 | 160 | 455 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Veterans Affairs | 236,174 | 220,354 | 15,620 | 0 | 0 | 0 | 200 | 0 | 0 |

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Table C-22. Preliminary Federal obligations for research, by agency and field of science and engineering: fiscal year 1997

[Dollars in thousands]

Page 3 of 3

| Agency and subdivision | Total | Life sciences | Psychology | Physical sciences | Environmental sciences | Mathematics and computer sciences | Engineering | Social sciences | Other sciences, n.e.c. |
|---|-----------|---------------|------------|-------------------|------------------------|-----------------------------------|-------------|-----------------|------------------------|
| Other agencies: | | | | | | | | | |
| Appalachian Regional Commission | 900 | 0 | 0 | 0 | 0 | 0 | 0 | 900 | 0 |
| Environmental Protection Agency | 410,553 | 113,510 | 0 | 0 | 175,688 | 0 | 121,355 | 0 | 0 |
| Federal Communications Commission | 2,749 | 0 | 0 | 90 | 0 | 142 | 1,485 | 1,032 | 0 |
| Federal Trade Commission | 1,034 | 0 | 0 | 0 | 0 | 0 | 0 | 1,034 | 0 |
| International Development Cooperation Agency, total | 172,740 | 155,752 | 0 | 0 | 0 | 0 | 0 | 14,247 | 2,741 |
| Agency for Internat'l Dvlpmt | 172,740 | 155,752 | 0 | 0 | 0 | 0 | 0 | 14,247 | 2,741 |
| Library of Congress | 1,886 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,886 |
| Nat'l Aeronautics & Space Admin ² | 4,240,540 | 274,793 | 19,954 | 1,049,307 | 1,019,153 | 82,707 | 1,764,691 | 347 | 29,588 |
| National Archives & Records Admin | 120 | 0 | 0 | 120 | 0 | 0 | 0 | 0 | 0 |
| National Science Foundation | 2,278,922 | 360,073 | 16,572 | 521,659 | 457,305 | 229,828 | 462,135 | 85,032 | 146,318 |
| Nuclear Regulatory Commission | 59,014 | 0 | 0 | 0 | 0 | 0 | 59,014 | 0 | 0 |
| Smithsonian Institution | 136,800 | 53,321 | 0 | 38,453 | 6,407 | 0 | 0 | 36,859 | 1,760 |
| Social Security Administration ³ | 27,698 | 0 | 0 | 0 | 0 | 0 | 0 | 27,698 | 0 |
| Tennessee Valley Authority | 14,182 | 8,999 | 0 | 916 | 2,956 | 29 | 945 | 0 | 337 |
| US Arms Control & Disarmament Agcy ... | 1,000 | 30 | 0 | 510 | 0 | 80 | 30 | 220 | 130 |
| United States Information Agency | 136 | 0 | 0 | 0 | 0 | 0 | 136 | 0 | 0 |
| US Internat'l Trade Commission | 12,511 | 0 | 0 | 0 | 0 | 0 | 0 | 12,511 | 0 |

- 1 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
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- 3 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.
- 4 The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.
- 5 This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.
- 6 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.
- 7 Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
- 8 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.
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- 10 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.
- 11 The United States Secret Service was formerly listed as the Office of Protective Research.
- 12 The National Aeronautics and Space Administration has made a statistical adjustment to the 1994, 1995, 1996, and 1997 field of science and engineering values to diminish a computational error introduced by its software.
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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: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-23. Federal obligations for research in psychology and life sciences, by agency and detailed field of science: fiscal year 1995

[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 | 620,786 | 57,006 | 156,303 | 407,477 | 11,869,420 | 4,803,882 | 891,524 | 733,152 | 5,004,566 | 436,296 |
| Departments: | | | | | | | | | | |
| Department of Agriculture, total | 448 | 0 | 448 | 0 | 987,939 | 130,157 | 206,547 | 623,596 | 27,628 | 11 |
| Agricultural Marketing Service | 0 | 0 | 0 | 0 | 4,180 | 0 | 0 | 4,180 | 0 | 0 |
| Agricultural Research Service ¹ | 0 | 0 | 0 | 0 | 556,750 | 27,899 | 56,515 | 459,913 | 12,412 | 11 |
| Cooperative State Research, Education, & Extension Service ² | 0 | 0 | 0 | 0 | 312,446 | 79,034 | 68,075 | 155,666 | 9,671 | 0 |
| Foreign Agricultural Service ³ | 0 | 0 | 0 | 0 | 457 | 0 | 0 | 457 | 0 | 0 |
| Forest Service | 448 | 0 | 448 | 0 | 112,622 | 23,224 | 81,957 | 1,896 | 5,545 | 0 |
| Grain Inspection Packers & Stockyards Administration ⁴ | 0 | 0 | 0 | 0 | 1,484 | 0 | 0 | 1,484 | 0 | 0 |
| Department of Commerce, total | 287 | 0 | 287 | 0 | 150,587 | 37,907 | 70,708 | 21,847 | 19,284 | 841 |
| Bureau of the Census | 287 | 0 | 287 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Inst of Standards & Tech | 0 | 0 | 0 | 0 | 33,546 | 19,084 | 0 | 0 | 14,462 | 0 |
| Nat'l Oceanic & Atmospheric Admin | 0 | 0 | 0 | 0 | 117,041 | 18,823 | 70,708 | 21,847 | 4,822 | 841 |
| Department of Defense, total | 117,477 | 14,814 | 89,706 | 12,957 | 421,754 | 64,577 | 76,827 | 0 | 237,948 | 42,402 |
| Department of the Army | 15,163 | 640 | 12,137 | 2,386 | 184,217 | 11,854 | 2,451 | 0 | 166,340 | 3,572 |
| Department of the Navy | 31,909 | 11,116 | 18,219 | 2,574 | 52,425 | 24,135 | 13,776 | 0 | 14,514 | 0 |
| Department of the Air Force | 58,983 | 1,150 | 52,288 | 5,545 | 72,726 | 12,073 | 34,747 | 0 | 21,567 | 4,339 |
| Defense Agencies, total | 11,422 | 1,908 | 7,062 | 2,452 | 112,386 | 16,515 | 25,853 | 0 | 35,527 | 34,491 |
| Defense Logistics Agency | 7,062 | 0 | 7,062 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Defense Nuclear Agency | 0 | 0 | 0 | 0 | 4,411 | 4,361 | 0 | 0 | 50 | 0 |
| Special Operations Command | 0 | 0 | 0 | 0 | 1,218 | 0 | 0 | 0 | 0 | 1,218 |
| Washington Headquarters Svcs ⁵ | 4,360 | 1,908 | 0 | 2,452 | 106,757 | 12,154 | 25,853 | 0 | 35,477 | 33,273 |
| Department of Education | 3,688 | 0 | 2,576 | 1,112 | 13,412 | 0 | 0 | 0 | 4,721 | 8,691 |
| Department of Energy | 0 | 0 | 0 | 0 | 256,121 | 198,884 | 2,173 | 0 | 47,374 | 7,690 |
| Dept of Health & Human Svcs, total | 410,659 | 21,895 | 8,000 | 380,764 | 8,651,148 | 3,881,156 | 63,290 | 62,135 | 4,353,848 | 290,719 |
| Agcy for Hlth Care Policy & Rsch | 1,116 | 21 | 732 | 363 | 57,864 | 0 | 0 | 0 | 46,619 | 11,245 |
| Centers for Disease Control & Prevention | 0 | 0 | 0 | 0 | 317,385 | 0 | 0 | 0 | 317,385 | 0 |
| Food & Drug Administration | 0 | 0 | 0 | 0 | 170,462 | 90,337 | 0 | 62,135 | 0 | 17,990 |
| Health Care Financing Admin | 0 | 0 | 0 | 0 | 74,537 | 0 | 0 | 0 | 0 | 74,537 |
| Health Resources & Services Admin | 0 | 0 | 0 | 0 | 12,211 | 0 | 0 | 0 | 12,211 | 0 |
| National Institutes of Health ⁶ | 409,543 | 21,874 | 7,268 | 380,401 | 8,018,689 | 3,790,819 | 63,290 | 0 | 3,977,633 | 186,947 |
| Department of the Interior, total | 0 | 0 | 0 | 0 | 145,340 | 76,099 | 69,040 | 201 | 0 | 0 |
| Geological Survey ⁷ | 0 | 0 | 0 | 0 | 2,826 | 1,270 | 1,424 | 132 | 0 | 0 |
| Minerals Management Service | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 0 |
| National Biological Service ⁸ ⁷ | 0 | 0 | 0 | 0 | 138,810 | 73,569 | 65,241 | 0 | 0 | 0 |
| National Park Service ⁸ | 0 | 0 | 0 | 0 | 3,700 | 1,260 | 2,371 | 69 | 0 | 0 |
| Department of Justice, total | 2,059 | 542 | 875 | 642 | 750 | 400 | 0 | 0 | 0 | 350 |
| Bureau of Prisons | 532 | 0 | 325 | 207 | 0 | 0 | 0 | 0 | 0 | 0 |
| Office of Justice Programs | 1,527 | 542 | 550 | 435 | 750 | 400 | 0 | 0 | 0 | 350 |

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 1995

[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 | Agricul-tural | Medical | Life sciences, n.e.c. |
| Department of Transportation, total | 34,927 | 0 | 31,752 | 3,175 | 5,773 | 0 | 47 | 186 | 0 | 5,540 |
| Coast Guard | 590 | 0 | 590 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Federal Aviation Administration | 30,680 | 0 | 30,680 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Federal Highway Administration | 3,657 | 0 | 482 | 3,175 | 233 | 0 | 47 | 186 | 0 | 0 |
| National Highway Traffic Safety Administration | 0 | 0 | 0 | 0 | 5,540 | 0 | 0 | 0 | 0 | 5,540 |
| Department of the Treasury, total | 394 | 0 | 0 | 394 | 633 | 480 | 0 | 0 | 153 | 0 |
| United States Customs Service | 0 | 0 | 0 | 0 | 480 | 480 | 0 | 0 | 0 | 0 |
| United States Secret Service ⁹ | 394 | 0 | 0 | 394 | 153 | 0 | 0 | 0 | 153 | 0 |
| Department of Veterans Affairs | 16,491 | 16,461 | 30 | 0 | 202,124 | 36,400 | 0 | 0 | 165,724 | 0 |
| Other agencies: | | | | | | | | | | |
| Environmental Protection Agency | 0 | 0 | 0 | 0 | 111,029 | 0 | 89,971 | 0 | 21,058 | 0 |
| International Development Cooperation Agency, total | 0 | 0 | 0 | 0 | 262,288 | 0 | 186,660 | 14,017 | 8,240 | 53,371 |
| Agency for Internat'l Dvlpmnt | 0 | 0 | 0 | 0 | 262,288 | 0 | 186,660 | 14,017 | 8,240 | 53,371 |
| Nat'l Aeronautics & Space Admin ¹⁰ | 19,041 | 68 | 14,668 | 4,305 | 262,196 | 116,383 | 9,940 | 571 | 118,588 | 16,714 |
| National Science Foundation | 15,315 | 3,226 | 7,961 | 4,128 | 341,040 | 241,535 | 89,588 | 0 | 0 | 9,917 |
| Smithsonian Institution | 0 | 0 | 0 | 0 | 46,637 | 19,904 | 26,733 | 0 | 0 | 0 |
| Tennessee Valley Authority | 0 | 0 | 0 | 0 | 10,599 | 0 | 0 | 10,599 | 0 | 0 |
| US Arms Control & Disarmament Agcy ... | 0 | 0 | 0 | 0 | 50 | 0 | 0 | 0 | 0 | 50 |

- 1 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
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KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

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Table C-24. Federal obligations for research in physical and environmental sciences, by agency and detailed field of science: fiscal year 1995

[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 | 4,281,568 | 764,911 | 866,213 | 2,451,288 | 199,156 | 2,947,385 | 1,176,125 | 864,200 | 424,026 | 483,034 |
| Departments: | | | | | | | | | | |
| Department of Agriculture, total | 88,918 | 0 | 84,631 | 4,287 | 0 | 13,421 | 11,815 | 1,597 | 0 | 9 |
| Agricultural Research Service ¹ | 55,242 | 0 | 52,798 | 2,444 | 0 | 4,302 | 4,043 | 250 | 0 | 9 |
| Cooperative State Research, Education, & Extension Service ² | 25,875 | 0 | 25,875 | 0 | 0 | 3,113 | 3,113 | 0 | 0 | 0 |
| Forest Service | 7,801 | 0 | 5,958 | 1,843 | 0 | 6,006 | 4,659 | 1,347 | 0 | 0 |
| Department of Commerce, total | 102,683 | 860 | 43,499 | 57,586 | 738 | 290,811 | 140,884 | 43,643 | 95,930 | 10,354 |
| National Inst of Standards & Tech | 81,242 | 860 | 31,794 | 47,850 | 738 | 440 | 0 | 440 | 0 | 0 |
| Nat'l Oceanic & Atmospheric Admin | 21,441 | 0 | 11,705 | 9,736 | 0 | 290,371 | 140,884 | 43,203 | 95,930 | 10,354 |
| Department of Defense, total | 561,036 | 8,228 | 145,101 | 370,023 | 37,684 | 347,907 | 100,749 | 78,051 | 104,846 | 64,261 |
| Department of the Army | 97,521 | 0 | 44,571 | 37,497 | 15,453 | 51,000 | 14,998 | 3,869 | 1,052 | 31,081 |
| Department of the Navy | 202,154 | 4,500 | 42,111 | 152,766 | 2,777 | 116,437 | 20,761 | 27,322 | 68,354 | 0 |
| Department of the Air Force | 149,741 | 3,275 | 33,976 | 111,374 | 1,116 | 30,706 | 12,814 | 12,767 | 0 | 5,125 |
| Defense Agencies, total | 111,620 | 453 | 24,443 | 68,386 | 18,338 | 149,764 | 52,176 | 34,093 | 35,440 | 28,055 |
| Ballistic Missile Defense Organization | 18,450 | 0 | 4,505 | 12,945 | 1,000 | 4,553 | 4,553 | 0 | 0 | 0 |
| Defense Advanced Research Projects Agency ³ | 10,168 | 0 | 2,839 | 4,678 | 2,651 | 23,844 | 0 | 17,151 | 6,666 | 27 |
| Defense Nuclear Agency | 46,189 | 0 | 0 | 33,615 | 12,574 | 12,490 | 5,760 | 0 | 0 | 6,730 |
| Washington Headquarters Svcs ⁴ | 36,813 | 453 | 17,099 | 17,148 | 2,113 | 108,877 | 41,863 | 16,942 | 28,774 | 21,298 |
| Department of Energy | 1,799,182 | 0 | 216,712 | 1,499,497 | 82,973 | 382,213 | 97,680 | 100,277 | 8,158 | 176,098 |
| Dept of Health & Human Svcs, total | 155,685 | 0 | 137,447 | 18,238 | 0 | 23,853 | 0 | 0 | 0 | 23,853 |
| National Institutes of Health ⁵ | 155,685 | 0 | 137,447 | 18,238 | 0 | 23,853 | 0 | 0 | 0 | 23,853 |
| Dept of Housing & Urban Dvlpmt | 0 | 0 | 0 | 0 | 0 | 156 | 0 | 0 | 0 | 156 |
| Department of the Interior, total | 38,643 | 0 | 32,291 | 6,352 | 0 | 293,845 | 3,126 | 278,076 | 12,643 | 0 |
| Geological Survey ⁶ | 38,113 | 0 | 31,761 | 6,352 | 0 | 278,827 | 751 | 278,076 | 0 | 0 |
| Minerals Management Service | 0 | 0 | 0 | 0 | 0 | 12,971 | 402 | 0 | 12,569 | 0 |
| National Park Service ⁷ | 530 | 0 | 530 | 0 | 0 | 2,047 | 1,973 | 0 | 74 | 0 |
| Department of Justice, total | 900 | 0 | 300 | 0 | 600 | 0 | 0 | 0 | 0 | 0 |
| Office of Justice Programs | 900 | 0 | 300 | 0 | 600 | 0 | 0 | 0 | 0 | 0 |

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 1995

[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. |
| Department of Transportation, total | 1,389 | 0 | 0 | 1,189 | 200 | 6,717 | 4,220 | 125 | 581 | 1,791 |
| Coast Guard | 0 | 0 | 0 | 0 | 0 | 581 | 0 | 0 | 581 | 0 |
| Federal Aviation Administration | 1,189 | 0 | 0 | 1,189 | 0 | 1,524 | 1,524 | 0 | 0 | 0 |
| Federal Highway Administration | 0 | 0 | 0 | 0 | 0 | 4,412 | 2,571 | 100 | 0 | 1,741 |
| Federal Transit Administration | 0 | 0 | 0 | 0 | 0 | 25 | 0 | 25 | 0 | 0 |
| Maritime Administration | 0 | 0 | 0 | 0 | 0 | 125 | 125 | 0 | 0 | 0 |
| Office of the Secretary | 0 | 0 | 0 | 0 | 0 | 50 | 0 | 0 | 0 | 50 |
| Research & Special Programs Admin .. | 200 | 0 | 0 | 0 | 200 | 0 | 0 | 0 | 0 | 0 |
| Department of the Treasury, total | 1,226 | 0 | 243 | 173 | 810 | 0 | 0 | 0 | 0 | 0 |
| Bureau of Engraving & Printing | 1,226 | 0 | 243 | 173 | 810 | 0 | 0 | 0 | 0 | 0 |
| Other agencies: | | | | | | | | | | |
| Environmental Protection Agency | 0 | 0 | 0 | 0 | 0 | 171,874 | 80,149 | 11,183 | 0 | 80,542 |
| Federal Communications Commission | 80 | 0 | 0 | 0 | 80 | 0 | 0 | 0 | 0 | 0 |
| Nat'l Aeronautics & Space Admin ⁸ | 1,001,190 | 593,089 | 49,471 | 320,343 | 38,287 | 972,418 | 586,464 | 196,629 | 122,533 | 66,792 |
| National Archives & Records Admin | 120 | 0 | 80 | 40 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Science Foundation | 485,798 | 126,225 | 149,797 | 172,094 | 37,682 | 437,742 | 150,019 | 149,571 | 78,974 | 59,178 |
| Smithsonian Institution | 38,417 | 36,509 | 612 | 1,296 | 0 | 5,486 | 77 | 5,048 | 361 | 0 |
| Tennessee Valley Authority | 5,785 | 0 | 5,785 | 0 | 0 | 942 | 942 | 0 | 0 | 0 |
| US Arms Control & Disarmament Agcy ... | 516 | 0 | 244 | 170 | 102 | 0 | 0 | 0 | 0 | 0 |

- 1 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 2 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.
- 3 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.
- 4 Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
- 5 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.
- 6 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.
- 7 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.
- 8 The National Aeronautics and Space Administration has made a statistical adjustment to the 1994, 1995, 1996, and 1997 field of science and engineering values to diminish a computational error introduced by its software.

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: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-25. Federal obligations for research in engineering, by agency and detailed field of engineering: fiscal year 1995

[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 | 5,740,088 | 1,248,561 | 545,098 | 250,407 | 340,442 | 765,854 | 418,064 | 793,349 | 1,378,313 |
| Departments: | | | | | | | | | |
| Department of Agriculture, total | 69,431 | 0 | 0 | 7,705 | 5,997 | 460 | 3,425 | 0 | 51,844 |
| Agricultural Research Service ¹ | 9,629 | 0 | 0 | 5,167 | 1,692 | 386 | 593 | 0 | 1,791 |
| Cooperative State Research, Education, & Extension Service ² | 27,274 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 27,274 |
| Forest Service | 32,528 | 0 | 0 | 2,538 | 4,305 | 74 | 2,832 | 0 | 22,779 |
| Department of Commerce, total | 189,311 | 0 | 0 | 11,998 | 13,185 | 56,347 | 6,702 | 56,857 | 44,222 |
| National Inst of Standards & Tech | 173,515 | 0 | 0 | 11,998 | 13,185 | 48,056 | 6,702 | 56,857 | 36,717 |
| Nat'l Oceanic & Atmospheric Admin | 9,413 | 0 | 0 | 0 | 0 | 1,908 | 0 | 0 | 7,505 |
| National Telecommunications & Information Administration | 6,383 | 0 | 0 | 0 | 0 | 6,383 | 0 | 0 | 0 |
| Department of Defense, total | 2,057,848 | 140,619 | 84,144 | 42,772 | 83,869 | 571,862 | 273,915 | 464,765 | 395,902 |
| Department of the Army | 395,506 | 32,346 | 1,242 | 17,182 | 48,232 | 145,184 | 56,497 | 32,816 | 62,007 |
| Department of the Navy | 402,327 | 7,011 | 44,089 | 7,011 | 13,034 | 141,408 | 102,105 | 85,788 | 1,881 |
| Department of the Air Force | 404,965 | 83,272 | 36,613 | 6,247 | 11,652 | 98,106 | 69,689 | 69,111 | 30,275 |
| Defense Agencies, total | 855,050 | 17,990 | 2,200 | 12,332 | 10,951 | 187,164 | 45,624 | 277,050 | 301,739 |
| Ballistic Missile Defense Organization | 54,749 | 7,016 | 2,000 | 1,119 | 0 | 10,509 | 148 | 3,823 | 30,134 |
| Defense Advanced Research Projects Agency ³ | 522,571 | 4,052 | 0 | 223 | 7,827 | 86,665 | 511 | 240,518 | 182,775 |
| Defense Nuclear Agency | 57,480 | 0 | 0 | 2,068 | 1,616 | 29,755 | 10,059 | 0 | 13,982 |
| Special Operations Command | 37,693 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 37,693 |
| Washington Headquarters Svcs ⁴ | 182,557 | 6,922 | 200 | 8,922 | 1,508 | 60,235 | 34,906 | 32,709 | 37,155 |
| Department of Education | 5,737 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5,737 |
| Department of Energy | 735,085 | 0 | 17,493 | 121,443 | 52,740 | 51,369 | 37,590 | 63,626 | 390,824 |
| Dept of Health & Human Svcs, total | 135,683 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 135,683 |
| National Institutes of Health ⁵ | 135,683 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 135,683 |
| Dept of Housing & Urban Dvlpmt | 750 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 750 |
| Department of the Interior, total | 21,475 | 0 | 0 | 12,318 | 7,864 | 126 | 836 | 135 | 196 |
| Bureau of Reclamation | 5,997 | 0 | 0 | 0 | 5,967 | 30 | 0 | 0 | 0 |
| Geological Survey ⁶ | 11,198 | 0 | 0 | 10,164 | 781 | 96 | 157 | 0 | 0 |
| Minerals Management Service | 3,817 | 0 | 0 | 2,154 | 653 | 0 | 679 | 135 | 196 |
| National Park Service ⁷ | 463 | 0 | 0 | 0 | 463 | 0 | 0 | 0 | 0 |
| Department of Justice, total | 400 | 0 | 0 | 0 | 0 | 175 | 225 | 0 | 0 |
| Immigration & Naturalization Svc | 400 | 0 | 0 | 0 | 0 | 175 | 225 | 0 | 0 |

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 1995

[Dollars in thousands]

Page 2 of 2

| Agency and subdivision | Total | Aero-nautical | Astro-nautical | Chemical | Civil | Elec-trical | Mechan-ical | Metal-lurgy and materials | Engi-neering, n.e.c. |
|--|-----------|---------------|----------------|----------|---------|-------------|-------------|---------------------------|----------------------|
| Department of Transportation, total | 196,746 | 275 | 0 | 70 | 135,236 | 2,794 | 20,642 | 10,573 | 27,156 |
| Coast Guard | 2,444 | 0 | 0 | 0 | 408 | 1,104 | 485 | 447 | 0 |
| Federal Aviation Administration | 48,539 | 0 | 0 | 0 | 40,541 | 0 | 0 | 7,998 | 0 |
| Federal Highway Administration | 93,511 | 0 | 0 | 70 | 88,661 | 100 | 1,594 | 1,378 | 1,708 |
| Federal Railroad Administration | 22,041 | 0 | 0 | 0 | 3,648 | 1,323 | 9,923 | 750 | 6,397 |
| Federal Transit Administration | 4,678 | 0 | 0 | 0 | 190 | 267 | 240 | 0 | 3,981 |
| Maritime Administration | 2,163 | 0 | 0 | 0 | 1,788 | 0 | 0 | 0 | 375 |
| National Highway Traffic Safety Administration | 21,306 | 0 | 0 | 0 | 0 | 0 | 8,400 | 0 | 12,906 |
| Office of the Secretary | 525 | 275 | 0 | 0 | 0 | 0 | 0 | 0 | 250 |
| Research & Special Programs Admin .. | 1,539 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,539 |
| Department of the Treasury, total | 98 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 98 |
| Bureau of Engraving & Printing | 98 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 98 |
| Department of Veterans Affairs | 191 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 191 |
| Other agencies: | | | | | | | | | |
| Environmental Protection Agency | 118,724 | 0 | 0 | 2,617 | 0 | 0 | 0 | 0 | 116,107 |
| Federal Communications Commission | 1,531 | 0 | 0 | 0 | 0 | 1,531 | 0 | 0 | 0 |
| Nat'l Aeronautics & Space Admin ⁸ | 1,683,770 | 1,107,667 | 443,461 | 3,017 | 198 | 23,887 | 17,842 | 47,550 | 40,148 |
| National Science Foundation | 432,432 | 0 | 0 | 46,142 | 41,353 | 57,014 | 56,887 | 149,843 | 81,193 |
| Nuclear Regulatory Commission | 88,212 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 88,212 |
| Tennessee Valley Authority | 2,325 | 0 | 0 | 2,325 | 0 | 0 | 0 | 0 | 0 |
| US Arms Control & Disarmament Agcy ... | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| United States Information Agency | 289 | 0 | 0 | 0 | 0 | 289 | 0 | 0 | 0 |

- 1 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 2 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.
- 3 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.
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- 7 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.
- 8 The National Aeronautics and Space Administration has made a statistical adjustment to the 1994, 1995, 1996, and 1997 field of science and engineering values to diminish a computational error introduced by its software.

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: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

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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 1995

[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 | 1,530,877 | 359,221 | 961,877 | 209,779 | 681,518 | 22,079 | 205,940 | 24,136 | 48,509 | 380,854 |
| Departments: | | | | | | | | | | |
| Department of Agriculture, total | 17,880 | 15,385 | 2,495 | 0 | 117,789 | 284 | 108,827 | 0 | 8,678 | 0 |
| Agricultural Research Service ¹ | 2,685 | 190 | 2,495 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cooperative State Research, Education, & Extension Service ² | 0 | 0 | 0 | 0 | 49,004 | 0 | 41,424 | 0 | 7,580 | 0 |
| Economic Research Service | 0 | 0 | 0 | 0 | 53,827 | 0 | 53,827 | 0 | 0 | 0 |
| Forest Service | 11,176 | 11,176 | 0 | 0 | 13,397 | 284 | 12,015 | 0 | 1,098 | 0 |
| Nat'l Agricultural Statistics Svc | 4,019 | 4,019 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rural Business-Cooperative Svc ³ | 0 | 0 | 0 | 0 | 1,561 | 0 | 1,561 | 0 | 0 | 0 |
| Department of Commerce, total | 102,369 | 12,643 | 83,784 | 5,942 | 18,827 | 0 | 5,362 | 7,690 | 5,229 | 546 |
| Bureau of the Census | 1,902 | 1,685 | 217 | 0 | 678 | 0 | 372 | 306 | 0 | 0 |
| Economic Development Admin | 0 | 0 | 0 | 0 | 521 | 0 | 521 | 0 | 0 | 0 |
| National Inst of Standards & Tech | 83,165 | 3,055 | 74,168 | 5,942 | 183 | 0 | 183 | 0 | 0 | 0 |
| Nat'l Oceanic & Atmospheric Admin | 17,302 | 7,903 | 9,399 | 0 | 17,445 | 0 | 4,286 | 7,384 | 5,229 | 546 |
| Department of Defense, total | 695,377 | 104,987 | 543,083 | 47,307 | 488 | 0 | 292 | 0 | 196 | 0 |
| Department of the Army | 100,247 | 13,089 | 52,535 | 34,623 | 488 | 0 | 292 | 0 | 196 | 0 |
| Department of the Navy | 60,472 | 23,840 | 35,785 | 847 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of the Air Force | 109,006 | 51,782 | 48,844 | 8,380 | 0 | 0 | 0 | 0 | 0 | 0 |
| Defense Agencies, total | 425,652 | 16,276 | 405,919 | 3,457 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ballistic Missile Defense Organization | 23,501 | 1,000 | 22,441 | 60 | 0 | 0 | 0 | 0 | 0 | 0 |
| Defense Advanced Research Projects Agency ⁴ | 354,899 | 7,069 | 347,239 | 591 | 0 | 0 | 0 | 0 | 0 | 0 |
| Defense Nuclear Agency | 2,838 | 0 | 2,838 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Washington Headquarters Svcs ⁵ | 44,414 | 8,207 | 33,401 | 2,806 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Education | 1,229 | 0 | 1,229 | 0 | 114,286 | 0 | 0 | 0 | 1,854 | 112,432 |
| Department of Energy | 223,195 | 97,305 | 97,179 | 28,711 | 500 | 500 | 0 | 0 | 0 | 0 |
| Dept of Health & Human Svcs, total | 68,945 | 34,102 | 34,843 | 0 | 171,728 | 0 | 14,344 | 2,502 | 2,159 | 152,723 |
| Administration on Aging | 0 | 0 | 0 | 0 | 3,000 | 0 | 0 | 0 | 0 | 3,000 |
| Admin for Children & Families | 0 | 0 | 0 | 0 | 11,200 | 0 | 0 | 0 | 0 | 11,200 |
| Agcy for Hlth Care Policy & Rsch | 10,764 | 128 | 10,636 | 0 | 22,245 | 0 | 14,344 | 2,502 | 2,159 | 3,240 |
| National Institutes of Health ⁶ | 58,181 | 33,974 | 24,207 | 0 | 105,730 | 0 | 0 | 0 | 0 | 105,730 |
| Office of the Secretary | 0 | 0 | 0 | 0 | 9,121 | 0 | 0 | 0 | 0 | 9,121 |
| Social Security Administration ⁷ | 0 | 0 | 0 | 0 | 20,432 | 0 | 0 | 0 | 0 | 20,432 |
| Dept of Housing & Urban Dvlpmt | 31 | 0 | 31 | 0 | 10,619 | 0 | 6,103 | 331 | 748 | 3,437 |
| Department of the Interior, total | 18,139 | 3,049 | 13,771 | 1,319 | 14,327 | 4,782 | 76 | 0 | 1,852 | 7,617 |
| Geological Survey ⁸ | 16,609 | 3,049 | 13,560 | 0 | 324 | 0 | 0 | 0 | 0 | 324 |
| Minerals Management Service | 1,319 | 0 | 0 | 1,319 | 1,899 | 17 | 69 | 0 | 1,813 | 0 |
| National Park Service ⁹ | 211 | 0 | 211 | 0 | 12,104 | 4,765 | 7 | 0 | 39 | 7,293 |
| Department of Justice, total | 0 | 0 | 0 | 0 | 18,874 | 62 | 312 | 550 | 10,359 | 7,591 |
| Bureau of Prisons | 0 | 0 | 0 | 0 | 2,717 | 62 | 62 | 0 | 1,288 | 1,305 |
| Office of Justice Programs | 0 | 0 | 0 | 0 | 16,157 | 0 | 250 | 550 | 9,071 | 6,286 |
| Department of Labor, total | 0 | 0 | 0 | 0 | 28,248 | 0 | 28,248 | 0 | 0 | 0 |
| Bureau of Labor Statistics | 0 | 0 | 0 | 0 | 13,100 | 0 | 13,100 | 0 | 0 | 0 |
| Employment & Training Admin | 0 | 0 | 0 | 0 | 4,206 | 0 | 4,206 | 0 | 0 | 0 |
| Occupational Safety & Hlth Admin | 0 | 0 | 0 | 0 | 4,370 | 0 | 4,370 | 0 | 0 | 0 |
| Office of the Secretary | 0 | 0 | 0 | 0 | 2,872 | 0 | 2,872 | 0 | 0 | 0 |
| Pension Benefit Guaranty Corp | 0 | 0 | 0 | 0 | 102 | 0 | 102 | 0 | 0 | 0 |
| Pension & Welfare Benefits Admin | 0 | 0 | 0 | 0 | 3,598 | 0 | 3,598 | 0 | 0 | 0 |
| Department of State | 0 | 0 | 0 | 0 | 5,010 | 361 | 1,156 | 2,140 | 782 | 571 |

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 1995

[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 | 90,247 | 149 | 16,595 | 73,503 | 15,784 | 0 | 4,641 | 1,392 | 6,615 | 3,136 |
| Coast Guard | 1,315 | 0 | 1,315 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Federal Highway Administration | 77,336 | 149 | 4,088 | 73,099 | 6,195 | 0 | 2,744 | 1,013 | 963 | 1,475 |
| Federal Railroad Administration | 504 | 0 | 364 | 140 | 0 | 0 | 0 | 0 | 0 | 0 |
| Federal Transit Administration | 684 | 0 | 420 | 264 | 5,479 | 0 | 1,682 | 379 | 1,919 | 1,499 |
| Maritime Administration | 0 | 0 | 0 | 0 | 162 | 0 | 0 | 0 | 0 | 162 |
| National Highway Traffic Safety Administration | 9,128 | 0 | 9,128 | 0 | 3,733 | 0 | 0 | 0 | 3,733 | 0 |
| Office of the Secretary | 0 | 0 | 0 | 0 | 15 | 0 | 15 | 0 | 0 | 0 |
| Research & Special Programs Admin .. | 1,280 | 0 | 1,280 | 0 | 200 | 0 | 200 | 0 | 0 | 0 |
| Department of the Treasury, total | 17,430 | 0 | 17,430 | 0 | 29,147 | 0 | 1,508 | 0 | 0 | 27,639 |
| Internal Revenue Service | 17,200 | 0 | 17,200 | 0 | 28,597 | 0 | 958 | 0 | 0 | 27,639 |
| Office of Thrift Supervision | 0 | 0 | 0 | 0 | 550 | 0 | 550 | 0 | 0 | 0 |
| United States Customs Service | 230 | 0 | 230 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other agencies: | | | | | | | | | | |
| Advisory Commission on Intergovernmental Relations | 0 | 0 | 0 | 0 | 1,413 | 0 | 706 | 707 | 0 | 0 |
| Appalachian Regional Commission | 0 | 0 | 0 | 0 | 900 | 0 | 0 | 900 | 0 | 0 |
| Federal Communications Commission | 128 | 0 | 128 | 0 | 529 | 0 | 529 | 0 | 0 | 0 |
| Federal Trade Commission | 0 | 0 | 0 | 0 | 564 | 0 | 564 | 0 | 0 | 0 |
| International Development Cooperation Agency, total | 0 | 0 | 0 | 0 | 7,844 | 0 | 5,339 | 250 | 455 | 1,800 |
| Agency for Internat'l Dvlpmt | 0 | 0 | 0 | 0 | 7,844 | 0 | 5,339 | 250 | 455 | 1,800 |
| Nat'l Aeronautics & Space Admin ¹⁰ | 78,916 | 4,536 | 27,220 | 47,160 | 364 | 0 | 0 | 0 | 233 | 131 |
| National Science Foundation | 216,856 | 87,065 | 124,089 | 5,702 | 79,478 | 12,737 | 15,306 | 7,479 | 8,881 | 35,075 |
| Smithsonian Institution | 0 | 0 | 0 | 0 | 31,977 | 3,353 | 0 | 0 | 468 | 28,156 |
| Tennessee Valley Authority | 0 | 0 | 0 | 0 | 475 | 0 | 475 | 0 | 0 | 0 |
| US Arms Control & Disarmament Agcy | 135 | 0 | 0 | 135 | 195 | 0 | 0 | 195 | 0 | 0 |
| US Internat'l Trade Commission | 0 | 0 | 0 | 0 | 12,152 | 0 | 12,152 | 0 | 0 | 0 |

- 1 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 2 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.
- 3 This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.
- 4 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.
- 5 Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
- 6 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.
- 7 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.
- 8 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.
- 9 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.
- 10 The National Aeronautics and Space Administration has made a statistical adjustment to the 1994, 1995, 1996, and 1997 field of science and engineering values to diminish a computational error introduced by its software.

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: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-27. Federal obligations for basic research, by agency and performer: fiscal year 1995

[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 | 13,895,493 | 2,712,918 | 1,221,211 | 239,112 | 6,951,307 | 1,438,315 | 1,134,172 | 75,217 | 78,705 | 44,536 |
| Departments: | | | | | | | | | | |
| Department of Agriculture, total | 594,903 | 388,227 | 5,633 | 0 | 192,870 | 0 | 4,682 | 0 | 1,005 | 2,486 |
| Agricultural Research Service ² | 368,966 | 350,399 | 0 | 0 | 14,203 | 0 | 2,100 | 0 | 153 | 2,111 |
| Cooperative State Research, Education, & Extension Service ³ | 185,992 | 8,269 | 5,624 | 0 | 169,287 | 0 | 2,243 | 0 | 569 | 0 |
| Economic Research Service | 5,383 | 5,065 | 0 | 0 | 318 | 0 | 0 | 0 | 0 | 0 |
| Foreign Agricultural Service ⁴ | 343 | 257 | 0 | 0 | 86 | 0 | 0 | 0 | 0 | 0 |
| Forest Service | 32,897 | 22,915 | 9 | 0 | 8,976 | 0 | 339 | 0 | 283 | 375 |
| Nat'l Agricultural Statistics Svc | 1,322 | 1,322 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Commerce, total | 39,258 | 34,607 | 761 | 0 | 3,581 | 125 | 184 | 0 | 0 | 0 |
| Bureau of the Census | 312 | 312 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Inst of Standards & Tech | 38,946 | 34,295 | 761 | 0 | 3,581 | 125 | 184 | 0 | 0 | 0 |
| Department of Defense, total | 1,264,113 | 320,441 | 173,775 | 1,555 | 713,637 | 4,989 | 39,554 | 2,197 | 0 | 7,965 |
| Department of the Army | 218,790 | 127,471 | 13,253 | 825 | 71,100 | 335 | 3,227 | 6 | 0 | 2,573 |
| Department of the Navy | 409,419 | 139,031 | 28,195 | 0 | 210,598 | 407 | 27,003 | 0 | 0 | 4,185 |
| Department of the Air Force | 206,776 | 31,235 | 32,955 | 39 | 135,818 | 56 | 5,807 | 0 | 0 | 866 |
| Defense Agencies, total | 429,128 | 22,704 | 99,372 | 691 | 296,121 | 4,191 | 3,517 | 2,191 | 0 | 341 |
| Ballistic Missile Defense Organization | 10,742 | 210 | 7,532 | 0 | 3,000 | 0 | 0 | 0 | 0 | 0 |
| Defense Advanced Research Projects Agency ⁵ | 94,587 | 5,961 | 51,679 | 691 | 28,561 | 3,191 | 2,717 | 1,446 | 0 | 341 |
| Washington Headquarters Svcs ⁶ | 323,799 | 16,533 | 40,161 | 0 | 264,560 | 1,000 | 800 | 745 | 0 | 0 |
| Department of Education | 5,535 | 197 | 0 | 0 | 4,338 | 0 | 1,000 | 0 | 0 | 0 |
| Department of Energy | 1,634,353 | 36,855 | 24,515 | 163,263 | 369,311 | 959,828 | 15,757 | 61,415 | 1,763 | 1,646 |
| Dept of Health & Human Svcs, total | 6,061,057 | 1,193,839 | 279,979 | 74,284 | 3,555,562 | 15,399 | 851,092 | 9,734 | 57,017 | 24,151 |
| Health Resources & Services Admin | 1,010 | 1,010 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Institutes of Health ⁷ | 6,060,047 | 1,192,829 | 279,979 | 74,284 | 3,555,562 | 15,399 | 851,092 | 9,734 | 57,017 | 24,151 |
| Department of the Interior, total | 55,179 | 50,216 | 0 | 0 | 4,883 | 80 | 0 | 0 | 0 | 0 |
| Geological Survey ⁸ | 41,649 | 37,649 | 0 | 0 | 4,000 | 0 | 0 | 0 | 0 | 0 |
| National Biological Service ⁹ | 13,000 | 12,255 | 0 | 0 | 745 | 0 | 0 | 0 | 0 | 0 |
| National Park Service ⁹ | 530 | 312 | 0 | 0 | 138 | 80 | 0 | 0 | 0 | 0 |
| Department of Justice, total | 8,121 | 45 | 58 | 0 | 3,287 | 0 | 3,445 | 0 | 1,286 | 0 |
| Office of Justice Programs | 8,121 | 45 | 58 | 0 | 3,287 | 0 | 3,445 | 0 | 1,286 | 0 |
| Department of Labor, total | 11,600 | 2,279 | 0 | 0 | 9,321 | 0 | 0 | 0 | 0 | 0 |
| Bureau of Labor Statistics | 11,600 | 2,279 | 0 | 0 | 9,321 | 0 | 0 | 0 | 0 | 0 |
| Department of State | 4,510 | 67 | 0 | 0 | 0 | 0 | 4,443 | 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 1995

[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 non-profit insti-tutions | FFRDCs admin by non-profit insti-tutions | State and local govts | |
| Department of Transportation, total | 46,880 | 1 | 0 | 0 | 0 | 15,949 | 17,479 | 0 | 13,451 | 0 |
| Federal Highway Administration | 46,880 | 1 | 0 | 0 | 0 | 15,949 | 17,479 | 0 | 13,451 | 0 |
| Department of the Treasury, total | 41 | 41 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bureau of Engraving & Printing | 41 | 41 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Veterans Affairs | 12,390 | 12,390 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other agencies: | | | | | | | | | | |
| Environmental Protection Agency | 70,297 | 28,632 | 19,131 | 0 | 16,024 | 0 | 5,251 | 0 | 813 | 446 |
| International Development Cooperation Agency, total | 2,297 | 365 | 0 | 0 | 21 | 0 | 1,911 | 0 | 0 | 0 |
| Agency for Internat'l Dvlpmt | 2,297 | 365 | 0 | 0 | 21 | 0 | 1,911 | 0 | 0 | 0 |
| Library of Congress | 512 | 512 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Aeronautics & Space Admin | 1,978,193 | 494,548 | 636,359 | 0 | 480,168 | 301,133 | 59,733 | 1,292 | 661 | 4,299 |
| National Science Foundation | 1,973,264 | 16,666 | 81,000 | 10 | 1,598,304 | 140,812 | 129,641 | 579 | 2,709 | 3,543 |
| Smithsonian Institution | 124,000 | 124,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tennessee Valley Authority | 8,990 | 8,990 | 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 Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 3 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.
- 4 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.
- 5 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.
- 6 Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
- 7 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.
- 8 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.
- 9 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.

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: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

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Table C-28. Preliminary Federal obligations for basic research, by agency and performer: fiscal year 1996

[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 | 14,482,056 | 2,413,879 | 1,225,733 | 339,947 | 7,753,554 | 1,503,521 | 1,062,119 | 71,617 | 70,370 | 41,316 |
| Departments: | | | | | | | | | | |
| Department of Agriculture, total | 586,329 | 383,246 | 5,540 | 0 | 188,434 | 0 | 6,054 | 0 | 997 | 2,058 |
| Agricultural Research Service ² | 367,666 | 347,410 | 0 | 0 | 14,947 | 0 | 3,473 | 0 | 153 | 1,683 |
| Cooperative State Research, Education, & Extension Service ³ | 180,744 | 8,175 | 5,532 | 0 | 164,233 | 0 | 2,242 | 0 | 562 | 0 |
| Economic Research Service | 5,313 | 5,125 | 0 | 0 | 188 | 0 | 0 | 0 | 0 | 0 |
| Foreign Agricultural Service ⁴ | 1,067 | 978 | 0 | 0 | 89 | 0 | 0 | 0 | 0 | 0 |
| Forest Service | 30,260 | 20,279 | 8 | 0 | 8,977 | 0 | 339 | 0 | 282 | 375 |
| Nat'l Agricultural Statistics Svc | 1,279 | 1,279 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Commerce, total | 37,529 | 33,101 | 571 | 0 | 3,537 | 129 | 191 | 0 | 0 | 0 |
| Bureau of the Census | 307 | 307 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Inst of Standards & Tech | 37,222 | 32,794 | 571 | 0 | 3,537 | 129 | 191 | 0 | 0 | 0 |
| Department of Defense, total | 1,134,158 | 272,544 | 148,295 | 770 | 659,364 | 5,616 | 38,092 | 849 | 0 | 8,628 |
| Department of the Army | 190,418 | 82,346 | 22,832 | 208 | 80,124 | 343 | 3,286 | 0 | 0 | 1,279 |
| Department of the Navy | 373,175 | 123,705 | 25,879 | 0 | 191,453 | 1,116 | 24,915 | 158 | 0 | 5,949 |
| Department of the Air Force | 233,793 | 55,444 | 47,380 | 0 | 122,919 | 68 | 6,894 | 29 | 0 | 1,059 |
| Defense Agencies, total | 336,772 | 11,049 | 52,204 | 562 | 264,868 | 4,089 | 2,997 | 662 | 0 | 341 |
| Ballistic Missile Defense Organization | 7,902 | 250 | 4,867 | 471 | 2,314 | 0 | 0 | 0 | 0 | 0 |
| Defense Advanced Research Projects Agency ⁵ | 65,971 | 3,061 | 28,592 | 91 | 26,563 | 4,089 | 2,997 | 237 | 0 | 341 |
| Washington Headquarters Svcs ⁶ | 262,899 | 7,738 | 18,745 | 0 | 235,991 | 0 | 0 | 425 | 0 | 0 |
| Department of Education | 3,459 | 149 | 0 | 0 | 2,310 | 0 | 1,000 | 0 | 0 | 0 |
| Department of Energy | 1,956,610 | 59,089 | 93,397 | 237,579 | 432,860 | 1,054,556 | 16,336 | 60,393 | 1,242 | 1,358 |
| Dept of Health & Human Svcs, total | 6,441,509 | 907,801 | 214,749 | 100,481 | 4,351,544 | 13,370 | 772,928 | 8,565 | 50,554 | 21,517 |
| Administration on Aging | 171 | 171 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Health Resources & Services Admin | 800 | 800 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Institutes of Health ⁷ | 6,440,538 | 906,830 | 214,749 | 100,481 | 4,351,544 | 13,370 | 772,928 | 8,565 | 50,554 | 21,517 |
| Department of the Interior, total | 55,863 | 49,533 | 0 | 0 | 6,279 | 0 | 51 | 0 | 0 | 0 |
| Geological Survey ⁸ | 55,460 | 49,370 | 0 | 0 | 6,090 | 0 | 0 | 0 | 0 | 0 |
| National Park Service ⁹ | 403 | 163 | 0 | 0 | 189 | 0 | 51 | 0 | 0 | 0 |
| Department of Justice, total | 8,300 | 41 | 40 | 0 | 2,600 | 0 | 4,886 | 0 | 733 | 0 |
| Office of Justice Programs | 8,300 | 41 | 40 | 0 | 2,600 | 0 | 4,886 | 0 | 733 | 0 |
| Department of Labor, total | 11,500 | 6,400 | 0 | 0 | 5,100 | 0 | 0 | 0 | 0 | 0 |
| Bureau of Labor Statistics | 11,500 | 6,400 | 0 | 0 | 5,100 | 0 | 0 | 0 | 0 | 0 |
| Department of State | 3,750 | 70 | 0 | 0 | 0 | 0 | 3,680 | 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 1996

[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 | |
| Department of Transportation, total | 45,721 | 8 | 0 | 1,109 | 15,202 | 0 | 16,634 | 0 | 12,768 | 0 |
| Federal Highway Administration | 45,721 | 8 | 0 | 1,109 | 15,202 | 0 | 16,634 | 0 | 12,768 | 0 |
| Department of the Treasury, total | 53 | 53 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bureau of Engraving & Printing | 53 | 53 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Veterans Affairs | 14,372 | 14,372 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other agencies: | | | | | | | | | | |
| Environmental Protection Agency | 65,914 | 26,847 | 17,938 | 0 | 15,025 | 0 | 4,924 | 0 | 762 | 418 |
| International Development Cooperation | | | | | | | | | | |
| Agency, total | 2,444 | 1,118 | 0 | 0 | 81 | 0 | 1,245 | 0 | 0 | 0 |
| Agency for Internat'l Dvlpmt | 2,444 | 1,118 | 0 | 0 | 81 | 0 | 1,245 | 0 | 0 | 0 |
| Library of Congress | 442 | 442 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Aeronautics & Space Admin | 2,009,237 | 502,309 | 666,222 | 0 | 480,168 | 294,301 | 60,544 | 1,255 | 644 | 3,794 |
| National Science Foundation | 1,967,676 | 19,566 | 78,981 | 8 | 1,591,250 | 135,549 | 135,554 | 555 | 2,670 | 3,543 |
| Smithsonian Institution | 125,400 | 125,400 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tennessee Valley Authority | 11,790 | 11,790 | 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 Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 3 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.
- 4 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.
- 5 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.
- 6 Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
- 7 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.
- 8 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.
- 9 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.

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: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-29. Preliminary Federal obligations for basic research, by agency and performer: fiscal year 1997

[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 | 14,732,254 | 2,667,782 | 1,279,074 | 368,295 | 7,405,489 | 1,519,706 | 1,270,164 | 82,910 | 92,313 | 46,521 |
| Departments: | | | | | | | | | | |
| Department of Agriculture, total | 607,823 | 395,074 | 6,700 | 0 | 198,942 | 0 | 4,051 | 0 | 998 | 2,058 |
| Agricultural Research Service ² | 376,173 | 357,921 | 0 | 0 | 14,947 | 0 | 1,469 | 0 | 153 | 1,683 |
| Cooperative State Research, Education, & Extension Service ³ | 193,227 | 8,988 | 6,692 | 0 | 174,741 | 0 | 2,243 | 0 | 563 | 0 |
| Economic Research Service | 5,495 | 5,307 | 0 | 0 | 188 | 0 | 0 | 0 | 0 | 0 |
| Foreign Agricultural Service ⁴ | 1,067 | 978 | 0 | 0 | 89 | 0 | 0 | 0 | 0 | 0 |
| Forest Service | 30,564 | 20,583 | 8 | 0 | 8,977 | 0 | 339 | 0 | 282 | 375 |
| Nat'l Agricultural Statistics Svc | 1,297 | 1,297 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Commerce, total | 38,774 | 34,186 | 592 | 0 | 3,664 | 134 | 198 | 0 | 0 | 0 |
| Bureau of the Census | 307 | 307 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Inst of Standards & Tech | 38,467 | 33,879 | 592 | 0 | 3,664 | 134 | 198 | 0 | 0 | 0 |
| Department of Defense, total | 1,145,751 | 292,703 | 152,890 | 819 | 647,104 | 4,195 | 38,923 | 343 | 0 | 8,774 |
| Department of the Army | 204,793 | 95,141 | 29,801 | 223 | 74,892 | 312 | 3,014 | 0 | 0 | 1,410 |
| Department of the Navy | 386,754 | 127,969 | 26,706 | 0 | 198,812 | 1,160 | 25,921 | 0 | 0 | 6,186 |
| Department of the Air Force | 233,999 | 57,971 | 42,198 | 0 | 125,593 | 69 | 7,056 | 28 | 0 | 1,084 |
| Defense Agencies, total | 320,205 | 11,622 | 54,185 | 596 | 247,807 | 2,654 | 2,932 | 315 | 0 | 94 |
| Ballistic Missile Defense Organization | 9,316 | 255 | 5,276 | 471 | 3,314 | 0 | 0 | 0 | 0 | 0 |
| Defense Advanced Research Projects Agency ⁵ | 73,948 | 5,012 | 37,281 | 125 | 25,850 | 2,654 | 2,932 | 0 | 0 | 94 |
| Washington Headquarters Svcs ⁶ | 236,941 | 6,355 | 11,628 | 0 | 218,643 | 0 | 0 | 315 | 0 | 0 |
| Department of Education | 2,937 | 155 | 0 | 0 | 1,782 | 0 | 1,000 | 0 | 0 | 0 |
| Department of Energy | 2,034,582 | 68,568 | 103,098 | 241,123 | 439,998 | 1,095,578 | 14,042 | 70,024 | 1,523 | 628 |
| Dept of Health & Human Svcs, total | 6,558,265 | 1,142,062 | 270,264 | 126,193 | 3,928,435 | 17,089 | 972,741 | 10,779 | 63,623 | 27,079 |
| Health Resources & Services Admin | 800 | 800 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Institutes of Health ⁷ | 6,557,465 | 1,141,262 | 270,264 | 126,193 | 3,928,435 | 17,089 | 972,741 | 10,779 | 63,623 | 27,079 |
| Department of the Interior, total | 56,891 | 51,076 | 0 | 0 | 5,715 | 0 | 100 | 0 | 0 | 0 |
| Geological Survey ⁸ | 56,341 | 50,861 | 0 | 0 | 5,480 | 0 | 0 | 0 | 0 | 0 |
| National Park Service ⁹ | 550 | 215 | 0 | 0 | 235 | 0 | 100 | 0 | 0 | 0 |
| Department of Justice, total | 12,400 | 800 | 0 | 0 | 2,200 | 0 | 8,500 | 0 | 900 | 0 |
| Office of Justice Programs | 12,400 | 800 | 0 | 0 | 2,200 | 0 | 8,500 | 0 | 900 | 0 |
| Department of Labor, total | 11,300 | 11,300 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bureau of Labor Statistics | 11,300 | 11,300 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of State | 3,750 | 70 | 0 | 0 | 0 | 0 | 3,680 | 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 1997

[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 institutions | FFRDCs admin by non-profit institutions | State and local govts | |
| Department of Transportation, total | 54,313 | 13 | 20,441 | 150 | 607 | 150 | 12,096 | 0 | 20,856 | 0 |
| Federal Highway Administration | 54,313 | 13 | 20,441 | 150 | 607 | 150 | 12,096 | 0 | 20,856 | 0 |
| Department of the Treasury, total | 29 | 29 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bureau of Engraving & Printing | 29 | 29 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Veterans Affairs | 13,654 | 13,654 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other agencies: | | | | | | | | | | |
| Environmental Protection Agency | 75,085 | 30,582 | 20,434 | 0 | 17,115 | 0 | 5,609 | 0 | 868 | 477 |
| International Development Cooperation Agency, total | 4,870 | 604 | 0 | 0 | 24 | 0 | 3,765 | 0 | 0 | 477 |
| Agency for Internat'l Dvlpmt | 4,870 | 604 | 0 | 0 | 24 | 0 | 3,765 | 0 | 0 | 477 |
| Library of Congress | 458 | 458 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Aeronautics & Space Admin | 1,884,953 | 471,238 | 614,453 | 0 | 480,168 | 257,229 | 56,317 | 1,267 | 834 | 3,447 |
| National Science Foundation | 2,089,619 | 18,410 | 90,202 | 10 | 1,679,735 | 145,331 | 149,142 | 497 | 2,711 | 3,581 |
| Smithsonian Institution | 136,800 | 136,800 | 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 Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 3 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.
- 4 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.
- 5 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.
- 6 Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
- 7 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.
- 8 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.
- 9 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.

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: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

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Table C-30. Federal obligations for basic research, by detailed field of science and engineering: fiscal years 1995, 1996, and 1997

[Dollars in thousands]

Page 1 of 1

| Field of science and engineering | 1995 | Preliminary | |
|--|------------|-------------|------------|
| | | 1996 | 1997 |
| Total, all fields | 13,895,493 | 14,482,056 | 14,732,254 |
| Life sciences, total | 6,645,283 | 6,896,148 | 7,043,376 |
| Biological (excluding environmental) | 3,198,638 | NA | NA |
| Environmental biology | 289,807 | NA | NA |
| Agricultural | 367,401 | NA | NA |
| Medical | 2,640,553 | NA | NA |
| Life sciences, n.e.c. | 148,884 | NA | NA |
| Psychology, total | 275,539 | 288,588 | 294,389 |
| Biological aspects | 28,925 | NA | NA |
| Social aspects | 22,230 | NA | NA |
| Psychological sciences, n.e.c. | 224,384 | NA | NA |
| Physical sciences, total | 2,863,026 | 3,160,678 | 3,185,627 |
| Astronomy | 732,010 | NA | NA |
| Chemistry | 557,111 | NA | NA |
| Physics | 1,507,490 | NA | NA |
| Physical sciences, n.e.c. | 66,415 | NA | NA |
| Environmental sciences, total | 1,473,207 | 1,512,734 | 1,496,014 |
| Atmospheric | 694,057 | NA | NA |
| Geological | 453,709 | NA | NA |
| Oceanography | 185,887 | NA | NA |
| Environmental sciences, n.e.c. | 139,554 | NA | NA |
| Mathematics & computer sciences, total | 553,962 | 597,844 | 604,331 |
| Mathematics | 264,583 | NA | NA |
| Computer sciences | 264,292 | NA | NA |
| Mathematics & computer sciences, n.e.c. | 25,087 | NA | NA |
| Engineering, total | 1,468,073 | 1,392,499 | 1,453,230 |
| Aeronautical | 270,945 | NA | NA |
| Astronautical | 64,711 | NA | NA |
| Chemical | 65,511 | NA | NA |
| Civil | 71,144 | NA | NA |
| Electrical | 213,562 | NA | NA |
| Mechanical | 169,880 | NA | NA |
| Metallurgy & materials | 346,080 | NA | NA |
| Engineering, n.e.c. | 266,240 | NA | NA |
| Social sciences, total | 209,479 | 214,536 | 226,743 |
| Anthropology | 15,468 | NA | NA |
| Economics | 44,134 | NA | NA |
| Political science | 8,904 | NA | NA |
| Sociology | 14,976 | NA | NA |
| Social sciences, n.e.c. | 125,997 | NA | NA |
| Other sciences, n.e.c. | 406,924 | 419,029 | 428,544 |

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 National Aeronautics and Space Administration has made a statistical adjustment to the 1994, 1995, 1996, and 1997 field of science and engineering values to diminish a computational error introduced by its software.

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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-31. Federal obligations for basic research, by agency and field of science and engineering: fiscal year 1995

[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 | 13,895,493 | 6,645,283 | 275,539 | 2,863,026 | 1,473,207 | 553,962 | 1,468,073 | 209,479 | 406,924 |
| Departments: | | | | | | | | | |
| Department of Agriculture, total | 594,903 | 510,029 | 45 | 40,782 | 4,128 | 3,504 | 14,775 | 21,394 | 246 |
| Agricultural Research Service ¹ | 368,966 | 333,415 | 0 | 28,592 | 2,257 | 1,637 | 3,065 | 0 | 0 |
| Cooperative State Research, Education, & Extension Service ² | 185,992 | 153,354 | 0 | 10,001 | 1,160 | 0 | 6,903 | 14,574 | 0 |
| Economic Research Service | 5,383 | 0 | 0 | 0 | 0 | 0 | 0 | 5,383 | 0 |
| Foreign Agricultural Service ³ | 343 | 343 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Forest Service | 32,897 | 22,917 | 45 | 2,189 | 711 | 545 | 4,807 | 1,437 | 246 |
| Nat'l Agricultural Statistics Svc | 1,322 | 0 | 0 | 0 | 0 | 1,322 | 0 | 0 | 0 |
| Department of Commerce, total | 39,258 | 313 | 59 | 28,275 | 275 | 696 | 9,640 | 0 | 0 |
| Bureau of the Census | 312 | 0 | 59 | 0 | 0 | 253 | 0 | 0 | 0 |
| National Inst of Standards & Tech | 38,946 | 313 | 0 | 28,275 | 275 | 443 | 9,640 | 0 | 0 |
| Department of Defense, total | 1,264,113 | 176,632 | 27,853 | 204,130 | 164,849 | 163,879 | 512,033 | 0 | 14,737 |
| Department of the Army | 218,790 | 59,376 | 5,256 | 38,983 | 21,623 | 19,829 | 72,542 | 0 | 1,181 |
| Department of the Navy | 409,419 | 38,685 | 18,028 | 77,039 | 100,157 | 44,239 | 121,043 | 0 | 10,228 |
| Department of the Air Force | 206,776 | 18,450 | 871 | 51,633 | 22,925 | 29,710 | 82,185 | 0 | 1,002 |
| Defense Agencies, total | 429,128 | 60,121 | 3,698 | 36,475 | 20,144 | 70,101 | 236,263 | 0 | 2,326 |
| Ballistic Missile Defense Organization | 10,742 | 0 | 0 | 2,218 | 0 | 0 | 8,524 | 0 | 0 |
| Defense Advanced Research Projects Agency ⁴ | 94,587 | 0 | 0 | 2,444 | 0 | 29,323 | 60,494 | 0 | 2,326 |
| Washington Headquarters Svcs ⁵ | 323,799 | 60,121 | 3,698 | 31,813 | 20,144 | 40,778 | 167,245 | 0 | 0 |
| Department of Education | 5,535 | 1,439 | 0 | 0 | 0 | 0 | 0 | 4,096 | 0 |
| Department of Energy | 1,634,353 | 175,609 | 0 | 1,080,936 | 148,234 | 113,599 | 114,843 | 0 | 1,132 |
| Dept of Health & Human Svcs, total | 6,061,057 | 5,277,303 | 229,670 | 119,539 | 12,307 | 30,982 | 92,277 | 61,816 | 237,163 |
| Health Resources & Services Admin | 1,010 | 1,010 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Institutes of Health ⁶ | 6,060,047 | 5,276,293 | 229,670 | 119,539 | 12,307 | 30,982 | 92,277 | 61,816 | 237,163 |
| Department of the Interior, total | 55,179 | 13,000 | 0 | 530 | 41,649 | 0 | 0 | 0 | 0 |
| Geological Survey ⁷ | 41,649 | 0 | 0 | 0 | 41,649 | 0 | 0 | 0 | 0 |
| National Biological Service ^{8 7} | 13,000 | 13,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Park Service ⁸ | 530 | 0 | 0 | 530 | 0 | 0 | 0 | 0 | 0 |
| Department of Justice, total | 8,121 | 750 | 1,027 | 0 | 0 | 0 | 0 | 4,769 | 1,575 |
| Office of Justice Programs | 8,121 | 750 | 1,027 | 0 | 0 | 0 | 0 | 4,769 | 1,575 |
| Department of Labor, total | 11,600 | 0 | 0 | 0 | 0 | 0 | 0 | 11,600 | 0 |
| Bureau of Labor Statistics | 11,600 | 0 | 0 | 0 | 0 | 0 | 0 | 11,600 | 0 |
| Department of State | 4,510 | 0 | 0 | 0 | 0 | 0 | 0 | 4,510 | 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 1995

[Dollars in thousands]

| Agency and subdivision | Total | Life sciences | Psychology | Physical sciences | Environmental sciences | Mathematics and computer sciences | Engineering | Social sciences | Other sciences, n.e.c. |
|---|-----------|---------------|------------|-------------------|------------------------|-----------------------------------|-------------|-----------------|------------------------|
| Department of Transportation, total | 46,880 | 54 | 844 | 0 | 1,018 | 17,846 | 21,579 | 1,429 | 4,110 |
| Federal Highway Administration | 46,880 | 54 | 844 | 0 | 1,018 | 17,846 | 21,579 | 1,429 | 4,110 |
| Department of the Treasury, total | 41 | 0 | 0 | 41 | 0 | 0 | 0 | 0 | 0 |
| Bureau of Engraving & Printing | 41 | 0 | 0 | 41 | 0 | 0 | 0 | 0 | 0 |
| Department of Veterans Affairs | 12,390 | 11,790 | 600 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other agencies: | | | | | | | | | |
| Environmental Protection Agency | 70,297 | 19,434 | 0 | 0 | 30,083 | 0 | 20,780 | 0 | 0 |
| International Development Cooperation Agency, total | 2,297 | 2,297 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Agency for Internat'l Dvlpmt | 2,297 | 2,297 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Library of Congress | 512 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 512 |
| Nat'l Aeronautics & Space Admin ⁹ | 1,978,193 | 77,504 | 3,594 | 881,977 | 633,858 | 23,207 | 336,056 | 364 | 21,633 |
| National Science Foundation | 1,973,264 | 323,987 | 11,847 | 467,914 | 431,320 | 200,249 | 346,090 | 67,524 | 124,333 |
| Smithsonian Institution | 124,000 | 46,637 | 0 | 38,417 | 5,486 | 0 | 0 | 31,977 | 1,483 |
| Tennessee Valley Authority | 8,990 | 8,505 | 0 | 485 | 0 | 0 | 0 | 0 | 0 |

- 1 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 2 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.
- 3 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.
- 4 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.
- 5 Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
- 6 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.
- 7 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.
- 8 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.
- 9 The National Aeronautics and Space Administration has made a statistical adjustment to the 1994, 1995, 1996, and 1997 field of science and engineering values to diminish a computational error introduced by its software.

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: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-32. Preliminary Federal obligations for basic research, by agency and field of science and engineering: fiscal year 1996

[Dollars in thousands]

Page 1 of 2

| 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 | 14,482,056 | 6,896,148 | 288,588 | 3,160,678 | 1,512,734 | 597,844 | 1,392,499 | 214,536 | 419,029 |
| Departments: | | | | | | | | | |
| Department of Agriculture, total | 586,329 | 500,594 | 41 | 42,635 | 4,220 | 3,242 | 14,576 | 20,795 | 226 |
| Agricultural Research Service ¹ | 367,666 | 329,418 | 0 | 30,936 | 2,450 | 1,461 | 3,401 | 0 | 0 |
| Cooperative State Research, Education, & Extension Service ² | 180,744 | 149,029 | 0 | 9,685 | 1,117 | 0 | 6,753 | 14,160 | 0 |
| Economic Research Service | 5,313 | 0 | 0 | 0 | 0 | 0 | 0 | 5,313 | 0 |
| Foreign Agricultural Service ³ | 1,067 | 1,067 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Forest Service | 30,260 | 21,080 | 41 | 2,014 | 653 | 502 | 4,422 | 1,322 | 226 |
| Nat'l Agricultural Statistics Svc | 1,279 | 0 | 0 | 0 | 0 | 1,279 | 0 | 0 | 0 |
| Department of Commerce, total | 37,529 | 267 | 58 | 30,486 | 293 | 1,314 | 5,111 | 0 | 0 |
| Bureau of the Census | 307 | 0 | 58 | 0 | 0 | 249 | 0 | 0 | 0 |
| National Inst of Standards & Tech | 37,222 | 267 | 0 | 30,486 | 293 | 1,065 | 5,111 | 0 | 0 |
| Department of Defense, total | 1,134,158 | 107,563 | 26,854 | 199,957 | 145,594 | 216,121 | 424,404 | 0 | 13,665 |
| Department of the Army | 190,418 | 29,483 | 5,160 | 32,034 | 15,952 | 31,217 | 76,178 | 0 | 394 |
| Department of the Navy | 373,175 | 30,781 | 15,671 | 72,340 | 91,330 | 40,440 | 110,433 | 0 | 12,180 |
| Department of the Air Force | 233,793 | 22,659 | 802 | 49,525 | 20,997 | 28,810 | 109,909 | 0 | 1,091 |
| Defense Agencies, total | 336,772 | 24,640 | 5,221 | 46,058 | 17,315 | 115,654 | 127,884 | 0 | 0 |
| Ballistic Missile Defense Organization | 7,902 | 0 | 0 | 4,048 | 0 | 0 | 3,854 | 0 | 0 |
| Defense Advanced Research Projects Agency ⁴ | 65,971 | 0 | 0 | 2,856 | 0 | 17,950 | 45,165 | 0 | 0 |
| Washington Headquarters Svcs ⁵ | 262,899 | 24,640 | 5,221 | 39,154 | 17,315 | 97,704 | 78,865 | 0 | 0 |
| Department of Education | 3,459 | 526 | 0 | 0 | 0 | 0 | 0 | 2,933 | 0 |
| Department of Energy | 1,956,610 | 170,062 | 0 | 1,356,479 | 201,081 | 103,854 | 124,090 | 0 | 1,044 |
| Dept of Health & Human Svcs, total | 6,441,509 | 5,608,577 | 244,096 | 126,878 | 12,881 | 32,847 | 97,896 | 65,864 | 252,470 |
| Administration on Aging | 171 | 0 | 0 | 0 | 0 | 0 | 0 | 171 | 0 |
| Health Resources & Services Admin | 800 | 800 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Institutes of Health ⁶ | 6,440,538 | 5,607,777 | 244,096 | 126,878 | 12,881 | 32,847 | 97,896 | 65,693 | 252,470 |
| Department of the Interior, total | 55,863 | 10,988 | 0 | 403 | 44,472 | 0 | 0 | 0 | 0 |
| Geological Survey ⁷ | 55,460 | 10,988 | 0 | 0 | 44,472 | 0 | 0 | 0 | 0 |
| National Park Service ⁸ | 403 | 0 | 0 | 403 | 0 | 0 | 0 | 0 | 0 |
| Department of Justice, total | 8,300 | 1,000 | 1,000 | 0 | 0 | 0 | 0 | 5,500 | 800 |
| Office of Justice Programs | 8,300 | 1,000 | 1,000 | 0 | 0 | 0 | 0 | 5,500 | 800 |
| Department of Labor, total | 11,500 | 0 | 0 | 0 | 0 | 0 | 0 | 11,500 | 0 |
| Bureau of Labor Statistics | 11,500 | 0 | 0 | 0 | 0 | 0 | 0 | 11,500 | 0 |
| Department of State | 3,750 | 0 | 0 | 0 | 0 | 0 | 0 | 3,750 | 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 1996

[Dollars in thousands]

| Agency and subdivision | Total | Life sciences | Psychology | Physical sciences | Environmental sciences | Mathematics and computer sciences | Engineering | Social sciences | Other sciences, n.e.c. |
|---|-----------|---------------|------------|-------------------|------------------------|-----------------------------------|-------------|-----------------|------------------------|
| Department of Transportation, total | 45,721 | 144 | 50 | 0 | 1,037 | 16,994 | 21,674 | 1,589 | 4,233 |
| Federal Highway Administration | 45,721 | 144 | 50 | 0 | 1,037 | 16,994 | 21,674 | 1,589 | 4,233 |
| Department of the Treasury, total | 53 | 0 | 0 | 53 | 0 | 0 | 0 | 0 | 0 |
| Bureau of Engraving & Printing | 53 | 0 | 0 | 53 | 0 | 0 | 0 | 0 | 0 |
| Department of Veterans Affairs | 14,372 | 13,751 | 621 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other agencies: | | | | | | | | | |
| Environmental Protection Agency | 65,914 | 18,233 | 0 | 0 | 28,199 | 0 | 19,482 | 0 | 0 |
| International Development Cooperation Agency, total | 2,444 | 2,227 | 0 | 0 | 0 | 0 | 0 | 140 | 77 |
| Agency for Internat'l Dvlpmt | 2,444 | 2,227 | 0 | 0 | 0 | 0 | 0 | 140 | 77 |
| Library of Congress | 442 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 442 |
| Nat'l Aeronautics & Space Admin ⁹ | 2,009,237 | 78,721 | 3,650 | 895,819 | 643,805 | 23,570 | 341,330 | 370 | 21,972 |
| National Science Foundation | 1,967,676 | 323,380 | 12,218 | 471,952 | 425,377 | 199,902 | 343,936 | 68,416 | 122,495 |
| Smithsonian Institution | 125,400 | 48,915 | 0 | 35,426 | 5,775 | 0 | 0 | 33,679 | 1,605 |
| Tennessee Valley Authority | 11,790 | 11,200 | 0 | 590 | 0 | 0 | 0 | 0 | 0 |

- 1 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 2 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.
- 3 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.
- 4 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.
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- 8 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.
- 9 The National Aeronautics and Space Administration has made a statistical adjustment to the 1994, 1995, 1996, and 1997 field of science and engineering values to diminish a computational error introduced by its software.

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: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-33. Preliminary Federal obligations for basic research, by agency and field of science and engineering: fiscal year 1997

[Dollars in thousands]

Page 1 of 2

| 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 | 14,732,254 | 7,043,376 | 294,389 | 3,185,627 | 1,496,014 | 604,331 | 1,453,230 | 226,743 | 428,544 |
| Departments: | | | | | | | | | |
| Department of Agriculture, total | 607,823 | 523,946 | 42 | 42,609 | 4,023 | 3,265 | 13,537 | 20,173 | 228 |
| Agricultural Research Service ¹ | 376,173 | 337,925 | 0 | 30,936 | 2,450 | 1,461 | 3,401 | 0 | 0 |
| Cooperative State Research, Education, & Extension Service ² | 193,227 | 163,662 | 0 | 9,639 | 913 | 0 | 5,671 | 13,342 | 0 |
| Economic Research Service | 5,495 | 0 | 0 | 0 | 0 | 0 | 0 | 5,495 | 0 |
| Foreign Agricultural Service ³ | 1,067 | 1,067 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Forest Service | 30,564 | 21,292 | 42 | 2,034 | 660 | 507 | 4,465 | 1,336 | 228 |
| Nat'l Agricultural Statistics Svc | 1,297 | 0 | 0 | 0 | 0 | 1,297 | 0 | 0 | 0 |
| Department of Commerce, total | 38,774 | 272 | 58 | 31,449 | 299 | 1,336 | 5,360 | 0 | 0 |
| Bureau of the Census | 307 | 0 | 58 | 0 | 0 | 249 | 0 | 0 | 0 |
| National Inst of Standards & Tech | 38,467 | 272 | 0 | 31,449 | 299 | 1,087 | 5,360 | 0 | 0 |
| Department of Defense, total | 1,145,751 | 106,069 | 27,742 | 194,326 | 138,151 | 190,562 | 474,311 | 784 | 13,806 |
| Department of the Army | 204,793 | 32,724 | 5,568 | 34,090 | 14,654 | 41,391 | 75,582 | 784 | 0 |
| Department of the Navy | 386,754 | 30,697 | 16,296 | 75,227 | 94,975 | 42,054 | 114,840 | 0 | 12,665 |
| Department of the Air Force | 233,999 | 25,621 | 785 | 52,888 | 12,023 | 27,420 | 114,121 | 0 | 1,141 |
| Defense Agencies, total | 320,205 | 17,027 | 5,093 | 32,121 | 16,499 | 79,697 | 169,768 | 0 | 0 |
| Ballistic Missile Defense Organization | 9,316 | 0 | 0 | 4,977 | 0 | 0 | 4,339 | 0 | 0 |
| Defense Advanced Research Projects Agency ⁴ | 73,948 | 0 | 0 | 1,178 | 0 | 23,733 | 49,037 | 0 | 0 |
| Washington Headquarters Svcs ⁵ | 236,941 | 17,027 | 5,093 | 25,966 | 16,499 | 55,964 | 116,392 | 0 | 0 |
| Department of Education | 2,937 | 0 | 0 | 0 | 0 | 0 | 0 | 2,937 | 0 |
| Department of Energy | 2,034,582 | 181,207 | 0 | 1,408,973 | 202,212 | 118,287 | 123,236 | 0 | 667 |
| Dept of Health & Human Svcs, total | 6,558,265 | 5,710,385 | 248,528 | 129,182 | 13,115 | 33,443 | 99,673 | 66,885 | 257,054 |
| Health Resources & Services Admin | 800 | 800 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Institutes of Health ⁶ | 6,557,465 | 5,709,585 | 248,528 | 129,182 | 13,115 | 33,443 | 99,673 | 66,885 | 257,054 |
| Department of the Interior, total | 56,891 | 12,000 | 0 | 550 | 44,341 | 0 | 0 | 0 | 0 |
| Geological Survey ⁷ | 56,341 | 12,000 | 0 | 0 | 44,341 | 0 | 0 | 0 | 0 |
| National Park Service ⁸ | 550 | 0 | 0 | 550 | 0 | 0 | 0 | 0 | 0 |
| Department of Justice, total | 12,400 | 1,000 | 1,000 | 0 | 0 | 0 | 0 | 10,100 | 300 |
| Office of Justice Programs | 12,400 | 1,000 | 1,000 | 0 | 0 | 0 | 0 | 10,100 | 300 |
| Department of Labor, total | 11,300 | 0 | 0 | 0 | 0 | 0 | 0 | 11,300 | 0 |
| Bureau of Labor Statistics | 11,300 | 0 | 0 | 0 | 0 | 0 | 0 | 11,300 | 0 |
| Department of State | 3,750 | 0 | 0 | 0 | 0 | 0 | 0 | 3,750 | 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 1997

[Dollars in thousands]

| Agency and subdivision | Total | Life sciences | Psychology | Physical sciences | Environmental sciences | Mathematics and computer sciences | Engineering | Social sciences | Other sciences, n.e.c. |
|---|-----------|---------------|------------|-------------------|------------------------|-----------------------------------|-------------|-----------------|------------------------|
| Department of Transportation, total | 54,313 | 166 | 34 | 0 | 1,142 | 23,011 | 23,682 | 1,462 | 4,816 |
| Federal Highway Administration | 54,313 | 166 | 34 | 0 | 1,142 | 23,011 | 23,682 | 1,462 | 4,816 |
| Department of the Treasury, total | 29 | 0 | 0 | 29 | 0 | 0 | 0 | 0 | 0 |
| Bureau of Engraving & Printing | 29 | 0 | 0 | 29 | 0 | 0 | 0 | 0 | 0 |
| Department of Veterans Affairs | 13,654 | 13,054 | 600 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other agencies: | | | | | | | | | |
| Environmental Protection Agency | 75,085 | 20,770 | 0 | 0 | 32,123 | 0 | 22,192 | 0 | 0 |
| International Development Cooperation Agency, total | 4,870 | 4,790 | 0 | 0 | 0 | 0 | 0 | 0 | 80 |
| Agency for Internat'l Dvlpmt | 4,870 | 4,790 | 0 | 0 | 0 | 0 | 0 | 0 | 80 |
| Library of Congress | 458 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 458 |
| Nat'l Aeronautics & Space Admin ⁹ | 1,884,953 | 73,851 | 3,424 | 840,406 | 603,983 | 22,112 | 320,217 | 347 | 20,613 |
| National Science Foundation | 2,089,619 | 342,545 | 12,961 | 499,650 | 450,218 | 212,315 | 371,022 | 72,146 | 128,762 |
| Smithsonian Institution | 136,800 | 53,321 | 0 | 38,453 | 6,407 | 0 | 0 | 36,859 | 1,760 |

- 1 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 2 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.
- 3 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.
- 4 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.
- 5 Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
- 6 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.
- 7 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.
- 8 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.
- 9 The National Aeronautics and Space Administration has made a statistical adjustment to the 1994, 1995, 1996, and 1997 field of science and engineering values to diminish a computational error introduced by its software.

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: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-34. Federal obligations for basic research in psychology and life sciences, by agency and detailed field of science: fiscal year 1995

[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 | 275,539 | 28,925 | 22,230 | 224,384 | 6,645,283 | 3,198,638 | 289,807 | 367,401 | 2,640,553 | 148,884 |
| Departments: | | | | | | | | | | |
| Department of Agriculture, total | 45 | 0 | 45 | 0 | 510,029 | 76,034 | 60,318 | 358,282 | 15,389 | 6 |
| Agricultural Research Service ¹ | 0 | 0 | 0 | 0 | 333,415 | 22,279 | 22,593 | 279,797 | 8,740 | 6 |
| Cooperative State Research, Education, & Extension Service ² | 0 | 0 | 0 | 0 | 153,354 | 47,445 | 23,326 | 77,661 | 4,922 | 0 |
| Foreign Agricultural Service ³ | 0 | 0 | 0 | 0 | 343 | 0 | 0 | 343 | 0 | 0 |
| Forest Service | 45 | 0 | 45 | 0 | 22,917 | 6,310 | 14,399 | 481 | 1,727 | 0 |
| Department of Commerce, total | 59 | 0 | 59 | 0 | 313 | 313 | 0 | 0 | 0 | 0 |
| Bureau of the Census | 59 | 0 | 59 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Inst of Standards & Tech | 0 | 0 | 0 | 0 | 313 | 313 | 0 | 0 | 0 | 0 |
| Department of Defense, total | 27,853 | 10,525 | 9,579 | 7,749 | 176,632 | 42,149 | 44,915 | 0 | 85,843 | 3,725 |
| Department of the Army | 5,256 | 0 | 2,870 | 2,386 | 59,376 | 5,106 | 890 | 0 | 49,808 | 3,572 |
| Department of the Navy | 18,028 | 8,998 | 6,456 | 2,574 | 38,685 | 18,254 | 12,175 | 0 | 8,256 | 0 |
| Department of the Air Force | 871 | 281 | 253 | 337 | 18,450 | 12,073 | 6,377 | 0 | 0 | 0 |
| Defense Agencies, total | 3,698 | 1,246 | 0 | 2,452 | 60,121 | 6,716 | 25,473 | 0 | 27,779 | 153 |
| Washington Headquarters Svcs ⁴ | 3,698 | 1,246 | 0 | 2,452 | 60,121 | 6,716 | 25,473 | 0 | 27,779 | 153 |
| Department of Education | 0 | 0 | 0 | 0 | 1,439 | 0 | 0 | 0 | 0 | 1,439 |
| Department of Energy | 0 | 0 | 0 | 0 | 175,609 | 170,645 | 332 | 0 | 0 | 4,632 |
| Dept of Health & Human Svcs, total | 229,670 | 14,594 | 4,888 | 210,188 | 5,277,303 | 2,585,299 | 48,146 | 0 | 2,521,452 | 122,406 |
| Health Resources & Services Admin | 0 | 0 | 0 | 0 | 1,010 | 0 | 0 | 0 | 1,010 | 0 |
| National Institutes of Health ⁵ | 229,670 | 14,594 | 4,888 | 210,188 | 5,276,293 | 2,585,299 | 48,146 | 0 | 2,520,442 | 122,406 |
| Department of the Interior, total | 0 | 0 | 0 | 0 | 13,000 | 6,890 | 6,110 | 0 | 0 | 0 |
| National Biological Service ^{6,7} | 0 | 0 | 0 | 0 | 13,000 | 6,890 | 6,110 | 0 | 0 | 0 |
| Department of Justice, total | 1,027 | 542 | 250 | 235 | 750 | 400 | 0 | 0 | 0 | 350 |
| Office of Justice Programs | 1,027 | 542 | 250 | 235 | 750 | 400 | 0 | 0 | 0 | 350 |
| Department of Transportation, total | 844 | 0 | 111 | 733 | 54 | 0 | 11 | 43 | 0 | 0 |
| Federal Highway Administration | 844 | 0 | 111 | 733 | 54 | 0 | 11 | 43 | 0 | 0 |
| Department of Veterans Affairs | 600 | 600 | 0 | 0 | 11,790 | 4,877 | 0 | 0 | 6,913 | 0 |
| Other agencies: | | | | | | | | | | |
| Environmental Protection Agency | 0 | 0 | 0 | 0 | 19,434 | 0 | 15,748 | 0 | 3,686 | 0 |
| International Development Cooperation Agency, total | 0 | 0 | 0 | 0 | 2,297 | 0 | 1,975 | 0 | 0 | 322 |
| Agency for Internat'l Dvlpmnt | 0 | 0 | 0 | 0 | 2,297 | 0 | 1,975 | 0 | 0 | 322 |
| Nat'l Aeronautics & Space Admin ⁸ | 3,594 | 68 | 421 | 3,105 | 77,504 | 57,289 | 4,046 | 571 | 7,270 | 8,328 |
| National Science Foundation | 11,847 | 2,596 | 6,877 | 2,374 | 323,987 | 234,838 | 81,473 | 0 | 0 | 7,676 |
| Smithsonian Institution | 0 | 0 | 0 | 0 | 46,637 | 19,904 | 26,733 | 0 | 0 | 0 |
| Tennessee Valley Authority | 0 | 0 | 0 | 0 | 8,505 | 0 | 0 | 8,505 | 0 | 0 |

¹ The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

² 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.

³ 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.

⁴ Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

⁵ 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

⁶ 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.

⁷ 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.

⁸ The National Aeronautics and Space Administration has made a statistical adjustment to the 1994, 1995, 1996, and 1997 field of science and engineering values to diminish a computational error introduced by its software.

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.

n.e.c. = Not elsewhere classified

Table C-35. Federal obligations for basic research in physical and environmental sciences, by agency and detailed field of science: fiscal year 1995

[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 | 2,863,026 | 732,010 | 557,111 | 1,507,490 | 66,415 | 1,473,207 | 694,057 | 453,709 | 185,887 | 139,554 |
| Departments: | | | | | | | | | | |
| Department of Agriculture, total | 40,782 | 0 | 39,369 | 1,413 | 0 | 4,128 | 3,918 | 205 | 0 | 5 |
| Agricultural Research Service ¹ | 28,592 | 0 | 27,530 | 1,062 | 0 | 2,257 | 2,152 | 100 | 0 | 5 |
| Cooperative State Research, Education, & Extension Service ² | 10,001 | 0 | 10,001 | 0 | 0 | 1,160 | 1,160 | 0 | 0 | 0 |
| Forest Service | 2,189 | 0 | 1,838 | 351 | 0 | 711 | 606 | 105 | 0 | 0 |
| Department of Commerce, total | 28,275 | 860 | 11,616 | 15,799 | 0 | 275 | 0 | 275 | 0 | 0 |
| National Inst of Standards & Tech | 28,275 | 860 | 11,616 | 15,799 | 0 | 275 | 0 | 275 | 0 | 0 |
| Department of Defense, total | 204,130 | 8,228 | 87,838 | 101,166 | 6,898 | 164,849 | 44,935 | 43,303 | 66,872 | 9,739 |
| Department of the Army | 38,983 | 0 | 12,953 | 21,818 | 4,212 | 21,623 | 8,512 | 3,056 | 566 | 9,489 |
| Department of the Navy | 77,039 | 4,500 | 30,490 | 42,049 | 0 | 100,157 | 17,702 | 25,863 | 56,592 | 0 |
| Department of the Air Force | 51,633 | 3,275 | 28,992 | 18,793 | 573 | 22,925 | 11,593 | 11,332 | 0 | 0 |
| Defense Agencies, total | 36,475 | 453 | 15,403 | 18,506 | 2,113 | 20,144 | 7,128 | 3,052 | 9,714 | 250 |
| Ballistic Missile Defense Organization | | | | | | | | | | |
| Defense Advanced Research Projects Agency ³ | 2,444 | 0 | 2,444 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Washington Headquarters Svcs ⁴ | 31,813 | 453 | 12,099 | 17,148 | 2,113 | 20,144 | 7,128 | 3,052 | 9,714 | 250 |
| Department of Energy | 1,080,936 | 0 | 129,766 | 951,082 | 88 | 148,234 | 88,684 | 51,600 | 6,748 | 1,202 |
| Dept of Health & Human Svcs, total | 119,539 | 0 | 106,105 | 13,434 | 0 | 12,307 | 0 | 0 | 0 | 12,307 |
| National Institutes of Health ⁵ | 119,539 | 0 | 106,105 | 13,434 | 0 | 12,307 | 0 | 0 | 0 | 12,307 |
| Department of the Interior, total | 530 | 0 | 530 | 0 | 0 | 41,649 | 0 | 41,649 | 0 | 0 |
| Geological Survey ⁶ | 0 | 0 | 0 | 0 | 0 | 41,649 | 0 | 41,649 | 0 | 0 |
| National Park Service ⁷ | 530 | 0 | 530 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Transportation, total | 0 | 0 | 0 | 0 | 0 | 1,018 | 593 | 23 | 0 | 402 |
| Federal Highway Administration | 0 | 0 | 0 | 0 | 0 | 1,018 | 593 | 23 | 0 | 402 |
| Department of the Treasury, total | 41 | 0 | 10 | 31 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bureau of Engraving & Printing | 41 | 0 | 10 | 31 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other agencies: | | | | | | | | | | |
| Environmental Protection Agency | 0 | 0 | 0 | 0 | 0 | 30,083 | 14,029 | 1,958 | 0 | 14,096 |
| Nat'l Aeronautics & Space Admin ⁸ | 881,977 | 560,217 | 41,006 | 255,484 | 25,270 | 633,858 | 392,639 | 163,461 | 34,222 | 43,536 |
| National Science Foundation | 467,914 | 126,196 | 139,774 | 167,785 | 34,159 | 431,320 | 149,182 | 146,187 | 77,684 | 58,267 |
| Smithsonian Institution | 38,417 | 36,509 | 612 | 1,296 | 0 | 5,486 | 77 | 5,048 | 361 | 0 |
| Tennessee Valley Authority | 485 | 0 | 485 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

- 1 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 2 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.
- 3 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.
- 4 Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
- 5 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.
- 6 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.
- 7 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.
- 8 The National Aeronautics and Space Administration has made a statistical adjustment to the 1994, 1995, 1996, and 1997 field of science and engineering values to diminish a computational error introduced by its software.

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: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-36. Federal obligations for basic research in engineering, by agency and detailed field of engineering: fiscal year 1995

[Dollars in thousands]

Page 1 of 1

| 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 | 1,468,073 | 270,945 | 64,711 | 65,511 | 71,144 | 213,562 | 169,880 | 346,080 | 266,240 |
| Departments: | | | | | | | | | |
| Department of Agriculture, total | 14,775 | 0 | 0 | 2,358 | 871 | 223 | 489 | 0 | 10,834 |
| Agricultural Research Service ¹ | 3,065 | 0 | 0 | 1,682 | 549 | 216 | 238 | 0 | 380 |
| Cooperative State Research, Education, & Extension Service ² | 6,903 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6,903 |
| Forest Service | 4,807 | 0 | 0 | 676 | 322 | 7 | 251 | 0 | 3,551 |
| Department of Commerce, total | 9,640 | 0 | 0 | 644 | 1,548 | 549 | 1,090 | 1,260 | 4,549 |
| National Inst of Standards & Tech | 9,640 | 0 | 0 | 644 | 1,548 | 549 | 1,090 | 1,260 | 4,549 |
| Department of Defense, total | 512,033 | 34,107 | 2,703 | 5,753 | 11,485 | 160,454 | 98,643 | 136,547 | 62,341 |
| Department of the Army | 72,542 | 8,823 | 0 | 2,108 | 9,237 | 26,284 | 9,776 | 15,087 | 1,227 |
| Department of the Navy | 121,043 | 0 | 0 | 0 | 0 | 40,667 | 42,253 | 38,123 | 0 |
| Department of the Air Force | 82,185 | 11,746 | 2,703 | 0 | 0 | 21,024 | 12,108 | 14,525 | 20,079 |
| Defense Agencies, total | 236,263 | 13,538 | 0 | 3,645 | 2,248 | 72,479 | 34,506 | 68,812 | 41,035 |
| Ballistic Missile Defense Organization | 8,524 | 7,016 | 0 | 0 | 0 | 1,508 | 0 | 0 | 0 |
| Defense Advanced Research Projects Agency ³ | 60,494 | 0 | 0 | 223 | 740 | 11,342 | 0 | 36,503 | 11,686 |
| Washington Headquarters Svcs ⁴ | 167,245 | 6,522 | 0 | 3,422 | 1,508 | 59,629 | 34,506 | 32,309 | 29,349 |
| Department of Energy | 114,843 | 0 | 5,860 | 22,506 | 262 | 648 | 15,713 | 59,543 | 10,311 |
| Dept of Health & Human Svcs, total | 92,277 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 92,277 |
| National Institutes of Health ⁵ | 92,277 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 92,277 |
| Department of Transportation, total | 21,579 | 0 | 0 | 16 | 20,460 | 23 | 368 | 318 | 394 |
| Federal Highway Administration | 21,579 | 0 | 0 | 16 | 20,460 | 23 | 368 | 318 | 394 |
| Other agencies: | | | | | | | | | |
| Environmental Protection Agency | 20,780 | 0 | 0 | 458 | 0 | 0 | 0 | 0 | 20,322 |
| Nat'l Aeronautics & Space Admin ⁶ | 336,056 | 236,838 | 56,148 | 2,409 | 198 | 6,089 | 9,886 | 14,865 | 9,623 |
| National Science Foundation | 346,090 | 0 | 0 | 31,367 | 36,320 | 45,576 | 43,691 | 133,547 | 55,589 |

- ¹ The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- ² 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.
- ³ 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.
- ⁴ Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
- ⁵ 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.
- ⁶ The National Aeronautics and Space Administration has made a statistical adjustment to the 1994, 1995, 1996, and 1997 field of science and engineering values to diminish a computational error introduced by its software.

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SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

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 1995

[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 | 553,962 | 264,583 | 264,292 | 25,087 | 209,479 | 15,468 | 44,134 | 8,904 | 14,976 | 125,997 |
| Departments: | | | | | | | | | | |
| Department of Agriculture, total | 3,504 | 1,931 | 1,573 | 0 | 21,394 | 39 | 18,301 | 0 | 3,054 | 0 |
| Agricultural Research Service ¹ | 1,637 | 64 | 1,573 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cooperative State Research, Education, & Extension Service ² | 0 | 0 | 0 | 0 | 14,574 | 0 | 11,658 | 0 | 2,916 | 0 |
| Economic Research Service | 0 | 0 | 0 | 0 | 5,383 | 0 | 5,383 | 0 | 0 | 0 |
| Forest Service | 545 | 545 | 0 | 0 | 1,437 | 39 | 1,260 | 0 | 138 | 0 |
| Nat'l Agricultural Statistics Svc | 1,322 | 1,322 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Commerce, total | 696 | 253 | 443 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bureau of the Census | 253 | 253 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Inst of Standards & Tech | 443 | 0 | 443 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Defense, total | 163,879 | 60,326 | 100,099 | 3,454 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of the Army | 19,829 | 8,599 | 10,169 | 1,061 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of the Navy | 44,239 | 23,370 | 20,869 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of the Air Force | 29,710 | 20,150 | 7,167 | 2,393 | 0 | 0 | 0 | 0 | 0 | 0 |
| Defense Agencies, total | 70,101 | 8,207 | 61,894 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Defense Advanced Research Projects Agency ³ | 29,323 | 0 | 29,323 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Washington Headquarters Svcs ⁴ | 40,778 | 8,207 | 32,571 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Education | 0 | 0 | 0 | 0 | 4,096 | 0 | 0 | 0 | 0 | 4,096 |
| Department of Energy | 113,599 | 96,816 | 16,783 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dept of Health & Human Svcs, total | 30,982 | 20,469 | 10,513 | 0 | 61,816 | 0 | 0 | 0 | 0 | 61,816 |
| National Institutes of Health ⁵ | 30,982 | 20,469 | 10,513 | 0 | 61,816 | 0 | 0 | 0 | 0 | 61,816 |
| Department of Justice, total | 0 | 0 | 0 | 0 | 4,769 | 0 | 50 | 150 | 3,569 | 1,000 |
| Office of Justice Programs | 0 | 0 | 0 | 0 | 4,769 | 0 | 50 | 150 | 3,569 | 1,000 |
| Department of Labor, total | 0 | 0 | 0 | 0 | 11,600 | 0 | 11,600 | 0 | 0 | 0 |
| Bureau of Labor Statistics | 0 | 0 | 0 | 0 | 11,600 | 0 | 11,600 | 0 | 0 | 0 |
| Department of State | 0 | 0 | 0 | 0 | 4,510 | 361 | 1,127 | 1,804 | 676 | 542 |
| Department of Transportation, total | 17,846 | 34 | 943 | 16,869 | 1,429 | 0 | 633 | 234 | 222 | 340 |
| Federal Highway Administration | 17,846 | 34 | 943 | 16,869 | 1,429 | 0 | 633 | 234 | 222 | 340 |
| Other agencies: | | | | | | | | | | |
| Nat'l Aeronautics & Space Admin ⁶ | 23,207 | 752 | 18,388 | 4,067 | 364 | 0 | 0 | 0 | 233 | 131 |
| National Science Foundation | 200,249 | 84,002 | 115,550 | 697 | 67,524 | 11,715 | 12,423 | 6,716 | 6,754 | 29,916 |
| Smithsonian Institution | 0 | 0 | 0 | 0 | 31,977 | 3,353 | 0 | 0 | 468 | 28,156 |

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- 2 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.
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SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

**Table C-38. Federal obligations for applied research, by agency and performer:
fiscal year 1995**

[Dollars in thousands]

| Agency and subdivision | Total | Intra- mural ¹ | Extramural | | | | | | | | Foreign |
|--|-------------------|------------------------------|-------------------------------|--|--------------------------------------|--|---|---|--------------------------------|----------------|---------|
| | | | United States and territories | | | | | | | | |
| | | | 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 | 14,677,941 | 5,074,929 | 3,506,718 | 578,882 | 3,420,273 | 797,331 | 921,935 | 134,913 | 142,683 | 100,277 | |
| Departments: | | | | | | | | | | | |
| Department of Agriculture, total | 704,649 | 451,221 | 5,020 | 0 | 237,983 | 0 | 7,260 | 0 | 1,327 | 1,838 | |
| Agricultural Marketing Service | 4,180 | 3,699 | 0 | 0 | 481 | 0 | 0 | 0 | 0 | 0 | |
| Agricultural Research Service ² | 259,642 | 246,576 | 0 | 0 | 9,995 | 0 | 1,478 | 0 | 107 | 1,486 | |
| Cooperative State Research, Education, & Extension Service ³ | 231,720 | 10,765 | 4,849 | 0 | 210,475 | 0 | 4,722 | 0 | 909 | 0 | |
| Economic Research Service | 48,444 | 45,579 | 0 | 0 | 2,865 | 0 | 0 | 0 | 0 | 0 | |
| Foreign Agricultural Service ⁴ | 114 | 86 | 0 | 0 | 28 | 0 | 0 | 0 | 0 | 0 | |
| Forest Service | 154,807 | 138,954 | 171 | 0 | 13,989 | 0 | 1,030 | 0 | 311 | 352 | |
| Grain Inspection Packers & Stockyards Administration ⁵ | 1,484 | 1,484 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Nat'l Agricultural Statistics Svc | 2,697 | 2,522 | 0 | 0 | 145 | 0 | 30 | 0 | 0 | 0 | |
| Rural Business-Cooperative Svc ⁶ | 1,561 | 1,556 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | |
| Department of Commerce, total | 853,060 | 558,301 | 208,470 | 0 | 78,894 | 4 | 2,325 | 0 | 4,388 | 678 | |
| Bureau of the Census | 2,618 | 2,618 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Economic Development Admin | 521 | 10 | 461 | 0 | 0 | 0 | 50 | 0 | 0 | 0 | |
| National Inst of Standards & Tech | 333,145 | 154,672 | 168,286 | 0 | 7,876 | 4 | 1,659 | 0 | 0 | 648 | |
| Nat'l Oceanic & Atmospheric Admin | 510,362 | 394,617 | 39,723 | 0 | 71,018 | 0 | 616 | 0 | 4,388 | 0 | |
| National Telecommunications & Information Administration | 6,383 | 6,383 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Office of the Secretary | 31 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | |
| Department of Defense, total | 3,069,821 | 1,243,191 | 1,335,655 | 17,650 | 349,195 | 65,455 | 38,181 | 13,661 | 0 | 6,833 | |
| Department of the Army | 633,273 | 415,590 | 179,512 | 2,640 | 24,066 | 2,362 | 5,399 | 997 | 0 | 2,707 | |
| Department of the Navy | 470,533 | 241,854 | 184,064 | 0 | 37,643 | 3,319 | 1,882 | 1,771 | 0 | 0 | |
| Department of the Air Force | 627,683 | 359,088 | 226,760 | 329 | 31,533 | 4,813 | 3,473 | 1,310 | 0 | 377 | |
| Defense Agencies, total | 1,338,332 | 226,659 | 745,319 | 14,681 | 255,953 | 54,961 | 27,427 | 9,583 | 0 | 3,749 | |
| Ballistic Missile Defense Organization | 93,811 | 14,980 | 60,231 | 0 | 10,268 | 4,878 | 0 | 2,294 | 0 | 1,160 | |
| Defense Advanced Research Projects Agency ⁷ | 826,817 | 54,191 | 507,015 | 3,321 | 198,162 | 34,704 | 23,346 | 4,422 | 0 | 1,656 | |
| Defense Information Systems Agency | 1,717 | 1,717 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Defense Logistics Agency | 7,062 | 7,062 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Defense Nuclear Agency | 209,033 | 47,118 | 137,497 | 3,910 | 4,638 | 12,765 | 2,172 | 0 | 0 | 933 | |
| Special Operations Command | 39,913 | 22,883 | 17,030 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Washington Headquarters Svcs ⁸ | 159,979 | 78,708 | 23,546 | 7,450 | 42,885 | 2,614 | 1,909 | 2,867 | 0 | 0 | |
| Department of Education | 132,817 | 6,947 | 3,728 | 0 | 87,784 | 0 | 28,924 | 0 | 5,434 | 0 | |
| Department of Energy | 1,825,581 | 193,835 | 224,079 | 482,107 | 188,750 | 582,427 | 38,100 | 85,165 | 8,835 | 22,283 | |
| Dept of Health & Human Svcs, total | 4,014,893 | 1,051,103 | 234,305 | 47,724 | 2,044,197 | 7,332 | 538,789 | 8,271 | 69,662 | 13,510 | |
| Administration on Aging | 3,000 | 171 | 0 | 0 | 1,500 | 0 | 1,160 | 0 | 169 | 0 | |
| Admin for Children & Families | 11,200 | 224 | 0 | 0 | 9,856 | 0 | 1,075 | 0 | 45 | 0 | |
| Agcy for Hlth Care Policy & Rsch | 124,000 | 15,290 | 30,204 | 0 | 50,138 | 0 | 27,539 | 0 | 0 | 829 | |
| Centers for Disease Control & Prevention | 317,385 | 275,498 | 1,058 | 0 | 31,700 | 237 | 8,645 | 67 | 180 | 0 | |
| Food & Drug Administration | 170,462 | 153,932 | 0 | 0 | 9,856 | 0 | 6,674 | 0 | 0 | 0 | |
| Health Care Financing Admin | 74,537 | 64 | 27,270 | 0 | 5,838 | 0 | 19,199 | 0 | 21,876 | 290 | |
| Health Resources & Services Admin | 11,201 | 1,472 | 0 | 0 | 7,229 | 0 | 2,500 | 0 | 0 | 0 | |
| National Institutes of Health ⁹ | 3,273,555 | 590,091 | 172,646 | 47,724 | 1,925,342 | 7,095 | 467,788 | 8,204 | 42,274 | 12,391 | |
| Office of the Secretary | 9,121 | 3,750 | 1,414 | 0 | 1,499 | 0 | 2,183 | 0 | 275 | 0 | |
| Social Security Administration ¹⁰ | 20,432 | 10,611 | 1,713 | 0 | 1,239 | 0 | 2,026 | 0 | 4,843 | 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 1995**

[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 Housing & Urban Dvlpmt | 14,180 | 7,401 | 595 | 0 | 1,294 | 0 | 4,890 | 0 | 0 | 0 |
| Department of the Interior, total | 477,257 | 423,487 | 6,716 | 85 | 44,428 | 530 | 595 | 0 | 419 | 997 |
| Bureau of Reclamation | 5,997 | 5,082 | 0 | 0 | 570 | 0 | 345 | 0 | 0 | 0 |
| Geological Survey ¹¹ | 306,248 | 284,367 | 1,311 | 0 | 20,570 | 0 | 0 | 0 | 0 | 0 |
| Minerals Management Service | 20,010 | 5,943 | 3,712 | 85 | 8,324 | 530 | 0 | 0 | 419 | 997 |
| National Biological Service ^{12 11} | 125,810 | 119,296 | 53 | 0 | 6,256 | 0 | 205 | 0 | 0 | 0 |
| National Park Service ¹² | 19,192 | 8,799 | 1,640 | 0 | 8,708 | 0 | 45 | 0 | 0 | 0 |
| Department of Justice, total | 17,707 | 2,923 | 665 | 0 | 2,161 | 0 | 10,288 | 0 | 1,670 | 0 |
| Bureau of Prisons | 3,249 | 2,068 | 0 | 0 | 0 | 0 | 0 | 0 | 1,181 | 0 |
| Immigration & Naturalization Svc | 400 | 40 | 0 | 0 | 0 | 0 | 360 | 0 | 0 | 0 |
| Office of Justice Programs | 14,058 | 815 | 665 | 0 | 2,161 | 0 | 9,928 | 0 | 489 | 0 |
| Department of Labor, total | 16,648 | 6,712 | 7,136 | 0 | 644 | 0 | 1,761 | 0 | 395 | 0 |
| Bureau of Labor Statistics | 1,500 | 1,500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Employment & Training Admin | 4,206 | 1,144 | 1,000 | 0 | 592 | 0 | 1,075 | 0 | 395 | 0 |
| Occupational Safety & Hlth Admin | 4,370 | 1,286 | 3,084 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Office of the Secretary | 2,872 | 1,942 | 892 | 0 | 12 | 0 | 26 | 0 | 0 | 0 |
| Pension Benefit Guaranty Corp | 102 | 52 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pension & Welfare Benefits Admin | 3,598 | 788 | 2,110 | 0 | 40 | 0 | 660 | 0 | 0 | 0 |
| Department of State | 500 | 335 | 101 | 0 | 0 | 23 | 41 | 0 | 0 | 0 |
| Department of Transportation, total | 323,866 | 133,863 | 95,712 | 400 | 30,536 | 3,115 | 15,717 | 967 | 43,368 | 188 |
| Coast Guard | 4,930 | 3,360 | 1,070 | 0 | 500 | 0 | 0 | 0 | 0 | 0 |
| Federal Aviation Administration | 83,291 | 42,444 | 30,435 | 0 | 6,180 | 3,115 | 0 | 967 | 0 | 150 |
| Federal Highway Administration | 156,268 | 50,744 | 44,701 | 400 | 13,303 | 0 | 5,000 | 0 | 42,120 | 0 |
| Federal Railroad Administration | 22,545 | 12,702 | 3,278 | 0 | 1,200 | 0 | 5,340 | 0 | 0 | 25 |
| Federal Transit Administration | 10,866 | 1,002 | 1,660 | 0 | 2,850 | 0 | 4,106 | 0 | 1,248 | 0 |
| Maritime Administration | 2,450 | 723 | 969 | 0 | 503 | 0 | 242 | 0 | 0 | 13 |
| National Highway Traffic Safety Administration | 39,707 | 20,865 | 11,813 | 0 | 6,000 | 0 | 1,029 | 0 | 0 | 0 |
| Office of the Secretary | 590 | 90 | 500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Research & Special Programs Admin .. | 3,219 | 1,933 | 1,286 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of the Treasury, total | 48,887 | 29,215 | 976 | 0 | 0 | 1,496 | 0 | 17,200 | 0 | 0 |
| Bureau of Engraving & Printing | 1,283 | 1,099 | 0 | 0 | 0 | 184 | 0 | 0 | 0 | 0 |
| Internal Revenue Service | 45,797 | 27,285 | 0 | 0 | 0 | 1,312 | 0 | 17,200 | 0 | 0 |
| Office of Thrift Supervision | 550 | 550 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| United States Customs Service | 710 | 40 | 670 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| United States Secret Service ¹³ | 547 | 241 | 306 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Veterans Affairs | 206,416 | 205,416 | 0 | 0 | 1,000 | 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 1995**

[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: | | | | | | | | | | |
| Advisory Commission on Intergovernmental Relations | 1,413 | 1,413 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Appalachian Regional Commission | 900 | 100 | 300 | 0 | 500 | 0 | 0 | 0 | 0 | 0 |
| Environmental Protection Agency | 331,330 | 134,954 | 90,169 | 0 | 75,528 | 0 | 24,749 | 0 | 3,830 | 2,100 |
| Federal Communications Commission | 2,268 | 2,268 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Federal Trade Commission | 564 | 564 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| International Development Cooperation | | | | | | | | | | |
| Agency, total | 270,382 | 56,781 | 11,086 | 0 | 28,660 | 0 | 139,787 | 0 | 0 | 34,068 |
| Agency for Internat'l Dvlpmt | 270,382 | 56,781 | 11,086 | 0 | 28,660 | 0 | 139,787 | 0 | 0 | 34,068 |
| Library of Congress | 1,594 | 1,594 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Aeronautics & Space Admin | 2,067,896 | 516,974 | 1,249,402 | 0 | 107,421 | 120,780 | 60,810 | 559 | 1,246 | 10,704 |
| National Archives & Records Admin | 120 | 120 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Science Foundation | 176,013 | 677 | 27,611 | 0 | 135,208 | 71 | 8,568 | 4 | 2,109 | 1,765 |
| Nuclear Regulatory Commission | 88,212 | 15,463 | 4,096 | 30,916 | 6,090 | 16,098 | 1,150 | 9,086 | 0 | 5,313 |
| Tennessee Valley Authority | 17,380 | 17,380 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| US Arms Control & Disarmament Agcy | 1,146 | 250 | 896 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| United States Information Agency | 289 | 289 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| US Internat'l Trade Commission | 12,152 | 12,152 | 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 Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- ³ 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.
- ⁴ 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.
- ⁵ The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.
- ⁶ This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.
- ⁷ 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.
- ⁸ Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
- ⁹ 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.
- ¹⁰ 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.
- ¹¹ 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.
- ¹² 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.
- ¹³ The United States Secret Service was formerly listed as the Office of Protective Research.

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: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

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**Table C-39. Preliminary Federal obligations for applied research, by agency and performer:
fiscal year 1996**

[Dollars in thousands]

| Agency and subdivision | Total | Intra- mural ¹ | Extramural | | | | | | | Foreign |
|--|-------------------|------------------------------|-------------------------------|--|--------------------------------------|--|---|---|--------------------------------|---------------|
| | | | United States and territories | | | | | | | |
| | | | 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 | 14,095,711 | 4,990,398 | 3,447,069 | 537,736 | 3,166,309 | 582,193 | 1,038,854 | 112,065 | 128,528 | 92,559 |
| Departments: | | | | | | | | | | |
| Department of Agriculture, total | 685,762 | 438,808 | 4,905 | 0 | 230,973 | 0 | 8,223 | 0 | 1,317 | 1,536 |
| Agricultural Marketing Service | 4,237 | 4,237 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Agricultural Research Service ² | 258,728 | 244,475 | 0 | 0 | 10,518 | 0 | 2,444 | 0 | 107 | 1,184 |
| Cooperative State Research, Education, & Extension Service ³ | 225,419 | 10,649 | 4,734 | 0 | 204,417 | 0 | 4,719 | 0 | 900 | 0 |
| Economic Research Service | 47,818 | 46,124 | 0 | 0 | 1,694 | 0 | 0 | 0 | 0 | 0 |
| Foreign Agricultural Service ⁴ | 355 | 89 | 0 | 0 | 266 | 0 | 0 | 0 | 0 | 0 |
| Forest Service | 142,400 | 126,549 | 171 | 0 | 13,988 | 0 | 1,030 | 0 | 310 | 352 |
| Grain Inspection Packers & Stockyards Administration ⁵ | 2,797 | 2,797 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nat'l Agricultural Statistics Svc | 2,608 | 2,488 | 0 | 0 | 90 | 0 | 30 | 0 | 0 | 0 |
| Rural Business-Cooperative Svc ⁶ | 1,400 | 1,400 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Commerce, total | 860,512 | 582,374 | 199,636 | 0 | 70,915 | 54 | 3,638 | 0 | 3,098 | 797 |
| Bureau of the Census | 2,564 | 2,564 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Economic Development Admin | 500 | 10 | 200 | 0 | 0 | 0 | 290 | 0 | 0 | 0 |
| National Inst of Standards & Tech | 371,790 | 163,961 | 197,864 | 0 | 7,260 | 4 | 1,931 | 0 | 0 | 770 |
| Nat'l Oceanic & Atmospheric Admin | 481,151 | 411,359 | 1,572 | 0 | 63,655 | 50 | 1,417 | 0 | 3,098 | 0 |
| National Telecommunications & Information Administration | 4,479 | 4,479 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Office of the Secretary | 28 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 27 |
| Department of Defense, total | 2,814,272 | 1,129,487 | 1,186,274 | 10,678 | 367,004 | 52,288 | 43,176 | 17,717 | 0 | 7,648 |
| Department of the Army | 458,641 | 315,074 | 110,920 | 540 | 18,795 | 264 | 10,405 | 359 | 0 | 2,284 |
| Department of the Navy | 568,346 | 278,490 | 238,655 | 0 | 45,468 | 1,705 | 2,273 | 1,755 | 0 | 0 |
| Department of the Air Force | 648,131 | 371,220 | 224,803 | 777 | 34,820 | 4,292 | 6,397 | 5,176 | 0 | 646 |
| Defense Agencies, total | 1,139,154 | 164,703 | 611,896 | 9,361 | 267,921 | 46,027 | 24,101 | 10,427 | 0 | 4,718 |
| Ballistic Missile Defense Organization | 74,594 | 11,834 | 40,327 | 0 | 13,286 | 7,400 | 33 | 714 | 0 | 1,000 |
| Defense Advanced Research Projects Agency ⁷ | 711,626 | 41,670 | 435,514 | 3,241 | 182,297 | 18,739 | 21,413 | 7,431 | 0 | 1,321 |
| Defense Information Systems Agency | 1,455 | 1,455 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Defense Logistics Agency | 7,981 | 7,981 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Defense Nuclear Agency | 168,417 | 35,962 | 115,196 | 2,842 | 768 | 9,582 | 1,670 | 0 | 0 | 2,397 |
| Special Operations Command | 21,787 | 12,491 | 9,296 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Washington Headquarters Svcs ⁸ | 153,294 | 53,310 | 11,563 | 3,278 | 71,570 | 10,306 | 985 | 2,282 | 0 | 0 |
| Department of Education | 138,164 | 6,479 | 6,863 | 0 | 96,375 | 0 | 24,262 | 0 | 4,185 | 0 |
| Department of Energy | 1,342,767 | 135,259 | 167,054 | 414,380 | 93,837 | 416,824 | 25,960 | 66,870 | 6,245 | 16,338 |
| Dept of Health & Human Svcs, total | 4,083,076 | 1,091,584 | 241,523 | 88,852 | 1,896,731 | 3,837 | 667,382 | 10,703 | 65,953 | 16,511 |
| Admin for Children & Families | 8,300 | 166 | 0 | 0 | 7,304 | 0 | 830 | 0 | 0 | 0 |
| Agcy for Hlth Care Policy & Rsch | 59,000 | 10,923 | 13,462 | 0 | 22,115 | 0 | 12,500 | 0 | 0 | 0 |
| Centers for Disease Control & Prevention | 323,181 | 281,294 | 1,058 | 0 | 31,700 | 237 | 8,645 | 67 | 180 | 0 |
| Food & Drug Administration | 170,462 | 153,932 | 0 | 0 | 9,856 | 0 | 6,674 | 0 | 0 | 0 |
| Health Care Financing Admin | 54,500 | 40 | 23,900 | 0 | 5,200 | 0 | 13,928 | 0 | 11,120 | 312 |
| Health Resources & Services Admin | 10,963 | 1,277 | 0 | 0 | 7,197 | 0 | 2,489 | 0 | 0 | 0 |
| National Institutes of Health ⁹ | 3,447,670 | 640,452 | 201,103 | 88,852 | 1,811,359 | 3,600 | 620,816 | 10,636 | 54,653 | 16,199 |
| Office of the Secretary | 9,000 | 3,500 | 2,000 | 0 | 2,000 | 0 | 1,500 | 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 1996**

[Dollars in thousands]

Page 2 of 3

| 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 Housing & Urban Dvlpmnt | 12,162 | 8,502 | 1,206 | 0 | 531 | 0 | 1,923 | 0 | 0 | 0 |
| Department of the Interior, total | 483,740 | 428,652 | 5,633 | 20 | 47,366 | 350 | 220 | 0 | 226 | 1,273 |
| Bureau of Reclamation | 4,523 | 4,058 | 0 | 0 | 300 | 0 | 165 | 0 | 0 | 0 |
| Geological Survey ¹⁰ | 439,069 | 407,907 | 1,312 | 0 | 29,850 | 0 | 0 | 0 | 0 | 0 |
| Minerals Management Service | 20,774 | 7,731 | 2,681 | 20 | 8,483 | 350 | 10 | 0 | 226 | 1,273 |
| National Park Service ¹¹ | 19,374 | 8,956 | 1,640 | 0 | 8,733 | 0 | 45 | 0 | 0 | 0 |
| Department of Justice, total | 18,919 | 3,285 | 500 | 0 | 2,975 | 0 | 11,559 | 0 | 600 | 0 |
| Bureau of Prisons | 1,900 | 1,900 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Drug Enforcement Administration | 45 | 45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Immigration & Naturalization Svc | 400 | 40 | 0 | 0 | 0 | 0 | 360 | 0 | 0 | 0 |
| Office of Justice Programs | 16,574 | 1,300 | 500 | 0 | 2,975 | 0 | 11,199 | 0 | 600 | 0 |
| Department of Labor, total | 13,187 | 6,344 | 5,618 | 0 | 250 | 0 | 975 | 0 | 0 | 0 |
| Bureau of Labor Statistics | 1,800 | 1,800 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Employment & Training Admin | 3,023 | 850 | 973 | 0 | 250 | 0 | 950 | 0 | 0 | 0 |
| Occupational Safety & Hlth Admin | 3,175 | 935 | 2,240 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Office of the Secretary | 2,871 | 1,918 | 928 | 0 | 0 | 0 | 25 | 0 | 0 | 0 |
| Pension Benefit Guaranty Corp | 53 | 53 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pension & Welfare Benefits Admin | 2,265 | 788 | 1,477 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of State | 500 | 335 | 101 | 0 | 23 | 41 | 0 | 0 | 0 | 0 |
| Department of Transportation, total | 288,251 | 113,600 | 87,863 | 535 | 29,388 | 1,811 | 15,962 | 603 | 38,404 | 85 |
| Coast Guard | 5,010 | 3,383 | 1,227 | 0 | 400 | 0 | 0 | 0 | 0 | 0 |
| Federal Aviation Administration | 60,373 | 31,819 | 21,734 | 120 | 4,226 | 1,811 | 0 | 603 | 0 | 60 |
| Federal Highway Administration | 152,405 | 46,406 | 44,526 | 415 | 14,692 | 0 | 7,962 | 0 | 38,404 | 0 |
| Federal Railroad Administration | 19,913 | 9,106 | 3,712 | 0 | 1,670 | 0 | 5,400 | 0 | 0 | 25 |
| Federal Transit Administration | 5,515 | 1,115 | 400 | 0 | 2,400 | 0 | 1,600 | 0 | 0 | 0 |
| National Highway Traffic Safety Administration | 38,185 | 19,209 | 11,976 | 0 | 6,000 | 0 | 1,000 | 0 | 0 | 0 |
| Research & Special Programs Admin .. | 6,850 | 2,562 | 4,288 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of the Treasury, total | 50,209 | 34,116 | 920 | 0 | 557 | 116 | 0 | 14,500 | 0 | 0 |
| Bureau of Engraving & Printing | 1,223 | 1,107 | 0 | 0 | 0 | 116 | 0 | 0 | 0 | 0 |
| Internal Revenue Service | 47,196 | 32,139 | 0 | 0 | 557 | 0 | 0 | 14,500 | 0 | 0 |
| Office of Thrift Supervision | 546 | 546 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| United States Customs Service | 660 | 60 | 600 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| United States Secret Service ¹² | 584 | 264 | 320 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Veterans Affairs | 239,441 | 238,591 | 0 | 0 | 850 | 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 1996

[Dollars in thousands]

| Agency and subdivision | Total | Intra-mural ¹ | Extramural | | | | | | | |
|--|-----------|--------------------------|-------------------------------|----------------------------------|----------------------------|------------------------------------|-------------------------------|--|-----------------------|---------|
| | | | United States and territories | | | | | | | Foreign |
| | | | Indus-trial firms | FFRDCs admin by industrial 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: | | | | | | | | | | |
| Advisory Commission on Intergovernmental Relations | 1,402 | 1,402 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Appalachian Regional Commission | 900 | 100 | 100 | 0 | 700 | 0 | 0 | 0 | 0 | 0 |
| Environmental Protection Agency | 286,256 | 116,595 | 77,902 | 0 | 65,253 | 0 | 21,382 | 0 | 3,309 | 1,815 |
| Federal Communications Commission | 2,819 | 2,819 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Federal Trade Commission | 981 | 981 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| International Development Cooperation | | | | | | | | | | |
| Agency, total | 224,305 | 33,197 | 9,421 | 0 | 17,944 | 0 | 133,910 | 0 | 0 | 29,833 |
| Agency for Internat'l Dvlpmt | 224,305 | 33,197 | 9,421 | 0 | 17,944 | 0 | 133,910 | 0 | 0 | 29,833 |
| Library of Congress | 1,385 | 1,385 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Aeronautics & Space Admin | 2,272,339 | 568,085 | 1,418,350 | 0 | 107,421 | 95,997 | 69,439 | 611 | 1,329 | 11,107 |
| National Archives & Records Admin | 120 | 120 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Science Foundation | 174,036 | 495 | 27,480 | 0 | 134,346 | 72 | 7,839 | 4 | 2,019 | 1,781 |
| Nuclear Regulatory Commission | 59,184 | 13,872 | 3,632 | 23,271 | 2,155 | 10,803 | 559 | 1,057 | 0 | 3,835 |
| Social Security Administration ¹³ | 8,292 | 1,656 | 1,633 | 0 | 715 | 0 | 2,445 | 0 | 1,843 | 0 |
| Tennessee Valley Authority | 19,340 | 19,340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| US Arms Control & Disarmament Agcy ... | 545 | 90 | 455 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| United States Information Agency | 150 | 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| US Internat'l Trade Commission | 12,695 | 12,695 | 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 Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 3 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.
- 4 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.
- 5 The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.
- 6 This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.
- 7 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.
- 8 Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
- 9 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.
- 10 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.
- 11 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.
- 12 The United States Secret Service was formerly listed as the Office of Protective Research.
- 13 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.

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: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-40. Preliminary Federal obligations for applied research, by agency and performer: fiscal year 1997

[Dollars in thousands]

| Agency and subdivision | Total | Intra-mural ¹ | Extramural | | | | | | | | Foreign |
|---|-------------------|--------------------------|-------------------------------|-----------------------------------|----------------------------|-----------------------------------|-------------------------------|--|-----------------------|---------------|---------|
| | | | United States and territories | | | | | | | | |
| | | | Indus-trial firms | FFRDCs admin by indus-trial firms | Univer-sities and colleges | FFRDCs admin by univ and colleges | Other nonprofit insti-tutions | FFRDCs admin by non-profit insti-tutions | State and local govts | | |
| Total, all agencies | 14,441,282 | 5,028,332 | 3,520,649 | 637,214 | 3,417,800 | 611,390 | 929,723 | 108,661 | 114,707 | 72,806 | |
| Departments: | | | | | | | | | | | |
| Department of Agriculture, total | 678,441 | 449,070 | 5,569 | 0 | 217,927 | 0 | 3,022 | 0 | 1,317 | 1,536 | |
| Agricultural Marketing Service | 4,271 | 4,271 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Agricultural Research Service ² | 264,715 | 251,872 | 0 | 0 | 10,518 | 0 | 1,034 | 0 | 107 | 1,184 | |
| Cooperative State Research, Education, & Extension Service ³ | 208,945 | 10,348 | 5,398 | 0 | 191,371 | 0 | 928 | 0 | 900 | 0 | |
| Economic Research Service | 49,452 | 47,758 | 0 | 0 | 1,694 | 0 | 0 | 0 | 0 | 0 | |
| Foreign Agricultural Service ⁴ | 355 | 89 | 0 | 0 | 266 | 0 | 0 | 0 | 0 | 0 | |
| Forest Service | 143,829 | 127,978 | 171 | 0 | 13,988 | 0 | 1,030 | 0 | 310 | 352 | |
| Grain Inspection Packers & Stockyards Administration ⁵ | 2,830 | 2,830 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Nat'l Agricultural Statistics Svc | 2,644 | 2,524 | 0 | 0 | 90 | 0 | 30 | 0 | 0 | 0 | |
| Rural Business-Cooperative Svc ⁶ | 1,400 | 1,400 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Department of Commerce, total | 829,786 | 604,814 | 152,475 | 0 | 64,489 | 54 | 4,246 | 0 | 3,092 | 616 | |
| Bureau of the Census | 2,564 | 2,564 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Economic Development Admin | 1,500 | 30 | 600 | 0 | 0 | 0 | 870 | 0 | 0 | 0 | |
| National Inst of Standards & Tech | 327,834 | 167,620 | 150,198 | 0 | 7,757 | 4 | 1,639 | 0 | 0 | 616 | |
| Nat'l Oceanic & Atmospheric Admin | 493,143 | 429,855 | 1,677 | 0 | 56,732 | 50 | 1,737 | 0 | 3,092 | 0 | |
| National Telecommunications & Information Administration | 4,745 | 4,745 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Department of Defense, total | 2,715,785 | 1,073,274 | 1,191,704 | 8,231 | 320,953 | 64,576 | 38,766 | 13,689 | 0 | 4,592 | |
| Department of the Army | 467,291 | 318,834 | 118,040 | 540 | 18,460 | 1,025 | 8,438 | 688 | 0 | 1,266 | |
| Department of the Navy | 466,971 | 228,816 | 197,061 | 0 | 37,358 | 1,401 | 1,868 | 467 | 0 | 0 | |
| Department of the Air Force | 638,576 | 367,665 | 221,347 | 747 | 32,913 | 4,541 | 5,447 | 5,332 | 0 | 584 | |
| Defense Agencies, total | 1,142,947 | 157,959 | 655,256 | 6,944 | 232,222 | 57,609 | 23,013 | 7,202 | 0 | 2,742 | |
| Ballistic Missile Defense Organization | 86,377 | 15,971 | 49,302 | 0 | 13,663 | 5,963 | 0 | 478 | 0 | 1,000 | |
| Defense Advanced Research Projects Agency ⁷ | 722,751 | 43,940 | 450,762 | 2,169 | 177,400 | 23,258 | 20,945 | 3,702 | 0 | 575 | |
| Defense Information Systems Agency | 1,849 | 1,849 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Defense Logistics Agency | 7,785 | 7,785 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Defense Nuclear Agency | 196,954 | 41,405 | 141,511 | 1,498 | 682 | 9,482 | 1,049 | 160 | 0 | 1,167 | |
| Special Operations Command | 15,048 | 8,627 | 6,421 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Washington Headquarters Svcs ⁸ | 112,183 | 38,382 | 7,260 | 3,277 | 40,477 | 18,906 | 1,019 | 2,862 | 0 | 0 | |
| Department of Education | 139,773 | 6,808 | 5,448 | 0 | 96,699 | 0 | 25,701 | 0 | 5,117 | 0 | |
| Department of Energy | 1,540,558 | 183,374 | 172,981 | 529,075 | 93,092 | 438,612 | 35,519 | 68,566 | 5,903 | 13,436 | |
| Dept of Health & Human Svcs, total | 4,209,864 | 1,046,659 | 221,794 | 76,097 | 2,204,026 | 3,326 | 579,038 | 9,193 | 55,537 | 14,194 | |
| Admin for Children & Families | 17,522 | 351 | 0 | 0 | 15,419 | 0 | 1,752 | 0 | 0 | 0 | |
| Agy for Hlth Care Policy & Rsch | 77,000 | 18,715 | 16,320 | 0 | 26,811 | 0 | 15,154 | 0 | 0 | 0 | |
| Centers for Disease Control & Prevention | 361,181 | 319,294 | 1,058 | 0 | 31,700 | 237 | 8,645 | 67 | 180 | 0 | |
| Food & Drug Administration | 170,462 | 153,932 | 0 | 0 | 9,856 | 0 | 6,674 | 0 | 0 | 0 | |
| Health Care Financing Admin | 55,310 | 51 | 29,724 | 0 | 6,605 | 0 | 10,173 | 0 | 8,463 | 294 | |
| Health Resources & Services Admin | 10,868 | 1,291 | 0 | 0 | 7,116 | 0 | 2,461 | 0 | 0 | 0 | |
| National Institutes of Health ⁹ | 3,508,521 | 549,525 | 172,692 | 76,097 | 2,104,519 | 3,089 | 532,679 | 9,126 | 46,894 | 13,900 | |
| Office of the Secretary | 9,000 | 3,500 | 2,000 | 0 | 2,000 | 0 | 1,500 | 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 1997

[Dollars in thousands]

| Agency and subdivision | Total | Intra-mural ¹ | Extramural | | | | | | | | Foreign |
|--|---------|--------------------------|-------------------------------|----------------------------------|----------------------------|------------------------------------|------------------------------|---|--------|-----------------------|---------|
| | | | United States and territories | | | | | | | State and local govts | |
| | | | Indus-trial firms | FFRDCs admin by industrial firms | Univer-sities and colleges | FFRDCs admin by univs and colleges | Other nonprofit institutions | FFRDCs admin by non-profit institutions | | | |
| Dept of Housing & Urban Dvlpmnt | 16,690 | 11,612 | 1,100 | 0 | 370 | 0 | 3,608 | 0 | 0 | 0 | |
| Department of the Interior, total | 489,214 | 441,233 | 5,740 | 20 | 40,589 | 350 | 55 | 0 | 226 | 1,001 | |
| Bureau of Reclamation | 5,730 | 5,655 | 0 | 0 | 75 | 0 | 0 | 0 | 0 | 0 | |
| Geological Survey ¹⁰ | 442,618 | 418,398 | 1,420 | 0 | 22,800 | 0 | 0 | 0 | 0 | 0 | |
| Minerals Management Service | 20,579 | 7,809 | 2,680 | 20 | 8,483 | 350 | 10 | 0 | 226 | 1,001 | |
| National Park Service ¹¹ | 20,287 | 9,371 | 1,640 | 0 | 9,231 | 0 | 45 | 0 | 0 | 0 | |
| Department of Justice, total | 22,811 | 5,076 | 500 | 0 | 3,175 | 0 | 13,660 | 0 | 400 | 0 | |
| Bureau of Prisons | 1,900 | 1,900 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Drug Enforcement Administration | 50 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Immigration & Naturalization Svc | 400 | 40 | 0 | 0 | 0 | 0 | 360 | 0 | 0 | 0 | |
| Office of Justice Programs | 20,461 | 3,086 | 500 | 0 | 3,175 | 0 | 13,300 | 0 | 400 | 0 | |
| Department of Labor, total | 12,470 | 5,770 | 5,566 | 0 | 150 | 0 | 984 | 0 | 0 | 0 | |
| Bureau of Labor Statistics | 1,300 | 1,300 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Employment & Training Admin | 2,375 | 681 | 810 | 0 | 150 | 0 | 734 | 0 | 0 | 0 | |
| Occupational Safety & Hlth Admin | 3,495 | 1,029 | 2,466 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Office of the Secretary | 2,918 | 1,918 | 750 | 0 | 0 | 0 | 250 | 0 | 0 | 0 | |
| Pension Benefit Guaranty Corp | 54 | 54 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Pension & Welfare Benefits Admin | 2,328 | 788 | 1,540 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Department of State | 500 | 335 | 101 | 0 | 23 | 41 | 0 | 0 | 0 | 0 | |
| Department of Transportation, total | 339,998 | 147,964 | 109,881 | 541 | 29,291 | 2,027 | 13,915 | 675 | 35,634 | 70 | |
| Coast Guard | 4,944 | 3,370 | 1,274 | 0 | 300 | 0 | 0 | 0 | 0 | 0 | |
| Federal Aviation Administration | 67,570 | 35,608 | 24,325 | 135 | 4,730 | 2,027 | 0 | 675 | 0 | 70 | |
| Federal Highway Administration | 181,043 | 65,662 | 59,284 | 406 | 14,201 | 0 | 6,356 | 0 | 35,134 | 0 | |
| Federal Railroad Administration | 23,495 | 14,451 | 2,450 | 0 | 1,510 | 0 | 5,084 | 0 | 0 | 0 | |
| Federal Transit Administration | 5,802 | 1,102 | 500 | 0 | 2,400 | 0 | 1,300 | 0 | 500 | 0 | |
| Maritime Administration | 2,006 | 454 | 1,227 | 0 | 150 | 0 | 175 | 0 | 0 | 0 | |
| National Highway Traffic Safety Administration | 45,663 | 23,681 | 14,982 | 0 | 6,000 | 0 | 1,000 | 0 | 0 | 0 | |
| Research & Special Programs Admin .. | 9,475 | 3,636 | 5,839 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Department of the Treasury, total | 53,872 | 38,341 | 950 | 0 | 32 | 49 | 0 | 14,500 | 0 | 0 | |
| Bureau of Engraving & Printing | 1,144 | 1,095 | 0 | 0 | 0 | 49 | 0 | 0 | 0 | 0 | |
| Internal Revenue Service | 50,830 | 36,298 | 0 | 0 | 32 | 0 | 0 | 14,500 | 0 | 0 | |
| Office of Thrift Supervision | 583 | 583 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| United States Customs Service | 700 | 70 | 630 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| United States Secret Service ¹² | 615 | 295 | 320 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Department of Veterans Affairs | 222,520 | 221,670 | 0 | 0 | 850 | 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 1997**

[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 | 900 | 100 | 100 | 0 | 700 | 0 | 0 | 0 | 0 | 0 | 0 |
| Environmental Protection Agency | 335,468 | 136,639 | 91,295 | 0 | 76,471 | 0 | 25,058 | 0 | 3,878 | 2,127 | |
| Federal Communications Commission | 2,749 | 2,749 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Federal Trade Commission | 1,034 | 1,034 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| International Development Cooperation Agency, total | 167,870 | 18,969 | 9,569 | 0 | 12,422 | 0 | 107,437 | 0 | 0 | 19,473 | |
| Agency for Internat'l Dvlpmt | 167,870 | 18,969 | 9,569 | 0 | 12,422 | 0 | 107,437 | 0 | 0 | 19,473 | |
| Library of Congress | 1,428 | 1,428 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| National Aeronautics & Space Admin | 2,355,587 | 588,897 | 1,484,756 | 0 | 107,421 | 89,618 | 71,152 | 629 | 1,433 | 11,681 | |
| National Archives & Records Admin | 120 | 120 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| National Science Foundation | 189,303 | 532 | 34,419 | 0 | 143,851 | 71 | 6,482 | 0 | 2,148 | 1,800 | |
| Nuclear Regulatory Commission | 59,014 | 13,760 | 2,035 | 23,250 | 3,224 | 12,666 | 390 | 1,409 | 0 | 2,280 | |
| Social Security Administration ¹³ | 27,698 | 1,075 | 23,866 | 0 | 2,045 | 0 | 690 | 0 | 22 | 0 | |
| Tennessee Valley Authority | 14,182 | 14,182 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| US Arms Control & Disarmament Agcy ... | 1,000 | 200 | 800 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| United States Information Agency | 136 | 136 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| US Internat'l Trade Commission | 12,511 | 12,511 | 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 Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 3 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.
- 4 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.
- 5 The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.
- 6 This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.
- 7 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.
- 8 Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
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- 10 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.
- 11 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.
- 12 The United States Secret Service was formerly listed as the Office of Protective Research.
- 13 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.

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: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

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Table C-41. Federal obligations for applied research, by detailed field of science and engineering: fiscal years 1995, 1996, and 1997

[Dollars in thousands]

| Field of science and engineering | 1995 | Preliminary | |
|--|------------|-------------|------------|
| | | 1996 | 1997 |
| Total, all fields | 14,677,941 | 14,095,711 | 14,441,282 |
| Life sciences, total | 5,224,137 | 5,253,977 | 5,256,213 |
| Biological (excluding environmental) | 1,605,244 | NA | NA |
| Environmental biology | 601,717 | NA | NA |
| Agricultural | 365,751 | NA | NA |
| Medical | 2,364,013 | NA | NA |
| Life sciences, n.e.c. | 287,412 | NA | NA |
| Psychology, total | 345,247 | 352,746 | 355,855 |
| Biological aspects | 28,081 | NA | NA |
| Social aspects | 134,073 | NA | NA |
| Psychological sciences, n.e.c. | 183,093 | NA | NA |
| Physical sciences, total | 1,418,542 | 1,161,725 | 1,212,600 |
| Astronomy | 32,901 | NA | NA |
| Chemistry | 309,102 | NA | NA |
| Physics | 943,798 | NA | NA |
| Physical sciences, n.e.c. | 132,741 | NA | NA |
| Environmental sciences, total | 1,474,178 | 1,411,410 | 1,459,057 |
| Atmospheric | 482,068 | NA | NA |
| Geological | 410,491 | NA | NA |
| Oceanography | 238,139 | NA | NA |
| Environmental sciences, n.e.c. | 343,480 | NA | NA |
| Mathematics & computer sciences, total | 976,915 | 910,483 | 941,505 |
| Mathematics | 94,638 | NA | NA |
| Computer sciences | 697,585 | NA | NA |
| Mathematics & computer sciences, n.e.c. | 184,692 | NA | NA |
| Engineering, total | 4,272,015 | 4,116,045 | 4,254,452 |
| Aeronautical | 977,616 | NA | NA |
| Astronautical | 480,387 | NA | NA |
| Chemical | 184,896 | NA | NA |
| Civil | 269,298 | NA | NA |
| Electrical | 552,292 | NA | NA |
| Mechanical | 248,184 | NA | NA |
| Metallurgy & materials | 447,269 | NA | NA |
| Engineering, n.e.c. | 1,112,073 | NA | NA |
| Social sciences, total | 472,039 | 454,837 | 500,889 |
| Anthropology | 6,611 | NA | NA |
| Economics | 161,806 | NA | NA |
| Political science | 15,232 | NA | NA |
| Sociology | 33,533 | NA | NA |
| Social sciences, n.e.c. | 254,857 | NA | NA |
| Other sciences, n.e.c. | 494,868 | 434,488 | 460,711 |

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 National Aeronautics and Space Administration has made a statistical adjustment to the 1994, 1995, 1996, and 1997 field of science and engineering values to diminish a computational error introduced by its software.

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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-42. Federal obligations for applied research, by agency and field of science and engineering: fiscal year 1995

[Dollars in thousands]

Page 1 of 3

| Agency and subdivision | Total | Life sciences | Psychology | Physical sciences | Environmental sciences | Mathematics and computer sciences | Engineering | Social sciences | Other sciences, n.e.c. |
|---|-------------------|------------------|----------------|-------------------|------------------------|-----------------------------------|------------------|-----------------|------------------------|
| Total, all agencies | 14,677,941 | 5,224,137 | 345,247 | 1,418,542 | 1,474,178 | 976,915 | 4,272,015 | 472,039 | 494,868 |
| Departments: | | | | | | | | | |
| Department of Agriculture, total | 704,649 | 477,910 | 403 | 48,136 | 9,293 | 14,376 | 54,656 | 96,395 | 3,480 |
| Agricultural Marketing Service | 4,180 | 4,180 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Agricultural Research Service ¹ | 259,642 | 223,335 | 0 | 26,650 | 2,045 | 1,048 | 6,564 | 0 | 0 |
| Cooperative State Research, Education, & Extension Service ² | 231,720 | 159,092 | 0 | 15,874 | 1,953 | 0 | 20,371 | 34,430 | 0 |
| Economic Research Service | 48,444 | 0 | 0 | 0 | 0 | 0 | 0 | 48,444 | 0 |
| Foreign Agricultural Service ³ | 114 | 114 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Forest Service | 154,807 | 89,705 | 403 | 5,612 | 5,295 | 10,631 | 27,721 | 11,960 | 3,480 |
| Grain Inspection Packers & Stockyards Administration ⁴ | 1,484 | 1,484 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nat'l Agricultural Statistics Svc | 2,697 | 0 | 0 | 0 | 0 | 2,697 | 0 | 0 | 0 |
| Rural Business-Cooperative Svc ⁵ | 1,561 | 0 | 0 | 0 | 0 | 0 | 0 | 1,561 | 0 |
| Department of Commerce, total | 853,060 | 150,274 | 228 | 74,408 | 290,536 | 101,673 | 179,671 | 18,827 | 37,443 |
| Bureau of the Census | 2,618 | 0 | 228 | 0 | 0 | 1,649 | 0 | 678 | 63 |
| Economic Development Admin | 521 | 0 | 0 | 0 | 0 | 0 | 0 | 521 | 0 |
| National Inst of Standards & Tech | 333,145 | 33,233 | 0 | 52,967 | 165 | 82,722 | 163,875 | 183 | 0 |
| Nat'l Oceanic & Atmospheric Admin | 510,362 | 117,041 | 0 | 21,441 | 290,371 | 17,302 | 9,413 | 17,445 | 37,349 |
| National Telecommunications & Information Administration | 6,383 | 0 | 0 | 0 | 0 | 0 | 6,383 | 0 | 0 |
| Office of the Secretary | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 31 |
| Department of Defense, total | 3,069,821 | 245,122 | 89,624 | 356,906 | 183,058 | 531,498 | 1,545,815 | 488 | 117,310 |
| Department of the Army | 633,273 | 124,841 | 9,907 | 58,538 | 29,377 | 80,418 | 322,964 | 488 | 6,740 |
| Department of the Navy | 470,533 | 13,740 | 13,881 | 125,115 | 16,280 | 16,233 | 281,284 | 0 | 4,000 |
| Department of the Air Force | 627,683 | 54,276 | 58,112 | 98,108 | 7,781 | 79,296 | 322,780 | 0 | 7,330 |
| Defense Agencies, total | 1,338,332 | 52,265 | 7,724 | 75,145 | 129,620 | 355,551 | 618,787 | 0 | 99,240 |
| Ballistic Missile Defense Organization | 93,811 | 0 | 0 | 16,232 | 4,553 | 23,501 | 46,225 | 0 | 3,300 |
| Defense Advanced Research Projects Agency ⁶ | 826,817 | 0 | 0 | 7,724 | 23,844 | 325,576 | 462,077 | 0 | 7,596 |
| Defense Information Systems Agency | 1,717 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,717 |
| Defense Logistics Agency | 7,062 | 0 | 7,062 | 0 | 0 | 0 | 0 | 0 | 0 |
| Defense Nuclear Agency | 209,033 | 4,411 | 0 | 46,189 | 12,490 | 2,838 | 57,480 | 0 | 85,625 |
| Special Operations Command | 39,913 | 1,218 | 0 | 0 | 0 | 0 | 37,693 | 0 | 1,002 |
| Washington Headquarters Svcs ⁷ | 159,979 | 46,636 | 662 | 5,000 | 88,733 | 3,636 | 15,312 | 0 | 0 |
| Department of Education | 132,817 | 11,973 | 3,688 | 0 | 0 | 1,229 | 5,737 | 110,190 | 0 |
| Department of Energy | 1,825,581 | 80,512 | 0 | 718,246 | 233,979 | 109,596 | 620,242 | 500 | 62,506 |
| Dept of Health & Human Svcs, total | 4,014,893 | 3,373,845 | 180,989 | 36,146 | 11,546 | 37,963 | 43,406 | 109,912 | 221,086 |
| Administration on Aging | 3,000 | 0 | 0 | 0 | 0 | 0 | 0 | 3,000 | 0 |
| Admin for Children & Families | 11,200 | 0 | 0 | 0 | 0 | 0 | 0 | 11,200 | 0 |
| Agcy for Hlth Care Policy & Rsch | 124,000 | 57,864 | 1,116 | 0 | 0 | 10,764 | 0 | 22,245 | 32,011 |
| Centers for Disease Control & Prevention | 317,385 | 317,385 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Food & Drug Administration | 170,462 | 170,462 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Health Care Financing Admin | 74,537 | 74,537 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Health Resources & Services Admin | 11,201 | 11,201 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Institutes of Health ⁸ | 3,273,555 | 2,742,396 | 179,873 | 36,146 | 11,546 | 27,199 | 43,406 | 43,914 | 189,075 |
| Office of the Secretary | 9,121 | 0 | 0 | 0 | 0 | 0 | 0 | 9,121 | 0 |
| Social Security Administration ⁹ | 20,432 | 0 | 0 | 0 | 0 | 0 | 0 | 20,432 | 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 1995

[Dollars in thousands]

| Agency and subdivision | Total | Life sciences | Psychology | Physical sciences | Environmental sciences | Mathematics and computer sciences | Engineering | Social sciences | Other sciences, n.e.c. |
|--|---------|---------------|------------|-------------------|------------------------|-----------------------------------|-------------|-----------------|------------------------|
| Dept of Housing & Urban Dvlpmt | 14,180 | 0 | 0 | 0 | 156 | 31 | 750 | 10,619 | 2,624 |
| Department of the Interior, total | 477,257 | 132,340 | 0 | 38,113 | 252,196 | 18,139 | 21,475 | 14,327 | 667 |
| Bureau of Reclamation | 5,997 | 0 | 0 | 0 | 0 | 0 | 5,997 | 0 | 0 |
| Geological Survey ¹⁰ | 306,248 | 2,826 | 0 | 38,113 | 237,178 | 16,609 | 11,198 | 324 | 0 |
| Minerals Management Service | 20,010 | 4 | 0 | 0 | 12,971 | 1,319 | 3,817 | 1,899 | 0 |
| National Biological Service ^{11 10} | 125,810 | 125,810 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Park Service ¹¹ | 19,192 | 3,700 | 0 | 0 | 2,047 | 211 | 463 | 12,104 | 667 |
| Department of Justice, total | 17,707 | 0 | 1,032 | 900 | 0 | 0 | 400 | 14,105 | 1,270 |
| Bureau of Prisons | 3,249 | 0 | 532 | 0 | 0 | 0 | 0 | 2,717 | 0 |
| Immigration & Naturalization Svc | 400 | 0 | 0 | 0 | 0 | 0 | 400 | 0 | 0 |
| Office of Justice Programs | 14,058 | 0 | 500 | 900 | 0 | 0 | 0 | 11,388 | 1,270 |
| Department of Labor, total | 16,648 | 0 | 0 | 0 | 0 | 0 | 0 | 16,648 | 0 |
| Bureau of Labor Statistics | 1,500 | 0 | 0 | 0 | 0 | 0 | 0 | 1,500 | 0 |
| Employment & Training Admin | 4,206 | 0 | 0 | 0 | 0 | 0 | 0 | 4,206 | 0 |
| Occupational Safety & Hlth Admin | 4,370 | 0 | 0 | 0 | 0 | 0 | 0 | 4,370 | 0 |
| Office of the Secretary | 2,872 | 0 | 0 | 0 | 0 | 0 | 0 | 2,872 | 0 |
| Pension Benefit Guaranty Corp | 102 | 0 | 0 | 0 | 0 | 0 | 0 | 102 | 0 |
| Pension & Welfare Benefits Admin | 3,598 | 0 | 0 | 0 | 0 | 0 | 0 | 3,598 | 0 |
| Department of State | 500 | 0 | 0 | 0 | 0 | 0 | 0 | 500 | 0 |
| Department of Transportation, total | 323,866 | 5,719 | 34,083 | 1,389 | 5,699 | 72,401 | 175,167 | 14,355 | 15,053 |
| Coast Guard | 4,930 | 0 | 590 | 0 | 581 | 1,315 | 2,444 | 0 | 0 |
| Federal Aviation Administration | 83,291 | 0 | 30,680 | 1,189 | 1,524 | 0 | 48,539 | 0 | 1,359 |
| Federal Highway Administration | 156,268 | 179 | 2,813 | 0 | 3,394 | 59,490 | 71,932 | 4,766 | 13,694 |
| Federal Railroad Administration | 22,545 | 0 | 0 | 0 | 0 | 504 | 22,041 | 0 | 0 |
| Federal Transit Administration | 10,866 | 0 | 0 | 0 | 25 | 684 | 4,678 | 5,479 | 0 |
| Maritime Administration | 2,450 | 0 | 0 | 0 | 125 | 0 | 2,163 | 162 | 0 |
| National Highway Traffic Safety Administration | 39,707 | 5,540 | 0 | 0 | 0 | 9,128 | 21,306 | 3,733 | 0 |
| Office of the Secretary | 590 | 0 | 0 | 0 | 50 | 0 | 525 | 15 | 0 |
| Research & Special Programs Admin .. | 3,219 | 0 | 0 | 200 | 0 | 1,280 | 1,539 | 200 | 0 |
| Department of the Treasury, total | 48,887 | 633 | 394 | 1,185 | 0 | 17,430 | 98 | 29,147 | 0 |
| Bureau of Engraving & Printing | 1,283 | 0 | 0 | 1,185 | 0 | 0 | 98 | 0 | 0 |
| Internal Revenue Service | 45,797 | 0 | 0 | 0 | 0 | 17,200 | 0 | 28,597 | 0 |
| Office of Thrift Supervision | 550 | 0 | 0 | 0 | 0 | 0 | 0 | 550 | 0 |
| United States Customs Service | 710 | 480 | 0 | 0 | 0 | 230 | 0 | 0 | 0 |
| United States Secret Service ¹² | 547 | 153 | 394 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Veterans Affairs | 206,416 | 190,334 | 15,891 | 0 | 0 | 0 | 191 | 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 1995

[Dollars in thousands]

Page 3 of 3

| Agency and subdivision | Total | Life sciences | Psychology | Physical sciences | Environmental sciences | Mathematics and computer sciences | Engineering | Social sciences | Other sciences, n.e.c. |
|---|-----------|---------------|------------|-------------------|------------------------|-----------------------------------|-------------|-----------------|------------------------|
| Other agencies: | | | | | | | | | |
| Advisory Commission on Intergovernmental Relations | 1,413 | 0 | 0 | 0 | 0 | 0 | 0 | 1,413 | 0 |
| Appalachian Regional Commission | 900 | 0 | 0 | 0 | 0 | 0 | 0 | 900 | 0 |
| Environmental Protection Agency | 331,330 | 91,595 | 0 | 0 | 141,791 | 0 | 97,944 | 0 | 0 |
| Federal Communications Commission | 2,268 | 0 | 0 | 80 | 0 | 128 | 1,531 | 529 | 0 |
| Federal Trade Commission | 564 | 0 | 0 | 0 | 0 | 0 | 0 | 564 | 0 |
| International Development Cooperation Agency, total | 270,382 | 259,991 | 0 | 0 | 0 | 0 | 0 | 7,844 | 2,547 |
| Agency for Internat'l Dvlpmnt | 270,382 | 259,991 | 0 | 0 | 0 | 0 | 0 | 7,844 | 2,547 |
| Library of Congress | 1,594 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,594 |
| Nat'l Aeronautics & Space Admin ¹³ | 2,067,896 | 184,692 | 15,447 | 119,213 | 338,560 | 55,709 | 1,347,714 | 0 | 6,561 |
| National Archives & Records Admin | 120 | 0 | 0 | 120 | 0 | 0 | 0 | 0 | 0 |
| National Science Foundation | 176,013 | 17,053 | 3,468 | 17,884 | 6,422 | 16,607 | 86,342 | 11,954 | 16,283 |
| Nuclear Regulatory Commission | 88,212 | 0 | 0 | 0 | 0 | 0 | 88,212 | 0 | 0 |
| Tennessee Valley Authority | 17,380 | 2,094 | 0 | 5,300 | 942 | 0 | 2,325 | 475 | 6,244 |
| US Arms Control & Disarmament Agcy | 1,146 | 50 | 0 | 516 | 0 | 135 | 50 | 195 | 200 |
| United States Information Agency | 289 | 0 | 0 | 0 | 0 | 0 | 289 | 0 | 0 |
| US Internat'l Trade Commission | 12,152 | 0 | 0 | 0 | 0 | 0 | 0 | 12,152 | 0 |

- 1 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 2 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.
- 3 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.
- 4 The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.
- 5 This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.
- 6 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.
- 7 Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
- 8 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.
- 9 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.
- 10 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.
- 11 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.
- 12 The United States Secret Service was formerly listed as the Office of Protective Research.
- 13 The National Aeronautics and Space Administration has made a statistical adjustment to the 1994, 1995, 1996, and 1997 field of science and engineering values to diminish a computational error introduced by its software.

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: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-43. Preliminary Federal obligations for applied research, by agency and field of science and engineering: fiscal year 1996

[Dollars in thousands]

| Agency and subdivision | Total | Life sciences | Psychology | Physical sciences | Environmental sciences | Mathematics and computer sciences | Engineering | Social sciences | Other sciences, n.e.c. |
|---|-------------------|------------------|----------------|-------------------|------------------------|-----------------------------------|------------------|-----------------|------------------------|
| Total, all agencies | 14,095,711 | 5,253,977 | 352,746 | 1,161,725 | 1,411,410 | 910,483 | 4,116,045 | 454,837 | 434,488 |
| Departments: | | | | | | | | | |
| Department of Agriculture, total | 685,762 | 461,781 | 371 | 51,648 | 8,996 | 13,608 | 52,493 | 93,665 | 3,200 |
| Agricultural Marketing Service | 4,237 | 4,237 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Agricultural Research Service ¹ | 258,728 | 217,103 | 0 | 31,101 | 2,245 | 1,221 | 7,058 | 0 | 0 |
| Cooperative State Research, Education, & Extension Service ² | 225,419 | 154,774 | 0 | 15,384 | 1,880 | 0 | 19,936 | 33,445 | 0 |
| Economic Research Service | 47,818 | 0 | 0 | 0 | 0 | 0 | 0 | 47,818 | 0 |
| Foreign Agricultural Service ³ | 355 | 355 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Forest Service | 142,400 | 82,515 | 371 | 5,163 | 4,871 | 9,779 | 25,499 | 11,002 | 3,200 |
| Grain Inspection Packers & Stockyards Administration ⁴ | 2,797 | 2,797 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nat'l Agricultural Statistics Svc | 2,608 | 0 | 0 | 0 | 0 | 2,608 | 0 | 0 | 0 |
| Rural Business-Cooperative Svc ⁵ | 1,400 | 0 | 0 | 0 | 0 | 0 | 0 | 1,400 | 0 |
| Department of Commerce, total | 860,512 | 155,795 | 223 | 76,098 | 260,062 | 110,806 | 199,256 | 19,285 | 38,987 |
| Bureau of the Census | 2,564 | 0 | 223 | 0 | 0 | 1,615 | 0 | 664 | 62 |
| Economic Development Admin | 500 | 0 | 0 | 0 | 0 | 0 | 0 | 500 | 0 |
| National Inst of Standards & Tech | 371,790 | 39,079 | 0 | 55,637 | 189 | 91,202 | 185,474 | 209 | 0 |
| Nat'l Oceanic & Atmospheric Admin | 481,151 | 116,716 | 0 | 20,461 | 259,873 | 17,989 | 9,303 | 17,912 | 38,897 |
| National Telecommunications & Information Administration | 4,479 | 0 | 0 | 0 | 0 | 0 | 4,479 | 0 | 0 |
| Office of the Secretary | 28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 28 |
| Department of Defense, total | 2,814,272 | 216,549 | 97,600 | 363,093 | 117,082 | 457,886 | 1,460,030 | 1,786 | 100,246 |
| Department of the Army | 458,641 | 70,713 | 7,391 | 36,776 | 18,867 | 52,806 | 270,188 | 368 | 1,532 |
| Department of the Navy | 568,346 | 16,596 | 16,767 | 151,123 | 19,664 | 19,609 | 339,757 | 0 | 4,830 |
| Department of the Air Force | 648,131 | 57,252 | 62,764 | 100,739 | 12,363 | 69,685 | 345,328 | 0 | 0 |
| Defense Agencies, total | 1,139,154 | 71,988 | 10,678 | 74,455 | 66,188 | 315,786 | 504,757 | 1,418 | 93,884 |
| Ballistic Missile Defense Organization | 74,594 | 0 | 0 | 22,739 | 0 | 21,536 | 30,319 | 0 | 0 |
| Defense Advanced Research Projects Agency ⁶ | 711,626 | 0 | 0 | 2,045 | 18,880 | 281,794 | 391,563 | 0 | 17,344 |
| Defense Information Systems Agency | 1,455 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,455 |
| Defense Logistics Agency | 7,981 | 0 | 7,981 | 0 | 0 | 0 | 0 | 0 | 0 |
| Defense Nuclear Agency | 168,417 | 2,688 | 0 | 37,149 | 2,841 | 1,847 | 49,355 | 0 | 74,537 |
| Special Operations Command | 21,787 | 664 | 0 | 0 | 0 | 0 | 20,575 | 0 | 548 |
| Washington Headquarters Svcs ⁷ | 153,294 | 68,636 | 2,697 | 12,522 | 44,467 | 10,609 | 12,945 | 1,418 | 0 |
| Department of Education | 138,164 | 12,503 | 3,278 | 0 | 0 | 819 | 6,556 | 115,008 | 0 |
| Department of Energy | 1,342,767 | 73,953 | 0 | 397,926 | 225,414 | 115,690 | 503,140 | 621 | 26,023 |
| Dept of Health & Human Svcs, total | 4,083,076 | 3,474,949 | 189,277 | 38,270 | 12,067 | 33,925 | 45,854 | 74,119 | 214,615 |
| Admin for Children & Families | 8,300 | 0 | 0 | 0 | 0 | 0 | 0 | 8,300 | 0 |
| Agcy for Hlth Care Policy & Rsch | 59,000 | 27,730 | 0 | 0 | 0 | 5,310 | 0 | 10,620 | 15,340 |
| Centers for Disease Control & Prevention | 323,181 | 323,181 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Food & Drug Administration | 170,462 | 170,462 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Health Care Financing Admin | 54,500 | 54,500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Health Resources & Services Admin | 10,963 | 10,963 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Institutes of Health ⁸ | 3,447,670 | 2,888,113 | 189,277 | 38,270 | 12,067 | 28,615 | 45,854 | 46,199 | 199,275 |
| Office of the Secretary | 9,000 | 0 | 0 | 0 | 0 | 0 | 0 | 9,000 | 0 |

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

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Table C-43. Preliminary Federal obligations for applied research, by agency and field of science and engineering: fiscal year 1996

[Dollars in thousands]

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| Agency and subdivision | Total | Life sciences | Psychology | Physical sciences | Environmental sciences | Mathematics and computer sciences | Engineering | Social sciences | Other sciences, n.e.c. |
|--|---------|---------------|------------|-------------------|------------------------|-----------------------------------|-------------|-----------------|------------------------|
| Dept of Housing & Urban Dvlprmt | 12,162 | 0 | 0 | 0 | 111 | 265 | 253 | 10,855 | 678 |
| Department of the Interior, total | 483,740 | 122,529 | 0 | 39,714 | 267,426 | 18,166 | 20,815 | 14,423 | 667 |
| Bureau of Reclamation | 4,523 | 0 | 0 | 0 | 0 | 0 | 4,523 | 0 | 0 |
| Geological Survey ⁹ | 439,069 | 118,790 | 0 | 39,714 | 251,473 | 17,138 | 11,623 | 331 | 0 |
| Minerals Management Service | 20,774 | 39 | 0 | 0 | 13,906 | 817 | 4,206 | 1,806 | 0 |
| National Park Service ¹⁰ | 19,374 | 3,700 | 0 | 0 | 2,047 | 211 | 463 | 12,286 | 667 |
| Department of Justice, total | 18,919 | 0 | 975 | 1,000 | 0 | 0 | 400 | 14,749 | 1,795 |
| Bureau of Prisons | 1,900 | 0 | 475 | 0 | 0 | 0 | 0 | 1,425 | 0 |
| Drug Enforcement Administration | 45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 45 |
| Immigration & Naturalization Svc | 400 | 0 | 0 | 0 | 0 | 0 | 400 | 0 | 0 |
| Office of Justice Programs | 16,574 | 0 | 500 | 1,000 | 0 | 0 | 0 | 13,324 | 1,750 |
| Department of Labor, total | 13,187 | 0 | 0 | 0 | 0 | 0 | 0 | 13,187 | 0 |
| Bureau of Labor Statistics | 1,800 | 0 | 0 | 0 | 0 | 0 | 0 | 1,800 | 0 |
| Employment & Training Admin | 3,023 | 0 | 0 | 0 | 0 | 0 | 0 | 3,023 | 0 |
| Occupational Safety & Hlth Admin | 3,175 | 0 | 0 | 0 | 0 | 0 | 0 | 3,175 | 0 |
| Office of the Secretary | 2,871 | 0 | 0 | 0 | 0 | 0 | 0 | 2,871 | 0 |
| Pension Benefit Guaranty Corp | 53 | 0 | 0 | 0 | 0 | 0 | 0 | 53 | 0 |
| Pension & Welfare Benefits Admin | 2,265 | 0 | 0 | 0 | 0 | 0 | 0 | 2,265 | 0 |
| Department of State | 500 | 0 | 0 | 0 | 0 | 0 | 0 | 500 | 0 |
| Department of Transportation, total | 288,251 | 8,340 | 24,571 | 1,400 | 4,996 | 68,510 | 155,522 | 10,325 | 14,587 |
| Coast Guard | 5,010 | 0 | 673 | 0 | 673 | 1,248 | 2,416 | 0 | 0 |
| Federal Aviation Administration | 60,373 | 2,500 | 23,731 | 1,000 | 865 | 0 | 31,797 | 0 | 480 |
| Federal Highway Administration | 152,405 | 480 | 167 | 0 | 3,458 | 56,648 | 72,248 | 5,297 | 14,107 |
| Federal Railroad Administration | 19,913 | 0 | 0 | 0 | 0 | 314 | 19,599 | 0 | 0 |
| Federal Transit Administration | 5,515 | 0 | 0 | 0 | 0 | 389 | 4,602 | 524 | 0 |
| National Highway Traffic Safety Administration | 38,185 | 5,360 | 0 | 0 | 0 | 8,561 | 20,160 | 4,104 | 0 |
| Research & Special Programs Admin .. | 6,850 | 0 | 0 | 400 | 0 | 1,350 | 4,700 | 400 | 0 |
| Department of the Treasury, total | 50,209 | 160 | 424 | 1,881 | 0 | 14,500 | 2 | 33,242 | 0 |
| Bureau of Engraving & Printing | 1,223 | 0 | 0 | 1,221 | 0 | 0 | 2 | 0 | 0 |
| Internal Revenue Service | 47,196 | 0 | 0 | 0 | 0 | 14,500 | 0 | 32,696 | 0 |
| Office of Thrift Supervision | 546 | 0 | 0 | 0 | 0 | 0 | 0 | 546 | 0 |
| United States Customs Service | 660 | 0 | 0 | 660 | 0 | 0 | 0 | 0 | 0 |
| United States Secret Service ¹¹ | 584 | 160 | 424 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Veterans Affairs | 239,441 | 223,201 | 16,035 | 0 | 0 | 0 | 205 | 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 1996

[Dollars in thousands]

| Agency and subdivision | Total | Life sciences | Psychology | Physical sciences | Environmental sciences | Mathematics and computer sciences | Engineering | Social sciences | Other sciences, n.e.c. |
|---|-----------|---------------|------------|-------------------|------------------------|-----------------------------------|-------------|-----------------|------------------------|
| Other agencies: | | | | | | | | | |
| Advisory Commission on Intergovernmental Relations | 1,402 | 0 | 0 | 0 | 0 | 0 | 0 | 1,402 | 0 |
| Appalachian Regional Commission | 900 | 0 | 0 | 0 | 0 | 0 | 0 | 900 | 0 |
| Environmental Protection Agency | 286,256 | 79,135 | 0 | 0 | 122,505 | 0 | 84,616 | 0 | 0 |
| Federal Communications Commission | 2,819 | 0 | 0 | 85 | 0 | 160 | 1,457 | 1,117 | 0 |
| Federal Trade Commission | 981 | 0 | 0 | 0 | 0 | 0 | 0 | 981 | 0 |
| International Development Cooperation Agency, total | 224,305 | 207,812 | 0 | 0 | 0 | 0 | 0 | 14,723 | 1,770 |
| Agency for Internat'l Dvlprmt | 224,305 | 207,812 | 0 | 0 | 0 | 0 | 0 | 14,723 | 1,770 |
| Library of Congress | 1,385 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,385 |
| Nat'l Aeronautics & Space Admin ¹² | 2,272,339 | 198,730 | 16,498 | 163,643 | 385,210 | 59,938 | 1,440,437 | 0 | 7,883 |
| National Archives & Records Admin | 120 | 0 | 0 | 120 | 0 | 0 | 0 | 0 | 0 |
| National Science Foundation | 174,036 | 16,088 | 3,494 | 20,302 | 6,438 | 16,210 | 82,953 | 12,227 | 16,324 |
| Nuclear Regulatory Commission | 59,184 | 0 | 0 | 0 | 0 | 0 | 59,184 | 0 | 0 |
| Social Security Administration ¹³ | 8,292 | 0 | 0 | 0 | 0 | 0 | 0 | 8,292 | 0 |
| Tennessee Valley Authority | 19,340 | 2,452 | 0 | 6,205 | 1,103 | 0 | 2,722 | 555 | 6,303 |
| US Arms Control & Disarmament Agcy ... | 545 | 0 | 0 | 340 | 0 | 0 | 0 | 180 | 25 |
| United States Information Agency | 150 | 0 | 0 | 0 | 0 | 0 | 150 | 0 | 0 |
| US Internat'l Trade Commission | 12,695 | 0 | 0 | 0 | 0 | 0 | 0 | 12,695 | 0 |

- 1 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 2 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.
- 3 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.
- 4 The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.
- 5 This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.
- 6 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.
- 7 Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
- 8 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.
- 9 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.
- 10 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.
- 11 The United States Secret Service was formerly listed as the Office of Protective Research.
- 12 The National Aeronautics and Space Administration has made a statistical adjustment to the 1994, 1995, 1996, and 1997 field of science and engineering values to diminish a computational error introduced by its software.
- 13 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.

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: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-44. Preliminary Federal obligations for applied research, by agency and field of science and engineering: fiscal year 1997

[Dollars in thousands]

Page 1 of 3

| Agency and subdivision | Total | Life sciences | Psychology | Physical sciences | Environmental sciences | Mathematics and computer sciences | Engineering | Social sciences | Other sciences, n.e.c. |
|---|------------|---------------|------------|-------------------|------------------------|-----------------------------------|-------------|-----------------|------------------------|
| Total, all agencies | 14,441,282 | 5,256,213 | 355,855 | 1,212,600 | 1,459,057 | 941,505 | 4,254,452 | 500,889 | 460,711 |
| Departments: | | | | | | | | | |
| Department of Agriculture, total | 678,441 | 463,103 | 375 | 50,269 | 8,569 | 13,742 | 48,267 | 90,884 | 3,232 |
| Agricultural Marketing Service | 4,271 | 4,271 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Agricultural Research Service ¹ | 264,715 | 223,090 | 0 | 31,101 | 2,245 | 1,221 | 7,058 | 0 | 0 |
| Cooperative State Research, Education, & Extension Service ² | 208,945 | 149,215 | 0 | 13,953 | 1,404 | 0 | 15,454 | 28,919 | 0 |
| Economic Research Service | 49,452 | 0 | 0 | 0 | 0 | 0 | 0 | 49,452 | 0 |
| Foreign Agricultural Service ³ | 355 | 355 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Forest Service | 143,829 | 83,342 | 375 | 5,215 | 4,920 | 9,877 | 25,755 | 11,113 | 3,232 |
| Grain Inspection Packers & Stockyards Administration ⁴ | 2,830 | 2,830 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nat'l Agricultural Statistics Svc | 2,644 | 0 | 0 | 0 | 0 | 2,644 | 0 | 0 | 0 |
| Rural Business-Cooperative Svc ⁵ | 1,400 | 0 | 0 | 0 | 0 | 0 | 0 | 1,400 | 0 |
| Department of Commerce, total | 829,786 | 143,992 | 223 | 76,194 | 270,530 | 99,447 | 176,760 | 21,087 | 41,553 |
| Bureau of the Census | 2,564 | 0 | 223 | 0 | 0 | 1,615 | 0 | 664 | 62 |
| Economic Development Admin | 1,500 | 0 | 0 | 0 | 0 | 0 | 0 | 1,500 | 0 |
| National Inst of Standards & Tech | 327,834 | 30,121 | 0 | 55,860 | 192 | 78,760 | 162,689 | 212 | 0 |
| Nat'l Oceanic & Atmospheric Admin | 493,143 | 113,871 | 0 | 20,334 | 270,338 | 19,072 | 9,326 | 18,711 | 41,491 |
| National Telecommunications & Information Administration | 4,745 | 0 | 0 | 0 | 0 | 0 | 4,745 | 0 | 0 |
| Department of Defense, total | 2,715,785 | 186,881 | 97,943 | 339,490 | 90,670 | 461,837 | 1,431,825 | 3,125 | 104,014 |
| Department of the Army | 467,291 | 66,093 | 9,052 | 36,493 | 21,102 | 53,621 | 275,337 | 476 | 5,117 |
| Department of the Navy | 466,971 | 13,635 | 13,776 | 124,168 | 16,156 | 16,111 | 279,156 | 0 | 3,969 |
| Department of the Air Force | 638,576 | 60,591 | 64,495 | 97,086 | 8,724 | 63,095 | 344,585 | 0 | 0 |
| Defense Agencies, total | 1,142,947 | 46,562 | 10,620 | 81,743 | 44,688 | 329,010 | 532,747 | 2,649 | 94,928 |
| Ballistic Missile Defense Organization | 86,377 | 0 | 0 | 32,257 | 0 | 24,800 | 29,320 | 0 | 0 |
| Defense Advanced Research Projects Agency ⁶ | 722,751 | 0 | 0 | 1,068 | 0 | 295,006 | 417,749 | 0 | 8,928 |
| Defense Information Systems Agency | 1,849 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,849 |
| Defense Logistics Agency | 7,785 | 0 | 7,785 | 0 | 0 | 0 | 0 | 0 | 0 |
| Defense Nuclear Agency | 196,954 | 4,032 | 0 | 42,995 | 1,910 | 2,247 | 61,997 | 0 | 83,773 |
| Special Operations Command | 15,048 | 459 | 0 | 0 | 0 | 0 | 14,211 | 0 | 378 |
| Washington Headquarters Svcs ⁷ | 112,183 | 42,071 | 2,835 | 5,423 | 42,778 | 6,957 | 9,470 | 2,649 | 0 |
| Department of Education | 139,773 | 12,186 | 3,331 | 0 | 0 | 833 | 6,663 | 116,760 | 0 |
| Department of Energy | 1,540,558 | 57,151 | 0 | 431,220 | 236,235 | 128,402 | 654,307 | 553 | 32,690 |
| Dept of Health & Human Svcs, total | 4,209,864 | 3,573,099 | 192,618 | 38,945 | 12,280 | 36,051 | 46,663 | 87,396 | 222,812 |
| Admin for Children & Families | 17,522 | 0 | 0 | 0 | 0 | 0 | 0 | 17,522 | 0 |
| Agcy for Hlth Care Policy & Rsch | 77,000 | 36,190 | 0 | 0 | 0 | 6,930 | 0 | 13,860 | 20,020 |
| Centers for Disease Control & Prevention | 361,181 | 361,181 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Food & Drug Administration | 170,462 | 170,462 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Health Care Financing Admin | 55,310 | 55,310 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Health Resources & Services Admin | 10,868 | 10,868 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Institutes of Health ⁸ | 3,508,521 | 2,939,088 | 192,618 | 38,945 | 12,280 | 29,121 | 46,663 | 47,014 | 202,792 |
| Office of the Secretary | 9,000 | 0 | 0 | 0 | 0 | 0 | 0 | 9,000 | 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 1997

[Dollars in thousands]

| Agency and subdivision | Total | Life sciences | Psychology | Physical sciences | Environmental sciences | Mathematics and computer sciences | Engineering | Social sciences | Other sciences, n.e.c. |
|--|---------|---------------|------------|-------------------|------------------------|-----------------------------------|-------------|-----------------|------------------------|
| Dept of Housing & Urban Dvlpmt | 16,690 | 0 | 0 | 0 | 133 | 136 | 296 | 14,935 | 1,190 |
| Department of the Interior, total | 489,214 | 128,649 | 0 | 38,984 | 265,663 | 18,247 | 21,631 | 15,373 | 667 |
| Bureau of Reclamation | 5,730 | 0 | 0 | 0 | 0 | 0 | 5,730 | 0 | 0 |
| Geological Survey ⁹ | 442,618 | 124,910 | 0 | 38,984 | 249,636 | 17,215 | 11,514 | 359 | 0 |
| Minerals Management Service | 20,579 | 39 | 0 | 0 | 13,980 | 821 | 3,924 | 1,815 | 0 |
| National Park Service ¹⁰ | 20,287 | 3,700 | 0 | 0 | 2,047 | 211 | 463 | 13,199 | 667 |
| Department of Justice, total | 22,811 | 0 | 475 | 1,000 | 0 | 0 | 400 | 19,902 | 1,034 |
| Bureau of Prisons | 1,900 | 0 | 475 | 0 | 0 | 0 | 0 | 1,425 | 0 |
| Drug Enforcement Administration | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| Immigration & Naturalization Svc | 400 | 0 | 0 | 0 | 0 | 0 | 400 | 0 | 0 |
| Office of Justice Programs | 20,461 | 0 | 0 | 1,000 | 0 | 0 | 0 | 18,477 | 984 |
| Department of Labor, total | 12,470 | 0 | 0 | 0 | 0 | 0 | 0 | 12,270 | 200 |
| Bureau of Labor Statistics | 1,300 | 0 | 0 | 0 | 0 | 0 | 0 | 1,300 | 0 |
| Employment & Training Admin | 2,375 | 0 | 0 | 0 | 0 | 0 | 0 | 2,375 | 0 |
| Occupational Safety & Hlth Admin | 3,495 | 0 | 0 | 0 | 0 | 0 | 0 | 3,495 | 0 |
| Office of the Secretary | 2,918 | 0 | 0 | 0 | 0 | 0 | 0 | 2,718 | 200 |
| Pension Benefit Guaranty Corp | 54 | 0 | 0 | 0 | 0 | 0 | 0 | 54 | 0 |
| Pension & Welfare Benefits Admin | 2,328 | 0 | 0 | 0 | 0 | 0 | 0 | 2,328 | 0 |
| Department of State | 500 | 0 | 0 | 0 | 0 | 0 | 0 | 500 | 0 |
| Department of Transportation, total | 339,998 | 12,141 | 25,274 | 2,558 | 6,199 | 89,951 | 170,980 | 10,663 | 22,232 |
| Coast Guard | 4,944 | 0 | 618 | 0 | 610 | 1,208 | 2,508 | 0 | 0 |
| Federal Aviation Administration | 67,570 | 4,178 | 24,543 | 2,258 | 1,696 | 0 | 28,711 | 0 | 6,184 |
| Federal Highway Administration | 181,043 | 553 | 113 | 0 | 3,808 | 76,704 | 78,941 | 4,876 | 16,048 |
| Federal Railroad Administration | 23,495 | 0 | 0 | 0 | 0 | 100 | 23,395 | 0 | 0 |
| Federal Transit Administration | 5,802 | 0 | 0 | 0 | 0 | 113 | 5,120 | 569 | 0 |
| Maritime Administration | 2,006 | 0 | 0 | 0 | 85 | 0 | 1,836 | 85 | 0 |
| National Highway Traffic Safety Administration | 45,663 | 7,410 | 0 | 0 | 0 | 10,376 | 23,044 | 4,833 | 0 |
| Research & Special Programs Admin .. | 9,475 | 0 | 0 | 300 | 0 | 1,450 | 7,425 | 300 | 0 |
| Department of the Treasury, total | 53,872 | 510 | 455 | 1,394 | 0 | 14,500 | 100 | 36,913 | 0 |
| Bureau of Engraving & Printing | 1,144 | 0 | 0 | 1,044 | 0 | 0 | 100 | 0 | 0 |
| Internal Revenue Service | 50,830 | 0 | 0 | 0 | 0 | 14,500 | 0 | 36,330 | 0 |
| Office of Thrift Supervision | 583 | 0 | 0 | 0 | 0 | 0 | 0 | 583 | 0 |
| United States Customs Service | 700 | 350 | 0 | 350 | 0 | 0 | 0 | 0 | 0 |
| United States Secret Service ¹¹ | 615 | 160 | 455 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Veterans Affairs | 222,520 | 207,300 | 15,020 | 0 | 0 | 0 | 200 | 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 1997

[Dollars in thousands]

| Agency and subdivision | Total | Life sciences | Psychology | Physical sciences | Environmental sciences | Mathematics and computer sciences | Engineering | Social sciences | Other sciences, n.e.c. |
|---|-----------|---------------|------------|-------------------|------------------------|-----------------------------------|-------------|-----------------|------------------------|
| Other agencies: | | | | | | | | | |
| Appalachian Regional Commission | 900 | 0 | 0 | 0 | 0 | 0 | 0 | 900 | 0 |
| Environmental Protection Agency | 335,468 | 92,740 | 0 | 0 | 143,565 | 0 | 99,163 | 0 | 0 |
| Federal Communications Commission | 2,749 | 0 | 0 | 90 | 0 | 142 | 1,485 | 1,032 | 0 |
| Federal Trade Commission | 1,034 | 0 | 0 | 0 | 0 | 0 | 0 | 1,034 | 0 |
| International Development Cooperation Agency, total | 167,870 | 150,962 | 0 | 0 | 0 | 0 | 0 | 14,247 | 2,661 |
| Agency for Internat'l Dvlprmt | 167,870 | 150,962 | 0 | 0 | 0 | 0 | 0 | 14,247 | 2,661 |
| Library of Congress | 1,428 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,428 |
| Nat'l Aeronautics & Space Admin ¹² | 2,355,587 | 200,942 | 16,530 | 208,901 | 415,170 | 60,595 | 1,444,474 | 0 | 8,975 |
| National Archives & Records Admin | 120 | 0 | 0 | 120 | 0 | 0 | 0 | 0 | 0 |
| National Science Foundation | 189,303 | 17,528 | 3,611 | 22,009 | 7,087 | 17,513 | 91,113 | 12,886 | 17,556 |
| Nuclear Regulatory Commission | 59,014 | 0 | 0 | 0 | 0 | 0 | 59,014 | 0 | 0 |
| Social Security Administration ¹³ | 27,698 | 0 | 0 | 0 | 0 | 0 | 0 | 27,698 | 0 |
| Tennessee Valley Authority | 14,182 | 8,999 | 0 | 916 | 2,956 | 29 | 945 | 0 | 337 |
| US Arms Control & Disarmament Agcy | 1,000 | 30 | 0 | 510 | 0 | 80 | 30 | 220 | 130 |
| United States Information Agency | 136 | 0 | 0 | 0 | 0 | 0 | 136 | 0 | 0 |
| US Internat'l Trade Commission | 12,511 | 0 | 0 | 0 | 0 | 0 | 0 | 12,511 | 0 |

- 1 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 2 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.
- 3 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.
- 4 The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.
- 5 This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.
- 6 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.
- 7 Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
- 8 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.
- 9 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.
- 10 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.
- 11 The United States Secret Service was formerly listed as the Office of Protective Research.
- 12 The National Aeronautics and Space Administration has made a statistical adjustment to the 1994, 1995, 1996, and 1997 field of science and engineering values to diminish a computational error introduced by its software.
- 13 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.

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: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-45. Federal obligations for applied research in psychology and life sciences, by agency and detailed field of science: fiscal year 1995

[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 | Agricul-tural | Medical | Life sciences, n.e.c. |
| Total, all agencies | 345,247 | 28,081 | 134,073 | 183,093 | 5,224,137 | 1,605,244 | 601,717 | 365,751 | 2,364,013 | 287,412 |
| Departments: | | | | | | | | | | |
| Department of Agriculture, total | 403 | 0 | 403 | 0 | 477,910 | 54,123 | 146,229 | 265,314 | 12,239 | 5 |
| Agricultural Marketing Service | 0 | 0 | 0 | 0 | 4,180 | 0 | 0 | 4,180 | 0 | 0 |
| Agricultural Research Service ¹ | 0 | 0 | 0 | 0 | 223,335 | 5,620 | 33,922 | 180,116 | 3,672 | 5 |
| Cooperative State Research, Education, & Extension Service ² | 0 | 0 | 0 | 0 | 159,092 | 31,589 | 44,749 | 78,005 | 4,749 | 0 |
| Foreign Agricultural Service ³ | 0 | 0 | 0 | 0 | 114 | 0 | 0 | 114 | 0 | 0 |
| Forest Service | 403 | 0 | 403 | 0 | 89,705 | 16,914 | 67,558 | 1,415 | 3,818 | 0 |
| Grain Inspection Packers & Stockyards Administration ⁴ | 0 | 0 | 0 | 0 | 1,484 | 0 | 0 | 1,484 | 0 | 0 |
| Department of Commerce, total | 228 | 0 | 228 | 0 | 150,274 | 37,594 | 70,708 | 21,847 | 19,284 | 841 |
| Bureau of the Census | 228 | 0 | 228 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Inst of Standards & Tech | 0 | 0 | 0 | 0 | 33,233 | 18,771 | 0 | 0 | 14,462 | 0 |
| Nat'l Oceanic & Atmospheric Admin | 0 | 0 | 0 | 0 | 117,041 | 18,823 | 70,708 | 21,847 | 4,822 | 841 |
| Department of Defense, total | 89,624 | 4,289 | 80,127 | 5,208 | 245,122 | 22,428 | 31,912 | 0 | 152,105 | 38,677 |
| Department of the Army | 9,907 | 640 | 9,267 | 0 | 124,841 | 6,748 | 1,561 | 0 | 116,532 | 0 |
| Department of the Navy | 13,881 | 2,118 | 11,763 | 0 | 13,740 | 5,881 | 1,601 | 0 | 6,258 | 0 |
| Department of the Air Force | 58,112 | 869 | 52,035 | 5,208 | 54,276 | 0 | 28,370 | 0 | 21,567 | 4,339 |
| Defense Agencies, total | 7,724 | 662 | 7,062 | 0 | 52,265 | 9,799 | 380 | 0 | 7,748 | 34,338 |
| Defense Logistics Agency | 7,062 | 0 | 7,062 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Defense Nuclear Agency | 0 | 0 | 0 | 0 | 4,411 | 4,361 | 0 | 0 | 50 | 0 |
| Special Operations Command | 0 | 0 | 0 | 0 | 1,218 | 0 | 0 | 0 | 0 | 1,218 |
| Washington Headquarters Svcs ⁵ | 662 | 662 | 0 | 0 | 46,636 | 5,438 | 380 | 0 | 7,698 | 33,120 |
| Department of Education | 3,688 | 0 | 2,576 | 1,112 | 11,973 | 0 | 0 | 0 | 4,721 | 7,252 |
| Department of Energy | 0 | 0 | 0 | 0 | 80,512 | 28,239 | 1,841 | 0 | 47,374 | 3,058 |
| Dept of Health & Human Svcs, total | 180,989 | 7,301 | 3,112 | 170,576 | 3,373,845 | 1,295,857 | 15,144 | 62,135 | 1,832,396 | 168,313 |
| Agcy for Hlth Care Policy & Rsch | 1,116 | 21 | 732 | 363 | 57,864 | 0 | 0 | 0 | 46,619 | 11,245 |
| Centers for Disease Control & Prevention | 0 | 0 | 0 | 0 | 317,385 | 0 | 0 | 0 | 317,385 | 0 |
| Food & Drug Administration | 0 | 0 | 0 | 0 | 170,462 | 90,337 | 0 | 62,135 | 0 | 17,990 |
| Health Care Financing Admin | 0 | 0 | 0 | 0 | 74,537 | 0 | 0 | 0 | 0 | 74,537 |
| Health Resources & Services Admin | 0 | 0 | 0 | 0 | 11,201 | 0 | 0 | 0 | 11,201 | 0 |
| National Institutes of Health ⁶ | 179,873 | 7,280 | 2,380 | 170,213 | 2,742,396 | 1,205,520 | 15,144 | 0 | 1,457,191 | 64,541 |
| Department of the Interior, total | 0 | 0 | 0 | 0 | 132,340 | 69,209 | 62,930 | 201 | 0 | 0 |
| Geological Survey ⁷ | 0 | 0 | 0 | 0 | 2,826 | 1,270 | 1,424 | 132 | 0 | 0 |
| Minerals Management Service | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 0 |
| National Biological Service ^{8 7} | 0 | 0 | 0 | 0 | 125,810 | 66,679 | 59,131 | 0 | 0 | 0 |
| National Park Service ⁸ | 0 | 0 | 0 | 0 | 3,700 | 1,260 | 2,371 | 69 | 0 | 0 |
| Department of Justice, total | 1,032 | 0 | 625 | 407 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bureau of Prisons | 532 | 0 | 325 | 207 | 0 | 0 | 0 | 0 | 0 | 0 |
| Office of Justice Programs | 500 | 0 | 300 | 200 | 0 | 0 | 0 | 0 | 0 | 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 1995

[Dollars in thousands]

Page 2 of 2

| Agency and subdivision | Psychology | | | | Life sciences | | | | | |
|---|------------|---------------------|----------------|---------------------------------|---------------|-------------|------------------------|---------------|---------|-----------------------|
| | Total | Bio-logical aspects | Social aspects | Psycho-logical sciences, n.e.c. | Total | Bio-logical | Environ-mental biology | Agricul-tural | Medical | Life sciences, n.e.c. |
| Department of Transportation, total | 34,083 | 0 | 31,641 | 2,442 | 5,719 | 0 | 36 | 143 | 0 | 5,540 |
| Coast Guard | 590 | 0 | 590 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Federal Aviation Administration | 30,680 | 0 | 30,680 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Federal Highway Administration | 2,813 | 0 | 371 | 2,442 | 179 | 0 | 36 | 143 | 0 | 0 |
| National Highway Traffic Safety Administration | 0 | 0 | 0 | 0 | 5,540 | 0 | 0 | 0 | 0 | 5,540 |
| Department of the Treasury, total | 394 | 0 | 0 | 394 | 633 | 480 | 0 | 0 | 153 | 0 |
| United States Customs Service | 0 | 0 | 0 | 0 | 480 | 480 | 0 | 0 | 0 | 0 |
| United States Secret Service ⁹ | 394 | 0 | 0 | 394 | 153 | 0 | 0 | 0 | 153 | 0 |
| Department of Veterans Affairs | 15,891 | 15,861 | 30 | 0 | 190,334 | 31,523 | 0 | 0 | 158,811 | 0 |
| Other agencies: | | | | | | | | | | |
| Environmental Protection Agency | 0 | 0 | 0 | 0 | 91,595 | 0 | 74,223 | 0 | 17,372 | 0 |
| International Development Cooperation Agency, total | 0 | 0 | 0 | 0 | 259,991 | 0 | 184,685 | 14,017 | 8,240 | 53,049 |
| Agency for Internat'l Dvlpmt | 0 | 0 | 0 | 0 | 259,991 | 0 | 184,685 | 14,017 | 8,240 | 53,049 |
| Nat'l Aeronautics & Space Admin ¹⁰ | 15,447 | 0 | 14,247 | 1,200 | 184,692 | 59,094 | 5,894 | 0 | 111,318 | 8,386 |
| National Science Foundation | 3,468 | 630 | 1,084 | 1,754 | 17,053 | 6,697 | 8,115 | 0 | 0 | 2,241 |
| Tennessee Valley Authority | 0 | 0 | 0 | 0 | 2,094 | 0 | 0 | 2,094 | 0 | 0 |
| US Arms Control & Disarmament Agcy ... | 0 | 0 | 0 | 0 | 50 | 0 | 0 | 0 | 0 | 50 |

- 1 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 2 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.
- 3 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.
- 4 The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.
- 5 Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
- 6 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.
- 7 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.
- 8 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.
- 9 The United States Secret Service was formerly listed as the Office of Protective Research.
- 10 The National Aeronautics and Space Administration has made a statistical adjustment to the 1994, 1995, 1996, and 1997 field of science and engineering values to diminish a computational error introduced by its software.

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: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-46. Federal obligations for applied research in physical and environmental sciences, by agency and detailed field of science: fiscal year 1995

[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 | 1,418,542 | 32,901 | 309,102 | 943,798 | 132,741 | 1,474,178 | 482,068 | 410,491 | 238,139 | 343,480 |
| Departments: | | | | | | | | | | |
| Department of Agriculture, total | 48,136 | 0 | 45,262 | 2,874 | 0 | 9,293 | 7,897 | 1,392 | 0 | 4 |
| Agricultural Research Service ¹ | 26,650 | 0 | 25,268 | 1,382 | 0 | 2,045 | 1,891 | 150 | 0 | 4 |
| Cooperative State Research, Education, & Extension Service ² | 15,874 | 0 | 15,874 | 0 | 0 | 1,953 | 1,953 | 0 | 0 | 0 |
| Forest Service | 5,612 | 0 | 4,120 | 1,492 | 0 | 5,295 | 4,053 | 1,242 | 0 | 0 |
| Department of Commerce, total | 74,408 | 0 | 31,883 | 41,787 | 738 | 290,536 | 140,884 | 43,368 | 95,930 | 10,354 |
| National Inst of Standards & Tech | 52,967 | 0 | 20,178 | 32,051 | 738 | 165 | 0 | 165 | 0 | 0 |
| Nat'l Oceanic & Atmospheric Admin | 21,441 | 0 | 11,705 | 9,736 | 0 | 290,371 | 140,884 | 43,203 | 95,930 | 10,354 |
| Department of Defense, total | 356,906 | 0 | 57,263 | 268,857 | 30,786 | 183,058 | 55,814 | 34,748 | 37,974 | 54,522 |
| Department of the Army | 58,538 | 0 | 31,618 | 15,679 | 11,241 | 29,377 | 6,486 | 813 | 486 | 21,592 |
| Department of the Navy | 125,115 | 0 | 11,621 | 110,717 | 2,777 | 16,280 | 3,059 | 1,459 | 11,762 | 0 |
| Department of the Air Force | 98,108 | 0 | 4,984 | 92,581 | 543 | 7,781 | 1,221 | 1,435 | 0 | 5,125 |
| Defense Agencies, total | 75,145 | 0 | 9,040 | 49,880 | 16,225 | 129,620 | 45,048 | 31,041 | 25,726 | 27,805 |
| Ballistic Missile Defense Organization | 16,232 | 0 | 3,645 | 11,587 | 1,000 | 4,553 | 4,553 | 0 | 0 | 0 |
| Defense Advanced Research Projects Agency ³ | 7,724 | 0 | 395 | 4,678 | 2,651 | 23,844 | 0 | 17,151 | 6,666 | 27 |
| Defense Nuclear Agency | 46,189 | 0 | 0 | 33,615 | 12,574 | 12,490 | 5,760 | 0 | 0 | 6,730 |
| Washington Headquarters Svcs ⁴ | 5,000 | 0 | 5,000 | 0 | 0 | 88,733 | 34,735 | 13,890 | 19,060 | 21,048 |
| Department of Energy | 718,246 | 0 | 86,946 | 548,415 | 82,885 | 233,979 | 8,996 | 48,677 | 1,410 | 174,896 |
| Dept of Health & Human Svcs, total | 36,146 | 0 | 31,342 | 4,804 | 0 | 11,546 | 0 | 0 | 0 | 11,546 |
| National Institutes of Health ⁵ | 36,146 | 0 | 31,342 | 4,804 | 0 | 11,546 | 0 | 0 | 0 | 11,546 |
| Dept of Housing & Urban Dvlpmt | 0 | 0 | 0 | 0 | 0 | 156 | 0 | 0 | 0 | 156 |
| Department of the Interior, total | 38,113 | 0 | 31,761 | 6,352 | 0 | 252,196 | 3,126 | 236,427 | 12,643 | 0 |
| Geological Survey ⁶ | 38,113 | 0 | 31,761 | 6,352 | 0 | 237,178 | 751 | 236,427 | 0 | 0 |
| Minerals Management Service | 0 | 0 | 0 | 0 | 0 | 12,971 | 402 | 0 | 12,569 | 0 |
| National Park Service ⁷ | 0 | 0 | 0 | 0 | 0 | 2,047 | 1,973 | 0 | 74 | 0 |
| Department of Justice, total | 900 | 0 | 300 | 0 | 600 | 0 | 0 | 0 | 0 | 0 |
| Office of Justice Programs | 900 | 0 | 300 | 0 | 600 | 0 | 0 | 0 | 0 | 0 |

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 1995

[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. |
| Department of Transportation, total | 1,389 | 0 | 0 | 1,189 | 200 | 5,699 | 3,627 | 102 | 581 | 1,389 |
| Coast Guard | 0 | 0 | 0 | 0 | 0 | 581 | 0 | 0 | 581 | 0 |
| Federal Aviation Administration | 1,189 | 0 | 0 | 1,189 | 0 | 1,524 | 1,524 | 0 | 0 | 0 |
| Federal Highway Administration | 0 | 0 | 0 | 0 | 0 | 3,394 | 1,978 | 77 | 0 | 1,339 |
| Federal Transit Administration | 0 | 0 | 0 | 0 | 0 | 25 | 0 | 25 | 0 | 0 |
| Maritime Administration | 0 | 0 | 0 | 0 | 0 | 125 | 125 | 0 | 0 | 0 |
| Office of the Secretary | 0 | 0 | 0 | 0 | 0 | 50 | 0 | 0 | 0 | 50 |
| Research & Special Programs Admin .. | 200 | 0 | 0 | 0 | 200 | 0 | 0 | 0 | 0 | 0 |
| Department of the Treasury, total | 1,185 | 0 | 233 | 142 | 810 | 0 | 0 | 0 | 0 | 0 |
| Bureau of Engraving & Printing | 1,185 | 0 | 233 | 142 | 810 | 0 | 0 | 0 | 0 | 0 |
| Other agencies: | | | | | | | | | | |
| Environmental Protection Agency | 0 | 0 | 0 | 0 | 0 | 141,791 | 66,120 | 9,225 | 0 | 66,446 |
| Federal Communications Commission | 80 | 0 | 0 | 0 | 80 | 0 | 0 | 0 | 0 | 0 |
| Nat'l Aeronautics & Space Admin ⁸ | 119,213 | 32,872 | 8,465 | 64,859 | 13,017 | 338,560 | 193,825 | 33,168 | 88,311 | 23,256 |
| National Archives & Records Admin | 120 | 0 | 80 | 40 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Science Foundation | 17,884 | 29 | 10,023 | 4,309 | 3,523 | 6,422 | 837 | 3,384 | 1,290 | 911 |
| Tennessee Valley Authority | 5,300 | 0 | 5,300 | 0 | 0 | 942 | 942 | 0 | 0 | 0 |
| US Arms Control & Disarmament Agcy ... | 516 | 0 | 244 | 170 | 102 | 0 | 0 | 0 | 0 | 0 |

- 1 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 2 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.
- 3 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.
- 4 Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
- 5 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.
- 6 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.
- 7 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.
- 8 The National Aeronautics and Space Administration has made a statistical adjustment to the 1994, 1995, 1996, and 1997 field of science and engineering values to diminish a computational error introduced by its software.

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: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-47. Federal obligations for applied research in engineering, by agency and detailed field of engineering: fiscal year 1995

[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 | 4,272,015 | 977,616 | 480,387 | 184,896 | 269,298 | 552,292 | 248,184 | 447,269 | 1,112,073 |
| Departments: | | | | | | | | | |
| Department of Agriculture, total | 54,656 | 0 | 0 | 5,347 | 5,126 | 237 | 2,936 | 0 | 41,010 |
| Agricultural Research Service ¹ | 6,564 | 0 | 0 | 3,485 | 1,143 | 170 | 355 | 0 | 1,411 |
| Cooperative State Research, Education, & Extension Service ² | 20,371 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20,371 |
| Forest Service | 27,721 | 0 | 0 | 1,862 | 3,983 | 67 | 2,581 | 0 | 19,228 |
| Department of Commerce, total | 179,671 | 0 | 0 | 11,354 | 11,637 | 55,798 | 5,612 | 55,597 | 39,673 |
| National Inst of Standards & Tech | 163,875 | 0 | 0 | 11,354 | 11,637 | 47,507 | 5,612 | 55,597 | 32,168 |
| Nat'l Oceanic & Atmospheric Admin | 9,413 | 0 | 0 | 0 | 0 | 1,908 | 0 | 0 | 7,505 |
| National Telecommunications & Information Administration | 6,383 | 0 | 0 | 0 | 0 | 6,383 | 0 | 0 | 0 |
| Department of Defense, total | 1,545,815 | 106,512 | 81,441 | 37,019 | 72,384 | 411,408 | 175,272 | 328,218 | 333,561 |
| Department of the Army | 322,964 | 23,523 | 1,242 | 15,074 | 38,995 | 118,900 | 46,721 | 17,729 | 60,780 |
| Department of the Navy | 281,284 | 7,011 | 44,089 | 7,011 | 13,034 | 100,741 | 59,852 | 47,665 | 1,881 |
| Department of the Air Force | 322,780 | 71,526 | 33,910 | 6,247 | 11,652 | 77,082 | 57,581 | 54,586 | 10,196 |
| Defense Agencies, total | 618,787 | 4,452 | 2,200 | 8,687 | 8,703 | 114,685 | 11,118 | 208,238 | 260,704 |
| Ballistic Missile Defense Organization | | | | | | | | | |
| Defense Advanced Research Projects Agency ³ | 46,225 | 0 | 2,000 | 1,119 | 0 | 9,001 | 148 | 3,823 | 30,134 |
| Defense Nuclear Agency | 462,077 | 4,052 | 0 | 0 | 7,087 | 75,323 | 511 | 204,015 | 171,089 |
| Special Operations Command | 57,480 | 0 | 0 | 2,068 | 1,616 | 29,755 | 10,059 | 0 | 13,982 |
| Washington Headquarters Svcs ⁴ | 37,693 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 37,693 |
| | 15,312 | 400 | 200 | 5,500 | 0 | 606 | 400 | 400 | 7,806 |
| Department of Education | 5,737 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5,737 |
| Department of Energy | 620,242 | 0 | 11,633 | 98,937 | 52,478 | 50,721 | 21,877 | 4,083 | 380,513 |
| Dept of Health & Human Svcs, total | 43,406 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 43,406 |
| National Institutes of Health ⁵ | 43,406 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 43,406 |
| Dept of Housing & Urban Dvlpmt | 750 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 750 |
| Department of the Interior, total | 21,475 | 0 | 0 | 12,318 | 7,864 | 126 | 836 | 135 | 196 |
| Bureau of Reclamation | 5,997 | 0 | 0 | 0 | 5,967 | 30 | 0 | 0 | 0 |
| Geological Survey ⁶ | 11,198 | 0 | 0 | 10,164 | 781 | 96 | 157 | 0 | 0 |
| Minerals Management Service | 3,817 | 0 | 0 | 2,154 | 653 | 0 | 679 | 135 | 196 |
| National Park Service ⁷ | 463 | 0 | 0 | 0 | 463 | 0 | 0 | 0 | 0 |
| Department of Justice, total | 400 | 0 | 0 | 0 | 0 | 175 | 225 | 0 | 0 |
| Immigration & Naturalization Svc | 400 | 0 | 0 | 0 | 0 | 175 | 225 | 0 | 0 |

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 1995

[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. |
|--|-----------|---------------|----------------|----------|---------|-------------|-------------|--------------------------|----------------------|
| Department of Transportation, total | 175,167 | 275 | 0 | 54 | 114,776 | 2,771 | 20,274 | 10,255 | 26,762 |
| Coast Guard | 2,444 | 0 | 0 | 0 | 408 | 1,104 | 485 | 447 | 0 |
| Federal Aviation Administration | 48,539 | 0 | 0 | 0 | 40,541 | 0 | 0 | 7,998 | 0 |
| Federal Highway Administration | 71,932 | 0 | 0 | 54 | 68,201 | 77 | 1,226 | 1,060 | 1,314 |
| Federal Railroad Administration | 22,041 | 0 | 0 | 0 | 3,648 | 1,323 | 9,923 | 750 | 6,397 |
| Federal Transit Administration | 4,678 | 0 | 0 | 0 | 190 | 267 | 240 | 0 | 3,981 |
| Maritime Administration | 2,163 | 0 | 0 | 0 | 1,788 | 0 | 0 | 0 | 375 |
| National Highway Traffic Safety Administration | 21,306 | 0 | 0 | 0 | 0 | 0 | 8,400 | 0 | 12,906 |
| Office of the Secretary | 525 | 275 | 0 | 0 | 0 | 0 | 0 | 0 | 250 |
| Research & Special Programs Admin .. | 1,539 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,539 |
| Department of the Treasury, total | 98 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 98 |
| Bureau of Engraving & Printing | 98 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 98 |
| Department of Veterans Affairs | 191 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 191 |
| Other agencies: | | | | | | | | | |
| Environmental Protection Agency | 97,944 | 0 | 0 | 2,159 | 0 | 0 | 0 | 0 | 95,785 |
| Federal Communications Commission | 1,531 | 0 | 0 | 0 | 0 | 1,531 | 0 | 0 | 0 |
| Nat'l Aeronautics & Space Admin ⁸ | 1,347,714 | 870,829 | 387,313 | 608 | 0 | 17,798 | 7,956 | 32,685 | 30,525 |
| National Science Foundation | 86,342 | 0 | 0 | 14,775 | 5,033 | 11,438 | 13,196 | 16,296 | 25,604 |
| Nuclear Regulatory Commission | 88,212 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 88,212 |
| Tennessee Valley Authority | 2,325 | 0 | 0 | 2,325 | 0 | 0 | 0 | 0 | 0 |
| US Arms Control & Disarmament Agcy ... | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| United States Information Agency | 289 | 0 | 0 | 0 | 0 | 289 | 0 | 0 | 0 |

- 1 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 2 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.
- 3 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.
- 4 Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
- 5 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.
- 6 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.
- 7 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.
- 8 The National Aeronautics and Space Administration has made a statistical adjustment to the 1994, 1995, 1996, and 1997 field of science and engineering values to diminish a computational error introduced by its software.

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: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

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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 1995

[Dollars in thousands]

Page 1 of 3

| 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 | 976,915 | 94,638 | 697,585 | 184,692 | 472,039 | 6,611 | 161,806 | 15,232 | 33,533 | 254,857 |
| Departments: | | | | | | | | | | |
| Department of Agriculture, total | 14,376 | 13,454 | 922 | 0 | 96,395 | 245 | 90,526 | 0 | 5,624 | 0 |
| Agricultural Research Service ¹ | 1,048 | 126 | 922 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cooperative State Research, Education, & Extension Service ² | 0 | 0 | 0 | 0 | 34,430 | 0 | 29,766 | 0 | 4,664 | 0 |
| Economic Research Service | 0 | 0 | 0 | 0 | 48,444 | 0 | 48,444 | 0 | 0 | 0 |
| Forest Service | 10,631 | 10,631 | 0 | 0 | 11,960 | 245 | 10,755 | 0 | 960 | 0 |
| Nat'l Agricultural Statistics Svc | 2,697 | 2,697 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rural Business-Cooperative Svc ³ | 0 | 0 | 0 | 0 | 1,561 | 0 | 1,561 | 0 | 0 | 0 |
| Department of Commerce, total | 101,673 | 12,390 | 83,341 | 5,942 | 18,827 | 0 | 5,362 | 7,690 | 5,229 | 546 |
| Bureau of the Census | 1,649 | 1,432 | 217 | 0 | 678 | 0 | 372 | 306 | 0 | 0 |
| Economic Development Admin | 0 | 0 | 0 | 0 | 521 | 0 | 521 | 0 | 0 | 0 |
| National Inst of Standards & Tech | 82,722 | 3,055 | 73,725 | 5,942 | 183 | 0 | 183 | 0 | 0 | 0 |
| Nat'l Oceanic & Atmospheric Admin | 17,302 | 7,903 | 9,399 | 0 | 17,445 | 0 | 4,286 | 7,384 | 5,229 | 546 |
| Department of Defense, total | 531,498 | 44,661 | 442,984 | 43,853 | 488 | 0 | 292 | 0 | 196 | 0 |
| Department of the Army | 80,418 | 4,490 | 42,366 | 33,562 | 488 | 0 | 292 | 0 | 196 | 0 |
| Department of the Navy | 16,233 | 470 | 14,916 | 847 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of the Air Force | 79,296 | 31,632 | 41,677 | 5,987 | 0 | 0 | 0 | 0 | 0 | 0 |
| Defense Agencies, total | 355,551 | 8,069 | 344,025 | 3,457 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ballistic Missile Defense Organization | 23,501 | 1,000 | 22,441 | 60 | 0 | 0 | 0 | 0 | 0 | 0 |
| Defense Advanced Research Projects Agency ⁴ | 325,576 | 7,069 | 317,916 | 591 | 0 | 0 | 0 | 0 | 0 | 0 |
| Defense Nuclear Agency | 2,838 | 0 | 2,838 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Washington Headquarters Svcs ⁵ | 3,636 | 0 | 830 | 2,806 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Education | 1,229 | 0 | 1,229 | 0 | 110,190 | 0 | 0 | 0 | 1,854 | 108,336 |
| Department of Energy | 109,596 | 489 | 80,396 | 28,711 | 500 | 500 | 0 | 0 | 0 | 0 |
| Dept of Health & Human Svcs, total | 37,963 | 13,633 | 24,330 | 0 | 109,912 | 0 | 14,344 | 2,502 | 2,159 | 90,907 |
| Administration on Aging | 0 | 0 | 0 | 0 | 3,000 | 0 | 0 | 0 | 0 | 3,000 |
| Admin for Children & Families | 0 | 0 | 0 | 0 | 11,200 | 0 | 0 | 0 | 0 | 11,200 |
| Agcy for Hlth Care Policy & Rsch | 10,764 | 128 | 10,636 | 0 | 22,245 | 0 | 14,344 | 2,502 | 2,159 | 3,240 |
| National Institutes of Health ⁶ | 27,199 | 13,505 | 13,694 | 0 | 43,914 | 0 | 0 | 0 | 0 | 43,914 |
| Office of the Secretary | 0 | 0 | 0 | 0 | 9,121 | 0 | 0 | 0 | 0 | 9,121 |
| Social Security Administration ⁷ | 0 | 0 | 0 | 0 | 20,432 | 0 | 0 | 0 | 0 | 20,432 |

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 1995

[Dollars in thousands]

Page 2 of 3

| 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. |
| Dept of Housing & Urban Dvlpmt | 31 | 0 | 31 | 0 | 10,619 | 0 | 6,103 | 331 | 748 | 3,437 |
| Department of the Interior, total | 18,139 | 3,049 | 13,771 | 1,319 | 14,327 | 4,782 | 76 | 0 | 1,852 | 7,617 |
| Geological Survey ⁸ | 16,609 | 3,049 | 13,560 | 0 | 324 | 0 | 0 | 0 | 0 | 324 |
| Minerals Management Service | 1,319 | 0 | 0 | 1,319 | 1,899 | 17 | 69 | 0 | 1,813 | 0 |
| National Park Service ⁹ | 211 | 0 | 211 | 0 | 12,104 | 4,765 | 7 | 0 | 39 | 7,293 |
| Department of Justice, total | 0 | 0 | 0 | 0 | 14,105 | 62 | 262 | 400 | 6,790 | 6,591 |
| Bureau of Prisons | 0 | 0 | 0 | 0 | 2,717 | 62 | 62 | 0 | 1,288 | 1,305 |
| Office of Justice Programs | 0 | 0 | 0 | 0 | 11,388 | 0 | 200 | 400 | 5,502 | 5,286 |
| Department of Labor, total | 0 | 0 | 0 | 0 | 16,648 | 0 | 16,648 | 0 | 0 | 0 |
| Bureau of Labor Statistics | 0 | 0 | 0 | 0 | 1,500 | 0 | 1,500 | 0 | 0 | 0 |
| Employment & Training Admin | 0 | 0 | 0 | 0 | 4,206 | 0 | 4,206 | 0 | 0 | 0 |
| Occupational Safety & Hlth Admin | 0 | 0 | 0 | 0 | 4,370 | 0 | 4,370 | 0 | 0 | 0 |
| Office of the Secretary | 0 | 0 | 0 | 0 | 2,872 | 0 | 2,872 | 0 | 0 | 0 |
| Pension Benefit Guaranty Corp | 0 | 0 | 0 | 0 | 102 | 0 | 102 | 0 | 0 | 0 |
| Pension & Welfare Benefits Admin | 0 | 0 | 0 | 0 | 3,598 | 0 | 3,598 | 0 | 0 | 0 |
| Department of State | 0 | 0 | 0 | 0 | 500 | 0 | 29 | 336 | 106 | 29 |
| Department of Transportation, total | 72,401 | 115 | 15,652 | 56,634 | 14,355 | 0 | 4,008 | 1,158 | 6,393 | 2,796 |
| Coast Guard | 1,315 | 0 | 1,315 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Federal Highway Administration | 59,490 | 115 | 3,145 | 56,230 | 4,766 | 0 | 2,111 | 779 | 741 | 1,135 |
| Federal Railroad Administration | 504 | 0 | 364 | 140 | 0 | 0 | 0 | 0 | 0 | 0 |
| Federal Transit Administration | 684 | 0 | 420 | 264 | 5,479 | 0 | 1,682 | 379 | 1,919 | 1,499 |
| Maritime Administration | 0 | 0 | 0 | 0 | 162 | 0 | 0 | 0 | 0 | 162 |
| National Highway Traffic Safety Administration | 9,128 | 0 | 9,128 | 0 | 3,733 | 0 | 0 | 0 | 3,733 | 0 |
| Office of the Secretary | 0 | 0 | 0 | 0 | 15 | 0 | 15 | 0 | 0 | 0 |
| Research & Special Programs Admin .. | 1,280 | 0 | 1,280 | 0 | 200 | 0 | 200 | 0 | 0 | 0 |
| Department of the Treasury, total | 17,430 | 0 | 17,430 | 0 | 29,147 | 0 | 1,508 | 0 | 0 | 27,639 |
| Internal Revenue Service | 17,200 | 0 | 17,200 | 0 | 28,597 | 0 | 958 | 0 | 0 | 27,639 |
| Office of Thrift Supervision | 0 | 0 | 0 | 0 | 550 | 0 | 550 | 0 | 0 | 0 |
| United States Customs Service | 230 | 0 | 230 | 0 | 0 | 0 | 0 | 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 1995

[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: | | | | | | | | | | |
| Advisory Commission on Intergovernmental Relations | 0 | 0 | 0 | 0 | 1,413 | 0 | 706 | 707 | 0 | 0 |
| Appalachian Regional Commission | 0 | 0 | 0 | 0 | 900 | 0 | 0 | 900 | 0 | 0 |
| Federal Communications Commission | 128 | 0 | 128 | 0 | 529 | 0 | 529 | 0 | 0 | 0 |
| Federal Trade Commission | 0 | 0 | 0 | 0 | 564 | 0 | 564 | 0 | 0 | 0 |
| International Development Cooperation Agency, total | 0 | 0 | 0 | 0 | 7,844 | 0 | 5,339 | 250 | 455 | 1,800 |
| Agency for Internat'l Dvlpmt | 0 | 0 | 0 | 0 | 7,844 | 0 | 5,339 | 250 | 455 | 1,800 |
| Nat'l Aeronautics & Space Admin ¹⁰ | 55,709 | 3,784 | 8,832 | 43,093 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Science Foundation | 16,607 | 3,063 | 8,539 | 5,005 | 11,954 | 1,022 | 2,883 | 763 | 2,127 | 5,159 |
| Tennessee Valley Authority | 0 | 0 | 0 | 0 | 475 | 0 | 475 | 0 | 0 | 0 |
| US Arms Control & Disarmament Agcy ... | 135 | 0 | 0 | 135 | 195 | 0 | 0 | 195 | 0 | 0 |
| US Internat'l Trade Commission | 0 | 0 | 0 | 0 | 12,152 | 0 | 12,152 | 0 | 0 | 0 |

- 1 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 2 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.
- 3 This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.
- 4 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.
- 5 Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
- 6 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.
- 7 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.
- 8 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.
- 9 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.
- 10 The National Aeronautics and Space Administration has made a statistical adjustment to the 1994, 1995, 1996, and 1997 field of science and engineering values to diminish a computational error introduced by its software.

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: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

**Table C-49. Federal obligations for development, by agency and performer:
fiscal year 1995**

[Dollars in thousands]

| Agency and subdivision | Total | Intra-mural ¹ | Extramural | | | | | | | | Foreign |
|--|-------------------|--------------------------|-------------------------------|----------------------------------|---------------------------|------------------------------------|-------------------------------|---|---------------|-----------------------|---------|
| | | | United States and territories | | | | | | | State and local govts | |
| | | | Industrial firms | FFRDCs admin by industrial firms | Universities and colleges | FFRDCs admin by univs and colleges | Other non-profit institutions | FFRDCs admin by non-profit institutions | | | |
| Total, all agencies | 40,181,441 | 9,554,898 | 25,740,726 | 385,905 | 1,561,446 | 1,338,703 | 750,386 | 621,263 | 95,095 | 133,019 | |
| Departments: | | | | | | | | | | | |
| Department of Agriculture, total | 80,201 | 75,863 | 0 | 0 | 3,691 | 0 | 311 | 0 | 23 | 313 | |
| Agricultural Marketing Service | 617 | 617 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Agricultural Research Service ² | 54,662 | 51,911 | 0 | 0 | 2,104 | 0 | 311 | 0 | 23 | 313 | |
| Animal & Plant Hlth Inspection Svc | 19,117 | 17,530 | 0 | 0 | 1,587 | 0 | 0 | 0 | 0 | 0 | |
| Forest Service | 5,805 | 5,805 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Department of Commerce, total | 243,685 | 71,856 | 167,201 | 0 | 2,838 | 0 | 1,240 | 0 | 0 | 550 | |
| Bureau of the Census | 1,926 | 1,926 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| National Inst of Standards & Tech | 191,190 | 22,081 | 167,032 | 0 | 327 | 0 | 1,200 | 0 | 0 | 550 | |
| Nat'l Oceanic & Atmospheric Admin | 50,569 | 47,849 | 169 | 0 | 2,511 | 0 | 40 | 0 | 0 | 0 | |
| Department of Defense, total ³ | 30,028,100 | 7,343,310 | 21,042,366 | 74,263 | 529,603 | 191,076 | 303,228 | 452,260 | 1,293 | 90,701 | |
| Department of the Army | 4,567,195 | 1,866,769 | 2,476,107 | 23,476 | 142,315 | 23,561 | 3,745 | 22,401 | 0 | 8,821 | |
| Department of the Navy | 8,083,306 | 2,974,690 | 4,725,519 | 1,088 | 197,921 | 23,059 | 82,494 | 68,759 | 0 | 9,776 | |
| Department of the Air Force | 10,963,449 | 723,479 | 9,904,415 | 14,082 | 22,979 | 37,506 | 2,371 | 257,770 | 448 | 399 | |
| Defense Agencies, total | 6,161,460 | 1,575,853 | 3,904,552 | 35,617 | 166,388 | 106,800 | 214,218 | 85,482 | 845 | 71,705 | |
| Ballistic Missile Defense Organization | 2,290,399 | 425,665 | 1,679,667 | 20,041 | 62,445 | 54,789 | 1,158 | 16,935 | 0 | 29,699 | |
| Defense Advanced Research Projects Agency ⁴ | 1,582,389 | 326,132 | 931,925 | 721 | 67,723 | 23,413 | 211,503 | 17,180 | 845 | 2,947 | |
| Defense Information Systems Agency | 77,273 | 16,754 | 46,479 | 0 | 833 | 828 | 0 | 12,379 | 0 | 0 | |
| Defense Logistics Agency | 26,488 | 9,750 | 12,657 | 0 | 4,081 | 0 | 0 | 0 | 0 | 0 | |
| Defense Mapping Agency | 78,299 | 4,672 | 71,177 | 0 | 1,132 | 500 | 0 | 818 | 0 | 0 | |
| Defense Nuclear Agency | 34,874 | 8,744 | 22,128 | 1,422 | 0 | 1,421 | 500 | 460 | 0 | 199 | |
| Joint Staff | 4,154 | 3,656 | 498 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Special Operations Command | 224,699 | 50,958 | 134,473 | 3,767 | 0 | 0 | 0 | 0 | 0 | 35,501 | |
| Washington Headquarters Svcs ⁵ | 1,842,885 | 729,522 | 1,005,548 | 9,666 | 30,174 | 25,849 | 1,057 | 37,710 | 0 | 3,359 | |
| Operational Test & Evaluation, Director | 21,707 | 7,937 | 0 | 0 | 0 | 150 | 400 | 13,220 | 0 | 0 | |
| Test & Evaluation, Deputy Under Secretary of Defense | 230,983 | 194,582 | 31,773 | 0 | 0 | 0 | 0 | 4,628 | 0 | 0 | |
| Department of Defense, total advanced technology (at) ³ | 4,578,194 | 1,504,690 | 2,379,850 | 38,525 | 192,010 | 108,060 | 257,669 | 61,916 | 845 | 34,629 | |
| Department of the Army (at) | 640,728 | 369,952 | 204,006 | 20,853 | 20,281 | 17,849 | 1,549 | 2,279 | 0 | 3,959 | |
| Department of the Navy (at) | 413,927 | 176,220 | 149,647 | 0 | 38,412 | 8,013 | 39,661 | 1,323 | 0 | 651 | |
| Department of the Air Force (at) | 565,686 | 158,681 | 361,092 | 880 | 16,953 | 14,229 | 2,249 | 11,268 | 0 | 334 | |
| Defense Agencies, total (at) | 2,957,853 | 799,837 | 1,665,105 | 16,792 | 116,364 | 67,969 | 214,210 | 47,046 | 845 | 29,685 | |
| Ballistic Missile Defense Organization (at) | 426,398 | 72,141 | 295,428 | 3,802 | 17,287 | 18,286 | 1,150 | 16,425 | 0 | 1,879 | |
| Defense Advanced Research Projects Agency (at) ⁴ | 1,547,656 | 291,399 | 931,925 | 721 | 67,723 | 23,413 | 211,503 | 17,180 | 845 | 2,947 | |
| Defense Logistics Agency (at) | 19,097 | 6,765 | 8,251 | 0 | 4,081 | 0 | 0 | 0 | 0 | 0 | |
| Defense Nuclear Agency (at) | 34,874 | 8,744 | 22,128 | 1,422 | 0 | 1,421 | 500 | 460 | 0 | 199 | |
| Joint Staff (at) | 4,154 | 3,656 | 498 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Special Operations Command (at) | 93,197 | 19,365 | 51,100 | 1,431 | 0 | 0 | 0 | 0 | 0 | 21,301 | |
| Washington Headquarters Services (at) ⁵ | 832,477 | 397,767 | 355,775 | 9,416 | 27,273 | 24,849 | 1,057 | 12,981 | 0 | 3,359 | |

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

**Table C-49. Federal obligations for development, by agency and performer:
fiscal year 1995**

[Dollars in thousands]

| Agency and subdivision | Total | Intra- mural ¹ | Extramural | | | | | | | Foreign |
|--|------------|------------------------------|-------------------------------|--|--------------------------------------|--|--|---|--------------------------------|---------|
| | | | United States and territories | | | | | | | |
| | | | 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) ³ | 25,449,906 | 5,838,620 | 18,662,516 | 35,738 | 337,593 | 83,016 | 45,559 | 390,344 | 448 | 56,072 |
| Department of the Army (ms) | 3,926,467 | 1,496,817 | 2,272,101 | 2,623 | 122,034 | 5,712 | 2,196 | 20,122 | 0 | 4,862 |
| Department of the Navy (ms) | 7,669,379 | 2,798,470 | 4,575,872 | 1,088 | 159,509 | 15,046 | 42,833 | 67,436 | 0 | 9,125 |
| Department of the Air Force (ms) | 10,397,763 | 564,798 | 9,543,323 | 13,202 | 6,026 | 23,277 | 122 | 246,502 | 448 | 65 |
| Defense Agencies, total (ms) | 3,203,607 | 776,016 | 2,239,447 | 18,825 | 50,024 | 38,831 | 8 | 38,436 | 0 | 42,020 |
| Ballistic Missile Defense Organization (ms) | 1,864,001 | 353,524 | 1,384,239 | 16,239 | 45,158 | 36,503 | 8 | 510 | 0 | 27,820 |
| Defense Advanced Research Projects Agency (ms) ⁴ | 34,733 | 34,733 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Defense Information Systems Agency (ms) | 77,273 | 16,754 | 46,479 | 0 | 833 | 828 | 0 | 12,379 | 0 | 0 |
| Defense Logistics Agency (ms) | 7,391 | 2,985 | 4,406 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Defense Mapping Agency (ms) | 78,299 | 4,672 | 71,177 | 0 | 1,132 | 500 | 0 | 818 | 0 | 0 |
| Special Operations Command (ms) | 131,502 | 31,593 | 83,373 | 2,336 | 0 | 0 | 0 | 0 | 0 | 14,200 |
| Washington Headquarters Services (ms) ⁵ | 1,010,408 | 331,755 | 649,773 | 250 | 2,901 | 1,000 | 0 | 24,729 | 0 | 0 |
| Operational Test & Evaluation, Director (ms) | 21,707 | 7,937 | 0 | 0 | 0 | 150 | 400 | 13,220 | 0 | 0 |
| Test & Evaluation, Deputy Under Secretary of Defense (ms) | 230,983 | 194,582 | 31,773 | 0 | 0 | 0 | 0 | 4,628 | 0 | 0 |
| Department of Education | 39,268 | 2,020 | 3,808 | 0 | 16,334 | 0 | 16,030 | 0 | 1,076 | 0 |
| Department of Energy | 2,685,041 | 259,975 | 1,401,359 | 290,267 | 36,256 | 515,069 | 17,584 | 156,349 | 7,634 | 548 |
| Dept of Health & Human Svcs, total | 1,379,297 | 239,993 | 84,514 | 20,156 | 794,732 | 1,747 | 217,052 | 1,410 | 14,547 | 5,146 |
| Administration on Aging | 17,679 | 683 | 2,016 | 0 | 3,206 | 0 | 8,751 | 0 | 3,023 | 0 |
| Admin for Children & Families | 800 | 16 | 0 | 0 | 704 | 0 | 77 | 0 | 3 | 0 |
| Agcy for Hlth Care Policy & Rsch | 11,287 | 11,287 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Health Resources & Services Admin .. | 966 | 350 | 0 | 0 | 616 | 0 | 0 | 0 | 0 | 0 |
| National Institutes of Health ⁶ | 1,348,242 | 227,628 | 82,498 | 20,156 | 790,206 | 1,747 | 207,930 | 1,410 | 11,521 | 5,146 |
| Office of the Assistant Secretary for Health | 323 | 29 | 0 | 0 | 0 | 0 | 294 | 0 | 0 | 0 |
| Dept of Housing & Urban Dvlpmt | 27,651 | 18,281 | 5,198 | 0 | 319 | 0 | 3,853 | 0 | 0 | 0 |
| Department of the Interior, total | 29,177 | 18,178 | 9,681 | 0 | 697 | 0 | 0 | 0 | 621 | 0 |
| Bureau of Reclamation | 1,993 | 1,993 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Geological Survey ⁷ | 14,140 | 4,247 | 9,643 | 0 | 250 | 0 | 0 | 0 | 0 | 0 |
| National Biological Service ⁸ ⁷ | 13,000 | 11,932 | 0 | 0 | 447 | 0 | 0 | 0 | 621 | 0 |
| Office of the Secretary | 44 | 6 | 38 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Justice, total | 32,110 | 14,454 | 469 | 0 | 1,756 | 0 | 6,438 | 0 | 8,993 | 0 |
| Bureau of Prisons | 2,475 | 532 | 0 | 0 | 0 | 0 | 0 | 0 | 1,943 | 0 |
| Drug Enforcement Administration | 400 | 50 | 350 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Federal Bureau of Investigation | 10,937 | 10,937 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Office of Justice Programs | 18,298 | 2,935 | 119 | 0 | 1,756 | 0 | 6,438 | 0 | 7,050 | 0 |
| Department of Labor, total | 25,500 | 2,633 | 3,992 | 0 | 149 | 0 | 1,777 | 0 | 16,949 | 0 |
| Employment & Training Admin | 21,388 | 1,600 | 2,063 | 0 | 0 | 0 | 1,026 | 0 | 16,699 | 0 |
| Office of the Secretary | 3,415 | 852 | 1,413 | 0 | 149 | 0 | 751 | 0 | 250 | 0 |
| Pension Benefit Guaranty Corp | 697 | 181 | 516 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Transportation, total | 356,240 | 101,681 | 172,916 | 1,219 | 17,436 | 8,811 | 3,590 | 9,324 | 41,189 | 74 |
| Coast Guard | 14,789 | 10,640 | 4,149 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Federal Aviation Administration | 205,075 | 79,988 | 91,439 | 1,219 | 14,220 | 8,811 | 0 | 9,324 | 0 | 74 |
| Federal Highway Administration | 109,387 | 1,244 | 74,488 | 0 | 316 | 0 | 190 | 0 | 33,149 | 0 |
| Federal Railroad Administration | 4,000 | 2,900 | 1,000 | 0 | 100 | 0 | 0 | 0 | 0 | 0 |
| Federal Transit Administration | 17,858 | 3,230 | 388 | 0 | 2,800 | 0 | 3,400 | 0 | 8,040 | 0 |
| Office of the Secretary | 3,311 | 2,811 | 500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Research & Special Programs Admin .. | 1,820 | 868 | 952 | 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 1995**

[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 | 12,434 | 5,919 | 6,515 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bureau of Engraving & Printing | 476 | 476 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Internal Revenue Service | 3,901 | 3,901 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| United States Customs Service | 7,745 | 1,500 | 6,245 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| United States Mint | 312 | 42 | 270 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Veterans Affairs | 19,054 | 17,554 | 0 | 0 | 1,500 | 0 | 0 | 0 | 0 | 0 |
| Other agencies: | | | | | | | | | | |
| Consumer Product Safety Commission ... | 370 | 367 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Environmental Protection Agency | 149,894 | 61,053 | 40,793 | 0 | 34,169 | 0 | 11,196 | 0 | 1,733 | 950 |
| International Dvlpmt Cooperation | | | | | | | | | | |
| Agency, total | 29,819 | 4,802 | 1,073 | 0 | 1,491 | 0 | 19,561 | 0 | 0 | 2,892 |
| Agency for Internat'l Dvlpmt | 29,819 | 4,802 | 1,073 | 0 | 1,491 | 0 | 19,561 | 0 | 0 | 2,892 |
| Library of Congress | 8,045 | 8,045 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Aeronautics & Space Admin | 4,968,855 | 1,242,214 | 2,800,838 | 0 | 120,475 | 622,000 | 148,526 | 1,920 | 1,037 | 31,845 |
| Tennessee Valley Authority | 66,700 | 66,700 | 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 Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

³ Not all Department of Defense (DoD) agencies with development obligations are able to categorize these obligations according to the advanced technology and major systems development breakdown. Therefore, total DoD development does not equal the sum of total DoD advanced technology development and total DoD major systems development.

⁴ 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.

⁵ Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

⁶ 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

⁷ 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.

⁸ 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.

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.

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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

**Table C-50. Preliminary Federal obligations for development, by agency and performer:
fiscal year 1996**

[Dollars in thousands]

| Agency and subdivision | Total | Intra- mural ¹ | Extramural | | | | | | | | Foreign |
|--|-------------------|------------------------------|-------------------------------|---|--------------------------------------|---|---|---|--------------------------------|----------------|---------|
| | | | United States and territories | | | | | | | | |
| | | | Industrial firms | FFRDCs admin by in- dus- trial 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 | 40,499,162 | 9,492,771 | 26,594,812 | 353,568 | 1,331,339 | 1,216,451 | 765,631 | 537,541 | 74,879 | 132,170 | |
| Departments: | | | | | | | | | | | |
| Department of Agriculture, total | 80,167 | 75,667 | 0 | 0 | 3,714 | 0 | 514 | 0 | 23 | 249 | |
| Agricultural Marketing Service | 627 | 627 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Agricultural Research Service ² | 54,469 | 51,469 | 0 | 0 | 2,214 | 0 | 514 | 0 | 23 | 249 | |
| Animal & Plant Hlth Inspection Svc | 19,731 | 18,231 | 0 | 0 | 1,500 | 0 | 0 | 0 | 0 | 0 | |
| Forest Service | 5,340 | 5,340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Department of Commerce, total | 274,594 | 72,625 | 197,364 | 0 | 2,497 | 0 | 1,443 | 0 | 0 | 665 | |
| Bureau of the Census | 4,203 | 4,203 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| National Inst of Standards & Tech | 222,694 | 23,118 | 197,079 | 0 | 389 | 0 | 1,443 | 0 | 0 | 665 | |
| Nat'l Oceanic & Atmospheric Admin | 47,697 | 45,304 | 285 | 0 | 2,108 | 0 | 0 | 0 | 0 | 0 | |
| Department of Defense, total ³ | 30,335,855 | 7,253,185 | 21,699,266 | 64,602 | 353,192 | 165,315 | 285,911 | 430,720 | 0 | 83,664 | |
| Department of the Army | 4,184,285 | 1,854,466 | 2,239,628 | 9,035 | 20,165 | 31,720 | 3,539 | 21,255 | 0 | 4,477 | |
| Department of the Navy | 7,862,513 | 2,791,393 | 4,692,702 | 3,045 | 198,281 | 16,034 | 83,524 | 66,562 | 0 | 10,972 | |
| Department of the Air Force | 11,214,295 | 610,302 | 10,320,777 | 14,518 | 25,963 | 4,550 | 2,770 | 234,839 | 0 | 576 | |
| Defense Agencies, total | 6,823,938 | 1,789,544 | 4,422,652 | 38,004 | 108,783 | 112,811 | 196,078 | 88,427 | 0 | 67,639 | |
| Ballistic Missile Defense Organization | 2,828,285 | 525,582 | 2,133,187 | 18,297 | 42,273 | 49,969 | 98 | 18,125 | 0 | 40,754 | |
| Defense Advanced Research Projects Agency ⁴ | 1,477,359 | 297,017 | 884,272 | 1,431 | 51,865 | 33,765 | 190,573 | 18,436 | 0 | 0 | |
| Defense Information Systems Agency | 54,821 | 14,256 | 31,350 | 0 | 0 | 289 | 3,770 | 5,156 | 0 | 0 | |
| Defense Logistics Agency | 26,929 | 16,650 | 8,477 | 0 | 1,802 | 0 | 0 | 0 | 0 | 0 | |
| Defense Mapping Agency | 58,888 | 3,569 | 52,687 | 0 | 1,039 | 250 | 0 | 1,343 | 0 | 0 | |
| Defense Nuclear Agency | 26,406 | 7,589 | 15,334 | 597 | 0 | 1,536 | 946 | 404 | 0 | 0 | |
| Joint Staff | 12,532 | 5,263 | 7,269 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Special Operations Command | 135,123 | 30,644 | 80,863 | 2,265 | 0 | 0 | 0 | 0 | 0 | 21,351 | |
| Washington Headquarters Svcs ⁵ | 2,203,595 | 888,974 | 1,209,213 | 15,414 | 11,804 | 27,002 | 691 | 44,963 | 0 | 5,534 | |
| Operational Test & Evaluation, Director | 22,981 | 8,721 | 700 | 0 | 0 | 200 | 0 | 13,360 | 0 | 0 | |
| Test & Evaluation, Deputy Under Secretary of Defense | 227,843 | 198,759 | 22,807 | 0 | 0 | 0 | 0 | 6,277 | 0 | 0 | |
| Department of Defense, total advanced technology (at) ³ | 4,828,725 | 1,510,673 | 2,695,604 | 20,373 | 150,956 | 100,182 | 242,743 | 76,206 | 0 | 31,988 | |
| Department of the Army (at) | 763,597 | 323,063 | 400,001 | 1,757 | 12,690 | 16,661 | 964 | 6,356 | 0 | 2,105 | |
| Department of the Navy (at) | 484,012 | 215,306 | 165,448 | 0 | 49,099 | 3,311 | 46,954 | 3,894 | 0 | 0 | |
| Department of the Air Force (at) | 501,102 | 125,895 | 340,006 | 622 | 17,892 | 3,969 | 2,615 | 9,810 | 0 | 293 | |
| Defense Agencies, total (at) | 3,080,014 | 846,409 | 1,790,149 | 17,994 | 71,275 | 76,241 | 192,210 | 56,146 | 0 | 29,590 | |
| Ballistic Missile Defense Organization (at) | 684,733 | 106,594 | 520,366 | 0 | 8,091 | 16,960 | 0 | 17,635 | 0 | 15,087 | |
| Defense Advanced Research Projects Agency (at) ⁴ | 1,408,189 | 260,919 | 851,200 | 1,431 | 51,865 | 33,765 | 190,573 | 18,436 | 0 | 0 | |
| Defense Logistics Agency (at) | 18,198 | 13,967 | 2,429 | 0 | 1,802 | 0 | 0 | 0 | 0 | 0 | |
| Defense Nuclear Agency (at) | 26,406 | 7,589 | 15,334 | 597 | 0 | 1,536 | 946 | 404 | 0 | 0 | |
| Joint Staff (at) | 12,532 | 5,263 | 7,269 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Special Operations Command (at) ... Washington Headquarters Services (at) ⁵ | 56,752 | 12,870 | 33,961 | 952 | 0 | 0 | 0 | 0 | 0 | 8,969 | |
| Washington Headquarters Services (at) ⁵ | 873,204 | 439,207 | 359,590 | 15,014 | 9,517 | 23,980 | 691 | 19,671 | 0 | 5,534 | |

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 1996**

[Dollars in thousands]

| Agency and subdivision | Total | Intra- mural ¹ | Extramural | | | | | | | Foreign |
|--|------------|------------------------------|-------------------------------|--|--------------------------------------|---|---|---|--------------------------------|---------|
| | | | United States and territories | | | | | | | |
| | | | Industrial firms | FFRDCs admin by indus- trial 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 | |
| Department of Defense, total major systems (ms) ³ | 25,507,130 | 5,742,512 | 19,003,662 | 44,229 | 202,236 | 65,133 | 43,168 | 354,514 | 0 | 51,676 |
| Department of the Army (ms) | 3,420,688 | 1,531,403 | 1,839,627 | 7,278 | 7,475 | 15,059 | 2,575 | 14,899 | 0 | 2,372 |
| Department of the Navy (ms) | 7,378,501 | 2,576,087 | 4,527,254 | 3,045 | 149,182 | 12,723 | 36,570 | 62,668 | 0 | 10,972 |
| Department of the Air Force (ms) | 10,713,193 | 484,407 | 9,980,771 | 13,896 | 8,071 | 581 | 155 | 225,029 | 0 | 283 |
| Defense Agencies, total (ms) | 3,743,924 | 943,135 | 2,632,503 | 20,010 | 37,508 | 36,570 | 3,868 | 32,281 | 0 | 38,049 |
| Ballistic Missile Defense Organization (ms) | 2,143,552 | 418,988 | 1,612,821 | 18,297 | 34,182 | 33,009 | 98 | 490 | 0 | 25,667 |
| Defense Advanced Research Projects Agency (ms) ⁴ | 69,170 | 36,098 | 33,072 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Defense Information Systems Agency (ms) | 54,821 | 14,256 | 31,350 | 0 | 0 | 289 | 3,770 | 5,156 | 0 | 0 |
| Defense Logistics Agency (ms) | 8,731 | 2,683 | 6,048 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Defense Mapping Agency (ms) | 58,888 | 3,569 | 52,687 | 0 | 1,039 | 250 | 0 | 1,343 | 0 | 0 |
| Special Operations Command (ms) | 78,371 | 17,774 | 46,902 | 1,313 | 0 | 0 | 0 | 0 | 0 | 12,382 |
| Washington Headquarters Services (ms) ⁵ | 1,330,391 | 449,767 | 849,623 | 400 | 2,287 | 3,022 | 0 | 25,292 | 0 | 0 |
| Operational Test & Evaluation, Director (ms) | 22,981 | 8,721 | 700 | 0 | 0 | 200 | 0 | 13,360 | 0 | 0 |
| Test & Evaluation, Deputy Under Secretary of Defense (ms) | 227,843 | 198,759 | 22,807 | 0 | 0 | 0 | 0 | 6,277 | 0 | 0 |
| Department of Education | 40,108 | 2,237 | 3,601 | 0 | 13,955 | 0 | 19,456 | 0 | 859 | 0 |
| Department of Energy | 2,376,367 | 221,809 | 1,225,203 | 253,200 | 30,556 | 530,376 | 12,663 | 96,726 | 5,428 | 406 |
| Dept of Health & Human Svcs, total | 1,389,591 | 240,170 | 90,880 | 34,633 | 746,923 | 1,264 | 253,854 | 1,706 | 13,904 | 6,257 |
| Administration on Aging | 3,533 | 683 | 0 | 0 | 0 | 0 | 2,850 | 0 | 0 | 0 |
| Admin for Children & Families | 700 | 14 | 0 | 0 | 616 | 0 | 70 | 0 | 0 | 0 |
| Agcy for Hlth Care Policy & Rsch | 6,186 | 6,186 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Health Resources & Services Admin | 1,250 | 350 | 0 | 0 | 900 | 0 | 0 | 0 | 0 | 0 |
| National Institutes of Health ⁶ | 1,377,398 | 232,889 | 90,880 | 34,633 | 745,407 | 1,264 | 250,458 | 1,706 | 13,904 | 6,257 |
| Office of the Assistant Secretary for Health | 524 | 48 | 0 | 0 | 0 | 0 | 476 | 0 | 0 | 0 |
| Dept of Housing & Urban Dvlpmt | 22,793 | 10,474 | 9,430 | 0 | 869 | 0 | 2,020 | 0 | 0 | 0 |
| Department of the Interior, total | 25,502 | 14,601 | 9,551 | 0 | 1,350 | 0 | 0 | 0 | 0 | 0 |
| Bureau of Reclamation | 1,508 | 1,508 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Geological Survey ⁷ | 23,975 | 13,087 | 9,538 | 0 | 1,350 | 0 | 0 | 0 | 0 | 0 |
| Office of the Secretary | 19 | 6 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Justice, total | 53,664 | 38,884 | 700 | 355 | 700 | 0 | 10,275 | 0 | 2,750 | 0 |
| Bureau of Prisons | 2,800 | 500 | 0 | 0 | 0 | 0 | 0 | 0 | 2,300 | 0 |
| Drug Enforcement Administration | 1,155 | 100 | 700 | 355 | 0 | 0 | 0 | 0 | 0 | 0 |
| Federal Bureau of Investigation | 36,784 | 36,784 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Office of Justice Programs | 12,925 | 1,500 | 0 | 0 | 700 | 0 | 10,275 | 0 | 450 | 0 |
| Department of Labor, total | 21,858 | 1,332 | 4,947 | 0 | 90 | 0 | 4,817 | 0 | 10,672 | 0 |
| Employment & Training Admin | 17,787 | 700 | 3,557 | 0 | 0 | 0 | 2,858 | 0 | 10,672 | 0 |
| Office of the Secretary | 3,489 | 447 | 993 | 0 | 90 | 0 | 1,959 | 0 | 0 | 0 |
| Pension Benefit Guaranty Corp | 582 | 185 | 397 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Transportation, total | 307,378 | 77,462 | 144,037 | 778 | 31,227 | 6,484 | 1,747 | 6,484 | 39,059 | 100 |
| Coast Guard | 15,027 | 10,843 | 4,184 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Federal Aviation Administration | 157,263 | 55,989 | 61,654 | 778 | 25,774 | 6,484 | 0 | 6,484 | 0 | 100 |
| Federal Highway Administration | 106,683 | 1,224 | 74,171 | 0 | 344 | 0 | 208 | 0 | 30,736 | 0 |
| Federal Railroad Administration | 10,375 | 3,362 | 722 | 0 | 218 | 0 | 0 | 0 | 6,073 | 0 |
| Federal Transit Administration | 10,494 | 1,519 | 295 | 0 | 4,891 | 0 | 1,539 | 0 | 2,250 | 0 |
| Office of the Secretary | 2,897 | 2,897 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Research & Special Programs Admin | 4,639 | 1,628 | 3,011 | 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 1996**

[Dollars in thousands]

| Agency and subdivision | Total | Intra- mural ¹ | Extramural | | | | | | | |
|---|-----------|------------------------------|-------------------------------|---|--------------------------------------|---|---|---|--------------------------------|---------|
| | | | United States and territories | | | | | | | Foreign |
| | | | Industrial firms | FFRDCs admin by in- dus- trial 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 | |
| Department of the Treasury, total | 13,371 | 6,178 | 7,193 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bureau of Engraving & Printing | 889 | 889 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Internal Revenue Service | 3,446 | 3,446 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| United States Customs Service | 8,811 | 1,800 | 7,011 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| United States Mint | 225 | 43 | 182 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Veterans Affairs | 22,384 | 21,384 | 0 | 0 | 1,000 | 0 | 0 | 0 | 0 | 0 |
| Other agencies: | | | | | | | | | | |
| Consumer Product Safety Commission ... | 30 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Environmental Protection Agency | 104,941 | 42,743 | 28,559 | 0 | 23,922 | 0 | 7,838 | 0 | 1,213 | 666 |
| International Dvlpmt Cooperation Agency, total | 19,751 | 2,252 | 277 | 0 | 869 | 0 | 8,137 | 0 | 0 | 8,216 |
| Agency for Internat'l Dvlpmt | 19,751 | 2,252 | 277 | 0 | 869 | 0 | 8,137 | 0 | 0 | 8,216 |
| Library of Congress | 6,493 | 6,493 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Aeronautics & Space Admin | 5,332,093 | 1,333,023 | 3,173,804 | 0 | 120,475 | 513,012 | 156,956 | 1,905 | 971 | 31,947 |
| Tennessee Valley Authority | 72,222 | 72,222 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

- Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.
- The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- Not all Department of Defense (DoD) agencies with development obligations are able to categorize these obligations according to the advanced technology and major systems development breakdown. Therefore, total DoD development does not equal the sum of total DoD advanced technology development and total DoD major systems development.
- 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.
- Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
- 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.
- 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.

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.

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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

**Table C-51. Preliminary Federal obligations for development, by agency and performer:
fiscal year 1997**

[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 | 38,890,206 | 8,707,574 | 25,912,874 | 333,998 | 1,538,943 | 1,099,456 | 683,674 | 452,533 | 74,615 | 86,539 |
| Departments: | | | | | | | | | | |
| Department of Agriculture, total | 82,321 | 78,117 | 0 | 0 | 3,714 | 0 | 218 | 0 | 23 | 249 |
| Agricultural Marketing Service | 634 | 634 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Agricultural Research Service ² | 55,729 | 53,025 | 0 | 0 | 2,214 | 0 | 218 | 0 | 23 | 249 |
| Animal & Plant Hlth Inspection Svc | 20,565 | 19,065 | 0 | 0 | 1,500 | 0 | 0 | 0 | 0 | 0 |
| Forest Service | 5,393 | 5,393 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Commerce, total | 227,284 | 73,320 | 149,708 | 0 | 2,638 | 0 | 1,115 | 0 | 0 | 503 |
| Bureau of the Census | 4,203 | 4,203 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Inst of Standards & Tech | 175,433 | 24,112 | 149,359 | 0 | 344 | 0 | 1,115 | 0 | 0 | 503 |
| Nat'l Oceanic & Atmospheric Admin | 47,648 | 45,005 | 349 | 0 | 2,294 | 0 | 0 | 0 | 0 | 0 |
| Department of Defense, total ³ | 29,102,817 | 6,552,774 | 21,280,074 | 145,627 | 319,661 | 134,225 | 273,612 | 348,878 | 0 | 47,966 |
| Department of the Army | 3,701,237 | 1,862,822 | 1,771,496 | 2,550 | 29,921 | 14,065 | 3,526 | 14,814 | 0 | 2,043 |
| Department of the Navy | 6,727,846 | 2,493,296 | 3,889,227 | 3,342 | 175,604 | 15,928 | 80,437 | 64,685 | 0 | 5,327 |
| Department of the Air Force | 12,487,207 | 587,852 | 11,658,515 | 72,284 | 17,167 | 3,721 | 2,316 | 144,999 | 0 | 353 |
| Defense Agencies, total | 5,913,470 | 1,381,132 | 3,936,250 | 67,451 | 96,969 | 100,511 | 187,333 | 103,581 | 0 | 40,243 |
| Ballistic Missile Defense Organization | 2,471,397 | 440,721 | 1,910,540 | 11,816 | 32,736 | 41,707 | 0 | 18,140 | 0 | 15,737 |
| Defense Advanced Research Projects Agency ⁴ | 1,389,016 | 261,740 | 843,149 | 2,380 | 50,178 | 28,760 | 185,572 | 17,237 | 0 | 0 |
| Defense Information Systems Agency | 64,756 | 15,742 | 43,100 | 0 | 0 | 0 | 942 | 4,972 | 0 | 0 |
| Defense Logistics Agency | 30,804 | 20,892 | 5,081 | 0 | 4,831 | 0 | 0 | 0 | 0 | 0 |
| Defense Mapping Agency | 95,168 | 9,592 | 83,926 | 0 | 900 | 0 | 0 | 750 | 0 | 0 |
| Defense Nuclear Agency | 27,465 | 6,455 | 17,960 | 1,669 | 0 | 804 | 477 | 100 | 0 | 0 |
| Joint Staff | 38,776 | 35,286 | 3,490 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Special Operations Command | 110,565 | 25,074 | 66,165 | 1,853 | 0 | 0 | 0 | 0 | 0 | 17,473 |
| Washington Headquarters Svcs ⁵ | 1,685,523 | 565,630 | 962,839 | 49,733 | 8,324 | 29,240 | 342 | 62,382 | 0 | 7,033 |
| Operational Test & Evaluation, Director | 22,011 | 7,687 | 700 | 0 | 0 | 0 | 0 | 13,624 | 0 | 0 |
| Test & Evaluation, Deputy Under Secretary of Defense | 251,046 | 219,985 | 23,886 | 0 | 0 | 0 | 0 | 7,175 | 0 | 0 |
| Department of Defense, total advanced technology (at) ³ | 4,101,191 | 1,159,366 | 2,361,385 | 22,471 | 147,274 | 75,093 | 238,740 | 64,929 | 0 | 31,933 |
| Department of the Army (at) | 470,068 | 242,190 | 200,930 | 1,300 | 16,293 | 3,575 | 902 | 2,885 | 0 | 1,993 |
| Department of the Navy (at) | 449,135 | 169,611 | 173,882 | 0 | 49,880 | 2,648 | 49,149 | 3,965 | 0 | 0 |
| Department of the Air Force (at) | 486,948 | 132,857 | 322,924 | 680 | 15,896 | 3,650 | 2,298 | 8,364 | 0 | 279 |
| Defense Agencies, total (at) | 2,695,040 | 614,708 | 1,663,649 | 20,491 | 65,205 | 65,220 | 186,391 | 49,715 | 0 | 29,661 |
| Ballistic Missile Defense Organization (at) | 559,851 | 76,371 | 432,995 | 0 | 4,572 | 12,482 | 0 | 18,140 | 0 | 15,291 |
| Defense Advanced Research Projects Agency (at) ⁴ | 1,305,279 | 221,117 | 800,035 | 2,380 | 50,178 | 28,760 | 185,572 | 17,237 | 0 | 0 |
| Defense Logistics Agency (at) | 24,993 | 18,162 | 2,000 | 0 | 4,831 | 0 | 0 | 0 | 0 | 0 |
| Defense Nuclear Agency (at) | 27,465 | 6,455 | 17,960 | 1,669 | 0 | 804 | 477 | 100 | 0 | 0 |
| Joint Staff (at) | 38,776 | 35,286 | 3,490 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Special Operations Command (at) | 46,437 | 10,531 | 27,790 | 779 | 0 | 0 | 0 | 0 | 0 | 7,337 |
| Washington Headquarters Services (at) ⁵ | 692,239 | 246,786 | 379,379 | 15,663 | 5,624 | 23,174 | 342 | 14,238 | 0 | 7,033 |

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 1997

[Dollars in thousands]

| Agency and subdivision | Total | Intra-mural ¹ | Extramural | | | | | | | | Foreign |
|--|------------|--------------------------|-------------------------------|----------------------------------|---------------------------|------------------------------------|-------------------------------|---|--------|-----------------------|---------|
| | | | United States and territories | | | | | | | State and local govts | |
| | | | Industrial firms | FFRDCs admin by industrial firms | Universities and colleges | FFRDCs admin by univs and colleges | Other non-profit institutions | FFRDCs admin by non-profit institutions | | | |
| Department of Defense, total major systems (ms) ³ | 25,001,626 | 5,393,408 | 18,918,689 | 123,156 | 172,387 | 59,132 | 34,872 | 283,949 | 0 | 16,033 | |
| Department of the Army (ms) | 3,231,169 | 1,620,632 | 1,570,566 | 1,250 | 13,628 | 10,490 | 2,624 | 11,929 | 0 | 50 | |
| Department of the Navy (ms) | 6,278,711 | 2,323,685 | 3,715,345 | 3,342 | 125,724 | 13,280 | 31,288 | 60,720 | 0 | 5,327 | |
| Department of the Air Force (ms) | 12,000,259 | 454,995 | 11,335,591 | 71,604 | 1,271 | 71 | 18 | 136,635 | 0 | 74 | |
| Defense Agencies, total (ms) | 3,218,430 | 766,424 | 2,272,601 | 46,960 | 31,764 | 35,291 | 942 | 53,866 | 0 | 10,582 | |
| Ballistic Missile Defense Organization (ms) | 1,911,546 | 364,350 | 1,477,545 | 11,816 | 28,164 | 29,225 | 0 | 0 | 0 | 446 | |
| Defense Advanced Research Projects Agency (ms) ⁴ | 83,737 | 40,623 | 43,114 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Defense Information Systems Agency (ms) | 64,756 | 15,742 | 43,100 | 0 | 0 | 0 | 942 | 4,972 | 0 | 0 | |
| Defense Logistics Agency (ms) | 5,811 | 2,730 | 3,081 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Defense Mapping Agency (ms) | 95,168 | 9,592 | 83,926 | 0 | 900 | 0 | 0 | 750 | 0 | 0 | |
| Special Operations Command (ms) | 64,128 | 14,543 | 38,375 | 1,074 | 0 | 0 | 0 | 0 | 0 | 10,136 | |
| Washington Headquarters Services (ms) ⁵ | 993,284 | 318,844 | 583,460 | 34,070 | 2,700 | 6,066 | 0 | 48,144 | 0 | 0 | |
| Operational Test & Evaluation, Director (ms) | 22,011 | 7,687 | 700 | 0 | 0 | 0 | 0 | 13,624 | 0 | 0 | |
| Test & Evaluation, Deputy Under Secretary of Defense (ms) | 251,046 | 219,985 | 23,886 | 0 | 0 | 0 | 0 | 7,175 | 0 | 0 | |
| Department of Education | 45,421 | 2,353 | 6,324 | 0 | 14,501 | 0 | 21,252 | 0 | 991 | 0 | |
| Department of Energy | 2,320,066 | 255,352 | 1,239,870 | 162,517 | 41,131 | 500,877 | 19,465 | 94,164 | 6,306 | 384 | |
| Dept of Health & Human Svcs, total | 1,416,744 | 173,421 | 64,779 | 24,686 | 955,349 | 901 | 182,022 | 1,216 | 9,910 | 4,460 | |
| Administration on Aging | 3,191 | 341 | 0 | 0 | 0 | 0 | 2,850 | 0 | 0 | 0 | |
| Admin for Children & Families | 1,478 | 29 | 0 | 0 | 1,301 | 0 | 148 | 0 | 0 | 0 | |
| Agcy for Hlth Care Policy & Rsch | 7,000 | 7,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| National Institutes of Health ⁶ | 1,404,525 | 166,001 | 64,779 | 24,686 | 954,048 | 901 | 178,524 | 1,216 | 9,910 | 4,460 | |
| Office of the Assistant Secretary for Health | 550 | 50 | 0 | 0 | 0 | 0 | 500 | 0 | 0 | 0 | |
| Dept of Housing & Urban Dvlpmt | 28,774 | 14,203 | 10,404 | 0 | 617 | 0 | 3,550 | 0 | 0 | 0 | |
| Department of the Interior, total | 27,352 | 16,033 | 9,849 | 0 | 1,470 | 0 | 0 | 0 | 0 | 0 | |
| Bureau of Reclamation | 1,911 | 1,911 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Geological Survey ⁷ | 25,441 | 14,122 | 9,849 | 0 | 1,470 | 0 | 0 | 0 | 0 | 0 | |
| Department of Justice, total | 58,454 | 37,879 | 0 | 400 | 1,700 | 0 | 7,800 | 0 | 10,675 | 0 | |
| Bureau of Prisons | 2,800 | 500 | 0 | 0 | 0 | 0 | 0 | 0 | 2,300 | 0 | |
| Drug Enforcement Administration | 450 | 50 | 0 | 400 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Federal Bureau of Investigation | 34,829 | 34,829 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Office of Justice Programs | 20,375 | 2,500 | 0 | 0 | 1,700 | 0 | 7,800 | 0 | 8,375 | 0 | |
| Department of Labor, total | 19,167 | 3,818 | 3,863 | 0 | 0 | 0 | 2,521 | 0 | 8,965 | 0 | |
| Employment & Training Admin | 14,942 | 778 | 2,988 | 0 | 0 | 0 | 2,211 | 0 | 8,965 | 0 | |
| Office of the Secretary | 3,624 | 2,851 | 463 | 0 | 0 | 0 | 310 | 0 | 0 | 0 | |
| Pension Benefit Guaranty Corp | 601 | 189 | 412 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Department of Transportation, total | 311,362 | 91,374 | 133,754 | 768 | 37,111 | 6,406 | 606 | 6,400 | 34,893 | 50 | |
| Coast Guard | 14,831 | 10,670 | 4,161 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Federal Aviation Administration | 156,130 | 59,411 | 52,825 | 768 | 30,270 | 6,406 | 0 | 6,400 | 0 | 50 | |
| Federal Highway Administration | 126,729 | 16,033 | 75,656 | 0 | 341 | 0 | 206 | 0 | 34,493 | 0 | |
| Federal Railroad Administration | 650 | 650 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Federal Transit Administration | 8,828 | 1,528 | 0 | 0 | 6,500 | 0 | 400 | 0 | 400 | 0 | |
| Office of the Secretary | 2,808 | 2,808 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Research & Special Programs Admin | 1,386 | 274 | 1,112 | 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 1997**

[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 | 10,454 | 6,215 | 4,239 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bureau of Engraving & Printing | 828 | 828 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Internal Revenue Service | 3,498 | 3,498 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| United States Customs Service | 5,703 | 1,800 | 3,903 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| United States Mint | 425 | 89 | 336 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Veterans Affairs | 21,826 | 20,676 | 0 | 0 | 1,150 | 0 | 0 | 0 | 0 | 0 |
| Other agencies: | | | | | | | | | | |
| Environmental Protection Agency | 170,418 | 69,412 | 46,379 | 0 | 38,848 | 0 | 12,729 | 0 | 1,970 | 1,080 |
| International Dvlpmt Cooperation | | | | | | | | | | |
| Agency, total | 14,087 | 1,676 | 169 | 0 | 578 | 0 | 11,537 | 0 | 0 | 127 |
| Agency for internat'l Dvlpmt | 14,087 | 1,676 | 169 | 0 | 578 | 0 | 11,537 | 0 | 0 | 127 |
| Library of Congress | 7,230 | 7,230 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Aeronautics & Space Admin | 4,963,611 | 1,240,903 | 2,963,462 | 0 | 120,475 | 457,047 | 147,247 | 1,875 | 882 | 31,720 |
| Tennessee Valley Authority | 62,818 | 62,818 | 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 Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

³ Not all Department of Defense (DoD) agencies with development obligations are able to categorize these obligations according to the advanced technology and major systems development breakdown. Therefore, total DoD development does not equal the sum of total DoD advanced technology development and total DoD major systems development.

⁴ 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.

⁵ Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

⁶ 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

⁷ 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.

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.

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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

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Table C-52. Federal funds for R&D plant, by agency: fiscal years 1995, 1996, and 1997

[Dollars in thousands]

| Agency and subdivision | Obligations | | | Outlays | | |
|--|-------------|-------------|-----------|-----------|-------------|-----------|
| | 1995 | Preliminary | | 1995 | Preliminary | |
| | | 1996 | 1997 | | 1996 | 1997 |
| Total, all agencies | 2,256,884 | 1,970,827 | 2,084,941 | 2,035,422 | 2,303,096 | 2,426,892 |
| Departments: | | | | | | |
| Department of Agriculture, total | 143,372 | 149,513 | 125,262 | 128,441 | 149,234 | 153,587 |
| Agricultural Research Service ¹ | 67,732 | 78,466 | 123,262 | 79,057 | 87,939 | 96,592 |
| Animal & Plant Health Inspection Service | 0 | 1,500 | 0 | 0 | 1,500 | 0 |
| Cooperative State Research, Education, & Extension Service ² | 71,324 | 67,047 | 0 | 45,068 | 57,295 | 54,995 |
| Forest Service | 4,316 | 2,500 | 2,000 | 4,316 | 2,500 | 2,000 |
| Department of Commerce, total | 77,703 | 79,734 | 105,530 | 23,472 | 31,673 | 48,577 |
| National Institute of Standards & Technology | 77,209 | 79,444 | 105,240 | 22,978 | 31,383 | 48,287 |
| National Oceanic & Atmospheric Administration | 494 | 290 | 290 | 494 | 290 | 290 |
| Department of Defense, total | 65,244 | 84,533 | 39,972 | 82,999 | 93,217 | 51,269 |
| Department of the Army, total | 5,487 | 5,134 | 4,370 | 4,216 | 5,233 | 4,612 |
| Department of the Army, Military Functions | 5,487 | 5,134 | 4,370 | 4,216 | 5,233 | 4,612 |
| Department of the Navy | 11,274 | 8,299 | 11,997 | 37,456 | 18,918 | 9,665 |
| Department of the Air Force | 37,805 | 27,348 | 19,954 | 26,890 | 28,499 | 25,104 |
| Defense Agencies, total | 10,678 | 43,752 | 3,651 | 14,437 | 40,567 | 11,888 |
| Ballistic Missile Defense Organization | 5,731 | 26,540 | 1,404 | 8,028 | 26,540 | 1,404 |
| Defense Logistics Agency | 200 | 200 | 200 | 200 | 200 | 200 |
| Defense Nuclear Agency | 0 | 0 | 0 | 4,215 | 5,865 | 2,230 |
| Washington Headquarters Services ³ | 4,747 | 17,012 | 2,047 | 1,994 | 7,962 | 8,054 |
| Department of Education | 1,777 | 0 | 0 | 995 | 6,353 | 641 |
| Department of Energy | 745,069 | 755,787 | 825,861 | 864,132 | 870,479 | 915,732 |
| Department of Health & Human Services, total | 255,705 | 303,811 | 429,350 | 267,049 | 314,991 | 435,870 |
| Food & Drug Administration | 5,349 | 12,150 | 8,350 | 16,693 | 23,330 | 14,870 |
| Health Resources & Services Administration | 1,575 | 1,000 | 1,000 | 1,575 | 1,000 | 1,000 |
| National Institutes of Health ⁴ | 248,781 | 290,661 | 420,000 | 248,781 | 290,661 | 420,000 |
| Department of the Interior, total | 6,666 | 2,367 | 7,152 | 6,529 | 2,374 | 7,011 |
| Geological Survey ⁵ | 5,375 | 1,375 | 6,160 | 5,257 | 1,382 | 6,019 |
| Minerals Management Service | 992 | 992 | 992 | 992 | 992 | 992 |
| National Biological Service ^{6 5} | 299 | 0 | 0 | 280 | 0 | 0 |
| Department of Transportation, total | 28,779 | 29,142 | 22,479 | 26,703 | 19,691 | 23,769 |
| Coast Guard | 525 | 525 | 525 | 525 | 525 | 525 |
| Federal Aviation Administration | 21,690 | 20,600 | 17,200 | 14,000 | 16,000 | 18,000 |
| Federal Highway Administration | 3,027 | 3,834 | 1,334 | 10,919 | 320 | 1,222 |
| Federal Railroad Administration | 3,537 | 4,183 | 3,420 | 1,259 | 2,846 | 4,022 |
| Department of the Treasury, total | 155 | 156 | 157 | 155 | 156 | 157 |
| United States Customs Service | 125 | 125 | 125 | 125 | 125 | 125 |
| United States Secret Service ⁷ | 30 | 31 | 32 | 30 | 31 | 32 |
| Department of Veterans Affairs | 7,200 | 3,600 | 4,300 | 7,200 | 3,600 | 4,300 |

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

Table C-52. Federal funds for R&D plant, by agency: fiscal years 1995, 1996, and 1997

[Dollars in thousands]

| Agency and subdivision | Obligations | | | Outlays | | |
|---|-------------|-------------|---------|---------|-------------|---------|
| | 1995 | Preliminary | | 1995 | Preliminary | |
| | | 1996 | 1997 | | 1996 | 1997 |
| Other agencies: | | | | | | |
| Environmental Protection Agency | 4,764 | 4,764 | 4,764 | 3,013 | 3,013 | 3,013 |
| General Services Administration | 69 | 175 | 0 | 1,310 | 1,239 | 1,082 |
| National Aeronautics & Space Administration | 624,800 | 332,500 | 314,800 | 515,424 | 590,076 | 488,884 |
| National Science Foundation | 289,581 | 218,745 | 200,314 | 101,000 | 210,000 | 287,000 |
| Smithsonian Institution | 5,000 | 5,000 | 5,000 | 6,000 | 6,000 | 6,000 |
| Tennessee Valley Authority | 1,000 | 1,000 | 0 | 1,000 | 1,000 | 0 |

- 1 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 2 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.
- 3 Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
- 4 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.
- 5 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.
- 6 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.
- 7 The United States Secret Service was formerly listed as the Office of Protective Research.

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.

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

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Table C-53. Federal obligations for R&D plant, by agency and performer of the research and development the plant supports: fiscal year 1995

[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 | 2,256,884 | 482,586 | 696,593 | 95,143 | 323,832 | 543,888 | 25,594 | 62,623 | 525 | 26,100 |
| Departments: | | | | | | | | | | |
| Department of Agriculture, total | 143,372 | 72,048 | 0 | 0 | 66,918 | 0 | 4,406 | 0 | 0 | 0 |
| Agricultural Research Service ² | 67,732 | 67,732 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cooperative State Research, Education, & Extension Service ³ | 71,324 | 0 | 0 | 0 | 66,918 | 0 | 4,406 | 0 | 0 | 0 |
| Forest Service | 4,316 | 4,316 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Commerce, total | 77,703 | 77,703 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Inst of Standards & Tech | 77,209 | 77,209 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nat'l Oceanic & Atmospheric Admin | 494 | 494 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Defense, total | 65,244 | 53,143 | 10,283 | 0 | 1,503 | 115 | 0 | 200 | 0 | 0 |
| Department of the Army | 5,487 | 0 | 5,487 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of the Navy | 11,274 | 7,793 | 3,481 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of the Air Force | 37,805 | 37,805 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Defense Agencies, total | 10,678 | 7,545 | 1,315 | 0 | 1,503 | 115 | 0 | 200 | 0 | 0 |
| Ballistic Missile Defense Organization | 5,731 | 5,731 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Defense Logistics Agency | 200 | 0 | 0 | 0 | 0 | 0 | 0 | 200 | 0 | 0 |
| Washington Headquarters Svcs ⁴ | 4,747 | 1,814 | 1,315 | 0 | 1,503 | 115 | 0 | 0 | 0 | 0 |
| Department of Education | 1,777 | 0 | 0 | 0 | 1,777 | 0 | 0 | 0 | 0 | 0 |
| Department of Energy | 745,069 | 1,250 | 72,780 | 95,143 | 18,182 | 494,791 | 500 | 62,423 | 0 | 0 |
| Dept of Health & Human Svcs, total | 255,705 | 236,324 | 0 | 0 | 12,344 | 0 | 7,037 | 0 | 0 | 0 |
| Food & Drug Administration | 5,349 | 5,349 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Health Resources & Services Admin | 1,575 | 1,575 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Institutes of Health ⁵ | 248,781 | 229,400 | 0 | 0 | 12,344 | 0 | 7,037 | 0 | 0 | 0 |
| Department of the Interior, total | 6,666 | 299 | 6,367 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Geological Survey ⁶ | 5,375 | 0 | 5,375 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Minerals Management Service | 992 | 0 | 992 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Biological Service ^{7 6} | 299 | 299 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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

Table C-53. Federal obligations for R&D plant, by agency and performer of the research and development the plant supports: fiscal year 1995

[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 | | |
| Department of Transportation, total | 28,779 | 24,717 | 0 | 0 | 0 | 0 | 0 | 3,537 | 0 | 525 | 0 |
| Coast Guard | 525 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 525 | 0 |
| Federal Aviation Administration | 21,690 | 21,690 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Federal Highway Administration | 3,027 | 3,027 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Federal Railroad Administration | 3,537 | 0 | 0 | 0 | 0 | 0 | 0 | 3,537 | 0 | 0 | 0 |
| Department of the Treasury, total | 155 | 30 | 125 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| United States Customs Service | 125 | 0 | 125 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| United States Secret Service ⁸ | 30 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Veterans Affairs | 7,200 | 7,200 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other agencies: | | | | | | | | | | | |
| Environmental Protection Agency | 4,764 | 0 | 4,764 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| General Services Administration | 69 | 0 | 0 | 0 | 69 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Aeronautics & Space Admin | 624,800 | 3,872 | 594,828 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 26,100 |
| National Science Foundation | 289,581 | 0 | 7,446 | 0 | 223,039 | 48,982 | 10,114 | 0 | 0 | 0 | 0 |
| Smithsonian Institution | 5,000 | 5,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tennessee Valley Authority | 1,000 | 1,000 | 0 | 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 Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

³ 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.

⁴ Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

⁵ 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

⁶ 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.

⁷ 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.

⁸ The United States Secret Service was formerly listed as the Office of Protective Research.

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: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-54. Preliminary Federal obligations for R&D plant, by agency and performer of the research and development the plant supports: fiscal year 1996

[Dollars in thousands]

| Agency and subdivision | Total | Intra-mural ¹ | Extramural | | | | | | | Foreign |
|---|------------------|--------------------------|-------------------------------|-----------------------------------|----------------------------|------------------------------------|-------------------------------|--|-----------------------|----------|
| | | | United States and territories | | | | | | State and local govts | |
| | | | Indus-trial firms | FFRDCs admin by indus-trial firms | Univer-sities and colleges | FFRDCs admin by univs and colleges | Other non-profit institutions | FFRDCs admin by non-profit insti-tutions | | |
| Total, all agencies | 1,970,827 | 571,073 | 414,954 | 77,101 | 279,574 | 536,179 | 21,728 | 69,693 | 525 | 0 |
| Departments: | | | | | | | | | | |
| Department of Agriculture, total | 149,513 | 87,144 | 0 | 0 | 56,879 | 0 | 5,490 | 0 | 0 | 0 |
| Agricultural Research Service ² | 78,466 | 78,466 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Animal & Plant Hlth Inspection Svc | 1,500 | 1,500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cooperative State Research, Education, & Extension Service ³ | 67,047 | 4,678 | 0 | 0 | 56,879 | 0 | 5,490 | 0 | 0 | 0 |
| Forest Service | 2,500 | 2,500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Commerce, total | 79,734 | 79,734 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Inst of Standards & Tech | 79,444 | 79,444 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nat'l Oceanic & Atmospheric Admin | 290 | 290 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Defense, total | 84,533 | 62,062 | 8,085 | 0 | 14,086 | 100 | 0 | 200 | 0 | 0 |
| Department of the Army | 5,134 | 0 | 5,134 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of the Navy | 8,299 | 5,919 | 2,380 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of the Air Force | 27,348 | 27,348 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Defense Agencies, total | 43,752 | 28,795 | 571 | 0 | 14,086 | 100 | 0 | 200 | 0 | 0 |
| Ballistic Missile Defense Organization | 26,540 | 26,540 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Defense Logistics Agency | 200 | 0 | 0 | 0 | 0 | 0 | 0 | 200 | 0 | 0 |
| Washington Headquarters Svcs ⁴ | 17,012 | 2,255 | 571 | 0 | 14,086 | 100 | 0 | 0 | 0 | 0 |
| Department of Energy | 755,787 | 2,177 | 61,923 | 77,101 | 15,943 | 528,650 | 500 | 69,493 | 0 | 0 |
| Dept of Health & Human Svcs, total | 303,811 | 303,811 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Food & Drug Administration | 12,150 | 12,150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Health Resources & Services Admin | 1,000 | 1,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Institutes of Health ⁵ | 290,661 | 290,661 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of the Interior, total | 2,367 | 0 | 2,367 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Geological Survey ⁶ | 1,375 | 0 | 1,375 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Minerals Management Service | 992 | 0 | 992 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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

Table C-54. Preliminary Federal obligations for R&D plant, by agency and performer of the research and development the plant supports: fiscal year 1996

[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 | |
| Department of Transportation, total | 29,142 | 24,434 | 0 | 0 | 0 | 0 | 4,183 | 0 | 525 | 0 |
| Coast Guard | 525 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 525 | 0 |
| Federal Aviation Administration | 20,600 | 20,600 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Federal Highway Administration | 3,834 | 3,834 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Federal Railroad Administration | 4,183 | 0 | 0 | 0 | 0 | 0 | 4,183 | 0 | 0 | 0 |
| Department of the Treasury, total | 156 | 31 | 125 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| United States Customs Service | 125 | 0 | 125 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| United States Secret Service ⁷ | 31 | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Veterans Affairs | 3,600 | 3,600 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other agencies: | | | | | | | | | | |
| Environmental Protection Agency | 4,764 | 0 | 4,764 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| General Services Administration | 175 | 0 | 0 | 0 | 175 | 0 | 0 | 0 | 0 | 0 |
| National Aeronautics & Space Admin | 332,500 | 2,080 | 330,420 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Science Foundation | 218,745 | 0 | 7,270 | 0 | 192,491 | 7,429 | 11,555 | 0 | 0 | 0 |
| Smithsonian Institution | 5,000 | 5,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tennessee Valley Authority | 1,000 | 1,000 | 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 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

³ 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.

⁴ Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

⁵ 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

⁶ 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.

⁷ The United States Secret Service was formerly listed as the Office of Protective Research.

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: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

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Table C-55. Preliminary Federal obligations for R&D plant, by agency and performer of the research and development the plant supports: fiscal year 1997

[Dollars in thousands]

| Agency and subdivision | Total | Intra-mural ¹ | Extramural | | | | | | | |
|--|------------------|--------------------------|-------------------------------|----------------------------------|---------------------------|------------------------------------|-------------------------------|---|-----------------------|----------|
| | | | United States and territories | | | | | | | Foreign |
| | | | Industrial firms | FFRDCs admin by industrial firms | Universities and colleges | FFRDCs admin by univs and colleges | Other non-profit institutions | FFRDCs admin by non-profit institutions | State and local govts | |
| Total, all agencies | 2,084,941 | 723,743 | 407,506 | 83,305 | 157,377 | 642,065 | 12,225 | 58,195 | 525 | 0 |
| Departments: | | | | | | | | | | |
| Department of Agriculture, total | 125,262 | 125,262 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Agricultural Research Service ² | 123,262 | 123,262 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Forest Service | 2,000 | 2,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Commerce, total | 105,530 | 105,530 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Inst of Standards & Tech | 105,240 | 105,240 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nat'l Oceanic & Atmospheric Admin | 290 | 290 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Defense, total | 39,972 | 32,349 | 6,895 | 0 | 428 | 100 | 0 | 200 | 0 | 0 |
| Department of the Army | 4,370 | 0 | 4,370 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of the Navy | 11,997 | 10,043 | 1,954 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of the Air Force | 19,954 | 19,954 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Defense Agencies, total | 3,651 | 2,352 | 571 | 0 | 428 | 100 | 0 | 200 | 0 | 0 |
| Ballistic Missile Defense Organization | 1,404 | 1,404 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Defense Logistics Agency | 200 | 0 | 0 | 0 | 0 | 0 | 0 | 200 | 0 | 0 |
| Washington Headquarters Svcs ³ | 2,047 | 948 | 571 | 0 | 428 | 100 | 0 | 0 | 0 | 0 |
| Department of Energy | 825,861 | 1,417 | 39,384 | 83,305 | 11,575 | 631,705 | 480 | 57,995 | 0 | 0 |
| Dept of Health & Human Svcs, total | 429,350 | 429,350 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Food & Drug Administration | 8,350 | 8,350 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Health Resources & Services Admin | 1,000 | 1,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Institutes of Health ⁴ | 420,000 | 420,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of the Interior, total | 7,152 | 0 | 7,152 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Geological Survey ⁵ | 6,160 | 0 | 6,160 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Minerals Management Service | 992 | 0 | 992 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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

Table C-55. Preliminary Federal obligations for R&D plant, by agency and performer of the research and development the plant supports: fiscal year 1997

[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 | |
| Department of Transportation, total | 22,479 | 18,534 | 0 | 0 | 0 | 0 | 3,420 | 0 | 525 | 0 |
| Coast Guard | 525 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 525 | 0 |
| Federal Aviation Administration | 17,200 | 17,200 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Federal Highway Administration | 1,334 | 1,334 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Federal Railroad Administration | 3,420 | 0 | 0 | 0 | 0 | 0 | 3,420 | 0 | 0 | 0 |
| Department of the Treasury, total | 157 | 32 | 125 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| United States Customs Service | 125 | 0 | 125 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| United States Secret Service ⁶ | 32 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Veterans Affairs | 4,300 | 4,300 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other agencies: | | | | | | | | | | |
| Environmental Protection Agency | 4,764 | 0 | 4,764 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Aeronautics & Space Admin | 314,800 | 1,969 | 312,831 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Science Foundation | 200,314 | 0 | 36,355 | 0 | 145,374 | 10,260 | 8,325 | 0 | 0 | 0 |
| Smithsonian Institution | 5,000 | 5,000 | 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 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 3 Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
- 4 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.
- 5 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.
- 6 The United States Secret Service was formerly listed as the Office of Protective Research.

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: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-56. Federal obligations for research performed at universities and colleges, by detailed field of science and engineering: fiscal years 1995, 1996, and 1997

[Dollars in thousands]

Page 1 of 1

| Field of science and engineering | 1995 | Preliminary | |
|--|-----------|-------------|------------|
| | | 1996 | 1997 |
| Total, all fields | 9,972,606 | 10,533,732 | 10,461,652 |
| Life sciences, total | 5,669,655 | 6,233,587 | 6,104,313 |
| Biological (excluding environmental) | 2,637,649 | NA | NA |
| Environmental biology | 208,560 | NA | NA |
| Agricultural | 156,021 | NA | NA |
| Medical | 2,493,235 | NA | NA |
| Life sciences, n.e.c. | 174,190 | NA | NA |
| Psychology, total | 279,512 | 303,728 | 305,063 |
| Biological aspects | 9,546 | NA | NA |
| Social aspects | 21,640 | NA | NA |
| Psychological sciences, n.e.c. | 248,326 | NA | NA |
| Physical sciences, total | 1,193,521 | 1,194,045 | 1,194,400 |
| Astronomy | 167,390 | NA | NA |
| Chemistry | 362,335 | NA | NA |
| Physics | 589,618 | NA | NA |
| Physical sciences, n.e.c. | 74,178 | NA | NA |
| Environmental sciences, total | 629,682 | 611,549 | 615,434 |
| Atmospheric | 215,511 | NA | NA |
| Geological | 175,226 | NA | NA |
| Oceanography | 113,624 | NA | NA |
| Environmental sciences, n.e.c. | 125,321 | NA | NA |
| Mathematics & computer sciences, total | 513,611 | 559,076 | 536,115 |
| Mathematics | 145,843 | NA | NA |
| Computer sciences | 350,875 | NA | NA |
| Mathematics & computer sciences, n.e.c. | 16,893 | NA | NA |
| Engineering, total | 1,088,388 | 1,021,845 | 1,082,357 |
| Aeronautical | 52,458 | NA | NA |
| Astronautical | 18,094 | NA | NA |
| Chemical | 69,383 | NA | NA |
| Civil | 52,749 | NA | NA |
| Electrical | 176,701 | NA | NA |
| Mechanical | 141,609 | NA | NA |
| Metallurgy & materials | 295,352 | NA | NA |
| Engineering, n.e.c. | 282,042 | NA | NA |
| Social sciences, total | 204,488 | 201,494 | 207,473 |
| Anthropology | 11,512 | NA | NA |
| Economics | 59,826 | NA | NA |
| Political science | 7,303 | NA | NA |
| Sociology | 16,305 | NA | NA |
| Social sciences, n.e.c. | 109,542 | NA | NA |
| Other sciences, n.e.c. | 393,749 | 408,408 | 416,497 |

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 years 1995, 1996, and 1997.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list 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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-57. Federal obligations for research performed at universities and colleges, by agency and field of science and engineering: fiscal year 1995

[Dollars in thousands]

| Agency and subdivision | Total | Life sciences | Psychology | Physical sciences | Environmental sciences | Mathematics and computer sciences | Engineering | Social sciences | Other sciences, n.e.c. |
|---|------------------|------------------|----------------|-------------------|------------------------|-----------------------------------|------------------|-----------------|------------------------|
| Total, all agencies | 9,972,606 | 5,669,655 | 279,512 | 1,193,521 | 629,682 | 513,611 | 1,088,388 | 204,488 | 393,749 |
| Departments: | | | | | | | | | |
| Department of Agriculture, total | 430,853 | 324,044 | 0 | 24,832 | 4,437 | 2,571 | 22,715 | 52,254 | 0 |
| Agricultural Marketing Service | 481 | 481 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Agricultural Research Service ¹ | 24,198 | 21,720 | 0 | 0 | 9 | 2,004 | 465 | 0 | 0 |
| Cooperative State Research, Education, & Extension Service ² | 379,762 | 282,843 | 0 | 24,832 | 3,014 | 0 | 21,641 | 47,432 | 0 |
| Economic Research Service | 3,183 | 0 | 0 | 0 | 0 | 0 | 0 | 3,183 | 0 |
| Foreign Agricultural Service ³ | 114 | 114 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Forest Service | 22,965 | 18,886 | 0 | 0 | 1,414 | 422 | 609 | 1,634 | 0 |
| Nat'l Agricultural Statistics Svc | 145 | 0 | 0 | 0 | 0 | 145 | 0 | 0 | 0 |
| Rural Business-Cooperative Svc ⁴ | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 |
| Department of Defense, total | 1,062,832 | 113,418 | 20,873 | 140,023 | 112,800 | 257,625 | 409,774 | 86 | 8,233 |
| Department of the Army | 95,166 | 18,035 | 2,453 | 16,377 | 9,539 | 11,900 | 35,928 | 86 | 848 |
| Department of the Navy | 248,241 | 18,320 | 10,515 | 50,193 | 53,544 | 24,374 | 85,640 | 0 | 5,655 |
| Department of the Air Force | 167,351 | 10,991 | 5,580 | 38,018 | 14,133 | 16,090 | 82,028 | 0 | 511 |
| Defense Agencies, total | 552,074 | 66,072 | 2,325 | 35,435 | 35,584 | 205,261 | 206,178 | 0 | 1,219 |
| Ballistic Missile Defense Organization | 13,268 | 0 | 0 | 4,888 | 966 | 3,340 | 4,074 | 0 | 0 |
| Defense Advanced Research Projects Agency ⁵ | 226,723 | 0 | 0 | 1,085 | 1,003 | 166,756 | 57,876 | 0 | 3 |
| Defense Nuclear Agency | 4,638 | 0 | 0 | 60 | 3,000 | 0 | 362 | 0 | 1,216 |
| Washington Headquarters Svcs ⁶ | 307,445 | 66,072 | 2,325 | 29,402 | 30,615 | 35,165 | 143,866 | 0 | 0 |
| Department of Energy | 558,061 | 84,108 | 0 | 316,844 | 58,149 | 13,272 | 81,438 | 0 | 4,250 |
| Dept of Health & Human Svcs, total | 5,599,759 | 4,800,710 | 240,880 | 91,423 | 13,851 | 36,935 | 80,013 | 82,781 | 253,166 |
| Administration on Aging | 1,500 | 0 | 0 | 0 | 0 | 0 | 0 | 1,500 | 0 |
| Admin for Children & Families | 9,856 | 0 | 0 | 0 | 0 | 0 | 0 | 9,856 | 0 |
| Agcy for Hlth Care Policy & Rsch | 50,138 | 37,447 | 409 | 0 | 0 | 2,820 | 0 | 6,617 | 2,845 |
| Centers for Disease Control & Prevention | 31,700 | 31,700 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Food & Drug Administration | 9,856 | 9,856 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Health Care Financing Admin | 5,838 | 5,838 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Health Resources & Services Admin | 7,229 | 7,229 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Institutes of Health ⁷ | 5,480,904 | 4,708,640 | 240,471 | 91,423 | 13,851 | 34,115 | 80,013 | 62,070 | 250,321 |
| Office of the Secretary | 1,499 | 0 | 0 | 0 | 0 | 0 | 0 | 1,499 | 0 |
| Social Security Administration ⁸ | 1,239 | 0 | 0 | 0 | 0 | 0 | 0 | 1,239 | 0 |
| Other agencies: | | | | | | | | | |
| National Aeronautics & Space Admin | 587,589 | 53,455 | 4,149 | 220,565 | 147,852 | 29,413 | 103,839 | 413 | 27,903 |
| National Science Foundation | 1,733,512 | 293,920 | 13,610 | 399,834 | 292,593 | 173,795 | 390,609 | 68,954 | 100,197 |

- 1 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 2 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.
- 3 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.
- 4 This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.
- 5 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.
- 6 Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
- 7 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.
- 8 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.

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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.

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

Table C-58. Preliminary Federal obligations for research performed at universities and colleges, by agency and field of science and engineering: fiscal year 1996

[Dollars in thousands]

Page 1 of 1

| Agency and subdivision | Total | Life sciences | Psychology | Physical sciences | Environmental sciences | Mathematics and computer sciences | Engineering | Social sciences | Other sciences, n.e.c. |
|---|-------------------|------------------|----------------|-------------------|------------------------|-----------------------------------|------------------|-----------------|------------------------|
| Total, all agencies | 10,533,732 | 6,233,587 | 303,728 | 1,194,045 | 611,549 | 559,076 | 1,021,845 | 201,494 | 408,408 |
| Departments: | | | | | | | | | |
| Department of Agriculture, total | 419,407 | 316,647 | 0 | 24,017 | 4,582 | 2,621 | 21,998 | 49,542 | 0 |
| Agricultural Research Service ¹ | 25,465 | 22,858 | 0 | 0 | 9 | 2,109 | 489 | 0 | 0 |
| Cooperative State Research, Education, & Extension Service ² | 368,650 | 274,808 | 0 | 24,017 | 2,899 | 0 | 20,900 | 46,026 | 0 |
| Economic Research Service | 1,882 | 0 | 0 | 0 | 0 | 0 | 0 | 1,882 | 0 |
| Foreign Agricultural Service ³ | 355 | 355 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Forest Service | 22,965 | 18,626 | 0 | 0 | 1,674 | 422 | 609 | 1,634 | 0 |
| Nat'l Agricultural Statistics Svc | 90 | 0 | 0 | 0 | 0 | 90 | 0 | 0 | 0 |
| Department of Defense, total | 1,026,368 | 110,453 | 21,161 | 142,048 | 96,847 | 297,676 | 349,767 | 38 | 8,378 |
| Department of the Army | 98,919 | 17,645 | 2,468 | 17,245 | 5,652 | 9,917 | 45,487 | 38 | 467 |
| Department of the Navy | 236,921 | 16,790 | 9,396 | 49,273 | 48,516 | 22,355 | 83,944 | 0 | 6,647 |
| Department of the Air Force | 157,739 | 13,986 | 5,153 | 31,211 | 15,692 | 19,774 | 71,256 | 0 | 667 |
| Defense Agencies, total | 532,789 | 62,032 | 4,144 | 44,319 | 26,987 | 245,630 | 149,080 | 0 | 597 |
| Ballistic Missile Defense Organization | 15,600 | 0 | 0 | 4,914 | 0 | 3,240 | 7,446 | 0 | 0 |
| Defense Advanced Research Projects Agency ⁴ | 208,860 | 0 | 0 | 1,055 | 787 | 144,769 | 62,004 | 0 | 245 |
| Defense Nuclear Agency | 768 | 0 | 0 | 12 | 0 | 0 | 404 | 0 | 352 |
| Washington Headquarters Svcs ⁵ | 307,561 | 62,032 | 4,144 | 38,338 | 26,200 | 97,621 | 79,226 | 0 | 0 |
| Department of Energy | 526,497 | 83,914 | 0 | 304,691 | 54,516 | 14,220 | 68,906 | 0 | 250 |
| Dept of Health & Human Svcs, total | 6,248,275 | 5,376,803 | 264,368 | 105,831 | 15,043 | 38,554 | 90,670 | 80,837 | 276,169 |
| Admin for Children & Families | 7,304 | 0 | 0 | 0 | 0 | 0 | 0 | 7,304 | 0 |
| Agcy for Hlth Care Policy & Rsch | 22,115 | 16,586 | 0 | 0 | 0 | 1,327 | 0 | 2,875 | 1,327 |
| Centers for Disease Control & Prevention | 31,700 | 31,700 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Food & Drug Administration | 9,856 | 9,856 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Health Care Financing Admin | 5,200 | 5,200 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Health Resources & Services Admin | 7,197 | 7,197 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Institutes of Health ⁶ | 6,162,903 | 5,306,264 | 264,368 | 105,831 | 15,043 | 37,227 | 90,670 | 68,658 | 274,842 |
| Office of the Secretary | 2,000 | 0 | 0 | 0 | 0 | 0 | 0 | 2,000 | 0 |
| Other agencies: | | | | | | | | | |
| National Aeronautics & Space Admin | 587,589 | 53,455 | 4,149 | 220,565 | 147,852 | 29,413 | 103,839 | 413 | 27,903 |
| National Science Foundation | 1,725,596 | 292,315 | 14,050 | 396,893 | 292,709 | 176,592 | 386,665 | 70,664 | 95,708 |

- 1 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
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- 3 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.
- 4 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.
- 5 Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
- 6 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

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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: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-59. Preliminary Federal obligations for research performed at universities and colleges, by agency and field of science and engineering: fiscal year 1997

[Dollars in thousands]

Page 1 of 1

| Agency and subdivision | Total | Life sciences | Psychology | Physical sciences | Environmental sciences | Mathematics and computer sciences | Engineering | Social sciences | Other sciences, n.e.c. |
|---|------------|---------------|------------|-------------------|------------------------|-----------------------------------|-------------|-----------------|------------------------|
| Total, all agencies | 10,461,652 | 6,104,313 | 305,063 | 1,194,400 | 615,434 | 536,115 | 1,082,357 | 207,473 | 416,497 |
| Departments: | | | | | | | | | |
| Department of Agriculture, total | 416,869 | 323,522 | 0 | 22,633 | 3,900 | 2,621 | 19,912 | 44,281 | 0 |
| Agricultural Research Service ¹ | 25,465 | 22,858 | 0 | 0 | 9 | 2,109 | 489 | 0 | 0 |
| Cooperative State Research, Education, & Extension Service ² | 366,112 | 281,683 | 0 | 22,633 | 2,217 | 0 | 18,814 | 40,765 | 0 |
| Economic Research Service | 1,882 | 0 | 0 | 0 | 0 | 0 | 0 | 1,882 | 0 |
| Foreign Agricultural Service ³ | 355 | 355 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Forest Service | 22,965 | 18,626 | 0 | 0 | 1,674 | 422 | 609 | 1,634 | 0 |
| Nat'l Agricultural Statistics Svc | 90 | 0 | 0 | 0 | 0 | 90 | 0 | 0 | 0 |
| Department of Defense, total | 968,057 | 88,372 | 20,717 | 131,048 | 85,817 | 254,090 | 380,335 | 73 | 7,605 |
| Department of the Army | 93,352 | 16,762 | 2,579 | 16,217 | 4,651 | 9,965 | 43,105 | 73 | 0 |
| Department of the Navy | 236,170 | 16,845 | 9,480 | 48,610 | 50,121 | 22,910 | 81,375 | 0 | 6,829 |
| Department of the Air Force | 158,506 | 13,986 | 5,542 | 33,827 | 8,075 | 21,487 | 74,938 | 0 | 651 |
| Defense Agencies, total | 480,029 | 40,779 | 3,116 | 32,394 | 22,970 | 199,728 | 180,917 | 0 | 125 |
| Ballistic Missile Defense Organization | 16,977 | 0 | 0 | 6,170 | 0 | 2,305 | 8,502 | 0 | 0 |
| Defense Advanced Research Projects Agency ⁴ | 203,250 | 0 | 0 | 1,307 | 0 | 142,265 | 59,678 | 0 | 0 |
| Defense Nuclear Agency | 682 | 0 | 0 | 153 | 0 | 0 | 404 | 0 | 125 |
| Washington Headquarters Svcs ⁵ | 259,120 | 40,779 | 3,116 | 24,764 | 22,970 | 55,158 | 112,333 | 0 | 0 |
| Department of Energy | 533,090 | 71,308 | 0 | 307,179 | 54,471 | 19,520 | 80,381 | 0 | 231 |
| Dept of Health & Human Svcs, total | 6,132,461 | 5,258,828 | 264,426 | 100,751 | 15,223 | 39,112 | 88,095 | 89,175 | 276,851 |
| Admin for Children & Families | 15,419 | 0 | 0 | 0 | 0 | 0 | 0 | 15,419 | 0 |
| Agcy for Hlth Care Policy & Rsch | 26,811 | 20,108 | 0 | 0 | 0 | 1,609 | 0 | 3,485 | 1,609 |
| Centers for Disease Control & Prevention | 31,700 | 31,700 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Food & Drug Administration | 9,856 | 9,856 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Health Care Financing Admin | 6,605 | 6,605 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Health Resources & Services Admin | 7,116 | 7,116 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Institutes of Health ⁶ | 6,032,954 | 5,183,443 | 264,426 | 100,751 | 15,223 | 37,503 | 88,095 | 68,271 | 275,242 |
| Office of the Secretary | 2,000 | 0 | 0 | 0 | 0 | 0 | 0 | 2,000 | 0 |
| Other agencies: | | | | | | | | | |
| National Aeronautics & Space Admin | 587,589 | 53,455 | 4,149 | 220,565 | 147,852 | 29,413 | 103,839 | 413 | 27,903 |
| National Science Foundation | 1,823,586 | 308,828 | 15,771 | 412,224 | 308,171 | 191,359 | 409,795 | 73,531 | 103,907 |

- The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 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.
- 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.
- 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.
- Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
- 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

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 1997.

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: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-60. Federal obligations for research performed at universities and colleges in psychology and life sciences, by agency and detailed field of science: fiscal year 1995

[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 | Agricul-tural | Medical | Life sciences, n.e.c. |
| Total, all agencies | 279,512 | 9,546 | 21,640 | 248,326 | 5,669,655 | 2,637,649 | 208,560 | 156,021 | 2,493,235 | 174,190 |
| Departments: | | | | | | | | | | |
| Department of Agriculture, total | 0 | 0 | 0 | 0 | 324,044 | 87,851 | 72,194 | 154,747 | 9,241 | 11 |
| Agricultural Marketing Service | 0 | 0 | 0 | 0 | 481 | 0 | 0 | 481 | 0 | 0 |
| Agricultural Research Service ¹ | 0 | 0 | 0 | 0 | 21,720 | 5,392 | 775 | 15,542 | 0 | 11 |
| Cooperative State Research, Education, & Extension Service ² | 0 | 0 | 0 | 0 | 282,843 | 72,349 | 62,643 | 138,610 | 9,241 | 0 |
| Foreign Agricultural Service ³ | 0 | 0 | 0 | 0 | 114 | 0 | 0 | 114 | 0 | 0 |
| Forest Service | 0 | 0 | 0 | 0 | 18,886 | 10,110 | 8,776 | 0 | 0 | 0 |
| Department of Defense, total | 20,873 | 6,350 | 11,782 | 2,741 | 113,418 | 26,232 | 20,330 | 0 | 40,896 | 25,960 |
| Department of the Army | 2,453 | 0 | 2,453 | 0 | 18,035 | 4,263 | 88 | 0 | 13,370 | 314 |
| Department of the Navy | 10,515 | 4,863 | 4,308 | 1,344 | 18,320 | 9,991 | 6,478 | 0 | 1,851 | 0 |
| Department of the Air Force | 5,580 | 281 | 5,021 | 278 | 10,991 | 6,353 | 4,071 | 0 | 0 | 567 |
| Defense Agencies, total | 2,325 | 1,206 | 0 | 1,119 | 66,072 | 5,625 | 9,693 | 0 | 25,675 | 25,079 |
| Washington Headquarters Svcs ⁴ | 2,325 | 1,206 | 0 | 1,119 | 66,072 | 5,625 | 9,693 | 0 | 25,675 | 25,079 |
| Department of Energy | 0 | 0 | 0 | 0 | 84,108 | 56,548 | 25 | 0 | 25,124 | 2,411 |
| Dept of Health & Human Svcs, total | 240,880 | 21 | 25 | 240,834 | 4,800,710 | 2,236,272 | 36,586 | 0 | 2,408,281 | 119,571 |
| Agcy for Hlth Care Policy & Rsch | 409 | 21 | 25 | 363 | 37,447 | 0 | 0 | 0 | 33,473 | 3,974 |
| Centers for Disease Control & Prevention | 0 | 0 | 0 | 0 | 31,700 | 0 | 0 | 0 | 31,700 | 0 |
| Food & Drug Administration | 0 | 0 | 0 | 0 | 9,856 | 9,856 | 0 | 0 | 0 | 0 |
| Health Care Financing Admin | 0 | 0 | 0 | 0 | 5,838 | 0 | 0 | 0 | 0 | 5,838 |
| Health Resources & Services Admin ... | 0 | 0 | 0 | 0 | 7,229 | 0 | 0 | 0 | 7,229 | 0 |
| National Institutes of Health ⁵ | 240,471 | 0 | 0 | 240,471 | 4,708,640 | 2,226,416 | 36,586 | 0 | 2,335,879 | 109,759 |
| Other agencies: | | | | | | | | | | |
| National Aeronautics & Space Admin | 4,149 | 85 | 2,367 | 1,697 | 53,455 | 23,699 | 1,804 | 1,274 | 9,693 | 16,985 |
| National Science Foundation | 13,610 | 3,090 | 7,466 | 3,054 | 293,920 | 207,047 | 77,621 | 0 | 0 | 9,252 |

- 1 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 2 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.
- 3 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.
- 4 Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
- 5 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

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 1995.

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

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-61. Federal obligations for research performed at universities and colleges in physical and environmental sciences, by agency and detailed field of science: fiscal year 1995

[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 | 1,193,521 | 167,390 | 362,335 | 589,618 | 74,178 | 629,682 | 215,511 | 175,226 | 113,624 | 125,321 |
| Departments: | | | | | | | | | | |
| Department of Agriculture, total | 24,832 | 0 | 24,832 | 0 | 0 | 4,437 | 3,498 | 930 | 0 | 9 |
| Agricultural Research Service ¹ | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 9 |
| Cooperative State Research, Education, & Extension Service ² | 24,832 | 0 | 24,832 | 0 | 0 | 3,014 | 3,014 | 0 | 0 | 0 |
| Forest Service | 0 | 0 | 0 | 0 | 0 | 1,414 | 484 | 930 | 0 | 0 |
| Department of Defense, total | 140,023 | 5,402 | 62,957 | 70,679 | 985 | 112,800 | 27,208 | 29,627 | 45,211 | 10,754 |
| Department of the Army | 16,377 | 0 | 7,873 | 8,498 | 6 | 9,539 | 3,580 | 1,066 | 84 | 4,809 |
| Department of the Navy | 50,193 | 2,347 | 16,834 | 30,790 | 222 | 53,544 | 9,478 | 13,607 | 30,459 | 0 |
| Department of the Air Force | 38,018 | 2,602 | 24,211 | 11,205 | 0 | 14,133 | 5,261 | 8,872 | 0 | 0 |
| Defense Agencies, total | 35,435 | 453 | 14,039 | 20,186 | 757 | 35,584 | 8,889 | 6,082 | 14,668 | 5,945 |
| Ballistic Missile Defense Organization | 4,888 | 0 | 1,948 | 2,440 | 500 | 966 | 966 | 0 | 0 | 0 |
| Defense Advanced Research Projects Agency ³ | 1,085 | 0 | 0 | 888 | 197 | 1,003 | 0 | 1,003 | 0 | 0 |
| Defense Nuclear Agency | 60 | 0 | 0 | 0 | 60 | 3,000 | 0 | 0 | 0 | 3,000 |
| Washington Headquarters Svcs ⁴ | 29,402 | 453 | 12,091 | 16,858 | 0 | 30,615 | 7,923 | 5,079 | 14,668 | 2,945 |
| Department of Energy | 316,844 | 0 | 43,044 | 271,144 | 2,656 | 58,149 | 28,034 | 24,053 | 4,472 | 1,590 |
| Dept of Health & Human Svcs, total | 91,423 | 0 | 80,712 | 10,711 | 0 | 13,851 | 0 | 0 | 0 | 13,851 |
| National Institutes of Health ⁵ | 91,423 | 0 | 80,712 | 10,711 | 0 | 13,851 | 0 | 0 | 0 | 13,851 |
| Other agencies: | | | | | | | | | | |
| National Aeronautics & Space Admin | 220,565 | 113,837 | 5,830 | 66,332 | 34,566 | 147,852 | 56,045 | 18,997 | 12,916 | 59,894 |
| National Science Foundation | 399,834 | 48,151 | 144,960 | 170,752 | 35,971 | 292,593 | 100,726 | 101,619 | 51,025 | 39,223 |

¹ The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

² 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.

³ 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.

⁴ Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

⁵ 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

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SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

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Table C-62. Federal obligations for research performed at universities and colleges in engineering, by agency and detailed field of engineering: fiscal year 1995

[Dollars in thousands]

Page 1 of 1

| 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 | 1,088,388 | 52,458 | 18,094 | 69,383 | 52,749 | 176,701 | 141,609 | 295,352 | 282,042 |
| Departments: | | | | | | | | | |
| Department of Agriculture, total | 22,715 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22,715 |
| Agricultural Research Service ¹ | 465 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 465 |
| Cooperative State Research, Education, & Extension Service ² | 21,641 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21,641 |
| Forest Service | 609 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 609 |
| Department of Defense, total | 409,774 | 20,878 | 6,557 | 4,801 | 10,160 | 122,417 | 72,096 | 113,252 | 59,613 |
| Department of the Army | 35,928 | 749 | 12 | 596 | 7,131 | 12,668 | 5,036 | 8,125 | 1,611 |
| Department of the Navy | 85,640 | 561 | 3,527 | 561 | 1,043 | 29,271 | 26,828 | 23,698 | 151 |
| Department of the Air Force | 82,028 | 12,815 | 2,768 | 0 | 478 | 17,176 | 8,220 | 20,571 | 20,000 |
| Defense Agencies, total | 206,178 | 6,753 | 250 | 3,644 | 1,508 | 63,302 | 32,012 | 60,858 | 37,851 |
| Ballistic Missile Defense Organization | 4,074 | 275 | 250 | 222 | 0 | 2,156 | 43 | 1,128 | 0 |
| Defense Advanced Research Projects Agency ³ | 57,876 | 0 | 0 | 0 | 0 | 7,146 | 0 | 27,627 | 23,103 |
| Defense Nuclear Agency | 362 | 0 | 0 | 0 | 0 | 305 | 57 | 0 | 0 |
| Washington Headquarters Svcs ⁴ | 143,866 | 6,478 | 0 | 3,422 | 1,508 | 53,695 | 31,912 | 32,103 | 14,748 |
| Department of Energy | 81,438 | 0 | 0 | 19,844 | 4,437 | 3,028 | 8,463 | 18,263 | 27,403 |
| Dept of Health & Human Svcs, total | 80,013 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 80,013 |
| National Institutes of Health ⁵ | 80,013 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 80,013 |
| Other agencies: | | | | | | | | | |
| National Aeronautics & Space Admin | 103,839 | 31,580 | 11,537 | 2,970 | 1,235 | 7,489 | 10,045 | 19,265 | 19,718 |
| National Science Foundation | 390,609 | 0 | 0 | 41,768 | 36,917 | 43,767 | 51,005 | 144,572 | 72,580 |

¹ The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

² 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.

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⁵ 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

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

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-63. Federal obligations for research performed at universities and colleges in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1995

[Dollars in thousands]

Page 1 of 1

| 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 | 513,611 | 145,843 | 350,875 | 16,893 | 204,488 | 11,512 | 59,826 | 7,303 | 16,305 | 109,542 |
| Departments: | | | | | | | | | | |
| Department of Agriculture, total | 2,571 | 567 | 2,004 | 0 | 52,254 | 0 | 44,640 | 0 | 7,614 | 0 |
| Agricultural Research Service ¹ | 2,004 | 0 | 2,004 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cooperative State Research, Education, & Extension Service ² | 0 | 0 | 0 | 0 | 47,432 | 0 | 40,047 | 0 | 7,385 | 0 |
| Economic Research Service | 0 | 0 | 0 | 0 | 3,183 | 0 | 3,183 | 0 | 0 | 0 |
| Forest Service | 422 | 422 | 0 | 0 | 1,634 | 0 | 1,405 | 0 | 229 | 0 |
| Nat'l Agricultural Statistics Svc | 145 | 145 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rural Business-Cooperative Svc ³ | 0 | 0 | 0 | 0 | 5 | 0 | 5 | 0 | 0 | 0 |
| Department of Defense, total | 257,625 | 38,971 | 212,473 | 6,181 | 86 | 0 | 52 | 0 | 34 | 0 |
| Department of the Army | 11,900 | 5,311 | 5,609 | 980 | 86 | 0 | 52 | 0 | 34 | 0 |
| Department of the Navy | 24,374 | 12,228 | 12,078 | 68 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of the Air Force | 16,090 | 9,808 | 4,152 | 2,130 | 0 | 0 | 0 | 0 | 0 | 0 |
| Defense Agencies, total | 205,261 | 11,624 | 190,634 | 3,003 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ballistic Missile Defense Organization | 3,340 | 250 | 3,090 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Defense Advanced Research Projects Agency ⁴ | 166,756 | 3,184 | 163,375 | 197 | 0 | 0 | 0 | 0 | 0 | 0 |
| Washington Headquarters Svcs ⁵ | 35,165 | 8,190 | 24,169 | 2,806 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Energy | 13,272 | 8,908 | 4,364 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dept of Health & Human Svcs, total | 36,935 | 20,112 | 16,823 | 0 | 82,781 | 0 | 3,119 | 108 | 1,915 | 77,639 |
| Administration on Aging | 0 | 0 | 0 | 0 | 1,500 | 0 | 0 | 0 | 0 | 1,500 |
| Admin for Children & Families | 0 | 0 | 0 | 0 | 9,856 | 0 | 0 | 0 | 0 | 9,856 |
| Agcy for Hlth Care Policy & Rsch | 2,820 | 128 | 2,692 | 0 | 6,617 | 0 | 3,119 | 108 | 1,915 | 1,475 |
| National Institutes of Health ⁶ | 34,115 | 19,984 | 14,131 | 0 | 62,070 | 0 | 0 | 0 | 0 | 62,070 |
| Office of the Secretary | 0 | 0 | 0 | 0 | 1,499 | 0 | 0 | 0 | 0 | 1,499 |
| Social Security Administration ⁷ | 0 | 0 | 0 | 0 | 1,239 | 0 | 0 | 0 | 0 | 1,239 |
| Other agencies: | | | | | | | | | | |
| National Aeronautics & Space Admin | 29,413 | 917 | 22,231 | 6,265 | 413 | 0 | 0 | 0 | 0 | 413 |
| National Science Foundation | 173,795 | 76,368 | 92,980 | 4,447 | 68,954 | 11,512 | 12,015 | 7,195 | 6,742 | 31,490 |

¹ The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

² 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.

³ This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.

⁴ 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.

⁵ Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

⁶ 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

⁷ 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.

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 1995.

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.

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

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-64. Federal obligations for basic research performed at universities and colleges, by detailed field of science and engineering: fiscal years 1995, 1996, and 1997

[Dollars in thousands]

Page 1 of 1

| Field of science and engineering | 1995 | Preliminary | |
|--|-----------|-------------|-----------|
| | | 1996 | 1997 |
| Total, all fields | 6,909,852 | 7,703,420 | 7,374,382 |
| Life sciences, total | 3,715,185 | 4,375,404 | 4,031,424 |
| Biological (excluding environmental) | 1,868,843 | NA | NA |
| Environmental biology | 145,558 | NA | NA |
| Agricultural | 78,766 | NA | NA |
| Medical | 1,524,931 | NA | NA |
| Life sciences, n.e.c. | 97,087 | NA | NA |
| Psychology, total | 162,533 | 193,293 | 177,060 |
| Biological aspects | 8,855 | NA | NA |
| Social aspects | 12,195 | NA | NA |
| Psychological sciences, n.e.c. | 141,483 | NA | NA |
| Physical sciences, total | 975,889 | 1,051,815 | 1,050,384 |
| Astronomy | 141,351 | NA | NA |
| Chemistry | 312,685 | NA | NA |
| Physics | 455,444 | NA | NA |
| Physical sciences, n.e.c. | 66,409 | NA | NA |
| Environmental sciences, total | 577,849 | 567,657 | 577,077 |
| Atmospheric | 204,968 | NA | NA |
| Geological | 161,742 | NA | NA |
| Oceanography | 106,642 | NA | NA |
| Environmental sciences, n.e.c. | 104,497 | NA | NA |
| Mathematics & computer sciences, total | 313,803 | 377,881 | 359,060 |
| Mathematics | 131,654 | NA | NA |
| Computer sciences | 174,363 | NA | NA |
| Mathematics & computer sciences, n.e.c. | 7,786 | NA | NA |
| Engineering, total | 788,519 | 724,617 | 779,532 |
| Aeronautical | 42,438 | NA | NA |
| Astronautical | 12,027 | NA | NA |
| Chemical | 39,121 | NA | NA |
| Civil | 37,119 | NA | NA |
| Electrical | 140,914 | NA | NA |
| Mechanical | 119,698 | NA | NA |
| Metallurgy & materials | 235,736 | NA | NA |
| Engineering, n.e.c. | 161,466 | NA | NA |
| Social sciences, total | 112,070 | 121,009 | 117,565 |
| Anthropology | 10,786 | NA | NA |
| Economics | 22,311 | NA | NA |
| Political science | 6,590 | NA | NA |
| Sociology | 8,343 | NA | NA |
| Social sciences, n.e.c. | 64,040 | NA | NA |
| Other sciences, n.e.c. | 264,004 | 291,744 | 282,280 |

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 1995, 1996, and 1997.

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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-65. Federal obligations for basic research performed at universities and colleges, by agency and field of science and engineering: fiscal year 1995

[Dollars in thousands]

Page 1 of 1

| Agency and subdivision | Total | Life sciences | Psychology | Physical sciences | Environmental sciences | Mathematics and computer sciences | Engineering | Social sciences | Other sciences, n.e.c. |
|---|-----------|---------------|------------|-------------------|------------------------|-----------------------------------|-------------|-----------------|------------------------|
| Total, all agencies | 6,909,852 | 3,715,185 | 162,533 | 975,889 | 577,849 | 313,803 | 788,519 | 112,070 | 264,004 |
| Departments: | | | | | | | | | |
| Department of Agriculture, total | 192,870 | 158,837 | 0 | 9,577 | 1,390 | 1,341 | 6,706 | 15,019 | 0 |
| Agricultural Research Service ¹ | 14,203 | 12,749 | 0 | 0 | 5 | 1,176 | 273 | 0 | 0 |
| Cooperative State Research, Education, & Extension Service ² | 169,287 | 138,349 | 0 | 9,577 | 1,121 | 0 | 6,196 | 14,044 | 0 |
| Economic Research Service | 318 | 0 | 0 | 0 | 0 | 0 | 0 | 318 | 0 |
| Foreign Agricultural Service ³ | 86 | 86 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Forest Service | 8,976 | 7,653 | 0 | 0 | 264 | 165 | 237 | 657 | 0 |
| Department of Defense, total | 713,637 | 79,234 | 14,300 | 121,335 | 91,022 | 93,234 | 308,666 | 0 | 5,846 |
| Department of the Army | 71,100 | 10,793 | 1,819 | 15,257 | 6,259 | 10,064 | 26,908 | 0 | 0 |
| Department of the Navy | 210,598 | 17,221 | 9,404 | 40,184 | 52,242 | 23,075 | 63,137 | 0 | 5,335 |
| Department of the Air Force | 135,818 | 10,294 | 752 | 34,292 | 14,133 | 14,226 | 61,610 | 0 | 511 |
| Defense Agencies, total | 296,121 | 40,926 | 2,325 | 31,602 | 18,388 | 45,869 | 157,011 | 0 | 0 |
| Ballistic Missile Defense Organization | 3,000 | 0 | 0 | 2,200 | 0 | 0 | 800 | 0 | 0 |
| Defense Advanced Research Projects Agency ⁴ | 28,561 | 0 | 0 | 0 | 0 | 13,510 | 15,051 | 0 | 0 |
| Washington Headquarters Svcs ⁵ | 264,560 | 40,926 | 2,325 | 29,402 | 18,388 | 32,359 | 141,160 | 0 | 0 |
| Department of Energy | 369,311 | 57,654 | 0 | 211,327 | 50,152 | 13,272 | 36,767 | 0 | 139 |
| Dept of Health & Human Svcs, total | 3,555,562 | 3,095,781 | 134,770 | 70,052 | 7,112 | 18,135 | 54,406 | 36,270 | 139,036 |
| National Institutes of Health ⁶ | 3,555,562 | 3,095,781 | 134,770 | 70,052 | 7,112 | 18,135 | 54,406 | 36,270 | 139,036 |
| Other agencies: | | | | | | | | | |
| National Aeronautics & Space Admin | 480,168 | 43,437 | 1,897 | 176,757 | 138,676 | 23,152 | 72,867 | 413 | 22,969 |
| National Science Foundation | 1,598,304 | 280,242 | 11,566 | 386,841 | 289,497 | 164,669 | 309,107 | 60,368 | 96,014 |

- 1 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 2 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.
- 3 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.
- 4 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.
- 5 Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
- 6 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

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 1995.

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.

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

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

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Table C-66. Preliminary Federal obligations for basic research performed at universities and colleges, by agency and field of science and engineering: fiscal year 1996

[Dollars in thousands]

Page 1 of 1

| Agency and subdivision | Total | Life sciences | Psychology | Physical sciences | Environmental sciences | Mathematics and computer sciences | Engineering | Social sciences | Other sciences, n.e.c. |
|---|-----------|---------------|------------|-------------------|------------------------|-----------------------------------|-------------|-----------------|------------------------|
| Total, all agencies | 7,703,420 | 4,375,404 | 193,293 | 1,051,815 | 567,657 | 377,881 | 724,617 | 121,009 | 291,744 |
| Departments: | | | | | | | | | |
| Department of Agriculture, total | 188,434 | 155,436 | 0 | 9,256 | 1,362 | 1,403 | 6,504 | 14,473 | 0 |
| Agricultural Research Service ¹ | 14,947 | 13,417 | 0 | 0 | 5 | 1,238 | 287 | 0 | 0 |
| Cooperative State Research, Education, & Extension Service ² | 164,233 | 134,291 | 0 | 9,256 | 1,078 | 0 | 5,980 | 13,628 | 0 |
| Economic Research Service | 188 | 0 | 0 | 0 | 0 | 0 | 0 | 188 | 0 |
| Foreign Agricultural Service ³ | 89 | 89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Forest Service | 8,977 | 7,639 | 0 | 0 | 279 | 165 | 237 | 657 | 0 |
| Department of Defense, total | 659,364 | 52,511 | 14,519 | 121,421 | 82,804 | 149,291 | 231,890 | 0 | 6,928 |
| Department of the Army | 80,124 | 7,413 | 1,753 | 16,710 | 4,625 | 8,731 | 40,892 | 0 | 0 |
| Department of the Navy | 191,453 | 15,462 | 8,055 | 37,183 | 46,943 | 20,786 | 56,763 | 0 | 6,261 |
| Department of the Air Force | 122,919 | 13,171 | 567 | 27,668 | 14,421 | 18,429 | 47,996 | 0 | 667 |
| Defense Agencies, total | 264,868 | 16,465 | 4,144 | 39,860 | 16,815 | 101,345 | 86,239 | 0 | 0 |
| Ballistic Missile Defense Organization | 2,314 | 0 | 0 | 1,364 | 0 | 0 | 950 | 0 | 0 |
| Defense Advanced Research Projects Agency ⁴ | 26,563 | 0 | 0 | 158 | 0 | 12,033 | 14,372 | 0 | 0 |
| Washington Headquarters Svcs ⁵ | 235,991 | 16,465 | 4,144 | 38,338 | 16,815 | 89,312 | 70,917 | 0 | 0 |
| Department of Energy | 432,660 | 55,704 | 0 | 277,263 | 46,585 | 14,220 | 38,888 | 0 | 0 |
| Dept of Health & Human Svcs, total | 4,351,544 | 3,788,889 | 164,924 | 85,725 | 8,703 | 22,193 | 66,579 | 44,386 | 170,145 |
| National Institutes of Health ⁶ | 4,351,544 | 3,788,889 | 164,924 | 85,725 | 8,703 | 22,193 | 66,579 | 44,386 | 170,145 |
| Other agencies: | | | | | | | | | |
| National Aeronautics & Space Admin | 480,168 | 43,437 | 1,897 | 176,757 | 138,676 | 23,152 | 72,867 | 413 | 22,969 |
| National Science Foundation | 1,591,250 | 279,427 | 11,953 | 381,393 | 289,527 | 167,622 | 307,889 | 61,737 | 91,702 |

1 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

2 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.

3 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.

4 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.

5 Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

6 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

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 1996.

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: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-67. Preliminary Federal obligations for basic research performed at universities and colleges, by agency and field of science and engineering: fiscal year 1997

[Dollars in thousands]

Page 1 of 1

| Agency and subdivision | Total | Life sciences | Psychology | Physical sciences | Environmental sciences | Mathematics and computer sciences | Engineering | Social sciences | Other sciences, n.e.c. |
|---|-----------|---------------|------------|-------------------|------------------------|-----------------------------------|-------------|-----------------|------------------------|
| Total, all agencies | 7,374,382 | 4,031,424 | 177,060 | 1,050,384 | 577,077 | 359,060 | 779,532 | 117,565 | 282,280 |
| Departments: | | | | | | | | | |
| Department of Agriculture, total | 198,942 | 167,395 | 0 | 9,191 | 1,153 | 1,403 | 6,195 | 13,605 | 0 |
| Agricultural Research Service ¹ | 14,947 | 13,417 | 0 | 0 | 5 | 1,238 | 287 | 0 | 0 |
| Cooperative State Research, Education, & Extension Service ² | 174,741 | 146,250 | 0 | 9,191 | 869 | 0 | 5,671 | 12,760 | 0 |
| Economic Research Service | 188 | 0 | 0 | 0 | 0 | 0 | 0 | 188 | 0 |
| Foreign Agricultural Service ³ | 89 | 89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Forest Service | 8,977 | 7,639 | 0 | 0 | 279 | 165 | 237 | 657 | 0 |
| Department of Defense, total | 647,104 | 51,457 | 13,926 | 111,535 | 77,167 | 112,136 | 273,696 | 24 | 7,163 |
| Department of the Army | 74,892 | 7,626 | 1,881 | 15,384 | 3,764 | 8,145 | 38,068 | 24 | 0 |
| Department of the Navy | 198,812 | 15,754 | 8,378 | 38,676 | 48,829 | 21,621 | 59,042 | 0 | 6,512 |
| Department of the Air Force | 125,593 | 13,834 | 551 | 30,422 | 8,075 | 20,070 | 51,990 | 0 | 651 |
| Defense Agencies, total | 247,807 | 14,243 | 3,116 | 27,053 | 16,499 | 62,300 | 124,596 | 0 | 0 |
| Ballistic Missile Defense Organization | 3,314 | 0 | 0 | 2,050 | 0 | 0 | 1,264 | 0 | 0 |
| Defense Advanced Research Projects Agency ⁴ | 25,850 | 0 | 0 | 239 | 0 | 10,877 | 14,734 | 0 | 0 |
| Washington Headquarters Svcs ⁵ | 218,643 | 14,243 | 3,116 | 24,764 | 16,499 | 51,423 | 108,598 | 0 | 0 |
| Department of Energy | 439,998 | 53,731 | 0 | 279,967 | 47,540 | 19,520 | 39,240 | 0 | 0 |
| Dept of Health & Human Svcs, total | 3,928,435 | 3,420,488 | 148,888 | 77,391 | 7,857 | 20,035 | 60,105 | 40,070 | 153,601 |
| National Institutes of Health ⁶ | 3,928,435 | 3,420,488 | 148,888 | 77,391 | 7,857 | 20,035 | 60,105 | 40,070 | 153,601 |
| Other agencies: | | | | | | | | | |
| National Aeronautics & Space Admin | 480,168 | 43,437 | 1,897 | 176,757 | 138,676 | 23,152 | 72,867 | 413 | 22,969 |
| National Science Foundation | 1,679,735 | 294,916 | 12,349 | 395,543 | 304,684 | 182,814 | 327,429 | 63,453 | 98,547 |

- 1 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 2 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.
- 3 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.
- 4 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.
- 5 Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
- 6 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

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 1997.

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: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

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Table C-68. Federal obligations for basic research performed at universities and colleges in psychology and life sciences, by agency and detailed field of science: fiscal year 1995

[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 | Agricul-tural | Medical | Life sciences, n.e.c. |
| Total, all agencies | 162,533 | 8,855 | 12,195 | 141,483 | 3,715,185 | 1,868,843 | 145,558 | 78,766 | 1,524,931 | 97,087 |
| Departments: | | | | | | | | | | |
| Department of Agriculture, total | 0 | 0 | 0 | 0 | 158,837 | 50,316 | 25,356 | 78,466 | 4,693 | 6 |
| Agricultural Research Service ¹ | 0 | 0 | 0 | 0 | 12,749 | 3,165 | 455 | 9,123 | 0 | 6 |
| Cooperative State Research, Education, & Extension Service ² | 0 | 0 | 0 | 0 | 138,349 | 43,208 | 21,191 | 69,257 | 4,693 | 0 |
| Foreign Agricultural Service ³ | 0 | 0 | 0 | 0 | 86 | 0 | 0 | 86 | 0 | 0 |
| Forest Service | 0 | 0 | 0 | 0 | 7,653 | 3,943 | 3,710 | 0 | 0 | 0 |
| Department of Defense, total | 14,300 | 6,180 | 5,379 | 2,741 | 79,234 | 24,882 | 20,072 | 0 | 33,966 | 314 |
| Department of the Army | 1,819 | 0 | 1,819 | 0 | 10,793 | 3,383 | 88 | 0 | 7,008 | 314 |
| Department of the Navy | 9,404 | 4,693 | 3,367 | 1,344 | 17,221 | 9,521 | 6,350 | 0 | 1,350 | 0 |
| Department of the Air Force | 752 | 281 | 193 | 278 | 10,294 | 6,353 | 3,941 | 0 | 0 | 0 |
| Defense Agencies, total | 2,325 | 1,206 | 0 | 1,119 | 40,926 | 5,625 | 9,693 | 0 | 25,608 | 0 |
| Washington Headquarters Svcs ⁴ | 2,325 | 1,206 | 0 | 1,119 | 40,926 | 5,625 | 9,693 | 0 | 25,608 | 0 |
| Department of Energy | 0 | 0 | 0 | 0 | 57,654 | 56,016 | 0 | 0 | 0 | 1,638 |
| Dept of Health & Human Svcs, total | 134,770 | 0 | 0 | 134,770 | 3,095,781 | 1,517,313 | 27,729 | 0 | 1,478,909 | 71,830 |
| National Institutes of Health ⁵ | 134,770 | 0 | 0 | 134,770 | 3,095,781 | 1,517,313 | 27,729 | 0 | 1,478,909 | 71,830 |
| Other agencies: | | | | | | | | | | |
| National Aeronautics & Space Admin | 1,897 | 85 | 190 | 1,622 | 43,437 | 17,804 | 1,765 | 300 | 7,363 | 16,205 |
| National Science Foundation | 11,566 | 2,590 | 6,626 | 2,350 | 280,242 | 202,512 | 70,636 | 0 | 0 | 7,094 |

- 1 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 2 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.
- 3 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.
- 4 Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
- 5 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

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 1995.

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.

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

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-69. Federal obligations for basic research performed at universities and colleges in physical and environmental sciences, by agency and detailed field of science: fiscal year 1995

[Dollars in thousands]

Page 1 of 1

| 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 | 975,889 | 141,351 | 312,685 | 455,444 | 66,409 | 577,849 | 204,968 | 161,742 | 106,642 | 104,497 |
| Departments: | | | | | | | | | | |
| Department of Agriculture, total | 9,577 | 0 | 9,577 | 0 | 0 | 1,390 | 1,310 | 75 | 0 | 5 |
| Agricultural Research Service ¹ | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 5 |
| Cooperative State Research, Education, & Extension Service ² | 9,577 | 0 | 9,577 | 0 | 0 | 1,121 | 1,121 | 0 | 0 | 0 |
| Forest Service | 0 | 0 | 0 | 0 | 0 | 264 | 189 | 75 | 0 | 0 |
| Department of Defense, total | 121,335 | 5,402 | 59,936 | 55,991 | 6 | 91,022 | 24,091 | 25,520 | 39,028 | 2,383 |
| Department of the Army | 15,257 | 0 | 6,870 | 8,381 | 6 | 6,259 | 2,830 | 1,001 | 45 | 2,383 |
| Department of the Navy | 40,184 | 2,347 | 15,904 | 21,933 | 0 | 52,242 | 9,233 | 13,490 | 29,519 | 0 |
| Department of the Air Force | 34,292 | 2,602 | 24,211 | 7,479 | 0 | 14,133 | 5,261 | 8,872 | 0 | 0 |
| Defense Agencies, total | 31,602 | 453 | 12,951 | 18,198 | 0 | 18,388 | 6,767 | 2,157 | 9,464 | 0 |
| Ballistic Missile Defense Organization | 2,200 | 0 | 860 | 1,340 | 0 | 0 | 0 | 0 | 0 | 0 |
| Washington Headquarters Svcs ³ | 29,402 | 453 | 12,091 | 16,858 | 0 | 18,388 | 6,767 | 2,157 | 9,464 | 0 |
| Department of Energy | 211,327 | 0 | 37,308 | 173,996 | 23 | 50,152 | 27,813 | 17,551 | 4,472 | 316 |
| Dept of Health & Human Svcs, total | 70,052 | 0 | 62,229 | 7,823 | 0 | 7,112 | 0 | 0 | 0 | 7,112 |
| National Institutes of Health ⁴ | 70,052 | 0 | 62,229 | 7,823 | 0 | 7,112 | 0 | 0 | 0 | 7,112 |
| Other agencies: | | | | | | | | | | |
| National Aeronautics & Space Admin | 176,757 | 87,808 | 5,239 | 50,396 | 33,314 | 138,676 | 51,056 | 18,826 | 12,785 | 56,009 |
| National Science Foundation | 386,841 | 48,141 | 138,396 | 167,238 | 33,066 | 289,497 | 100,698 | 99,770 | 50,357 | 38,672 |

¹ The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

² 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.

³ Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

⁴ 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

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 1995.

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.

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

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-70. Federal obligations for basic research performed at universities and colleges in engineering, by agency and detailed field of engineering: fiscal year 1995

[Dollars in thousands]

| Agency and subdivision | Total | Aero-nautical | Astro-nautical | Chemical | Civil | Electrical | Mechanical | Metal-lurgy and materials | Engineering, n.e.c. |
|---|---------|---------------|----------------|----------|--------|------------|------------|---------------------------|---------------------|
| Total, all agencies | 788,519 | 42,438 | 12,027 | 39,121 | 37,119 | 140,914 | 119,698 | 235,736 | 161,466 |
| Departments: | | | | | | | | | |
| Department of Agriculture, total | 6,706 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6,706 |
| Agricultural Research Service ¹ | 273 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 273 |
| Cooperative State Research, Education, & Extension Service ² | 6,196 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6,196 |
| Forest Service | 237 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 237 |
| Department of Defense, total | 308,666 | 15,744 | 1,575 | 3,722 | 4,472 | 102,464 | 64,428 | 79,824 | 36,437 |
| Department of the Army | 26,908 | 458 | 0 | 300 | 2,964 | 10,814 | 4,070 | 7,582 | 720 |
| Department of the Navy | 63,137 | 0 | 0 | 0 | 0 | 21,212 | 22,040 | 19,885 | 0 |
| Department of the Air Force | 61,610 | 8,533 | 1,575 | 0 | 0 | 13,647 | 6,406 | 11,449 | 20,000 |
| Defense Agencies, total | 157,011 | 6,753 | 0 | 3,422 | 1,508 | 56,791 | 31,912 | 40,908 | 15,717 |
| Ballistic Missile Defense Organization | 800 | 275 | 0 | 0 | 0 | 525 | 0 | 0 | 0 |
| Defense Advanced Research Projects Agency ³ | 15,051 | 0 | 0 | 0 | 0 | 2,571 | 0 | 8,805 | 3,675 |
| Washington Headquarters Svcs ⁴ | 141,160 | 6,478 | 0 | 3,422 | 1,508 | 53,695 | 31,912 | 32,103 | 12,042 |
| Department of Energy | 36,767 | 0 | 0 | 5,892 | 69 | 80 | 8,399 | 17,868 | 4,459 |
| Dept of Health & Human Svcs, total | 54,406 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 54,406 |
| National Institutes of Health ⁵ | 54,406 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 54,406 |
| Other agencies: | | | | | | | | | |
| National Aeronautics & Space Admin | 72,867 | 26,694 | 10,452 | 2,473 | 195 | 4,536 | 8,071 | 9,014 | 11,432 |
| National Science Foundation | 309,107 | 0 | 0 | 27,034 | 32,383 | 33,834 | 38,800 | 129,030 | 48,026 |

¹ The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

² 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.

³ 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.

⁴ Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

⁵ 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

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 1995.

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.

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

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-71. Federal obligations for basic research performed at universities and colleges in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1995

[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 | 313,803 | 131,654 | 174,363 | 7,786 | 112,070 | 10,786 | 22,311 | 6,590 | 8,343 | 64,040 |
| Departments: | | | | | | | | | | |
| Department of Agriculture, total | 1,341 | 165 | 1,176 | 0 | 15,019 | 0 | 12,095 | 0 | 2,924 | 0 |
| Agricultural Research Service ¹ | 1,176 | 0 | 1,176 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cooperative State Research, Education, & Extension Service ² | 0 | 0 | 0 | 0 | 14,044 | 0 | 11,209 | 0 | 2,835 | 0 |
| Economic Research Service | 0 | 0 | 0 | 0 | 318 | 0 | 318 | 0 | 0 | 0 |
| Forest Service | 165 | 165 | 0 | 0 | 657 | 0 | 568 | 0 | 89 | 0 |
| Department of Defense, total | 93,234 | 34,721 | 56,569 | 1,944 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of the Army | 10,064 | 5,236 | 4,769 | 59 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of the Navy | 23,075 | 12,190 | 10,885 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of the Air Force | 14,226 | 9,105 | 3,236 | 1,885 | 0 | 0 | 0 | 0 | 0 | 0 |
| Defense Agencies, total | 45,869 | 8,190 | 37,679 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Defense Advanced Research Projects Agency ³ | 13,510 | 0 | 13,510 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Washington Headquarters Svcs ⁴ | 32,359 | 8,190 | 24,169 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Energy | 13,272 | 8,908 | 4,364 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dept of Health & Human Svcs, total | 18,135 | 12,090 | 6,045 | 0 | 36,270 | 0 | 0 | 0 | 0 | 36,270 |
| National Institutes of Health ⁵ | 18,135 | 12,090 | 6,045 | 0 | 36,270 | 0 | 0 | 0 | 0 | 36,270 |
| Other agencies: | | | | | | | | | | |
| National Aeronautics & Space Admin | 23,152 | 837 | 17,170 | 5,145 | 413 | 0 | 0 | 0 | 0 | 413 |
| National Science Foundation | 164,669 | 74,933 | 89,039 | 697 | 60,368 | 10,786 | 10,216 | 6,590 | 5,419 | 27,357 |

¹ The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

² 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.

³ 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.

⁴ Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

⁵ 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

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 1995.

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.

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

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

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Table C-72. Federal obligations for applied research performed at universities and colleges, by detailed field of science and engineering: fiscal years 1995, 1996, and 1997

[Dollars in thousands]

Page 1 of 1

| Field of science and engineering | 1995 | Preliminary | |
|--|-----------|-------------|-----------|
| | | 1996 | 1997 |
| Total, all fields | 3,062,754 | 2,830,312 | 3,087,270 |
| Life sciences, total | 1,954,470 | 1,858,183 | 2,072,889 |
| Biological (excluding environmental) | 768,806 | NA | NA |
| Environmental biology | 63,002 | NA | NA |
| Agricultural | 77,255 | NA | NA |
| Medical | 968,304 | NA | NA |
| Life sciences, n.e.c. | 77,103 | NA | NA |
| Psychology, total | 116,979 | 110,435 | 128,003 |
| Biological aspects | 691 | NA | NA |
| Social aspects | 9,445 | NA | NA |
| Psychological sciences, n.e.c. | 106,843 | NA | NA |
| Physical sciences, total | 217,632 | 142,230 | 144,016 |
| Astronomy | 26,039 | NA | NA |
| Chemistry | 49,650 | NA | NA |
| Physics | 134,174 | NA | NA |
| Physical sciences, n.e.c. | 7,769 | NA | NA |
| Environmental sciences, total | 51,833 | 43,892 | 38,357 |
| Atmospheric | 10,543 | NA | NA |
| Geological | 13,484 | NA | NA |
| Oceanography | 6,982 | NA | NA |
| Environmental sciences, n.e.c. | 20,824 | NA | NA |
| Mathematics & computer sciences, total | 199,808 | 181,195 | 177,055 |
| Mathematics | 14,189 | NA | NA |
| Computer sciences | 176,512 | NA | NA |
| Mathematics & computer sciences, n.e.c. | 9,107 | NA | NA |
| Engineering, total | 299,869 | 297,228 | 302,825 |
| Aeronautical | 10,020 | NA | NA |
| Astronautical | 6,067 | NA | NA |
| Chemical | 30,262 | NA | NA |
| Civil | 15,630 | NA | NA |
| Electrical | 35,787 | NA | NA |
| Mechanical | 21,911 | NA | NA |
| Metallurgy & materials | 59,616 | NA | NA |
| Engineering, n.e.c. | 120,576 | NA | NA |
| Social sciences, total | 92,418 | 80,485 | 89,908 |
| Anthropology | 726 | NA | NA |
| Economics | 37,515 | NA | NA |
| Political science | 713 | NA | NA |
| Sociology | 7,962 | NA | NA |
| Social sciences, n.e.c. | 45,502 | NA | NA |
| Other sciences, n.e.c. | 129,745 | 116,664 | 134,217 |

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 years 1995, 1996, and 1997.

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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-73. Federal obligations for applied research performed at universities and colleges, by agency and field of science and engineering: fiscal year 1995

[Dollars in thousands]

| Agency and subdivision | Total | Life sciences | Psy- chology | Physical sciences | Environ- mental sciences | Mathematics and com- puter sciences | Engi- neering | Social sciences | Other sciences, n.e.c. |
|---|------------------|------------------|-----------------|-------------------|-----------------------------|--|------------------|-----------------|------------------------|
| Total, all agencies | 3,062,754 | 1,954,470 | 116,979 | 217,632 | 51,833 | 199,808 | 299,869 | 92,418 | 129,745 |
| Departments: | | | | | | | | | |
| Department of Agriculture, total | 237,983 | 165,207 | 0 | 15,255 | 3,047 | 1,230 | 16,009 | 37,235 | 0 |
| Agricultural Marketing Service | 481 | 481 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Agricultural Research Service ¹ | 9,995 | 8,971 | 0 | 0 | 4 | 828 | 192 | 0 | 0 |
| Cooperative State Research, Education, & Extension Service ² | 210,475 | 144,494 | 0 | 15,255 | 1,893 | 0 | 15,445 | 33,388 | 0 |
| Economic Research Service | 2,865 | 0 | 0 | 0 | 0 | 0 | 0 | 2,865 | 0 |
| Foreign Agricultural Service ³ | 28 | 28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Forest Service | 13,989 | 11,233 | 0 | 0 | 1,150 | 257 | 372 | 977 | 0 |
| Nat'l Agricultural Statistics Svc | 145 | 0 | 0 | 0 | 0 | 145 | 0 | 0 | 0 |
| Rural Business-Cooperative Svc ⁴ | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 |
| Department of Defense, total | 349,195 | 34,184 | 6,573 | 18,688 | 21,778 | 164,391 | 101,108 | 86 | 2,387 |
| Department of the Army | 24,066 | 7,242 | 634 | 1,120 | 3,280 | 1,836 | 9,020 | 86 | 848 |
| Department of the Navy | 37,643 | 1,099 | 1,111 | 10,009 | 1,302 | 1,299 | 22,503 | 0 | 320 |
| Department of the Air Force | 31,533 | 697 | 4,828 | 3,726 | 0 | 1,864 | 20,418 | 0 | 0 |
| Defense Agencies, total | 255,953 | 25,146 | 0 | 3,833 | 17,196 | 159,392 | 49,167 | 0 | 1,219 |
| Ballistic Missile Defense Organization | 10,268 | 0 | 0 | 2,688 | 966 | 3,340 | 3,274 | 0 | 0 |
| Defense Advanced Research Projects Agency ⁵ | 198,162 | 0 | 0 | 1,085 | 1,003 | 153,246 | 42,825 | 0 | 3 |
| Defense Nuclear Agency | 4,638 | 0 | 0 | 60 | 3,000 | 0 | 362 | 0 | 1,216 |
| Washington Headquarters Svcs ⁶ | 42,885 | 25,146 | 0 | 0 | 12,227 | 2,806 | 2,706 | 0 | 0 |
| Department of Energy | 188,750 | 26,454 | 0 | 105,517 | 7,997 | 0 | 44,671 | 0 | 4,111 |
| Dept of Health & Human Svcs, total | 2,044,197 | 1,704,929 | 106,110 | 21,371 | 6,739 | 18,800 | 25,607 | 46,511 | 114,130 |
| Administration on Aging | 1,500 | 0 | 0 | 0 | 0 | 0 | 0 | 1,500 | 0 |
| Admin for Children & Families | 9,856 | 0 | 0 | 0 | 0 | 0 | 0 | 9,856 | 0 |
| Agcy for Hlth Care Policy & Rsch | 50,138 | 37,447 | 409 | 0 | 0 | 2,820 | 0 | 6,617 | 2,845 |
| Centers for Disease Control & Prevention | 31,700 | 31,700 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Food & Drug Administration | 9,856 | 9,856 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Health Care Financing Admin | 5,838 | 5,838 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Health Resources & Services Admin | 7,229 | 7,229 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Institutes of Health ⁷ | 1,925,342 | 1,612,859 | 105,701 | 21,371 | 6,739 | 15,980 | 25,607 | 25,800 | 111,285 |
| Office of the Secretary | 1,499 | 0 | 0 | 0 | 0 | 0 | 0 | 1,499 | 0 |
| Social Security Administration ⁸ | 1,239 | 0 | 0 | 0 | 0 | 0 | 0 | 1,239 | 0 |
| Other agencies: | | | | | | | | | |
| National Aeronautics & Space Admin | 107,421 | 10,018 | 2,252 | 43,808 | 9,176 | 6,261 | 30,972 | 0 | 4,934 |
| National Science Foundation | 135,208 | 13,678 | 2,044 | 12,993 | 3,096 | 9,126 | 81,502 | 8,586 | 4,183 |

- 1 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 2 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.
- 3 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.
- 4 This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.
- 5 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.
- 6 Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
- 7 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.
- 8 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.

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 1995.

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.

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

JRCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-74. Preliminary Federal obligations for applied research performed at universities and colleges, by agency and field of science and engineering: fiscal year 1996

[Dollars in thousands]

Page 1 of 1

| Agency and subdivision | Total | Life sciences | Psychology | Physical sciences | Environmental sciences | Mathematics and computer sciences | Engineering | Social sciences | Other sciences, n.e.c. |
|---|-----------|---------------|------------|-------------------|------------------------|-----------------------------------|-------------|-----------------|------------------------|
| Total, all agencies | 2,830,312 | 1,858,183 | 110,435 | 142,230 | 43,892 | 181,195 | 297,228 | 80,485 | 116,664 |
| Departments: | | | | | | | | | |
| Department of Agriculture, total | 230,973 | 161,211 | 0 | 14,761 | 3,220 | 1,218 | 15,494 | 35,069 | 0 |
| Agricultural Research Service ¹ | 10,518 | 9,441 | 0 | 0 | 4 | 871 | 202 | 0 | 0 |
| Cooperative State Research, Education, & Extension Service ² | 204,417 | 140,517 | 0 | 14,761 | 1,821 | 0 | 14,920 | 32,398 | 0 |
| Economic Research Service | 1,694 | 0 | 0 | 0 | 0 | 0 | 0 | 1,694 | 0 |
| Foreign Agricultural Service ³ | 266 | 266 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Forest Service | 13,988 | 10,987 | 0 | 0 | 1,395 | 257 | 372 | 977 | 0 |
| Nat'l Agricultural Statistics Svc | 90 | 0 | 0 | 0 | 0 | 90 | 0 | 0 | 0 |
| Department of Defense, total | 367,004 | 57,942 | 6,642 | 20,627 | 14,043 | 148,385 | 117,877 | 38 | 1,450 |
| Department of the Army | 18,795 | 10,232 | 715 | 535 | 1,027 | 1,186 | 4,595 | 38 | 467 |
| Department of the Navy | 45,468 | 1,328 | 1,341 | 12,090 | 1,573 | 1,569 | 27,181 | 0 | 386 |
| Department of the Air Force | 34,820 | 815 | 4,586 | 3,543 | 1,271 | 1,345 | 23,260 | 0 | 0 |
| Defense Agencies, total | 267,921 | 45,567 | 0 | 4,459 | 10,172 | 144,285 | 62,841 | 0 | 597 |
| Ballistic Missile Defense Organization | 13,286 | 0 | 0 | 3,550 | 0 | 3,240 | 6,496 | 0 | 0 |
| Defense Advanced Research Projects Agency ⁴ | 182,297 | 0 | 0 | 897 | 787 | 132,736 | 47,632 | 0 | 245 |
| Defense Nuclear Agency | 768 | 0 | 0 | 12 | 0 | 0 | 404 | 0 | 352 |
| Washington Headquarters Svcs ⁵ | 71,570 | 45,567 | 0 | 0 | 9,385 | 8,309 | 8,309 | 0 | 0 |
| Department of Energy | 93,837 | 28,210 | 0 | 27,428 | 7,931 | 0 | 30,018 | 0 | 250 |
| Dept of Health & Human Svcs, total | 1,896,731 | 1,587,914 | 99,444 | 20,106 | 6,340 | 16,361 | 24,091 | 36,451 | 106,024 |
| Admin for Children & Families | 7,304 | 0 | 0 | 0 | 0 | 0 | 0 | 7,304 | 0 |
| Agcy for Hlth Care Policy & Rsch | 22,115 | 16,586 | 0 | 0 | 0 | 1,327 | 0 | 2,875 | 1,327 |
| Centers for Disease Control & Prevention | 31,700 | 31,700 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Food & Drug Administration | 9,856 | 9,856 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Health Care Financing Admin | 5,200 | 5,200 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Health Resources & Services Admin | 7,197 | 7,197 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Institutes of Health ⁶ | 1,811,359 | 1,517,375 | 99,444 | 20,106 | 6,340 | 15,034 | 24,091 | 24,272 | 104,697 |
| Office of the Secretary | 2,000 | 0 | 0 | 0 | 0 | 0 | 0 | 2,000 | 0 |
| Other agencies: | | | | | | | | | |
| National Aeronautics & Space Admin | 107,421 | 10,018 | 2,252 | 43,808 | 9,176 | 6,261 | 30,972 | 0 | 4,934 |
| National Science Foundation | 134,346 | 12,888 | 2,097 | 15,500 | 3,182 | 8,970 | 78,776 | 8,927 | 4,006 |

- 1 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 2 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.
- 3 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.
- 4 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.
- 5 Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
- 6 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

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 89 percent of total Federal applied research obligations to universities and colleges in fiscal year 1996.

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: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-75. Preliminary Federal obligations for applied research performed at universities and colleges, by agency and field of science and engineering: fiscal year 1997

[Dollars in thousands]

Page 1 of 1

| Agency and subdivision | Total | Life sciences | Psychology | Physical sciences | Environmental sciences | Mathematics and computer sciences | Engineering | Social sciences | Other sciences, n.e.c. |
|---|------------------|------------------|----------------|-------------------|------------------------|-----------------------------------|----------------|-----------------|------------------------|
| Total, all agencies | 3,087,270 | 2,072,889 | 128,003 | 144,016 | 38,357 | 177,055 | 302,825 | 89,908 | 134,217 |
| Departments: | | | | | | | | | |
| Department of Agriculture, total | 217,927 | 156,127 | 0 | 13,442 | 2,747 | 1,218 | 13,717 | 30,676 | 0 |
| Agricultural Research Service ¹ | 10,518 | 9,441 | 0 | 0 | 4 | 871 | 202 | 0 | 0 |
| Cooperative State Research, Education, & Extension Service ² | 191,371 | 135,433 | 0 | 13,442 | 1,348 | 0 | 13,143 | 28,005 | 0 |
| Economic Research Service | 1,694 | 0 | 0 | 0 | 0 | 0 | 0 | 1,694 | 0 |
| Foreign Agricultural Service ³ | 266 | 266 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Forest Service | 13,988 | 10,987 | 0 | 0 | 1,395 | 257 | 372 | 977 | 0 |
| Nat'l Agricultural Statistics Svc | 90 | 0 | 0 | 0 | 0 | 90 | 0 | 0 | 0 |
| Department of Defense, total | 320,953 | 36,915 | 6,791 | 19,513 | 8,650 | 141,954 | 106,639 | 49 | 442 |
| Department of the Army | 18,460 | 9,136 | 698 | 833 | 887 | 1,820 | 5,037 | 49 | 0 |
| Department of the Navy | 37,358 | 1,091 | 1,102 | 9,934 | 1,292 | 1,289 | 22,333 | 0 | 317 |
| Department of the Air Force | 32,913 | 152 | 4,991 | 3,405 | 0 | 1,417 | 22,948 | 0 | 0 |
| Defense Agencies, total | 232,222 | 26,536 | 0 | 5,341 | 6,471 | 137,428 | 56,321 | 0 | 125 |
| Ballistic Missile Defense Organization | 13,663 | 0 | 0 | 4,120 | 0 | 2,305 | 7,238 | 0 | 0 |
| Defense Advanced Research Projects Agency ⁴ | 177,400 | 0 | 0 | 1,068 | 0 | 131,388 | 44,944 | 0 | 0 |
| Defense Nuclear Agency | 682 | 0 | 0 | 153 | 0 | 0 | 404 | 0 | 125 |
| Washington Headquarters Svcs ⁵ | 40,477 | 26,536 | 0 | 0 | 6,471 | 3,735 | 3,735 | 0 | 0 |
| Department of Energy | 93,092 | 17,577 | 0 | 27,212 | 6,931 | 0 | 41,141 | 0 | 231 |
| Dept of Health & Human Svcs, total | 2,204,026 | 1,838,340 | 115,538 | 23,360 | 7,366 | 19,077 | 27,990 | 49,105 | 123,250 |
| Admin for Children & Families | 15,419 | 0 | 0 | 0 | 0 | 0 | 0 | 15,419 | 0 |
| Agcy for Hlth Care Policy & Rsch | 26,811 | 20,108 | 0 | 0 | 0 | 1,609 | 0 | 3,485 | 1,609 |
| Centers for Disease Control & Prevention | 31,700 | 31,700 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Food & Drug Administration | 9,856 | 9,856 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Health Care Financing Admin | 6,605 | 6,605 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Health Resources & Services Admin | 7,116 | 7,116 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Institutes of Health ⁶ | 2,104,519 | 1,762,955 | 115,538 | 23,360 | 7,366 | 17,468 | 27,990 | 28,201 | 121,641 |
| Office of the Secretary | 2,000 | 0 | 0 | 0 | 0 | 0 | 0 | 2,000 | 0 |
| Other agencies: | | | | | | | | | |
| National Aeronautics & Space Admin | 107,421 | 10,018 | 2,252 | 43,808 | 9,176 | 6,261 | 30,972 | 0 | 4,934 |
| National Science Foundation | 143,851 | 13,912 | 3,422 | 16,681 | 3,487 | 8,545 | 82,366 | 10,078 | 5,360 |

- 1 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 2 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.
- 3 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.
- 4 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.
- 5 Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
- 6 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

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 1997.

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: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-76. Federal obligations for applied research performed at universities and colleges in psychology and life sciences, by agency and detailed field of science: fiscal year 1995

[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 | Agricul-tural | Medical | Life sciences, n.e.c. |
| Total, all agencies | 116,979 | 691 | 9,445 | 106,843 | 1,954,470 | 768,806 | 63,002 | 77,255 | 968,304 | 77,103 |
| Departments: | | | | | | | | | | |
| Department of Agriculture, total | 0 | 0 | 0 | 0 | 165,207 | 37,535 | 46,838 | 76,281 | 4,548 | 5 |
| Agricultural Marketing Service | 0 | 0 | 0 | 0 | 481 | 0 | 0 | 481 | 0 | 0 |
| Agricultural Research Service ¹ | 0 | 0 | 0 | 0 | 8,971 | 2,227 | 320 | 6,419 | 0 | 5 |
| Cooperative State Research, Education, & Extension Service ² | 0 | 0 | 0 | 0 | 144,494 | 29,141 | 41,452 | 69,353 | 4,548 | 0 |
| Foreign Agricultural Service ³ | 0 | 0 | 0 | 0 | 28 | 0 | 0 | 28 | 0 | 0 |
| Forest Service | 0 | 0 | 0 | 0 | 11,233 | 6,167 | 5,066 | 0 | 0 | 0 |
| Department of Defense, total | 6,573 | 170 | 6,403 | 0 | 34,184 | 1,350 | 258 | 0 | 6,930 | 25,646 |
| Department of the Army | 634 | 0 | 634 | 0 | 7,242 | 880 | 0 | 0 | 6,362 | 0 |
| Department of the Navy | 1,111 | 170 | 941 | 0 | 1,099 | 470 | 128 | 0 | 501 | 0 |
| Department of the Air Force | 4,828 | 0 | 4,828 | 0 | 697 | 0 | 130 | 0 | 0 | 567 |
| Defense Agencies, total | 0 | 0 | 0 | 0 | 25,146 | 0 | 0 | 0 | 67 | 25,079 |
| Washington Headquarters Svcs ⁴ | 0 | 0 | 0 | 0 | 25,146 | 0 | 0 | 0 | 67 | 25,079 |
| Department of Energy | 0 | 0 | 0 | 0 | 26,454 | 532 | 25 | 0 | 25,124 | 773 |
| Dept of Health & Human Svcs, total | 106,110 | 21 | 25 | 106,064 | 1,704,929 | 718,959 | 8,857 | 0 | 929,372 | 47,741 |
| Agcy for Hlth Care Policy & Rsch | 409 | 21 | 25 | 363 | 37,447 | 0 | 0 | 0 | 33,473 | 3,974 |
| Centers for Disease Control & Prevention | 0 | 0 | 0 | 0 | 31,700 | 0 | 0 | 0 | 31,700 | 0 |
| Food & Drug Administration | 0 | 0 | 0 | 0 | 9,856 | 9,856 | 0 | 0 | 0 | 0 |
| Health Care Financing Admin | 0 | 0 | 0 | 0 | 5,838 | 0 | 0 | 0 | 0 | 5,838 |
| Health Resources & Services Admin | 0 | 0 | 0 | 0 | 7,229 | 0 | 0 | 0 | 7,229 | 0 |
| National Institutes of Health ⁵ | 105,701 | 0 | 0 | 105,701 | 1,612,859 | 709,103 | 8,857 | 0 | 856,970 | 37,929 |
| Other agencies: | | | | | | | | | | |
| National Aeronautics & Space Admin | 2,252 | 0 | 2,177 | 75 | 10,018 | 5,895 | 39 | 974 | 2,330 | 780 |
| National Science Foundation | 2,044 | 500 | 840 | 704 | 13,678 | 4,535 | 6,985 | 0 | 0 | 2,158 |

- 1 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 2 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.
- 3 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.
- 4 Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
- 5 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

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 1995.

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.

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

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-77. Federal obligations for applied research performed at universities and colleges in physical and environmental sciences, by agency and detailed field of science: fiscal year 1995

[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 | 217,632 | 26,039 | 49,650 | 134,174 | 7,769 | 51,833 | 10,543 | 13,484 | 6,982 | 20,824 |
| Departments: | | | | | | | | | | |
| Department of Agriculture, total | 15,255 | 0 | 15,255 | 0 | 0 | 3,047 | 2,188 | 855 | 0 | 4 |
| Agricultural Research Service ¹ | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 4 |
| Cooperative State Research, Education, & Extension Service ² | 15,255 | 0 | 15,255 | 0 | 0 | 1,893 | 1,893 | 0 | 0 | 0 |
| Forest Service | 0 | 0 | 0 | 0 | 0 | 1,150 | 295 | 855 | 0 | 0 |
| Department of Defense, total | 18,688 | 0 | 3,021 | 14,688 | 979 | 21,778 | 3,117 | 4,107 | 6,183 | 8,371 |
| Department of the Army | 1,120 | 0 | 1,003 | 117 | 0 | 3,280 | 750 | 65 | 39 | 2,426 |
| Department of the Navy | 10,009 | 0 | 930 | 8,857 | 222 | 1,302 | 245 | 117 | 940 | 0 |
| Department of the Air Force | 3,726 | 0 | 0 | 3,726 | 0 | 0 | 0 | 0 | 0 | 0 |
| Defense Agencies, total | 3,833 | 0 | 1,088 | 1,988 | 757 | 17,196 | 2,122 | 3,925 | 5,204 | 5,945 |
| Ballistic Missile Defense Organization | 2,688 | 0 | 1,088 | 1,100 | 500 | 966 | 966 | 0 | 0 | 0 |
| Defense Advanced Research Projects Agency ³ | 1,085 | 0 | 0 | 888 | 197 | 1,003 | 0 | 1,003 | 0 | 0 |
| Defense Nuclear Agency | 60 | 0 | 0 | 0 | 60 | 3,000 | 0 | 0 | 0 | 3,000 |
| Washington Headquarters Svcs ⁴ | 0 | 0 | 0 | 0 | 0 | 12,227 | 1,156 | 2,922 | 5,204 | 2,945 |
| Department of Energy | 105,517 | 0 | 5,736 | 97,148 | 2,633 | 7,997 | 221 | 6,502 | 0 | 1,274 |
| Dept of Health & Human Svcs, total | 21,371 | 0 | 18,483 | 2,888 | 0 | 6,739 | 0 | 0 | 0 | 6,739 |
| National Institutes of Health ⁵ | 21,371 | 0 | 18,483 | 2,888 | 0 | 6,739 | 0 | 0 | 0 | 6,739 |
| Other agencies: | | | | | | | | | | |
| National Aeronautics & Space Admin | 43,808 | 26,029 | 591 | 15,936 | 1,252 | 9,176 | 4,989 | 171 | 131 | 3,885 |
| National Science Foundation | 12,993 | 10 | 6,564 | 3,514 | 2,905 | 3,096 | 28 | 1,849 | 668 | 551 |

¹ The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

² 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.

³ 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.

⁴ Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

⁵ 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

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 1995.

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.

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SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-78. Federal obligations for applied research performed at universities and colleges in engineering, by agency and detailed field of engineering: fiscal year 1995

[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 | 299,869 | 10,020 | 6,067 | 30,262 | 15,630 | 35,787 | 21,911 | 59,616 | 120,576 |
| Departments: | | | | | | | | | |
| Department of Agriculture, total | 16,009 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16,009 |
| Agricultural Research Service ¹ | 192 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 192 |
| Cooperative State Research, Education, & Extension Service ² | 15,445 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15,445 |
| Forest Service | 372 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 372 |
| Department of Defense, total | 101,108 | 5,134 | 4,982 | 1,079 | 5,688 | 19,953 | 7,668 | 33,428 | 23,176 |
| Department of the Army | 9,020 | 291 | 12 | 296 | 4,167 | 1,854 | 966 | 543 | 891 |
| Department of the Navy | 22,503 | 561 | 3,527 | 561 | 1,043 | 8,059 | 4,788 | 3,813 | 151 |
| Department of the Air Force | 20,418 | 4,282 | 1,193 | 0 | 478 | 3,529 | 1,814 | 9,122 | 0 |
| Defense Agencies, total | 49,167 | 0 | 250 | 222 | 0 | 6,511 | 100 | 19,950 | 22,134 |
| Ballistic Missile Defense Organization | 3,274 | 0 | 250 | 222 | 0 | 1,631 | 43 | 1,128 | 0 |
| Defense Advanced Research Projects Agency ³ | 42,825 | 0 | 0 | 0 | 0 | 4,575 | 0 | 18,822 | 19,428 |
| Defense Nuclear Agency | 362 | 0 | 0 | 0 | 0 | 305 | 57 | 0 | 0 |
| Washington Headquarters Svcs ⁴ | 2,706 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,706 |
| Department of Energy | 44,671 | 0 | 0 | 13,952 | 4,368 | 2,948 | 64 | 395 | 22,944 |
| Dept of Health & Human Svcs, total | 25,607 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25,607 |
| National Institutes of Health ⁵ | 25,607 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25,607 |
| Other agencies: | | | | | | | | | |
| National Aeronautics & Space Admin | 30,972 | 4,886 | 1,085 | 497 | 1,040 | 2,953 | 1,974 | 10,251 | 8,286 |
| National Science Foundation | 81,502 | 0 | 0 | 14,734 | 4,534 | 9,933 | 12,205 | 15,542 | 24,554 |

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- 2 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.
- 3 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.
- 4 Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
- 5 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

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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.

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

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

**Table C-79. Federal obligations for applied research performed at universities and colleges
in mathematics and computer sciences and in social sciences,
by agency and detailed field of science:
fiscal year 1995**

[Dollars in thousands]

Page 1 of 1

| 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 | 199,808 | 14,189 | 176,512 | 9,107 | 92,418 | 726 | 37,515 | 713 | 7,962 | 45,502 |
| Departments: | | | | | | | | | | |
| Department of Agriculture, total | 1,230 | 402 | 828 | 0 | 37,235 | 0 | 32,545 | 0 | 4,690 | 0 |
| Agricultural Research Service ¹ | 828 | 0 | 828 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cooperative State Research, Education, & Extension Service ² | 0 | 0 | 0 | 0 | 33,388 | 0 | 28,838 | 0 | 4,550 | 0 |
| Economic Research Service | 0 | 0 | 0 | 0 | 2,865 | 0 | 2,865 | 0 | 0 | 0 |
| Forest Service | 257 | 257 | 0 | 0 | 977 | 0 | 837 | 0 | 140 | 0 |
| Nat'l Agricultural Statistics Svc | 145 | 145 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rural Business-Cooperative Svc ³ | 0 | 0 | 0 | 0 | 5 | 0 | 5 | 0 | 0 | 0 |
| Department of Defense, total | 164,391 | 4,250 | 155,904 | 4,237 | 86 | 0 | 52 | 0 | 34 | 0 |
| Department of the Army | 1,836 | 75 | 840 | 921 | 86 | 0 | 52 | 0 | 34 | 0 |
| Department of the Navy | 1,299 | 38 | 1,193 | 68 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of the Air Force | 1,864 | 703 | 916 | 245 | 0 | 0 | 0 | 0 | 0 | 0 |
| Defense Agencies, total | 159,392 | 3,434 | 152,955 | 3,003 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ballistic Missile Defense Organization | 3,340 | 250 | 3,090 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Defense Advanced Research Projects Agency ⁴ | 153,246 | 3,184 | 149,865 | 197 | 0 | 0 | 0 | 0 | 0 | 0 |
| Washington Headquarters Svcs ⁵ | 2,806 | 0 | 0 | 2,806 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dept of Health & Human Svcs, total | 18,800 | 8,022 | 10,778 | 0 | 46,511 | 0 | 3,119 | 108 | 1,915 | 41,369 |
| Administration on Aging | 0 | 0 | 0 | 0 | 1,500 | 0 | 0 | 0 | 0 | 1,500 |
| Admin for Children & Families | 0 | 0 | 0 | 0 | 9,856 | 0 | 0 | 0 | 0 | 9,856 |
| Agcy for Hlth Care Policy & Rsch | 2,820 | 128 | 2,692 | 0 | 6,617 | 0 | 3,119 | 108 | 1,915 | 1,475 |
| National Institutes of Health ⁶ | 15,980 | 7,894 | 8,086 | 0 | 25,800 | 0 | 0 | 0 | 0 | 25,800 |
| Office of the Secretary | 0 | 0 | 0 | 0 | 1,499 | 0 | 0 | 0 | 0 | 1,499 |
| Social Security Administration ⁷ | 0 | 0 | 0 | 0 | 1,239 | 0 | 0 | 0 | 0 | 1,239 |
| Other agencies: | | | | | | | | | | |
| National Aeronautics & Space Admin | 6,261 | 80 | 5,061 | 1,120 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Science Foundation | 9,126 | 1,435 | 3,941 | 3,750 | 8,586 | 726 | 1,799 | 605 | 1,323 | 4,133 |

- 1 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 2 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.
- 3 This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.
- 4 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.
- 5 Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
- 6 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.
- 7 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.

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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.

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

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

**Table C-80. Federal obligations for research and development
and for R&D plant, by State: fiscal year 1995**

[Dollars in thousands]

Page 1 of 1

| State | Research, development, and R&D plant | Research and development | R&D plant |
|----------------------------|--|-----------------------------|-----------|
| Total | 69,462,377 | 67,246,794 | 2,215,583 |
| Alabama | 2,060,343 | 2,016,252 | 44,091 |
| Alaska | 98,276 | 96,915 | 1,361 |
| Arizona | 957,765 | 915,087 | 42,678 |
| Arkansas | 101,646 | 97,724 | 3,922 |
| California | 13,118,364 | 12,703,572 | 414,792 |
| Colorado | 996,292 | 965,060 | 31,232 |
| Connecticut | 907,512 | 902,334 | 5,178 |
| Delaware | 58,266 | 56,381 | 1,885 |
| District of Columbia | 2,808,135 | 2,805,093 | 3,042 |
| Florida | 2,445,404 | 2,403,899 | 41,505 |
| Georgia | 4,378,130 | 4,365,770 | 12,360 |
| Hawaii | 480,926 | 480,428 | 498 |
| Idaho | 219,934 | 211,063 | 8,871 |
| Illinois | 1,306,340 | 1,116,137 | 190,203 |
| Indiana | 430,975 | 426,192 | 4,783 |
| Iowa | 229,813 | 214,316 | 15,497 |
| Kansas | 122,035 | 120,846 | 1,189 |
| Kentucky | 80,384 | 75,670 | 4,714 |
| Louisiana | 197,805 | 176,253 | 21,552 |
| Maine | 55,211 | 54,476 | 735 |
| Maryland | 7,429,547 | 7,039,183 | 390,364 |
| Massachusetts | 3,362,634 | 3,339,532 | 23,102 |
| Michigan | 692,991 | 688,376 | 4,615 |
| Minnesota | 576,206 | 571,128 | 5,078 |
| Mississippi | 249,341 | 212,739 | 36,602 |
| Missouri | 1,617,886 | 1,613,322 | 4,564 |
| Montana | 69,741 | 64,821 | 4,920 |
| Nebraska | 89,079 | 86,762 | 2,317 |
| Nevada | 411,029 | 372,570 | 38,459 |
| New Hampshire | 213,666 | 213,647 | 19 |
| New Jersey | 1,361,234 | 1,325,902 | 35,332 |
| New Mexico | 2,120,842 | 1,987,076 | 133,766 |
| New York | 2,740,477 | 2,581,383 | 159,094 |
| North Carolina | 851,218 | 825,433 | 25,785 |
| North Dakota | 52,172 | 47,313 | 4,859 |
| Ohio | 1,958,963 | 1,811,413 | 147,550 |
| Oklahoma | 162,195 | 159,395 | 2,800 |
| Oregon | 282,414 | 277,229 | 5,185 |
| Pennsylvania | 2,449,664 | 2,414,250 | 35,414 |
| Rhode Island | 522,767 | 515,425 | 7,342 |
| South Carolina | 180,679 | 177,962 | 2,717 |
| South Dakota | 30,818 | 26,492 | 4,326 |
| Tennessee | 619,023 | 581,956 | 37,067 |
| Texas | 4,146,514 | 4,062,175 | 84,339 |
| Utah | 376,460 | 371,208 | 5,252 |
| Vermont | 53,599 | 53,590 | 9 |
| Virginia | 3,684,222 | 3,603,023 | 81,199 |
| Washington | 1,192,069 | 1,127,750 | 64,319 |
| West Virginia | 301,771 | 296,347 | 5,424 |
| Wisconsin | 356,662 | 347,089 | 9,573 |
| Wyoming | 36,639 | 35,151 | 1,488 |
| Outlying areas | 167,016 | 165,665 | 1,351 |
| Puerto Rico | 46,930 | 46,657 | 273 |
| Other areas | 120,086 | 119,008 | 1,078 |
| Offices abroad | 49,283 | 48,019 | 1,264 |

NOTE: Only the following 10 agencies are required to report to this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Interior, Transportation, and Health and Human Services; 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 1995.

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-81. Federal obligations for research and development, by State and performer: fiscal year 1995

[Dollars in thousands]

| State (in order of total Federal research & development obligations) | Total | Intra mural ¹ | Extramural | | | | | | State and local govts |
|--|-------------------|--------------------------|-------------------|----------------------------------|---------------------------|------------------------------------|-------------------------------|--|-----------------------|
| | | | Industrial firms | FFRDCs admin by industrial firms | Universities and colleges | FFRDCs admin by univs and colleges | Other non-profit institutions | FFRDCs admin by nonprofit institutions | |
| Total | 67,246,794 | 16,685,761 | 30,417,960 | 1,172,983 | 11,766,377 | 3,556,732 | 2,561,194 | 805,107 | 280,680 |
| California | 12,703,572 | 1,843,729 | 6,685,458 | 21,790 | 1,666,792 | 1,847,456 | 361,960 | 245,360 | 31,027 |
| Maryland | 7,039,183 | 4,158,824 | 1,956,488 | 141,701 | 654,050 | 0 | 123,499 | 1,564 | 3,057 |
| Georgia | 4,365,770 | 272,178 | 3,849,787 | 0 | 232,133 | 0 | 7,766 | 0 | 3,906 |
| Texas | 4,062,175 | 537,508 | 2,701,709 | 0 | 649,159 | 0 | 163,001 | 860 | 9,938 |
| Virginia | 3,603,023 | 1,580,530 | 1,534,313 | 0 | 206,554 | 59,031 | 41,651 | 177,472 | 3,472 |
| Massachusetts | 3,339,532 | 315,749 | 1,337,516 | 0 | 767,355 | 160,583 | 587,363 | 158,589 | 12,377 |
| District of Columbia | 2,805,093 | 2,106,077 | 381,390 | 0 | 147,605 | 0 | 168,518 | 0 | 1,503 |
| New York | 2,581,383 | 117,250 | 947,675 | 0 | 1,026,807 | 203,873 | 202,749 | 0 | 83,029 |
| Pennsylvania | 2,414,250 | 227,520 | 1,251,691 | 0 | 717,636 | 21,980 | 189,379 | 0 | 6,044 |
| Florida | 2,403,899 | 554,440 | 1,573,440 | 0 | 262,972 | 0 | 8,165 | 0 | 4,882 |
| Alabama | 2,016,252 | 642,257 | 1,159,369 | 0 | 194,411 | 0 | 17,882 | 0 | 2,333 |
| New Mexico | 1,987,076 | 481,047 | 226,496 | 635,692 | 92,493 | 534,882 | 6,218 | 7,417 | 2,831 |
| Ohio | 1,811,413 | 599,044 | 810,049 | 0 | 326,720 | 0 | 71,914 | 0 | 3,686 |
| Missouri | 1,613,322 | 55,445 | 1,303,721 | 0 | 232,766 | 0 | 17,723 | 0 | 3,667 |
| New Jersey | 1,325,902 | 343,667 | 630,884 | 0 | 215,220 | 115,284 | 11,332 | 4,130 | 5,385 |
| Washington | 1,127,750 | 159,837 | 329,654 | 0 | 330,375 | 0 | 95,900 | 204,972 | 7,012 |
| Illinois | 1,116,137 | 80,626 | 133,876 | 0 | 434,009 | 421,040 | 41,416 | 0 | 5,170 |
| Colorado | 965,060 | 167,869 | 434,627 | 0 | 227,195 | 79,483 | 46,418 | 4,743 | 4,725 |
| Arizona | 915,087 | 177,935 | 528,327 | 0 | 170,299 | 29,099 | 6,198 | 0 | 3,229 |
| Connecticut | 902,334 | 17,690 | 635,941 | 0 | 234,126 | 0 | 9,737 | 0 | 4,840 |
| North Carolina | 825,433 | 220,179 | 99,913 | 0 | 440,465 | 0 | 59,002 | 0 | 5,874 |
| Michigan | 688,376 | 82,008 | 155,055 | 0 | 397,365 | 0 | 49,778 | 0 | 4,170 |
| Tennessee | 581,956 | 62,100 | 34,700 | 278,132 | 167,951 | 16,940 | 19,875 | 0 | 2,258 |
| Minnesota | 571,128 | 30,139 | 254,153 | 0 | 195,912 | 0 | 84,775 | 0 | 6,149 |
| Rhode Island | 515,425 | 254,302 | 179,292 | 0 | 62,738 | 0 | 16,767 | 0 | 2,326 |
| Hawaii | 480,428 | 401,963 | 11,179 | 0 | 51,060 | 0 | 14,520 | 0 | 1,706 |
| Indiana | 426,192 | 62,061 | 183,529 | 0 | 173,978 | 0 | 3,596 | 0 | 3,028 |
| Nevada | 372,570 | 34,669 | 313,505 | 0 | 22,107 | 0 | 1,457 | 0 | 832 |
| Utah | 371,208 | 131,138 | 98,522 | 0 | 128,347 | 0 | 7,730 | 0 | 5,471 |
| Wisconsin | 347,089 | 40,344 | 35,934 | 0 | 260,374 | 0 | 6,720 | 0 | 3,717 |
| West Virginia | 296,347 | 139,595 | 83,116 | 0 | 35,132 | 29,597 | 5,999 | 0 | 2,908 |
| Oregon | 277,229 | 55,959 | 39,176 | 0 | 144,181 | 0 | 33,120 | 0 | 4,793 |
| Iowa | 214,316 | 37,257 | 12,623 | 0 | 130,285 | 29,815 | 1,054 | 0 | 3,282 |
| New Hampshire | 213,647 | 30,902 | 121,212 | 0 | 59,179 | 0 | 1,722 | 0 | 632 |
| Mississippi | 212,739 | 132,616 | 26,162 | 0 | 49,283 | 0 | 3,305 | 0 | 1,373 |
| Idaho | 211,063 | 27,792 | 101,893 | 65,810 | 13,536 | 0 | 548 | 0 | 1,484 |
| South Carolina | 177,962 | 34,441 | 41,168 | 29,858 | 65,741 | 0 | 2,732 | 0 | 4,022 |
| Louisiana | 176,253 | 45,108 | 22,035 | 0 | 103,764 | 0 | 1,863 | 0 | 3,483 |
| Oklahoma | 159,395 | 45,104 | 55,518 | 0 | 47,519 | 0 | 9,289 | 0 | 1,965 |
| Kansas | 120,846 | 12,296 | 42,764 | 0 | 62,934 | 0 | 910 | 0 | 1,942 |
| Arkansas | 97,724 | 57,563 | 3,016 | 0 | 32,766 | 0 | 3,138 | 0 | 1,241 |
| Alaska | 96,915 | 60,545 | 8,729 | 0 | 24,411 | 0 | 635 | 0 | 2,595 |
| Nebraska | 86,762 | 23,132 | 4,011 | 0 | 52,549 | 0 | 5,754 | 0 | 1,316 |
| Kentucky | 75,670 | 5,911 | 5,008 | 0 | 61,993 | 0 | 1,102 | 0 | 1,656 |
| Montana | 64,821 | 33,553 | 6,346 | 0 | 21,239 | 0 | 1,677 | 0 | 2,006 |
| Delaware | 56,381 | 15,477 | 15,449 | 0 | 21,934 | 0 | 2,994 | 0 | 527 |
| Maine | 54,476 | 4,238 | 9,089 | 0 | 15,841 | 0 | 23,310 | 0 | 1,998 |
| Vermont | 53,590 | 4,702 | 13,358 | 0 | 33,514 | 0 | 1,413 | 0 | 603 |
| North Dakota | 47,313 | 25,042 | 539 | 0 | 20,054 | 0 | 947 | 0 | 731 |
| Wyoming | 35,151 | 8,669 | 223 | 0 | 12,680 | 0 | 12,628 | 0 | 951 |
| South Dakota | 26,492 | 13,428 | 2,737 | 0 | 8,392 | 0 | 847 | 0 | 1,088 |
| Outlying areas | 165,665 | 96,041 | 684 | 0 | 59,266 | 7,669 | 186 | 0 | 1,819 |
| Puerto Rico | 46,657 | 7,163 | 0 | 0 | 29,999 | 7,669 | 186 | 0 | 1,640 |
| Other areas | 119,008 | 88,878 | 684 | 0 | 29,267 | 0 | 0 | 0 | 179 |
| Offices abroad | 48,019 | 18,265 | 24,911 | 0 | 1,210 | 0 | 3,012 | 0 | 621 |

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, Interior, Transportation, and Health and Human Services; 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 1995.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-81a. Percentage distribution of Federal obligations for research and development to each performer, by State: fiscal year 1995

| State (in order of total Federal research & development obligations) | Total | Intra-mural ¹ | Extramural | | | | | | |
|--|-------|--------------------------|------------------|----------------------------------|---------------------------|------------------------------------|-------------------------------|--|-----------------------|
| | | | Industrial firms | FFRDCs admin by industrial firms | Universities and colleges | FFRDCs admin by univs and colleges | Other non-profit institutions | FFRDCs admin by nonprofit institutions | State and local govts |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| California | 18.9 | 11.0 | 22.0 | 1.9 | 14.2 | 51.9 | 14.1 | 30.5 | 11.1 |
| Maryland | 10.5 | 24.9 | 6.4 | 12.1 | 5.6 | .0 | 4.8 | .2 | 1.1 |
| Georgia | 6.5 | 1.6 | 12.7 | .0 | 2.0 | .0 | .3 | .0 | 1.4 |
| Texas | 6.0 | 3.2 | 8.9 | .0 | 5.5 | .0 | 6.4 | .1 | 3.5 |
| Virginia | 5.4 | 9.5 | 5.0 | .0 | 1.8 | 1.7 | 1.6 | 22.0 | 1.2 |
| Massachusetts | 5.0 | 1.9 | 4.4 | .0 | 6.5 | 4.5 | 22.9 | 19.7 | 4.4 |
| District of Columbia | 4.2 | 12.6 | 1.3 | .0 | 1.3 | .0 | 6.6 | .0 | .5 |
| New York | 3.8 | .7 | 3.1 | .0 | 8.7 | 5.7 | 7.9 | .0 | 29.6 |
| Pennsylvania | 3.6 | 1.4 | 4.1 | .0 | 6.1 | .6 | 7.4 | .0 | 2.2 |
| Florida | 3.6 | 3.3 | 5.2 | .0 | 2.2 | .0 | .3 | .0 | 1.7 |
| Alabama | 3.0 | 3.8 | 3.8 | .0 | 1.7 | .0 | .7 | .0 | .8 |
| New Mexico | 3.0 | 2.9 | .7 | 54.2 | .8 | 15.0 | .2 | .9 | 1.0 |
| Ohio | 2.7 | 3.6 | 2.7 | .0 | 2.8 | .0 | 2.8 | .0 | 1.3 |
| Missouri | 2.4 | .3 | 4.3 | .0 | 2.0 | .0 | .7 | .0 | 1.3 |
| New Jersey | 2.0 | 2.1 | 2.1 | .0 | 1.8 | 3.2 | .4 | .5 | 1.9 |
| Washington | 1.7 | 1.0 | 1.1 | .0 | 2.8 | .0 | 3.7 | 25.5 | 2.5 |
| Illinois | 1.7 | .5 | .4 | .0 | 3.7 | 11.8 | 1.6 | .0 | 1.8 |
| Colorado | 1.4 | 1.0 | 1.4 | .0 | 1.9 | 2.2 | 1.8 | .6 | 1.7 |
| Arizona | 1.4 | 1.1 | 1.7 | .0 | 1.4 | .8 | .2 | .0 | 1.2 |
| Connecticut | 1.3 | .1 | 2.1 | .0 | 2.0 | .0 | .4 | .0 | 1.7 |
| North Carolina | 1.2 | 1.3 | .3 | .0 | 3.7 | .0 | 2.3 | .0 | 2.1 |
| Michigan | 1.0 | .5 | .5 | .0 | 3.4 | .0 | 1.9 | .0 | 1.5 |
| Tennessee | .9 | .4 | .1 | 23.7 | 1.4 | .5 | .8 | .0 | .8 |
| Minnesota | .8 | .2 | .8 | .0 | 1.7 | .0 | 3.3 | .0 | 2.2 |
| Rhode Island | .8 | 1.5 | .6 | .0 | .5 | .0 | .7 | .0 | .8 |
| Hawaii | .7 | 2.4 | * | .0 | .4 | .0 | .6 | .0 | .6 |
| Indiana | .6 | .4 | .6 | .0 | 1.5 | .0 | .1 | .0 | 1.1 |
| Nevada | .6 | .2 | 1.0 | .0 | .2 | .0 | .1 | .0 | .3 |
| Utah | .6 | .8 | .3 | .0 | 1.1 | .0 | .3 | .0 | 1.9 |
| Wisconsin | .5 | .2 | .1 | .0 | 2.2 | .0 | .3 | .0 | 1.3 |
| West Virginia | .4 | .8 | .3 | .0 | .3 | .8 | .2 | .0 | 1.0 |
| Oregon | .4 | .3 | .1 | .0 | 1.2 | .0 | 1.3 | .0 | 1.7 |
| Iowa | .3 | .2 | * | .0 | 1.1 | .8 | * | .0 | 1.2 |
| New Hampshire | .3 | .2 | .4 | .0 | .5 | .0 | .1 | .0 | .2 |
| Mississippi | .3 | .8 | .1 | .0 | .4 | .0 | .1 | .0 | .5 |
| Idaho | .3 | .2 | .3 | 5.6 | .1 | .0 | * | .0 | .5 |
| South Carolina | .3 | .2 | .1 | 2.5 | .6 | .0 | .1 | .0 | 1.4 |
| Louisiana | .3 | .3 | .1 | .0 | .9 | .0 | .1 | .0 | 1.2 |
| Oklahoma | .2 | .3 | .2 | .0 | .4 | .0 | .4 | .0 | .7 |
| Kansas | .2 | .1 | .1 | .0 | .5 | .0 | * | .0 | .7 |
| Arkansas | .1 | .3 | * | .0 | .3 | .0 | .1 | .0 | .4 |
| Alaska | .1 | .4 | * | .0 | .2 | .0 | * | .0 | .9 |
| Nebraska | .1 | .1 | * | .0 | .4 | .0 | .2 | .0 | .5 |
| Kentucky | .1 | * | * | .0 | .5 | .0 | .0 | .0 | .6 |
| Montana | .1 | .2 | * | .0 | .2 | .0 | .1 | .0 | .7 |
| Delaware | .1 | .1 | .1 | .0 | .2 | .0 | .1 | .0 | .2 |
| Maine | .1 | * | * | .0 | .1 | .0 | .9 | .0 | .7 |
| Vermont | .1 | * | * | .0 | .3 | .0 | .1 | .0 | .2 |
| North Dakota | .1 | .2 | * | .0 | .2 | .0 | * | .0 | .3 |
| Wyoming | .1 | .1 | * | .0 | .1 | .0 | .5 | .0 | .3 |
| South Dakota | * | .1 | * | .0 | .1 | .0 | * | .0 | .4 |
| Outlying areas | .2 | .6 | * | .0 | .5 | .2 | * | .0 | .6 |
| Puerto Rico | .1 | * | .0 | .0 | .3 | .2 | * | .0 | .6 |
| Other areas | .2 | .5 | * | .0 | .2 | .0 | .0 | .0 | .1 |
| Offices abroad | .1 | .1 | .1 | .0 | * | .0 | .1 | .0 | .2 |

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, Interior, Transportation, and Health and Human Services; 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 1995.

KEY: * = Percentage less than .05%
FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-81b. Percentage distribution of Federal obligations for research and development to each State, by performer: fiscal year 1995

| State (in order of total Federal research & development obligations) | Total | Intra-mural ¹ | Extramural | | | | | | State and local govts |
|--|-------|--------------------------|------------------|----------------------------------|---------------------------|------------------------------------|-------------------------------|--|-----------------------|
| | | | Industrial firms | FFRDCs admin by industrial firms | Universities and colleges | FFRDCs admin by univs and colleges | Other non-profit institutions | FFRDCs admin by nonprofit institutions | |
| Total | 100.0 | 24.8 | 45.2 | 1.7 | 17.5 | 5.3 | 3.8 | 1.2 | 0.4 |
| California | 100.0 | 14.5 | 52.6 | .2 | 13.1 | 14.5 | 2.8 | 1.9 | .2 |
| Maryland | 100.0 | 59.1 | 27.8 | 2.0 | 9.3 | .0 | 1.8 | .0 | .0 |
| Georgia | 100.0 | 6.2 | 88.2 | .0 | 5.3 | .0 | .2 | .0 | .1 |
| Texas | 100.0 | 13.2 | 66.5 | .0 | 16.0 | .0 | 4.0 | .0 | .2 |
| Virginia | 100.0 | 43.9 | 42.6 | .0 | 5.7 | 1.6 | 1.2 | 4.9 | .1 |
| Massachusetts | 100.0 | 9.5 | 40.1 | .0 | 23.0 | 4.8 | 17.6 | 4.7 | .4 |
| District of Columbia | 100.0 | 75.1 | 13.6 | .0 | 5.3 | .0 | 6.0 | .0 | .1 |
| New York | 100.0 | 4.5 | 36.7 | .0 | 39.8 | 7.9 | 7.9 | .0 | 3.2 |
| Pennsylvania | 100.0 | 9.4 | 51.8 | .0 | 29.7 | .9 | 7.8 | .0 | .3 |
| Florida | 100.0 | 23.1 | 65.5 | .0 | 10.9 | .0 | .3 | .0 | .2 |
| Alabama | 100.0 | 31.9 | 57.5 | .0 | 9.6 | .0 | .9 | .0 | .1 |
| New Mexico | 100.0 | 24.2 | 11.4 | 32.0 | 4.7 | 26.9 | .3 | .4 | .1 |
| Ohio | 100.0 | 33.1 | 44.7 | .0 | 18.0 | .0 | 4.0 | .0 | .2 |
| Missouri | 100.0 | 3.4 | 80.8 | .0 | 14.4 | .0 | 1.1 | .0 | .2 |
| New Jersey | 100.0 | 25.9 | 47.6 | .0 | 16.2 | 8.7 | .9 | .3 | .4 |
| Washington | 100.0 | 14.2 | 29.2 | .0 | 29.3 | .0 | 8.5 | 18.2 | .6 |
| Illinois | 100.0 | 7.2 | 12.0 | .0 | 38.9 | 37.7 | 3.7 | .0 | .5 |
| Colorado | 100.0 | 17.4 | 45.0 | .0 | 23.5 | 8.2 | 4.8 | .5 | .5 |
| Arizona | 100.0 | 19.4 | 57.7 | .0 | 18.6 | 3.2 | .7 | .0 | .4 |
| Connecticut | 100.0 | 2.0 | 70.5 | .0 | 25.9 | .0 | 1.1 | .0 | .5 |
| North Carolina | 100.0 | 26.7 | 12.1 | .0 | 53.4 | .0 | 7.1 | .0 | .7 |
| Michigan | 100.0 | 11.9 | 22.5 | .0 | 57.7 | .0 | 7.2 | .0 | .6 |
| Tennessee | 100.0 | 10.7 | 6.0 | 47.8 | 28.9 | 2.9 | 3.4 | .0 | .4 |
| Minnesota | 100.0 | 5.3 | 44.5 | .0 | 34.3 | .0 | 14.8 | .0 | 1.1 |
| Rhode Island | 100.0 | 49.3 | 34.8 | .0 | 12.2 | .0 | 3.3 | .0 | .5 |
| Hawaii | 100.0 | 83.7 | 2.3 | .0 | 10.6 | .0 | 3.0 | .0 | .4 |
| Indiana | 100.0 | 14.6 | 43.1 | .0 | 40.8 | .0 | .8 | .0 | .7 |
| Nevada | 100.0 | 9.3 | 84.1 | .0 | 5.9 | .0 | .4 | .0 | .2 |
| Utah | 100.0 | 35.3 | 26.5 | .0 | 34.6 | .0 | 2.1 | .0 | 1.5 |
| Wisconsin | 100.0 | 11.6 | 10.4 | .0 | 75.0 | .0 | 1.9 | .0 | 1.1 |
| West Virginia | 100.0 | 47.1 | 28.0 | .0 | 11.9 | 10.0 | 2.0 | .0 | 1.0 |
| Oregon | 100.0 | 20.2 | 14.1 | .0 | 52.0 | .0 | 11.9 | .0 | 1.7 |
| Iowa | 100.0 | 17.4 | 5.9 | .0 | 60.8 | 13.9 | .5 | .0 | 1.5 |
| New Hampshire | 100.0 | 14.5 | 56.7 | .0 | 27.7 | .0 | .8 | .0 | .3 |
| Mississippi | 100.0 | 62.3 | 12.3 | .0 | 23.2 | .0 | 1.6 | .0 | .6 |
| Idaho | 100.0 | 13.2 | 48.3 | 31.2 | 6.4 | .0 | .3 | .0 | .7 |
| South Carolina | 100.0 | 19.4 | 23.1 | 16.8 | 36.9 | .0 | 1.5 | .0 | 2.3 |
| Louisiana | 100.0 | 25.6 | 12.5 | .0 | 58.9 | .0 | 1.1 | .0 | 2.0 |
| Oklahoma | 100.0 | 28.3 | 34.8 | .0 | 29.8 | .0 | 5.8 | .0 | 1.2 |
| Kansas | 100.0 | 10.2 | 35.4 | .0 | 52.1 | .0 | .8 | .0 | 1.6 |
| Arkansas | 100.0 | 58.9 | 3.1 | .0 | 33.5 | .0 | 3.2 | .0 | 1.3 |
| Alaska | 100.0 | 62.5 | 9.0 | .0 | 25.2 | .0 | .7 | .0 | 2.7 |
| Nebraska | 100.0 | 26.7 | 4.6 | .0 | 60.6 | .0 | 6.6 | .0 | 1.5 |
| Kentucky | 100.0 | 7.8 | 6.6 | .0 | 81.9 | .0 | 1.5 | .0 | 2.2 |
| Montana | 100.0 | 51.8 | 9.8 | .0 | 32.8 | .0 | 2.6 | .0 | 3.1 |
| Delaware | 100.0 | 27.5 | 27.4 | .0 | 38.9 | .0 | 5.3 | .0 | .9 |
| Maine | 100.0 | 7.8 | 16.7 | .0 | 29.1 | .0 | 42.8 | .0 | 3.7 |
| Vermont | 100.0 | 8.8 | 24.9 | .0 | 62.5 | .0 | 2.6 | .0 | 1.1 |
| North Dakota | 100.0 | 52.9 | 1.1 | .0 | 42.4 | .0 | 2.0 | .0 | 1.5 |
| Wyoming | 100.0 | 24.7 | .6 | .0 | 36.1 | .0 | 35.9 | .0 | 2.7 |
| South Dakota | 100.0 | 50.7 | 10.3 | .0 | 31.7 | .0 | 3.2 | .0 | 4.1 |
| Outlying areas | 100.0 | 58.0 | .4 | .0 | 35.8 | 4.6 | .1 | .0 | 1.1 |
| Puerto Rico | 100.0 | 15.4 | .0 | .0 | 64.3 | 16.4 | .4 | .0 | 3.5 |
| Other areas | 100.0 | 74.7 | .6 | .0 | 24.6 | .0 | .0 | .0 | .2 |
| Offices abroad | 100.0 | 38.0 | 51.9 | .0 | 2.5 | .0 | 6.3 | .0 | 1.3 |

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, Interior, Transportation, and Health and Human Services; 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 1995.

KEY: * = Percentage less than .05%
FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-82. Federal obligations for research and development, by State and agency: fiscal year 1995

[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 | 67,246,794 | 1,375,116 | 1,134,775 | 34,256,535 | 6,120,498 | 11,412,440 | 560,616 | 726,724 | 548,025 | 8,968,096 | 2,143,969 |
| California | 12,703,572 | 76,788 | 86,514 | 7,272,250 | 1,058,345 | 1,305,366 | 45,125 | 33,854 | 25,367 | 2,503,332 | 296,631 |
| Maryland | 7,039,183 | 135,649 | 369,997 | 2,914,007 | 60,671 | 2,239,094 | 16,863 | 52,528 | 6,562 | 1,189,026 | 54,786 |
| Georgia | 4,365,770 | 51,341 | 2,280 | 3,900,416 | 15,294 | 306,242 | 6,221 | 7,302 | 18,054 | 31,110 | 27,510 |
| Texas | 4,062,175 | 61,417 | 17,214 | 1,390,773 | 69,130 | 443,460 | 9,248 | 17,447 | 16,939 | 1,956,953 | 79,594 |
| Virginia | 3,603,023 | 12,129 | 36,758 | 2,549,556 | 93,285 | 146,354 | 51,152 | 55,657 | 33,901 | 563,187 | 61,044 |
| Massachusetts | 3,339,532 | 21,574 | 57,772 | 1,817,242 | 99,989 | 933,229 | 6,397 | 63,704 | 25,613 | 146,346 | 167,666 |
| District of Columbia | 2,805,093 | 142,064 | 27,486 | 1,396,543 | 349,156 | 221,291 | 14,869 | 177,455 | 60,381 | 341,121 | 74,727 |
| New York | 2,581,383 | 31,828 | 21,434 | 774,006 | 572,819 | 910,325 | 5,335 | 15,059 | 7,333 | 43,481 | 199,763 |
| Pennsylvania | 2,414,250 | 39,353 | 13,774 | 1,145,451 | 456,708 | 568,929 | 6,057 | 14,483 | 4,910 | 53,225 | 111,360 |
| Florida | 2,403,899 | 33,691 | 29,084 | 1,744,366 | 21,046 | 127,429 | 14,195 | 5,280 | 18,670 | 356,445 | 53,693 |
| Alabama | 2,016,252 | 16,158 | 2,025 | 1,324,964 | 34,131 | 127,447 | 4,085 | 2,592 | 4,333 | 487,012 | 13,505 |
| New Mexico | 1,987,076 | 5,864 | 341 | 780,776 | 1,066,387 | 35,773 | 19,876 | 2,304 | 2,304 | 56,080 | 14,456 |
| Ohio | 1,811,413 | 15,947 | 13,284 | 854,591 | 47,590 | 288,112 | 3,643 | 21,413 | 58,993 | 470,914 | 36,926 |
| Missouri | 1,613,322 | 19,702 | 164 | 1,342,017 | 5,234 | 203,994 | 10,059 | 2,063 | 1,434 | 11,873 | 16,782 |
| New Jersey | 1,325,902 | 7,235 | 44,822 | 676,659 | 157,547 | 106,047 | 4,101 | 81,417 | 8,228 | 189,885 | 49,961 |
| Washington | 1,127,750 | 36,622 | 58,453 | 346,330 | 231,267 | 308,384 | 14,880 | 4,378 | 2,145 | 77,434 | 47,857 |
| Illinois | 1,116,137 | 43,469 | 19,638 | 147,523 | 499,033 | 266,000 | 2,291 | 12,212 | 3,941 | 17,507 | 104,523 |
| Colorado | 965,060 | 30,093 | 76,164 | 372,513 | 39,115 | 151,008 | 45,647 | 7,702 | 6,364 | 115,796 | 120,658 |
| Arizona | 915,087 | 20,254 | 2,371 | 656,556 | 6,288 | 83,220 | 8,995 | 3,352 | 3,066 | 69,580 | 61,405 |
| Connecticut | 902,334 | 5,470 | 7,806 | 558,660 | 62,991 | 200,739 | 1,275 | 13,723 | 1,372 | 29,586 | 20,712 |
| North Carolina | 825,433 | 32,586 | 18,415 | 136,748 | 13,504 | 434,731 | 3,645 | 6,418 | 116,207 | 11,738 | 51,441 |
| Michigan | 688,376 | 20,205 | 47,728 | 219,678 | 13,779 | 254,994 | 6,792 | 9,416 | 21,217 | 22,263 | 72,304 |
| Tennessee | 581,956 | 9,249 | 1,115 | 82,725 | 299,627 | 142,131 | 3,074 | 3,300 | 1,101 | 23,667 | 15,967 |
| Minnesota | 571,128 | 23,826 | 15,748 | 255,331 | 5,736 | 198,156 | 4,101 | 6,338 | 18,028 | 7,422 | 36,442 |
| Rhode Island | 515,425 | 1,537 | 3,059 | 432,478 | 2,283 | 37,781 | 1,677 | 1,426 | 10,362 | 4,338 | 20,484 |
| Hawaii | 480,428 | 20,296 | 11,085 | 48,940 | 6,074 | 360,789 | 10,797 | 636 | 246 | 7,424 | 14,141 |
| Indiana | 426,192 | 16,342 | 1,061 | 229,504 | 21,849 | 91,482 | 2,670 | 8,218 | 2,631 | 11,447 | 40,988 |
| Nevada | 372,570 | 3,160 | 728 | 19,611 | 298,870 | 6,245 | 11,738 | 10,106 | 12,583 | 1,949 | 7,580 |
| Utah | 371,208 | 13,369 | 4,409 | 226,934 | 16,798 | 72,831 | 5,621 | 1,417 | 1,259 | 6,762 | 21,808 |
| Wisconsin | 347,089 | 34,643 | 5,144 | 30,945 | 19,040 | 161,351 | 12,607 | 5,587 | 2,010 | 35,932 | 39,830 |
| West Virginia | 296,347 | 20,837 | 153 | 17,014 | 134,360 | 59,614 | 6,377 | 2,611 | 10 | 22,831 | 32,540 |
| Oregon | 277,229 | 37,438 | 13,681 | 38,889 | 15,702 | 101,921 | 13,529 | 2,128 | 20,509 | 7,874 | 25,558 |
| Iowa | 214,316 | 39,159 | 1,343 | 21,335 | 28,913 | 82,815 | 2,526 | 15,988 | 2,766 | 7,197 | 12,274 |
| New Hampshire | 213,647 | 4,587 | 15,858 | 130,311 | 1,335 | 35,525 | 1,300 | 2,594 | 500 | 12,422 | 9,215 |
| Mississippi | 212,739 | 50,877 | 7,552 | 97,879 | 3,643 | 12,032 | 2,520 | 2,091 | 1,195 | 29,155 | 5,795 |
| Idaho | 211,063 | 18,429 | 476 | 12,889 | 161,093 | 1,806 | 9,687 | 1,330 | 769 | 724 | 3,860 |
| South Carolina | 177,962 | 15,236 | 40,099 | 34,987 | 38,134 | 33,776 | 2,784 | 1,431 | 465 | 2,420 | 8,630 |
| Louisiana | 176,253 | 33,149 | 2,910 | 38,354 | 11,514 | 54,438 | 15,235 | 1,551 | 5,868 | 3,738 | 9,496 |
| Oklahoma | 159,395 | 17,196 | 8,486 | 33,961 | 37,972 | 27,330 | 2,868 | 8,856 | 8,880 | 1,132 | 12,714 |
| Kansas | 120,846 | 12,981 | 173 | 43,422 | 6,164 | 34,479 | 3,362 | 1,514 | 4,970 | 3,512 | 10,269 |
| Arkansas | 97,724 | 16,276 | 23 | 4,192 | 72 | 66,972 | 3,763 | 1,205 | 692 | 1,667 | 2,862 |
| Alaska | 96,915 | 7,222 | 32,625 | 10,451 | 302 | 2,793 | 24,531 | 1,219 | 1,224 | 8,606 | 7,942 |
| Nebraska | 86,762 | 25,797 | 30 | 10,206 | 6,217 | 27,554 | 3,809 | 746 | 79 | 1,919 | 10,405 |
| Kentucky | 75,670 | 8,725 | 71 | 10,846 | 5,617 | 36,486 | 1,895 | 1,419 | 1,221 | 1,386 | 8,004 |
| Montana | 64,821 | 15,367 | 2,084 | 9,383 | 4,847 | 17,503 | 5,541 | 1,010 | 205 | 2,255 | 6,626 |
| Delaware | 56,381 | 4,084 | 8,240 | 21,175 | 1,562 | 4,869 | 769 | 4,222 | 522 | 2,358 | 8,580 |
| Maine | 54,476 | 5,857 | 3,061 | 5,771 | 5,898 | 22,836 | 1,744 | 528 | 585 | 2,118 | 6,078 |
| Vermont | 53,590 | 5,785 | 45 | 13,573 | 534 | 26,937 | 1,804 | 419 | 51 | 663 | 3,779 |
| North Dakota | 47,313 | 25,321 | 289 | 1,355 | 5,453 | 2,947 | 5,445 | 1,145 | 1,318 | 584 | 3,456 |
| Wyoming | 35,151 | 6,556 | 57 | 2,154 | 5,268 | 1,097 | 4,089 | 9,222 | 477 | 806 | 5,425 |
| South Dakota | 26,492 | 5,518 | 10 | 366 | 80 | 2,745 | 5,838 | 668 | 0 | 7,760 | 3,507 |
| Outlying areas | 165,665 | 13,088 | 1,636 | 8,512 | 32 | 23,020 | 102,821 | 468 | 165 | 3,513 | 12,410 |
| Puerto Rico | 46,657 | 9,316 | 400 | 159 | 32 | 21,915 | 2,065 | 468 | 165 | 0 | 12,137 |
| Other areas | 119,008 | 3,772 | 1,236 | 8,353 | 0 | 1,105 | 100,756 | 0 | 0 | 3,513 | 273 |
| Offices abroad | 48,019 | 3,770 | 0 | 41,417 | 2,200 | 11 | 0 | 0 | 0 | 621 | 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, Interior, Transportation, and Health and Human Services; 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 1995.

KEY: EPA = Environmental Protection Agency
 NASA = National Aeronautics & Space Administration

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-82a. Percentage distribution of Federal obligations for research and development of each agency, by State: fiscal year 1995

| 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 | 18.9 | 5.6 | 7.6 | 21.2 | 17.3 | 11.4 | 8.0 | 4.7 | 4.6 | 27.9 | 13.8 |
| Maryland | 10.5 | 9.9 | 32.6 | 8.5 | 1.0 | 19.6 | 3.0 | 7.2 | 1.2 | 13.3 | 2.6 |
| Georgia | 6.5 | 3.7 | .2 | 11.4 | .2 | 2.7 | 1.1 | 1.0 | 3.3 | .3 | 1.3 |
| Texas | 6.0 | 4.5 | 1.5 | 4.1 | 1.1 | 3.9 | 1.6 | 2.4 | 3.1 | 21.8 | 3.7 |
| Virginia | 5.4 | .9 | 3.2 | 7.4 | 1.5 | 1.3 | 9.1 | 7.7 | 6.2 | 6.3 | 2.8 |
| Massachusetts | 5.0 | 1.6 | 5.1 | 5.3 | 1.6 | 8.2 | 1.1 | 8.8 | 4.7 | 1.6 | 7.8 |
| District of Columbia | 4.2 | 10.3 | 2.4 | 4.1 | 5.7 | 1.9 | 2.7 | 24.4 | 11.0 | 3.8 | 3.5 |
| New York | 3.8 | 2.3 | 1.9 | 2.3 | 9.4 | 8.0 | 1.0 | 2.1 | 1.3 | .5 | 9.3 |
| Pennsylvania | 3.6 | 2.9 | 1.2 | 3.3 | 7.5 | 5.0 | 1.1 | 2.0 | .9 | .6 | 5.2 |
| Florida | 3.6 | 2.5 | 2.6 | 5.1 | .3 | 1.1 | 2.5 | .7 | 3.4 | 4.0 | 2.5 |
| Alabama | 3.0 | 1.2 | .2 | 3.9 | .6 | 1.1 | .7 | .4 | .8 | 5.4 | .6 |
| New Mexico | 3.0 | .4 | * | 2.3 | 17.4 | .3 | .9 | 2.7 | .4 | .6 | .7 |
| Ohio | 2.7 | 1.2 | 1.2 | 2.5 | .8 | 2.5 | .6 | 2.9 | 10.8 | 5.3 | 1.7 |
| Missouri | 2.4 | 1.4 | * | 3.9 | .1 | 1.8 | 1.8 | .3 | .3 | .1 | .8 |
| New Jersey | 2.0 | .5 | 3.9 | 2.0 | 2.6 | .9 | .7 | 11.2 | 1.5 | 2.1 | 2.3 |
| Washington | 1.7 | 2.7 | 5.2 | 1.0 | 3.8 | 2.7 | 2.7 | .6 | .4 | .9 | 2.2 |
| Illinois | 1.7 | 3.2 | 1.7 | .4 | 8.2 | 2.3 | .4 | 1.7 | .7 | .2 | 4.9 |
| Colorado | 1.4 | 2.2 | 6.7 | 1.1 | .6 | 1.3 | 8.1 | 1.1 | 1.2 | 1.3 | 5.6 |
| Arizona | 1.4 | 1.5 | .2 | 1.9 | .1 | .7 | 1.6 | .5 | .6 | .8 | 2.9 |
| Connecticut | 1.3 | .4 | .7 | 1.6 | 1.0 | 1.8 | .2 | 1.9 | .3 | .3 | 1.0 |
| North Carolina | 1.2 | 2.4 | 1.6 | .4 | .2 | 3.8 | .7 | .9 | 21.2 | .1 | 2.4 |
| Michigan | 1.0 | 1.5 | 4.2 | .6 | .2 | 2.2 | 1.2 | 1.3 | 3.9 | .2 | 3.4 |
| Tennessee | .9 | .7 | .1 | .2 | 4.9 | 1.2 | .5 | .5 | .2 | .3 | .7 |
| Minnesota | .8 | 1.7 | 1.4 | .7 | .1 | 1.7 | .7 | .9 | 3.3 | .1 | 1.7 |
| Rhode Island | .8 | .1 | .3 | 1.3 | * | .3 | .3 | .2 | 1.9 | * | 1.0 |
| Hawaii | .7 | 1.5 | 1.0 | .1 | .1 | 3.2 | 1.9 | .1 | * | .1 | .7 |
| Indiana | .6 | 1.2 | .1 | .7 | .4 | .8 | .5 | 1.1 | .5 | .1 | 1.9 |
| Nevada | .6 | .2 | .1 | .1 | 4.9 | .1 | 2.1 | 1.4 | 2.3 | * | .4 |
| Utah | .6 | 1.0 | .4 | .7 | .3 | .6 | 1.0 | .2 | .2 | .1 | 1.0 |
| Wisconsin | .5 | 2.5 | .5 | .1 | .3 | 1.4 | 2.2 | .8 | .4 | .4 | 1.9 |
| West Virginia | .4 | 1.5 | * | * | 2.2 | .5 | 1.1 | .4 | * | .3 | 1.5 |
| Oregon | .4 | 2.7 | 1.2 | .1 | .3 | .9 | 2.4 | .3 | 3.7 | .1 | 1.2 |
| Iowa | .3 | 2.8 | .1 | .1 | .5 | .7 | .5 | 2.2 | .5 | .1 | .6 |
| New Hampshire | .3 | .3 | 1.4 | .4 | * | .3 | .2 | .4 | .1 | .1 | .4 |
| Mississippi | .3 | 3.7 | .7 | .3 | .1 | .1 | .4 | .3 | .2 | .3 | .3 |
| Idaho | .3 | 1.3 | * | * | 2.6 | * | 1.7 | .2 | .1 | * | .2 |
| South Carolina | .3 | 1.1 | 3.5 | .1 | .6 | .3 | .5 | .2 | .1 | * | .4 |
| Louisiana | .3 | 2.4 | .3 | .1 | .2 | .5 | 2.7 | .2 | 1.1 | * | .4 |
| Oklahoma | .2 | 1.3 | .7 | .1 | .6 | .2 | .5 | 1.2 | 1.6 | * | .6 |
| Kansas | .2 | .9 | * | .1 | .1 | .3 | .6 | .2 | .9 | * | .5 |
| Arkansas | .1 | 1.2 | * | * | * | .6 | .7 | .2 | .1 | * | .1 |
| Alaska | .1 | .5 | 2.9 | * | * | * | 4.4 | .2 | .2 | .1 | .4 |
| Nebraska | .1 | 1.9 | * | * | .1 | .2 | .7 | .1 | * | * | .5 |
| Kentucky | .1 | .6 | * | * | .1 | .3 | .3 | .2 | .2 | * | .4 |
| Montana | .1 | 1.1 | .2 | * | .1 | .2 | 1.0 | .1 | * | * | .3 |
| Delaware | .1 | .3 | .7 | .1 | * | * | .1 | .6 | .1 | * | .4 |
| Maine | .1 | .4 | .3 | * | .1 | .2 | .3 | .1 | .1 | * | .3 |
| Vermont | .1 | .4 | * | * | * | .2 | .3 | .1 | * | * | .2 |
| North Dakota | .1 | 1.8 | * | * | .1 | * | 1.0 | .2 | .2 | * | .2 |
| Wyoming | .1 | .5 | * | * | .1 | * | .7 | 1.3 | .1 | * | .3 |
| South Dakota | * | .4 | * | * | * | * | 1.0 | .1 | .0 | .1 | .2 |
| Outlying areas | .2 | 1.0 | .1 | * | * | .2 | 18.3 | .1 | * | * | .6 |
| Puerto Rico | .1 | .7 | * | * | * | .2 | .4 | .1 | * | .0 | .6 |
| Other areas | .2 | .3 | .1 | * | .0 | * | 18.0 | .0 | .0 | * | * |
| Offices abroad | .1 | .3 | .0 | .1 | * | * | .0 | .0 | .0 | * | .0 |

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NOTE: Only the following 10 agencies are required to report to this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Interior, Transportation, and Health and Human Services; 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 1995.

KEY: * = Percentage less than .05%
 EPA = Environmental Protection Agency
 NASA = National Aeronautics & Space Administration

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-82b. Percentage distribution of Federal obligations for research and development of each State, by agency: fiscal year 1995

| 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 | 1.7 | 50.9 | 9.1 | 17.0 | 0.8 | 1.1 | 0.8 | 13.3 | 3.2 |
| California | 100.0 | .6 | .7 | 57.2 | 8.3 | 10.3 | .4 | .3 | .2 | 19.7 | 2.3 |
| Maryland | 100.0 | 1.9 | 5.3 | 41.4 | .9 | 31.8 | .2 | .7 | .1 | 16.9 | .8 |
| Georgia | 100.0 | 1.2 | .1 | 89.3 | .4 | 7.0 | .1 | .2 | .4 | .7 | .6 |
| Texas | 100.0 | 1.5 | .4 | 34.2 | 1.7 | 10.9 | .2 | .4 | .4 | 48.2 | 2.0 |
| Virginia | 100.0 | .3 | 1.0 | 70.8 | 2.6 | 4.1 | 1.4 | 1.5 | .9 | 15.6 | 1.7 |
| Massachusetts | 100.0 | .6 | 1.7 | 54.4 | 3.0 | 27.9 | .2 | 1.9 | .8 | 4.4 | 5.0 |
| District of Columbia | 100.0 | 5.1 | 1.0 | 49.8 | 12.4 | 7.9 | .5 | 6.3 | 2.2 | 12.2 | 2.7 |
| New York | 100.0 | 1.2 | .8 | 30.0 | 22.2 | 35.3 | .2 | .6 | .3 | 1.7 | 7.7 |
| Pennsylvania | 100.0 | 1.6 | .6 | 47.4 | 18.9 | 23.6 | .3 | .6 | .2 | 2.2 | 4.6 |
| Florida | 100.0 | 1.4 | 1.2 | 72.6 | .9 | 5.3 | .6 | .2 | .8 | 14.8 | 2.2 |
| Alabama | 100.0 | .8 | .1 | 65.7 | 1.7 | 6.3 | .2 | .1 | .2 | 24.2 | .7 |
| New Mexico | 100.0 | .3 | * | 39.3 | 53.7 | 1.8 | .3 | 1.0 | .1 | 2.8 | .7 |
| Ohio | 100.0 | .9 | .7 | 47.2 | 2.6 | 15.9 | .2 | 1.2 | 3.3 | 26.0 | 2.0 |
| Missouri | 100.0 | 1.2 | * | 83.2 | .3 | 12.6 | .6 | .1 | .1 | .7 | 1.0 |
| New Jersey | 100.0 | .5 | 3.4 | 51.0 | 11.9 | 8.0 | .3 | 6.1 | .6 | 14.3 | 3.8 |
| Washington | 100.0 | 3.2 | 5.2 | 30.7 | 20.5 | 27.3 | 1.3 | .4 | .2 | 6.9 | 4.2 |
| Illinois | 100.0 | 3.9 | 1.8 | 13.2 | 44.7 | 23.8 | .2 | 1.1 | .4 | 1.6 | 9.4 |
| Colorado | 100.0 | 3.1 | 7.9 | 38.6 | 4.1 | 15.6 | 4.7 | .8 | .7 | 12.0 | 12.5 |
| Arizona | 100.0 | 2.2 | .3 | 71.7 | .7 | 9.1 | 1.0 | .4 | .3 | 7.6 | 6.7 |
| Connecticut | 100.0 | .6 | .9 | 61.9 | 7.0 | 22.2 | .1 | 1.5 | .2 | 3.3 | 2.3 |
| North Carolina | 100.0 | 3.9 | 2.2 | 16.6 | 1.6 | 52.7 | .4 | .8 | 14.1 | 1.4 | 6.2 |
| Michigan | 100.0 | 2.9 | 6.9 | 31.9 | 2.0 | 37.0 | 1.0 | 1.4 | 3.1 | 3.2 | 10.5 |
| Tennessee | 100.0 | 1.6 | .2 | 14.2 | 51.5 | 24.4 | .5 | .6 | .2 | 4.1 | 2.7 |
| Minnesota | 100.0 | 4.2 | 2.8 | 44.7 | 1.0 | 34.7 | .7 | 1.1 | 3.2 | 1.3 | 6.4 |
| Rhode Island | 100.0 | .3 | .6 | 83.9 | .4 | 7.3 | .3 | .3 | 2.0 | .8 | 4.0 |
| Hawaii | 100.0 | 4.2 | 2.3 | 10.2 | 1.3 | 75.1 | 2.2 | .1 | .1 | 1.5 | 2.9 |
| Indiana | 100.0 | 3.8 | .2 | 53.8 | 5.1 | 21.5 | .6 | 1.9 | .6 | 2.7 | 9.6 |
| Nevada | 100.0 | .8 | .2 | 5.3 | 80.2 | 1.7 | 3.2 | 2.7 | 3.4 | .5 | 2.0 |
| Utah | 100.0 | 3.6 | 1.2 | 61.1 | 4.5 | 19.6 | 1.5 | .4 | .3 | 1.8 | 5.9 |
| Wisconsin | 100.0 | 10.0 | 1.5 | 8.9 | 5.5 | 46.5 | 3.6 | 1.6 | .6 | 10.4 | 11.5 |
| West Virginia | 100.0 | 7.0 | .1 | 5.7 | 45.3 | 20.1 | 2.2 | .9 | * | 7.7 | 11.0 |
| Oregon | 100.0 | 13.5 | 4.9 | 14.0 | 5.7 | 36.8 | 4.9 | .8 | 7.4 | 2.8 | 9.2 |
| Iowa | 100.0 | 18.3 | .6 | 10.0 | 13.5 | 38.6 | 1.2 | 7.5 | 1.3 | 3.4 | 5.7 |
| New Hampshire | 100.0 | 2.1 | 7.4 | 61.0 | .6 | 16.6 | .6 | 1.2 | .2 | 5.8 | 4.3 |
| Mississippi | 100.0 | 23.9 | 3.5 | 46.0 | 1.7 | 5.7 | 1.2 | 1.0 | .6 | 13.7 | 2.7 |
| Idaho | 100.0 | 8.7 | .2 | 6.1 | 76.3 | .9 | 4.6 | .6 | .4 | .3 | 1.8 |
| South Carolina | 100.0 | 8.6 | 22.5 | 19.7 | 21.4 | 19.0 | 1.6 | .8 | .3 | 1.4 | 4.8 |
| Louisiana | 100.0 | 18.8 | 1.7 | 21.8 | 6.5 | 30.9 | 8.6 | .9 | 3.3 | 2.1 | 5.4 |
| Oklahoma | 100.0 | 10.8 | 5.3 | 21.3 | 23.8 | 17.1 | 1.8 | 5.6 | 5.6 | .7 | 8.0 |
| Kansas | 100.0 | 10.7 | .1 | 35.9 | 5.1 | 28.5 | 2.8 | 1.3 | 4.1 | 2.9 | 8.5 |
| Arkansas | 100.0 | 16.7 | * | 4.3 | .1 | 68.5 | 3.9 | 1.2 | .7 | 1.7 | 2.9 |
| Alaska | 100.0 | 7.5 | 33.7 | 10.8 | .3 | 2.9 | 25.3 | 1.3 | 1.3 | 8.9 | 8.2 |
| Nebraska | 100.0 | 29.7 | * | 11.8 | 7.2 | 31.8 | 4.4 | .9 | .1 | 2.2 | 12.0 |
| Kentucky | 100.0 | 11.5 | .1 | 14.3 | 7.4 | 48.2 | 2.5 | 1.9 | 1.6 | 1.8 | 10.6 |
| Montana | 100.0 | 23.7 | 3.2 | 14.5 | 7.5 | 27.0 | 8.5 | 1.6 | .3 | 3.5 | 10.2 |
| Delaware | 100.0 | 7.2 | 14.6 | 37.6 | 2.8 | 8.6 | 1.4 | 7.5 | .9 | 4.2 | 15.2 |
| Maine | 100.0 | 10.8 | 5.6 | 10.6 | 10.8 | 41.9 | 3.2 | 1.0 | 1.1 | 3.9 | 11.2 |
| Vermont | 100.0 | 10.8 | .1 | 25.3 | 1.0 | 50.3 | 3.4 | .8 | .1 | 1.2 | 7.1 |
| North Dakota | 100.0 | 53.5 | .6 | 2.9 | 11.5 | 6.2 | 11.5 | 2.4 | 2.8 | 1.2 | 7.3 |
| Wyoming | 100.0 | 18.7 | .2 | 6.1 | 15.0 | 3.1 | 11.6 | 26.2 | 1.4 | 2.3 | 15.4 |
| South Dakota | 100.0 | 20.8 | * | 1.4 | .3 | 10.4 | 22.0 | 2.5 | .0 | 29.3 | 13.2 |
| Outlying areas | 100.0 | 7.9 | 1.0 | 5.1 | * | 13.9 | 62.1 | .3 | .1 | 2.1 | 7.5 |
| Puerto Rico | 100.0 | 20.0 | .9 | .3 | .1 | 47.0 | 4.4 | 1.0 | .4 | .0 | 26.0 |
| Other areas | 100.0 | 3.2 | 1.0 | 7.0 | .0 | .9 | 84.7 | .0 | .0 | 3.0 | .2 |
| Offices abroad | 100.0 | 7.9 | .0 | 86.3 | 4.6 | .0 | .0 | .0 | .0 | 1.3 | .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, Interior, Transportation, and Health and Human Services; 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 1995.

KEY: * = Percentage less than .05%
 EPA = Environmental Protection Agency
 NASA = National Aeronautics & Space Administration

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-83. Federal obligations for research and development, by State, agency, and performer: fiscal year 1995

[Dollars in thousands]

| State and agency | Total | Intra-mural ¹ | Extramural | | | | | | State and local govts |
|---|-----------|--------------------------|------------------|----------------------------------|---------------------------|------------------------------------|------------------------------|--|-----------------------|
| | | | Industrial firms | FFRDCs admin by industrial firms | Universities and colleges | FFRDCs admin by univs and colleges | Other nonprofit institutions | FFRDCs admin by nonprofit institutions | |
| Alabama, total | 2,016,252 | 642,257 | 1,159,369 | 0 | 194,411 | 0 | 17,882 | 0 | 2,333 |
| Department of Agriculture | 16,158 | 4,950 | 0 | 0 | 11,123 | 0 | 0 | 0 | 85 |
| Department of Commerce | 2,025 | 515 | 150 | 0 | 1,323 | 0 | 0 | 0 | 37 |
| Department of Defense, research ² | 61,819 | 29,483 | 21,896 | 0 | 9,774 | 0 | 666 | 0 | 0 |
| Department of Defense, total development ^{3 4} | 1,263,145 | 330,180 | 929,146 | 0 | 3,819 | 0 | 0 | 0 | 0 |
| Department of Energy | 34,131 | 50 | 29,381 | 0 | 4,501 | 0 | 199 | 0 | 0 |
| Department of Health & Human Svcs | 127,447 | 0 | 2,286 | 0 | 110,381 | 0 | 13,982 | 0 | 798 |
| Department of the Interior | 4,085 | 3,416 | 0 | 0 | 669 | 0 | 0 | 0 | 0 |
| Department of Transportation | 2,592 | 1,004 | 0 | 0 | 208 | 0 | 0 | 0 | 1,380 |
| Environmental Protection Agency | 4,333 | 0 | 1,514 | 0 | 1,390 | 0 | 1,429 | 0 | 0 |
| National Aeronautics and Space Admin .. | 487,012 | 272,659 | 174,921 | 0 | 37,793 | 0 | 1,606 | 0 | 33 |
| National Science Foundation | 13,505 | 0 | 75 | 0 | 13,430 | 0 | 0 | 0 | 0 |
| Alaska, total | 96,915 | 60,545 | 8,729 | 0 | 24,411 | 0 | 635 | 0 | 2,595 |
| Department of Agriculture | 7,222 | 5,423 | 0 | 0 | 1,799 | 0 | 0 | 0 | 0 |
| Department of Commerce | 32,625 | 30,970 | 0 | 0 | 1,527 | 0 | 0 | 0 | 128 |
| Department of Defense, research ² | 2,016 | 876 | 126 | 0 | 1,014 | 0 | 0 | 0 | 0 |
| Department of Defense, total development ^{3 4} | 8,435 | 619 | 7,418 | 0 | 398 | 0 | 0 | 0 | 0 |
| Department of Energy | 302 | 0 | 253 | 0 | 49 | 0 | 0 | 0 | 0 |
| Department of Health & Human Svcs | 2,793 | 446 | 80 | 0 | 1,886 | 0 | 100 | 0 | 281 |
| Department of the Interior | 24,531 | 22,211 | 226 | 0 | 1,727 | 0 | 0 | 0 | 367 |
| Department of Transportation | 1,219 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,219 |
| Environmental Protection Agency | 1,224 | 0 | 496 | 0 | 128 | 0 | 0 | 0 | 600 |
| National Aeronautics and Space Admin .. | 8,606 | 0 | 0 | 0 | 8,606 | 0 | 0 | 0 | 0 |
| National Science Foundation | 7,942 | 0 | 130 | 0 | 7,277 | 0 | 535 | 0 | 0 |
| Arizona, total | 915,087 | 177,935 | 528,327 | 0 | 170,299 | 29,099 | 6,198 | 0 | 3,229 |
| Department of Agriculture | 20,254 | 14,016 | 80 | 0 | 6,133 | 0 | 0 | 0 | 25 |
| Department of Commerce | 2,371 | 0 | 1,070 | 0 | 723 | 0 | 0 | 0 | 578 |
| Department of Defense, research ² | 40,890 | 2,374 | 15,436 | 0 | 23,060 | 0 | 20 | 0 | 0 |
| Department of Defense, total development ^{3 4} | 615,666 | 132,155 | 481,732 | 0 | 1,739 | 0 | 0 | 0 | 40 |
| Department of Energy | 6,288 | 0 | 160 | 0 | 6,128 | 0 | 0 | 0 | 0 |
| Department of Health & Human Svcs | 83,220 | 15,647 | 1,355 | 0 | 60,267 | 0 | 4,939 | 0 | 1,012 |
| Department of the Interior | 8,995 | 8,230 | 94 | 0 | 671 | 0 | 0 | 0 | 0 |
| Department of Transportation | 3,352 | 0 | 2,163 | 0 | 40 | 0 | 0 | 0 | 1,149 |
| Environmental Protection Agency | 3,066 | 0 | 1,149 | 0 | 1,917 | 0 | 0 | 0 | 0 |
| National Aeronautics and Space Admin .. | 69,580 | 5,513 | 24,271 | 0 | 38,575 | 0 | 796 | 0 | 425 |
| National Science Foundation | 61,405 | 0 | 817 | 0 | 31,046 | 29,099 | 443 | 0 | 0 |
| Arkansas, total | 97,724 | 57,563 | 3,016 | 0 | 32,766 | 0 | 3,138 | 0 | 1,241 |
| Department of Agriculture | 16,276 | 6,126 | 480 | 0 | 9,553 | 0 | 83 | 0 | 34 |
| Department of Commerce | 23 | 0 | 23 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Defense, research ² | 2,039 | 287 | 139 | 0 | 1,613 | 0 | 0 | 0 | 0 |
| Department of Defense, total development ^{3 4} | 2,153 | 1,642 | 463 | 0 | 48 | 0 | 0 | 0 | 0 |
| Department of Energy | 72 | 0 | 0 | 0 | 72 | 0 | 0 | 0 | 0 |
| Department of Health & Human Svcs | 66,972 | 45,858 | 847 | 0 | 16,899 | 0 | 3,035 | 0 | 333 |
| Department of the Interior | 3,763 | 3,650 | 0 | 0 | 113 | 0 | 0 | 0 | 0 |
| Department of Transportation | 1,205 | 0 | 319 | 0 | 12 | 0 | 0 | 0 | 874 |
| Environmental Protection Agency | 692 | 0 | 442 | 0 | 230 | 0 | 20 | 0 | 0 |
| National Aeronautics and Space Admin .. | 1,667 | 0 | 293 | 0 | 1,374 | 0 | 0 | 0 | 0 |
| National Science Foundation | 2,862 | 0 | 10 | 0 | 2,852 | 0 | 0 | 0 | 0 |

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

Table C-83. Federal obligations for research and development, by State, agency, and performer: fiscal year 1995

[Dollars in thousands]

| State and agency | Total | Intra-mural ¹ | Extramural | | | | | | State and local govts |
|---|------------|--------------------------|------------------|----------------------------------|---------------------------|------------------------------------|------------------------------|--|-----------------------|
| | | | Industrial firms | FFRDCs admin by industrial firms | Universities and colleges | FFRDCs admin by univs and colleges | Other nonprofit institutions | FFRDCs admin by nonprofit institutions | |
| California, total | 12,703,572 | 1,843,729 | 6,685,458 | 21,790 | 1,666,792 | 1,847,456 | 361,960 | 245,360 | 31,027 |
| Department of Agriculture | 76,788 | 55,432 | 0 | 0 | 21,039 | 0 | 317 | 0 | 0 |
| Department of Commerce | 86,514 | 14,161 | 62,180 | 0 | 9,335 | 75 | 541 | 0 | 222 |
| Department of Defense, research ² | 830,172 | 146,741 | 442,001 | 6,150 | 199,585 | 16,019 | 16,290 | 3,386 | 0 |
| Department of Defense, total development ^{3 4} | 6,442,078 | 1,277,541 | 4,910,910 | 72 | 56,150 | 40,570 | 25,181 | 131,654 | 0 |
| Department of Energy | 1,058,345 | 5,147 | 107,416 | 15,568 | 80,485 | 736,307 | 6,184 | 97,535 | 9,703 |
| Department of Health & Human Svcs | 1,305,366 | 4,274 | 119,258 | 0 | 869,400 | 21,073 | 275,580 | 11,558 | 4,223 |
| Department of the Interior | 45,125 | 40,680 | 1,139 | 0 | 2,826 | 160 | 320 | 0 | 0 |
| Department of Transportation | 33,854 | 8,096 | 6,737 | 0 | 3,149 | 277 | 1,500 | 0 | 14,095 |
| Environmental Protection Agency | 25,367 | 0 | 8,399 | 0 | 13,690 | 0 | 742 | 0 | 2,536 |
| National Aeronautics and Space Admin .. | 2,503,332 | 291,360 | 998,238 | 0 | 158,817 | 1,032,797 | 20,850 | 1,022 | 248 |
| National Science Foundation | 296,631 | 297 | 29,180 | 0 | 252,316 | 178 | 14,455 | 205 | 0 |
| Colorado, total | 965,060 | 167,869 | 434,627 | 0 | 227,195 | 79,483 | 46,418 | 4,743 | 4,725 |
| Department of Agriculture | 30,093 | 22,319 | 0 | 0 | 7,774 | 0 | 0 | 0 | 0 |
| Department of Commerce | 76,164 | 69,884 | 2,080 | 0 | 4,200 | 0 | 0 | 0 | 0 |
| Department of Defense, research ² | 52,329 | 7,343 | 25,955 | 0 | 18,559 | 462 | 10 | 0 | 0 |
| Department of Defense, total development ^{3 4} | 320,184 | 13,236 | 303,994 | 0 | 2,954 | 0 | 0 | 0 | 0 |
| Department of Energy | 39,115 | 3,142 | 20,279 | 0 | 9,721 | 0 | 1,230 | 4,743 | 0 |
| Department of Health & Human Svcs | 151,008 | 0 | 4,259 | 0 | 115,574 | 0 | 27,771 | 0 | 3,404 |
| Department of the Interior | 45,647 | 43,378 | 186 | 0 | 1,984 | 0 | 0 | 0 | 99 |
| Department of Transportation | 7,702 | 460 | 1,392 | 0 | 0 | 0 | 4,740 | 0 | 1,110 |
| Environmental Protection Agency | 6,364 | 0 | 2,161 | 0 | 2,366 | 0 | 1,837 | 0 | 0 |
| National Aeronautics and Space Admin .. | 115,796 | 6,542 | 71,161 | 0 | 20,937 | 7,449 | 9,707 | 0 | 0 |
| National Science Foundation | 120,658 | 1,565 | 3,160 | 0 | 43,126 | 71,572 | 1,123 | 0 | 112 |
| Connecticut, total | 902,334 | 17,690 | 635,941 | 0 | 234,126 | 0 | 9,737 | 0 | 4,840 |
| Department of Agriculture | 5,470 | 1,985 | 0 | 0 | 2,277 | 0 | 0 | 0 | 1,208 |
| Department of Commerce | 7,806 | 39 | 4,315 | 0 | 3,399 | 0 | 0 | 0 | 53 |
| Department of Defense, research ² | 35,366 | 1,053 | 23,645 | 0 | 10,668 | 0 | 0 | 0 | 0 |
| Department of Defense, total development ^{3 4} | 523,294 | 5,253 | 515,628 | 0 | 2,413 | 0 | 0 | 0 | 0 |
| Department of Energy | 62,991 | 0 | 52,992 | 0 | 9,999 | 0 | 0 | 0 | 0 |
| Department of Health & Human Svcs | 200,739 | 0 | 4,665 | 0 | 185,648 | 0 | 8,873 | 0 | 1,553 |
| Department of the Interior | 1,275 | 1,159 | 38 | 0 | 78 | 0 | 0 | 0 | 0 |
| Department of Transportation | 13,723 | 8,201 | 3,611 | 0 | 54 | 0 | 0 | 0 | 1,857 |
| Environmental Protection Agency | 1,372 | 0 | 1,094 | 0 | 113 | 0 | 100 | 0 | 65 |
| National Aeronautics and Space Admin .. | 29,586 | 0 | 27,457 | 0 | 1,788 | 0 | 341 | 0 | 0 |
| National Science Foundation | 20,712 | 0 | 2,496 | 0 | 17,689 | 0 | 423 | 0 | 104 |
| Delaware, total | 56,381 | 15,477 | 15,449 | 0 | 21,934 | 0 | 2,994 | 0 | 527 |
| Department of Agriculture | 4,084 | 996 | 50 | 0 | 3,038 | 0 | 0 | 0 | 0 |
| Department of Commerce | 8,240 | 1,155 | 5,857 | 0 | 1,188 | 0 | 0 | 0 | 40 |
| Department of Defense, research ² | 15,900 | 7,649 | 4,120 | 0 | 4,131 | 0 | 0 | 0 | 0 |
| Department of Defense, total development ^{3 4} | 5,275 | 2,374 | 2,342 | 0 | 559 | 0 | 0 | 0 | 0 |
| Department of Energy | 1,562 | 0 | 109 | 0 | 1,048 | 0 | 405 | 0 | 0 |
| Department of Health & Human Svcs | 4,869 | 0 | 483 | 0 | 3,595 | 0 | 704 | 0 | 87 |
| Department of the Interior | 769 | 643 | 0 | 0 | 116 | 0 | 0 | 0 | 10 |
| Department of Transportation | 4,222 | 2,660 | 1,072 | 0 | 100 | 0 | 0 | 0 | 390 |
| Environmental Protection Agency | 522 | 0 | 0 | 0 | 522 | 0 | 0 | 0 | 0 |
| National Aeronautics and Space Admin .. | 2,358 | 0 | 1,026 | 0 | 480 | 0 | 852 | 0 | 0 |
| National Science Foundation | 8,580 | 0 | 390 | 0 | 7,157 | 0 | 1,033 | 0 | 0 |

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

Table C-83. Federal obligations for research and development, by State, agency, and performer: fiscal year 1995

[Dollars in thousands]

| State and agency | Total | Intra-mural ¹ | Extramural | | | | | | State and local govts |
|---|-----------|--------------------------|------------------|----------------------------------|---------------------------|------------------------------------|------------------------------|--|-----------------------|
| | | | Industrial firms | FFRDCs admin by industrial firms | Universities and colleges | FFRDCs admin by univs and colleges | Other nonprofit institutions | FFRDCs admin by nonprofit institutions | |
| District of Columbia, total | 2,805,093 | 2,106,077 | 381,390 | 0 | 147,605 | 0 | 168,518 | 0 | 1,503 |
| Department of Agriculture | 142,064 | 133,228 | 8,052 | 0 | 611 | 0 | 173 | 0 | 0 |
| Department of Commerce | 27,486 | 26,345 | 145 | 0 | 891 | 0 | 105 | 0 | 0 |
| Department of Defense, research ² | 462,484 | 364,715 | 70,160 | 0 | 19,722 | 0 | 7,887 | 0 | 0 |
| Department of Defense, total development ^{3 4} | 934,059 | 768,117 | 137,730 | 0 | 23,348 | 0 | 4,864 | 0 | 0 |
| Department of Energy | 349,156 | 300,628 | 38,062 | 0 | 4,144 | 0 | 6,322 | 0 | 0 |
| Department of Health & Human Svcs | 221,291 | 95,802 | 14,281 | 0 | 71,805 | 0 | 39,194 | 0 | 209 |
| Department of the Interior | 14,869 | 14,566 | 13 | 0 | 119 | 0 | 171 | 0 | 0 |
| Department of Transportation | 177,455 | 91,279 | 63,983 | 0 | 5,380 | 0 | 15,554 | 0 | 1,259 |
| Environmental Protection Agency | 60,381 | 45,398 | 2,178 | 0 | 492 | 0 | 12,313 | 0 | 0 |
| National Aeronautics and Space Admin | 341,121 | 259,276 | 42,904 | 0 | 8,258 | 0 | 30,648 | 0 | 35 |
| National Science Foundation | 74,727 | 6,723 | 3,882 | 0 | 12,835 | 0 | 51,287 | 0 | 0 |
| Florida, total | 2,403,899 | 554,440 | 1,573,440 | 0 | 262,972 | 0 | 8,165 | 0 | 4,882 |
| Department of Agriculture | 33,691 | 21,115 | 80 | 0 | 12,461 | 0 | 35 | 0 | 0 |
| Department of Commerce | 29,084 | 23,323 | 1,938 | 0 | 3,682 | 0 | 20 | 0 | 121 |
| Department of Defense, research ² | 115,173 | 43,458 | 43,481 | 0 | 28,234 | 0 | 0 | 0 | 0 |
| Department of Defense, total development ^{3 4} | 1,629,193 | 251,035 | 1,361,274 | 0 | 16,884 | 0 | 0 | 0 | 0 |
| Department of Energy | 21,046 | 0 | 9,542 | 0 | 10,827 | 0 | 677 | 0 | 0 |
| Department of Health & Human Svcs | 127,429 | 0 | 6,129 | 0 | 116,198 | 0 | 3,933 | 0 | 1,169 |
| Department of the Interior | 14,195 | 10,944 | 69 | 0 | 3,124 | 0 | 0 | 0 | 58 |
| Department of Transportation | 5,280 | 375 | 1,149 | 0 | 955 | 0 | 0 | 0 | 2,801 |
| Environmental Protection Agency | 18,670 | 7,823 | 8,583 | 0 | 2,122 | 0 | 0 | 0 | 142 |
| National Aeronautics and Space Admin | 356,445 | 196,367 | 140,980 | 0 | 17,734 | 0 | 773 | 0 | 591 |
| National Science Foundation | 53,693 | 0 | 215 | 0 | 50,751 | 0 | 2,727 | 0 | 0 |
| Georgia, total | 4,365,770 | 272,178 | 3,849,787 | 0 | 232,133 | 0 | 7,766 | 0 | 3,906 |
| Department of Agriculture | 51,341 | 38,047 | 0 | 0 | 13,043 | 0 | 0 | 0 | 251 |
| Department of Commerce | 2,280 | 362 | 1,208 | 0 | 700 | 0 | 0 | 0 | 10 |
| Department of Defense, research ² | 36,421 | 3,528 | 9,469 | 0 | 23,365 | 0 | 59 | 0 | 0 |
| Department of Defense, total development ^{3 4} | 3,863,995 | 15,396 | 3,823,144 | 0 | 23,707 | 0 | 1,748 | 0 | 0 |
| Department of Energy | 15,294 | 0 | 1,039 | 0 | 13,669 | 0 | 586 | 0 | 0 |
| Department of Health & Human Svcs | 306,242 | 190,976 | 815 | 0 | 111,227 | 0 | 2,859 | 0 | 365 |
| Department of the Interior | 6,221 | 5,871 | 0 | 0 | 350 | 0 | 0 | 0 | 0 |
| Department of Transportation | 7,302 | 613 | 1,707 | 0 | 1,061 | 0 | 1,687 | 0 | 2,234 |
| Environmental Protection Agency | 18,054 | 9,014 | 3,697 | 0 | 5,333 | 0 | 10 | 0 | 0 |
| National Aeronautics and Space Admin | 31,110 | 8,371 | 6,893 | 0 | 15,085 | 0 | 761 | 0 | 0 |
| National Science Foundation | 27,510 | 0 | 1,815 | 0 | 24,593 | 0 | 56 | 0 | 1,046 |
| Hawaii, total | 480,428 | 401,963 | 11,179 | 0 | 51,060 | 0 | 14,520 | 0 | 1,706 |
| Department of Agriculture | 20,296 | 9,987 | 0 | 0 | 4,941 | 0 | 5,368 | 0 | 0 |
| Department of Commerce | 11,085 | 7,599 | 237 | 0 | 3,121 | 0 | 0 | 0 | 128 |
| Department of Defense, research ² | 13,062 | 937 | 7,984 | 0 | 4,131 | 0 | 10 | 0 | 0 |
| Department of Defense, total development ^{3 4} | 35,878 | 32,739 | 1,576 | 0 | 758 | 0 | 0 | 0 | 805 |
| Department of Energy | 6,074 | 0 | 0 | 0 | 3,106 | 0 | 2,968 | 0 | 0 |
| Department of Health & Human Svcs | 360,789 | 340,000 | 606 | 0 | 14,532 | 0 | 5,560 | 0 | 91 |
| Department of the Interior | 10,797 | 10,651 | 0 | 0 | 100 | 0 | 0 | 0 | 46 |
| Department of Transportation | 636 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 636 |
| Environmental Protection Agency | 246 | 0 | 0 | 0 | 171 | 0 | 75 | 0 | 0 |
| National Aeronautics and Space Admin | 7,424 | 50 | 659 | 0 | 6,715 | 0 | 0 | 0 | 0 |
| National Science Foundation | 14,141 | 0 | 117 | 0 | 13,485 | 0 | 539 | 0 | 0 |

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

Table C-83. Federal obligations for research and development, by State, agency, and performer: fiscal year 1995

[Dollars in thousands]

| State and agency | Total | Intra-mural ¹ | Extramural | | | | | | State and local govts |
|---|------------------|--------------------------|------------------|----------------------------------|---------------------------|------------------------------------|------------------------------|--|-----------------------|
| | | | Industrial firms | FFRDCs admin by industrial firms | Universities and colleges | FFRDCs admin by univs and colleges | Other nonprofit institutions | FFRDCs admin by nonprofit institutions | |
| Idaho, total | 211,063 | 27,792 | 101,893 | 65,810 | 13,536 | 0 | 548 | 0 | 1,484 |
| Department of Agriculture | 18,429 | 13,304 | 0 | 0 | 5,090 | 0 | 35 | 0 | 0 |
| Department of Commerce | 476 | 476 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Defense, research ² | 8,257 | 1,117 | 6,068 | 302 | 770 | 0 | 0 | 0 | 0 |
| Department of Defense, total development ^{3 4} | 4,632 | 2,542 | 153 | 1,244 | 693 | 0 | 0 | 0 | 0 |
| Department of Energy | 161,093 | 1,080 | 95,417 | 63,753 | 253 | 0 | 20 | 0 | 570 |
| Department of Health & Human Svcs | 1,806 | 0 | 0 | 0 | 1,068 | 0 | 493 | 0 | 245 |
| Department of the Interior | 9,687 | 8,805 | 40 | 0 | 842 | 0 | 0 | 0 | 0 |
| Department of Transportation | 1,330 | 0 | 150 | 511 | 0 | 0 | 0 | 0 | 669 |
| Environmental Protection Agency | 769 | 0 | 0 | 0 | 769 | 0 | 0 | 0 | 0 |
| National Aeronautics and Space Admin | 724 | 468 | 0 | 0 | 256 | 0 | 0 | 0 | 0 |
| National Science Foundation | 3,860 | 0 | 65 | 0 | 3,795 | 0 | 0 | 0 | 0 |
| Illinois, total | 1,116,137 | 80,626 | 133,876 | 0 | 434,009 | 421,040 | 41,416 | 0 | 5,170 |
| Department of Agriculture | 43,469 | 31,311 | 240 | 0 | 11,904 | 0 | 14 | 0 | 0 |
| Department of Commerce | 19,638 | 540 | 17,652 | 0 | 1,442 | 4 | 0 | 0 | 0 |
| Department of Defense, research ² | 73,897 | 18,593 | 7,501 | 0 | 45,559 | 1,979 | 265 | 0 | 0 |
| Department of Defense, total development ^{3 4} | 73,626 | 25,551 | 35,454 | 0 | 10,725 | 943 | 953 | 0 | 0 |
| Department of Energy | 499,033 | 0 | 56,875 | 0 | 21,481 | 417,794 | 2,454 | 0 | 429 |
| Department of Health & Human Svcs | 266,000 | 1,945 | 5,126 | 0 | 224,107 | 0 | 34,015 | 0 | 807 |
| Department of the Interior | 2,291 | 2,019 | 57 | 0 | 82 | 80 | 0 | 0 | 53 |
| Department of Transportation | 12,212 | 0 | 4,324 | 0 | 4,207 | 0 | 300 | 0 | 3,381 |
| Environmental Protection Agency | 3,941 | 0 | 1,737 | 0 | 1,344 | 0 | 360 | 0 | 500 |
| National Aeronautics and Space Admin | 17,507 | 667 | 3,787 | 0 | 11,809 | 240 | 1,004 | 0 | 0 |
| National Science Foundation | 104,523 | 0 | 1,123 | 0 | 101,349 | 0 | 2,051 | 0 | 0 |
| Indiana, total | 426,192 | 62,061 | 183,529 | 0 | 173,978 | 0 | 3,596 | 0 | 3,028 |
| Department of Agriculture | 16,342 | 4,902 | 80 | 0 | 11,090 | 0 | 110 | 0 | 160 |
| Department of Commerce | 1,061 | 105 | 535 | 0 | 409 | 0 | 12 | 0 | 0 |
| Department of Defense, research ² | 18,230 | 2,180 | 4,384 | 0 | 11,646 | 0 | 20 | 0 | 0 |
| Department of Defense, total development ^{3 4} | 211,274 | 50,925 | 154,422 | 0 | 2,976 | 0 | 2,951 | 0 | 0 |
| Department of Energy | 21,849 | 0 | 6,260 | 0 | 15,589 | 0 | 0 | 0 | 0 |
| Department of Health & Human Svcs | 91,482 | 150 | 3,085 | 0 | 86,535 | 0 | 367 | 0 | 1,345 |
| Department of the Interior | 2,670 | 2,579 | 0 | 0 | 91 | 0 | 0 | 0 | 0 |
| Department of Transportation | 8,218 | 0 | 6,716 | 0 | 0 | 0 | 0 | 0 | 1,502 |
| Environmental Protection Agency | 2,631 | 0 | 2,115 | 0 | 495 | 0 | 0 | 0 | 21 |
| National Aeronautics and Space Admin | 11,447 | 1,220 | 5,460 | 0 | 4,631 | 0 | 136 | 0 | 0 |
| National Science Foundation | 40,988 | 0 | 472 | 0 | 40,516 | 0 | 0 | 0 | 0 |
| Iowa, total | 214,316 | 37,257 | 12,623 | 0 | 130,285 | 29,815 | 1,054 | 0 | 3,282 |
| Department of Agriculture | 39,159 | 25,737 | 0 | 0 | 13,422 | 0 | 0 | 0 | 0 |
| Department of Commerce | 1,343 | 0 | 17 | 0 | 1,326 | 0 | 0 | 0 | 0 |
| Department of Defense, research ² | 8,176 | 483 | 1,929 | 0 | 5,725 | 30 | 9 | 0 | 0 |
| Department of Defense, total development ^{3 4} | 13,159 | 596 | 8,867 | 0 | 3,696 | 0 | 0 | 0 | 0 |
| Department of Energy | 28,913 | 0 | 0 | 0 | 2,983 | 25,930 | 0 | 0 | 0 |
| Department of Health & Human Svcs | 82,815 | 0 | 100 | 0 | 80,327 | 0 | 995 | 0 | 1,393 |
| Department of the Interior | 2,526 | 2,438 | 0 | 0 | 88 | 0 | 0 | 0 | 0 |
| Department of Transportation | 15,988 | 8,003 | 62 | 0 | 2,755 | 3,855 | 0 | 0 | 1,313 |
| Environmental Protection Agency | 2,766 | 0 | 0 | 0 | 2,140 | 0 | 50 | 0 | 576 |
| National Aeronautics and Space Admin | 7,197 | 0 | 1,548 | 0 | 5,649 | 0 | 0 | 0 | 0 |
| National Science Foundation | 12,274 | 0 | 100 | 0 | 12,174 | 0 | 0 | 0 | 0 |

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

Table C-83. Federal obligations for research and development, by State, agency, and performer: fiscal year 1995

[Dollars in thousands]

| State and agency | Total | Intra-mural ¹ | Extramural | | | | | | State and local govts |
|---|----------------|--------------------------|------------------|----------------------------------|---------------------------|------------------------------------|------------------------------|---|-----------------------|
| | | | Industrial firms | FFRDCs admin by industrial firms | Universities and colleges | FFRDCs admin by univs and colleges | Other nonprofit institutions | FFRDCs admin by non-profit institutions | |
| Kansas, total | 120,846 | 12,296 | 42,764 | 0 | 62,934 | 0 | 910 | 0 | 1,942 |
| Department of Agriculture | 12,981 | 6,181 | 80 | 0 | 6,720 | 0 | 0 | 0 | 0 |
| Department of Commerce | 173 | 173 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Defense, research ² | 3,184 | 656 | 1,248 | 0 | 1,280 | 0 | 0 | 0 | 0 |
| Department of Defense, total development ^{3 4} | 40,238 | 2,002 | 38,161 | 0 | 75 | 0 | 0 | 0 | 0 |
| Department of Energy | 6,164 | 0 | 378 | 0 | 5,774 | 0 | 12 | 0 | 0 |
| Department of Health & Human Svcs | 34,479 | 0 | 1,558 | 0 | 31,195 | 0 | 898 | 0 | 828 |
| Department of the Interior | 3,362 | 3,284 | 0 | 0 | 78 | 0 | 0 | 0 | 0 |
| Department of Transportation | 1,514 | 0 | 0 | 0 | 400 | 0 | 0 | 0 | 1,114 |
| Environmental Protection Agency | 4,970 | 0 | 0 | 0 | 4,970 | 0 | 0 | 0 | 0 |
| National Aeronautics and Space Admin | 3,512 | 0 | 1,208 | 0 | 2,304 | 0 | 0 | 0 | 0 |
| National Science Foundation | 10,269 | 0 | 131 | 0 | 10,138 | 0 | 0 | 0 | 0 |
| Kentucky, total | 75,670 | 5,911 | 5,008 | 0 | 61,993 | 0 | 1,102 | 0 | 1,656 |
| Department of Agriculture | 8,725 | 0 | 0 | 0 | 8,725 | 0 | 0 | 0 | 0 |
| Department of Commerce | 71 | 0 | 1 | 0 | 70 | 0 | 0 | 0 | 0 |
| Department of Defense, research ² | 4,165 | 1,024 | 409 | 0 | 2,732 | 0 | 0 | 0 | 0 |
| Department of Defense, total development ^{3 4} | 6,681 | 3,029 | 3,652 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Energy | 5,617 | 0 | 120 | 0 | 5,477 | 0 | 0 | 0 | 20 |
| Department of Health & Human Svcs | 36,486 | 0 | 806 | 0 | 34,073 | 0 | 1,102 | 0 | 505 |
| Department of the Interior | 1,895 | 1,817 | 0 | 0 | 78 | 0 | 0 | 0 | 0 |
| Department of Transportation | 1,419 | 0 | 6 | 0 | 282 | 0 | 0 | 0 | 1,131 |
| Environmental Protection Agency | 1,221 | 0 | 0 | 0 | 1,221 | 0 | 0 | 0 | 0 |
| National Aeronautics and Space Admin | 1,386 | 41 | 0 | 0 | 1,345 | 0 | 0 | 0 | 0 |
| National Science Foundation | 8,004 | 0 | 14 | 0 | 7,990 | 0 | 0 | 0 | 0 |
| Louisiana, total | 176,253 | 45,108 | 22,035 | 0 | 103,764 | 0 | 1,863 | 0 | 3,483 |
| Department of Agriculture | 33,149 | 25,349 | 0 | 0 | 7,760 | 0 | 40 | 0 | 0 |
| Department of Commerce | 2,910 | 902 | 687 | 0 | 1,204 | 0 | 0 | 0 | 117 |
| Department of Defense, research ² | 18,471 | 286 | 1,823 | 0 | 16,352 | 0 | 10 | 0 | 0 |
| Department of Defense, total development ^{3 4} | 19,883 | 3,091 | 14,809 | 0 | 1,983 | 0 | 0 | 0 | 0 |
| Department of Energy | 11,514 | 175 | 3,963 | 0 | 7,376 | 0 | 0 | 0 | 0 |
| Department of Health & Human Svcs | 54,438 | 2,213 | 215 | 0 | 49,753 | 0 | 1,813 | 0 | 444 |
| Department of the Interior | 15,235 | 13,090 | 0 | 0 | 2,093 | 0 | 0 | 0 | 52 |
| Department of Transportation | 1,551 | 0 | 0 | 0 | 226 | 0 | 0 | 0 | 1,325 |
| Environmental Protection Agency | 5,868 | 0 | 149 | 0 | 5,719 | 0 | 0 | 0 | 0 |
| National Aeronautics and Space Admin | 3,738 | 2 | 304 | 0 | 3,432 | 0 | 0 | 0 | 0 |
| National Science Foundation | 9,496 | 0 | 85 | 0 | 7,866 | 0 | 0 | 0 | 1,545 |
| Maine, total | 54,476 | 4,238 | 9,089 | 0 | 15,841 | 0 | 23,310 | 0 | 1,998 |
| Department of Agriculture | 5,857 | 1,146 | 0 | 0 | 4,711 | 0 | 0 | 0 | 0 |
| Department of Commerce | 3,061 | 701 | 0 | 0 | 2,249 | 0 | 5 | 0 | 106 |
| Department of Defense, research ² | 2,441 | 285 | 233 | 0 | 1,813 | 0 | 110 | 0 | 0 |
| Department of Defense, total development ^{3 4} | 3,330 | 802 | 2,119 | 0 | 379 | 0 | 30 | 0 | 0 |
| Department of Energy | 5,898 | 0 | 3,778 | 0 | 870 | 0 | 1,250 | 0 | 0 |
| Department of Health & Human Svcs | 22,836 | 0 | 1,577 | 0 | 914 | 0 | 19,206 | 0 | 1,139 |
| Department of the Interior | 1,744 | 1,304 | 8 | 0 | 359 | 0 | 0 | 0 | 73 |
| Department of Transportation | 528 | 0 | 53 | 0 | 0 | 0 | 0 | 0 | 475 |
| Environmental Protection Agency | 585 | 0 | 300 | 0 | 285 | 0 | 0 | 0 | 0 |
| National Aeronautics and Space Admin | 2,118 | 0 | 885 | 0 | 294 | 0 | 734 | 0 | 205 |
| National Science Foundation | 6,078 | 0 | 136 | 0 | 3,967 | 0 | 1,975 | 0 | 0 |

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

Table C-83. Federal obligations for research and development, by State, agency, and performer: fiscal year 1995

[Dollars in thousands]

| State and agency | Total | Intra-mural ¹ | Extramural | | | | | | State and local govts |
|---|------------------|--------------------------|------------------|----------------------------------|---------------------------|------------------------------------|------------------------------|--|-----------------------|
| | | | Industrial firms | FFRDCs admin by industrial firms | Universities and colleges | FFRDCs admin by univs and colleges | Other nonprofit institutions | FFRDCs admin by nonprofit institutions | |
| Maryland, total | 7,039,183 | 4,158,824 | 1,956,488 | 141,701 | 654,050 | 0 | 123,499 | 1,564 | 3,057 |
| Department of Agriculture | 135,649 | 123,410 | 0 | 0 | 12,141 | 0 | 85 | 0 | 13 |
| Department of Commerce | 369,997 | 333,301 | 29,081 | 0 | 7,165 | 0 | 327 | 0 | 123 |
| Department of Defense, research ² | 344,909 | 224,424 | 62,011 | 65 | 44,498 | 0 | 13,160 | 751 | 0 |
| Department of Defense, total development ^{3 4} | 2,569,098 | 1,491,816 | 891,858 | 0 | 173,222 | 0 | 11,589 | 613 | 0 |
| Department of Energy | 60,671 | 26,777 | 15,379 | 0 | 16,594 | 0 | 1,921 | 0 | 0 |
| Department of Health & Human Svcs | 2,239,094 | 1,583,184 | 197,376 | 141,636 | 314,004 | 0 | 2,192 | 0 | 702 |
| Department of the Interior | 16,863 | 16,377 | 172 | 0 | 312 | 0 | 2 | 0 | 0 |
| Department of Transportation | 52,528 | 7,153 | 41,199 | 0 | 2,304 | 0 | 0 | 0 | 1,872 |
| Environmental Protection Agency | 6,562 | 0 | 3,497 | 0 | 2,515 | 0 | 550 | 0 | 0 |
| National Aeronautics and Space Admin .. | 1,189,026 | 348,891 | 704,674 | 0 | 45,024 | 0 | 89,890 | 200 | 347 |
| National Science Foundation | 54,786 | 3,491 | 11,241 | 0 | 36,271 | 0 | 3,783 | 0 | 0 |
| Massachusetts, total | 3,339,532 | 315,749 | 1,337,516 | 0 | 767,355 | 160,583 | 587,363 | 158,589 | 12,377 |
| Department of Agriculture | 21,574 | 15,529 | 160 | 0 | 5,364 | 0 | 521 | 0 | 0 |
| Department of Commerce | 57,772 | 26,479 | 27,207 | 0 | 3,682 | 0 | 49 | 0 | 355 |
| Department of Defense, research ² | 298,479 | 62,721 | 110,811 | 0 | 85,422 | 20,058 | 18,687 | 780 | 0 |
| Department of Defense, total development ^{3 4} | 1,518,763 | 131,204 | 1,047,826 | 0 | 23,721 | 129,278 | 31,588 | 155,146 | 0 |
| Department of Energy | 99,989 | 20 | 7,177 | 0 | 86,485 | 0 | 6,307 | 0 | 0 |
| Department of Health & Human Svcs | 933,229 | 27,841 | 83,281 | 0 | 343,448 | 2,805 | 468,178 | 0 | 7,676 |
| Department of the Interior | 6,397 | 5,249 | 81 | 0 | 697 | 370 | 0 | 0 | 0 |
| Department of Transportation | 63,704 | 41,926 | 7,954 | 0 | 1,909 | 7,729 | 0 | 0 | 4,186 |
| Environmental Protection Agency | 25,613 | 0 | 15,532 | 0 | 8,030 | 0 | 1,891 | 0 | 160 |
| National Aeronautics and Space Admin .. | 146,346 | 3,593 | 28,584 | 0 | 58,896 | 343 | 52,381 | 2,549 | 0 |
| National Science Foundation | 167,666 | 1,187 | 8,903 | 0 | 149,701 | 0 | 7,761 | 114 | 0 |
| Michigan, total | 688,376 | 82,008 | 155,055 | 0 | 397,365 | 0 | 49,778 | 0 | 4,170 |
| Department of Agriculture | 20,205 | 5,836 | 158 | 0 | 14,211 | 0 | 0 | 0 | 0 |
| Department of Commerce | 47,728 | 6,483 | 38,426 | 0 | 1,086 | 0 | 1,604 | 0 | 129 |
| Department of Defense, research ² | 55,380 | 19,162 | 9,863 | 0 | 25,590 | 0 | 765 | 0 | 0 |
| Department of Defense, total development ^{3 4} | 164,298 | 44,023 | 83,880 | 0 | 8,034 | 0 | 28,361 | 0 | 0 |
| Department of Energy | 13,779 | 0 | 265 | 0 | 12,477 | 0 | 1,037 | 0 | 0 |
| Department of Health & Human Svcs | 254,994 | 0 | 7,270 | 0 | 238,050 | 0 | 7,656 | 0 | 2,018 |
| Department of the Interior | 6,792 | 6,487 | 0 | 0 | 305 | 0 | 0 | 0 | 0 |
| Department of Transportation | 9,416 | 17 | 3,061 | 0 | 4,315 | 0 | 0 | 0 | 2,023 |
| Environmental Protection Agency | 21,217 | 0 | 6,722 | 0 | 12,267 | 0 | 2,228 | 0 | 0 |
| National Aeronautics and Space Admin .. | 22,263 | 0 | 3,438 | 0 | 13,156 | 0 | 5,669 | 0 | 0 |
| National Science Foundation | 72,304 | 0 | 1,972 | 0 | 67,874 | 0 | 2,458 | 0 | 0 |
| Minnesota, total | 571,128 | 30,139 | 254,153 | 0 | 195,912 | 0 | 84,775 | 0 | 6,149 |
| Department of Agriculture | 23,826 | 13,815 | 0 | 0 | 9,980 | 0 | 6 | 0 | 25 |
| Department of Commerce | 15,748 | 341 | 14,438 | 0 | 969 | 0 | 0 | 0 | 0 |
| Department of Defense, research ² | 55,624 | 493 | 46,098 | 0 | 8,890 | 0 | 143 | 0 | 0 |
| Department of Defense, total development ^{3 4} | 199,707 | 704 | 174,742 | 0 | 2,317 | 0 | 21,944 | 0 | 0 |
| Department of Energy | 5,736 | 0 | 0 | 0 | 5,476 | 0 | 260 | 0 | 0 |
| Department of Health & Human Svcs | 198,156 | 0 | 4,625 | 0 | 128,051 | 0 | 61,831 | 0 | 3,649 |
| Department of the Interior | 4,101 | 3,870 | 5 | 0 | 199 | 0 | 0 | 0 | 27 |
| Department of Transportation | 6,338 | 0 | 3,775 | 0 | 240 | 0 | 0 | 0 | 2,323 |
| Environmental Protection Agency | 18,028 | 10,916 | 5,102 | 0 | 1,885 | 0 | 0 | 0 | 125 |
| National Aeronautics and Space Admin .. | 7,422 | 0 | 3,981 | 0 | 3,024 | 0 | 417 | 0 | 0 |
| National Science Foundation | 36,442 | 0 | 1,387 | 0 | 34,881 | 0 | 174 | 0 | 0 |

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

Table C-83. Federal obligations for research and development, by State, agency, and performer: fiscal year 1995

[Dollars in thousands]

| State and agency | Total | Intra-mural ¹ | Extramural | | | | | | State and local govts |
|---|------------------|--------------------------|------------------|----------------------------------|---------------------------|------------------------------------|------------------------------|--|-----------------------|
| | | | Industrial firms | FFRDCs admin by industrial firms | Universities and colleges | FFRDCs admin by univs and colleges | Other nonprofit institutions | FFRDCs admin by nonprofit institutions | |
| Mississippi, total | 212,739 | 132,616 | 26,162 | 0 | 49,283 | 0 | 3,305 | 0 | 1,373 |
| Department of Agriculture | 50,877 | 36,399 | 0 | 0 | 13,740 | 0 | 738 | 0 | 0 |
| Department of Commerce | 7,552 | 6,451 | 0 | 0 | 1,066 | 0 | 0 | 0 | 35 |
| Department of Defense, research ² | 51,828 | 35,994 | 7,721 | 0 | 8,113 | 0 | 0 | 0 | 0 |
| Department of Defense, total development ^{3 4} | 46,051 | 32,006 | 10,543 | 0 | 3,502 | 0 | 0 | 0 | 0 |
| Department of Energy | 3,643 | 0 | 258 | 0 | 3,385 | 0 | 0 | 0 | 0 |
| Department of Health & Human Svcs | 12,032 | 0 | 100 | 0 | 11,309 | 0 | 232 | 0 | 391 |
| Department of the Interior | 2,520 | 2,442 | 0 | 0 | 78 | 0 | 0 | 0 | 0 |
| Department of Transportation | 2,091 | 1,103 | 0 | 0 | 41 | 0 | 0 | 0 | 947 |
| Environmental Protection Agency | 1,195 | 0 | 0 | 0 | 758 | 0 | 437 | 0 | 0 |
| National Aeronautics and Space Admin .. | 29,155 | 18,218 | 7,540 | 0 | 1,499 | 0 | 1,898 | 0 | 0 |
| National Science Foundation | 5,795 | 3 | 0 | 0 | 5,792 | 0 | 0 | 0 | 0 |
| Missouri, total | 1,613,322 | 55,445 | 1,303,721 | 0 | 232,766 | 0 | 17,723 | 0 | 3,667 |
| Department of Agriculture | 19,702 | 7,993 | 80 | 0 | 11,629 | 0 | 0 | 0 | 0 |
| Department of Commerce | 164 | 48 | 0 | 0 | 116 | 0 | 0 | 0 | 0 |
| Department of Defense, research ² | 25,764 | 1,718 | 15,825 | 0 | 8,221 | 0 | 0 | 0 | 0 |
| Department of Defense, total development ^{3 4} | 1,316,253 | 36,224 | 1,279,474 | 0 | 555 | 0 | 0 | 0 | 0 |
| Department of Energy | 5,234 | 10 | 0 | 0 | 4,889 | 0 | 335 | 0 | 0 |
| Department of Health & Human Svcs | 203,994 | 0 | 380 | 0 | 185,524 | 0 | 16,240 | 0 | 1,850 |
| Department of the Interior | 10,059 | 9,371 | 153 | 0 | 475 | 0 | 0 | 0 | 60 |
| Department of Transportation | 2,063 | 0 | 306 | 0 | 0 | 0 | 0 | 0 | 1,757 |
| Environmental Protection Agency | 1,434 | 0 | 801 | 0 | 439 | 0 | 194 | 0 | 0 |
| National Aeronautics and Space Admin .. | 11,873 | 0 | 6,329 | 0 | 5,544 | 0 | 0 | 0 | 0 |
| National Science Foundation | 16,782 | 81 | 373 | 0 | 15,374 | 0 | 954 | 0 | 0 |
| Montana, total | 64,821 | 33,553 | 6,346 | 0 | 21,239 | 0 | 1,677 | 0 | 2,006 |
| Department of Agriculture | 15,367 | 9,792 | 60 | 0 | 5,376 | 0 | 139 | 0 | 0 |
| Department of Commerce | 2,084 | 0 | 2,084 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Defense, research ² | 2,414 | 357 | 40 | 0 | 2,017 | 0 | 0 | 0 | 0 |
| Department of Defense, total development ^{3 4} | 6,969 | 5,735 | 1,142 | 0 | 92 | 0 | 0 | 0 | 0 |
| Department of Energy | 4,847 | 195 | 2,264 | 0 | 1,288 | 0 | 285 | 0 | 815 |
| Department of Health & Human Svcs | 17,503 | 12,400 | 50 | 0 | 3,667 | 0 | 1,205 | 0 | 181 |
| Department of the Interior | 5,541 | 5,074 | 80 | 0 | 387 | 0 | 0 | 0 | 0 |
| Department of Transportation | 1,010 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,010 |
| Environmental Protection Agency | 205 | 0 | 0 | 0 | 205 | 0 | 0 | 0 | 0 |
| National Aeronautics and Space Admin .. | 2,255 | 0 | 561 | 0 | 1,694 | 0 | 0 | 0 | 0 |
| National Science Foundation | 6,626 | 0 | 65 | 0 | 6,513 | 0 | 48 | 0 | 0 |
| Nebraska, total | 86,762 | 23,132 | 4,011 | 0 | 52,549 | 0 | 5,754 | 0 | 1,316 |
| Department of Agriculture | 25,797 | 17,206 | 0 | 0 | 8,491 | 0 | 100 | 0 | 0 |
| Department of Commerce | 30 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 0 |
| Department of Defense, research ² | 4,570 | 1,130 | 414 | 0 | 3,026 | 0 | 0 | 0 | 0 |
| Department of Defense, total development ^{3 4} | 5,636 | 1,562 | 2,262 | 0 | 1,308 | 0 | 504 | 0 | 0 |
| Department of Energy | 6,217 | 0 | 210 | 0 | 6,007 | 0 | 0 | 0 | 0 |
| Department of Health & Human Svcs | 27,554 | 0 | 932 | 0 | 20,950 | 0 | 5,150 | 0 | 522 |
| Department of the Interior | 3,809 | 3,234 | 0 | 0 | 527 | 0 | 0 | 0 | 48 |
| Department of Transportation | 746 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 746 |
| Environmental Protection Agency | 79 | 0 | 0 | 0 | 79 | 0 | 0 | 0 | 0 |
| National Aeronautics and Space Admin .. | 1,919 | 0 | 149 | 0 | 1,770 | 0 | 0 | 0 | 0 |
| National Science Foundation | 10,405 | 0 | 44 | 0 | 10,361 | 0 | 0 | 0 | 0 |

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

Table C-83. Federal obligations for research and development, by State, agency, and performer: fiscal year 1995

[Dollars in thousands]

| State and agency | Total | Intra-mural ¹ | Extramural | | | | | | State and local govts |
|---|------------------|--------------------------|------------------|----------------------------------|---------------------------|------------------------------------|------------------------------|--|-----------------------|
| | | | Industrial firms | FFRDCs admin by industrial firms | Universities and colleges | FFRDCs admin by univs and colleges | Other nonprofit institutions | FFRDCs admin by nonprofit institutions | |
| Nevada, total | 372,570 | 34,669 | 313,505 | 0 | 22,107 | 0 | 1,457 | 0 | 832 |
| Department of Agriculture | 3,160 | 880 | 0 | 0 | 2,244 | 0 | 36 | 0 | 0 |
| Department of Commerce | 728 | 0 | 16 | 0 | 712 | 0 | 0 | 0 | 0 |
| Department of Defense, research ² | 12,927 | 7,777 | 4,725 | 0 | 425 | 0 | 0 | 0 | 0 |
| Department of Defense, total development ^{3 4} | 6,684 | 4,653 | 1,953 | 0 | 78 | 0 | 0 | 0 | 0 |
| Department of Energy | 298,870 | 10 | 295,590 | 0 | 3,195 | 0 | 75 | 0 | 0 |
| Department of Health & Human Svcs | 6,245 | 0 | 0 | 0 | 4,656 | 0 | 1,346 | 0 | 243 |
| Department of the Interior | 11,738 | 10,420 | 0 | 0 | 1,318 | 0 | 0 | 0 | 0 |
| Department of Transportation | 10,106 | 0 | 9,268 | 0 | 249 | 0 | 0 | 0 | 589 |
| Environmental Protection Agency | 12,583 | 10,894 | 753 | 0 | 936 | 0 | 0 | 0 | 0 |
| National Aeronautics and Space Admin | 1,949 | 35 | 953 | 0 | 961 | 0 | 0 | 0 | 0 |
| National Science Foundation | 7,580 | 0 | 247 | 0 | 7,333 | 0 | 0 | 0 | 0 |
| New Hampshire, total | 213,647 | 30,902 | 121,212 | 0 | 59,179 | 0 | 1,722 | 0 | 632 |
| Department of Agriculture | 4,587 | 2,326 | 10 | 0 | 2,248 | 0 | 0 | 0 | 3 |
| Department of Commerce | 15,858 | 0 | 14,741 | 0 | 1,077 | 0 | 0 | 0 | 40 |
| Department of Defense, research ² | 33,545 | 15,400 | 15,040 | 0 | 3,105 | 0 | 0 | 0 | 0 |
| Department of Defense, total development ^{3 4} | 96,766 | 8,705 | 85,481 | 0 | 1,495 | 0 | 1,085 | 0 | 0 |
| Department of Energy | 1,335 | 0 | 0 | 0 | 1,281 | 0 | 54 | 0 | 0 |
| Department of Health & Human Svcs | 35,525 | 0 | 2,427 | 0 | 32,427 | 0 | 558 | 0 | 113 |
| Department of the Interior | 1,300 | 1,087 | 0 | 0 | 213 | 0 | 0 | 0 | 0 |
| Department of Transportation | 2,594 | 1,741 | 377 | 0 | 25 | 0 | 0 | 0 | 451 |
| Environmental Protection Agency | 500 | 0 | 0 | 0 | 500 | 0 | 0 | 0 | 0 |
| National Aeronautics and Space Admin | 12,422 | 132 | 2,908 | 0 | 9,332 | 0 | 25 | 0 | 25 |
| National Science Foundation | 9,215 | 1,511 | 228 | 0 | 7,476 | 0 | 0 | 0 | 0 |
| New Jersey, total | 1,325,902 | 343,667 | 630,884 | 0 | 215,220 | 115,284 | 11,332 | 4,130 | 5,385 |
| Department of Agriculture | 7,235 | 548 | 159 | 0 | 6,528 | 0 | 0 | 0 | 0 |
| Department of Commerce | 44,822 | 14,582 | 26,891 | 0 | 3,209 | 0 | 21 | 0 | 119 |
| Department of Defense, research ² | 136,820 | 69,591 | 37,511 | 0 | 29,505 | 0 | 213 | 0 | 0 |
| Department of Defense, total development ^{3 4} | 539,839 | 220,411 | 307,963 | 0 | 7,335 | 0 | 0 | 4,130 | 0 |
| Department of Energy | 157,547 | 0 | 18,254 | 0 | 23,825 | 115,178 | 290 | 0 | 0 |
| Department of Health & Human Svcs | 106,047 | 0 | 12,847 | 0 | 81,407 | 0 | 9,784 | 0 | 2,009 |
| Department of the Interior | 4,101 | 2,944 | 1,009 | 0 | 148 | 0 | 0 | 0 | 0 |
| Department of Transportation | 81,417 | 35,281 | 40,757 | 0 | 2,222 | 0 | 0 | 0 | 3,157 |
| Environmental Protection Agency | 8,228 | 0 | 313 | 0 | 7,700 | 0 | 115 | 0 | 100 |
| National Aeronautics and Space Admin | 189,885 | 235 | 182,017 | 0 | 7,145 | 0 | 488 | 0 | 0 |
| National Science Foundation | 49,961 | 75 | 3,163 | 0 | 46,196 | 106 | 421 | 0 | 0 |
| New Mexico, total | 1,987,076 | 481,047 | 226,496 | 635,692 | 92,493 | 534,882 | 6,218 | 7,417 | 2,831 |
| Department of Agriculture | 5,864 | 3,044 | 0 | 0 | 2,816 | 0 | 4 | 0 | 0 |
| Department of Commerce | 341 | 0 | 301 | 0 | 40 | 0 | 0 | 0 | 0 |
| Department of Defense, research ² | 116,404 | 54,386 | 21,922 | 11,034 | 19,117 | 9,875 | 70 | 0 | 0 |
| Department of Defense, total development ^{3 4} | 664,372 | 397,455 | 180,517 | 65,065 | 3,288 | 17,599 | 0 | 0 | 448 |
| Department of Energy | 1,066,387 | 0 | 6,249 | 558,818 | 3,006 | 489,485 | 2,181 | 6,648 | 0 |
| Department of Health & Human Svcs | 35,773 | 1,402 | 1,458 | 0 | 28,710 | 0 | 2,407 | 769 | 1,027 |
| Department of the Interior | 5,219 | 4,770 | 72 | 85 | 257 | 0 | 0 | 0 | 35 |
| Department of Transportation | 19,876 | 0 | 1,465 | 690 | 451 | 15,949 | 0 | 0 | 1,321 |
| Environmental Protection Agency | 2,304 | 0 | 1,535 | 0 | 460 | 0 | 309 | 0 | 0 |
| National Aeronautics and Space Admin | 56,080 | 19,350 | 11,806 | 0 | 23,906 | 812 | 206 | 0 | 0 |
| National Science Foundation | 14,456 | 640 | 1,171 | 0 | 10,442 | 1,162 | 1,041 | 0 | 0 |

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

Table C-83. Federal obligations for research and development, by State, agency, and performer: fiscal year 1995

[Dollars in thousands]

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| State and agency | Total | Intra- mural ¹ | Extramural | | | | | | State and local govts |
|--|-----------|------------------------------|---------------------|--|-----------------------------------|--|---|---|--------------------------------|
| | | | Industrial firms | FFRDCs admin by industrial firms | Univer- sities and colleges | FFRDCs admin by univs and colleges | Other nonprofit institu- tions | FFRDCs admin by non- profit institu- tions | |
| New York, total | 2,581,383 | 117,250 | 947,675 | 0 | 1,026,807 | 203,873 | 202,749 | 0 | 83,029 |
| Department of Agriculture | 31,828 | 14,650 | 80 | 0 | 15,584 | 0 | 1,514 | 0 | 0 |
| Department of Commerce | 21,434 | 181 | 18,221 | 0 | 2,814 | 50 | 41 | 0 | 127 |
| Department of Defense, research ² | 176,950 | 37,978 | 65,790 | 0 | 70,723 | 637 | 1,822 | 0 | 0 |
| Department of Defense, total development ^{3 4} | 597,056 | 44,668 | 525,519 | 0 | 24,461 | 2,051 | 357 | 0 | 0 |
| Department of Energy | 572,819 | 14,000 | 293,116 | 0 | 53,623 | 199,269 | 12,811 | 0 | 0 |
| Department of Health & Human Svcs | 910,325 | 485 | 14,433 | 0 | 647,377 | 0 | 170,992 | 0 | 77,038 |
| Department of the Interior | 5,335 | 4,972 | 64 | 0 | 274 | 0 | 25 | 0 | 0 |
| Department of Transportation | 15,059 | 0 | 5,723 | 0 | 2,743 | 65 | 1,324 | 0 | 5,204 |
| Environmental Protection Agency | 7,333 | 0 | 2,130 | 0 | 4,087 | 0 | 968 | 0 | 148 |
| National Aeronautics and Space Admin .. | 43,481 | 316 | 18,658 | 0 | 23,120 | 353 | 976 | 0 | 58 |
| National Science Foundation | 199,763 | 0 | 3,941 | 0 | 182,001 | 1,448 | 11,919 | 0 | 454 |
| North Carolina, total | 825,433 | 220,179 | 99,913 | 0 | 440,465 | 0 | 59,002 | 0 | 5,874 |
| Department of Agriculture | 32,586 | 16,903 | 80 | 0 | 15,574 | 0 | 19 | 0 | 10 |
| Department of Commerce | 18,415 | 5,387 | 6,796 | 0 | 5,680 | 0 | 74 | 0 | 478 |
| Department of Defense, research ² | 58,174 | 18,668 | 15,558 | 0 | 23,399 | 0 | 549 | 0 | 0 |
| Department of Defense, total development ^{3 4} | 78,574 | 34,594 | 32,479 | 0 | 9,819 | 0 | 1,682 | 0 | 0 |
| Department of Energy | 13,504 | 844 | 50 | 0 | 11,296 | 0 | 1,314 | 0 | 0 |
| Department of Health & Human Svcs | 434,731 | 68,595 | 15,207 | 0 | 310,668 | 0 | 37,036 | 0 | 3,225 |
| Department of the Interior | 3,645 | 3,265 | 95 | 0 | 285 | 0 | 0 | 0 | 0 |
| Department of Transportation | 6,418 | 0 | 1,654 | 0 | 2,438 | 0 | 250 | 0 | 2,076 |
| Environmental Protection Agency | 116,207 | 71,885 | 24,401 | 0 | 8,169 | 0 | 11,752 | 0 | 0 |
| National Aeronautics and Space Admin .. | 11,738 | 16 | 877 | 0 | 7,484 | 0 | 3,361 | 0 | 0 |
| National Science Foundation | 51,441 | 22 | 2,716 | 0 | 45,653 | 0 | 2,965 | 0 | 85 |
| North Dakota, total | 47,313 | 25,042 | 539 | 0 | 20,054 | 0 | 947 | 0 | 731 |
| Department of Agriculture | 25,321 | 19,372 | 80 | 0 | 5,869 | 0 | 0 | 0 | 0 |
| Department of Commerce | 289 | 0 | 9 | 0 | 280 | 0 | 0 | 0 | 0 |
| Department of Defense, research ² | 1,018 | 285 | 87 | 0 | 646 | 0 | 0 | 0 | 0 |
| Department of Defense, total development ^{3 4} | 337 | 34 | 74 | 0 | 229 | 0 | 0 | 0 | 0 |
| Department of Energy | 5,453 | 0 | 0 | 0 | 5,453 | 0 | 0 | 0 | 0 |
| Department of Health & Human Svcs | 2,947 | 0 | 0 | 0 | 2,147 | 0 | 660 | 0 | 140 |
| Department of the Interior | 5,445 | 5,351 | 16 | 0 | 78 | 0 | 0 | 0 | 0 |
| Department of Transportation | 1,145 | 0 | 7 | 0 | 260 | 0 | 287 | 0 | 591 |
| Environmental Protection Agency | 1,318 | 0 | 220 | 0 | 1,098 | 0 | 0 | 0 | 0 |
| National Aeronautics and Space Admin .. | 584 | 0 | 46 | 0 | 538 | 0 | 0 | 0 | 0 |
| National Science Foundation | 3,456 | 0 | 0 | 0 | 3,456 | 0 | 0 | 0 | 0 |
| Ohio, total | 1,811,413 | 599,044 | 810,049 | 0 | 326,720 | 0 | 71,914 | 0 | 3,686 |
| Department of Agriculture | 15,947 | 6,593 | 0 | 0 | 9,324 | 0 | 23 | 0 | 7 |
| Department of Commerce | 13,284 | 560 | 11,899 | 0 | 724 | 0 | 101 | 0 | 0 |
| Department of Defense, research ² | 310,473 | 169,909 | 87,960 | 0 | 47,777 | 0 | 4,827 | 0 | 0 |
| Department of Defense, total development ^{3 4} | 544,118 | 129,039 | 404,291 | 0 | 8,407 | 0 | 2,381 | 0 | 0 |
| Department of Energy | 47,590 | 0 | 40,358 | 0 | 7,163 | 0 | 28 | 0 | 41 |
| Department of Health & Human Svcs | 288,112 | 38,723 | 6,603 | 0 | 189,606 | 0 | 52,799 | 0 | 381 |
| Department of the Interior | 3,643 | 2,958 | 0 | 0 | 685 | 0 | 0 | 0 | 0 |
| Department of Transportation | 21,413 | 7,373 | 8,439 | 0 | 2,104 | 0 | 509 | 0 | 2,988 |
| Environmental Protection Agency | 58,993 | 43,139 | 8,220 | 0 | 5,409 | 0 | 1,992 | 0 | 233 |
| National Aeronautics and Space Admin .. | 470,914 | 200,750 | 241,328 | 0 | 19,626 | 0 | 9,174 | 0 | 36 |
| National Science Foundation | 36,926 | 0 | 951 | 0 | 35,895 | 0 | 80 | 0 | 0 |

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

Table C-83. Federal obligations for research and development, by State, agency, and performer: fiscal year 1995

[Dollars in thousands]

| State and agency | Total | Intra-mural ¹ | Extramural | | | | | | State and local govts |
|---|------------------|--------------------------|------------------|----------------------------------|---------------------------|------------------------------------|------------------------------|--|-----------------------|
| | | | Industrial firms | FFRDCs admin by industrial firms | Universities and colleges | FFRDCs admin by univs and colleges | Other nonprofit institutions | FFRDCs admin by nonprofit institutions | |
| Oklahoma, total | 159,395 | 45,104 | 55,518 | 0 | 47,519 | 0 | 9,289 | 0 | 1,965 |
| Department of Agriculture | 17,196 | 9,280 | 0 | 0 | 7,848 | 0 | 34 | 0 | 34 |
| Department of Commerce | 8,486 | 6,320 | 1,108 | 0 | 1,058 | 0 | 0 | 0 | 0 |
| Department of Defense, research ² | 5,558 | 2,241 | 225 | 0 | 3,092 | 0 | 0 | 0 | 0 |
| Department of Defense, total development ^{3 4} | 28,403 | 9,521 | 18,649 | 0 | 233 | 0 | 0 | 0 | 0 |
| Department of Energy | 37,972 | 1,833 | 32,009 | 0 | 4,130 | 0 | 0 | 0 | 0 |
| Department of Health & Human Svcs | 27,330 | 0 | 516 | 0 | 17,123 | 0 | 8,924 | 0 | 767 |
| Department of the Interior | 2,868 | 2,628 | 0 | 0 | 240 | 0 | 0 | 0 | 0 |
| Department of Transportation | 8,856 | 6,737 | 723 | 0 | 232 | 0 | 0 | 0 | 1,164 |
| Environmental Protection Agency | 8,880 | 6,207 | 2,288 | 0 | 385 | 0 | 0 | 0 | 0 |
| National Aeronautics and Space Admin | 1,132 | 337 | 0 | 0 | 760 | 0 | 35 | 0 | 0 |
| National Science Foundation | 12,714 | 0 | 0 | 0 | 12,418 | 0 | 296 | 0 | 0 |
| Oregon, total | 277,229 | 55,959 | 39,176 | 0 | 144,181 | 0 | 33,120 | 0 | 4,793 |
| Department of Agriculture | 37,438 | 21,277 | 0 | 0 | 15,933 | 0 | 190 | 0 | 38 |
| Department of Commerce | 13,681 | 9,197 | 2,493 | 0 | 1,933 | 0 | 0 | 0 | 58 |
| Department of Defense, research ² | 27,564 | 1,096 | 12,994 | 0 | 13,444 | 0 | 30 | 0 | 0 |
| Department of Defense, total development ^{3 4} | 11,325 | 370 | 8,869 | 0 | 2,086 | 0 | 0 | 0 | 0 |
| Department of Energy | 15,702 | 480 | 1,795 | 0 | 11,515 | 0 | 200 | 0 | 1,712 |
| Department of Health & Human Svcs | 101,921 | 0 | 6,879 | 0 | 62,181 | 0 | 31,559 | 0 | 1,302 |
| Department of the Interior | 13,529 | 13,321 | 19 | 0 | 189 | 0 | 0 | 0 | 0 |
| Department of Transportation | 2,128 | 0 | 0 | 0 | 995 | 0 | 0 | 0 | 1,133 |
| Environmental Protection Agency | 20,509 | 10,090 | 3,706 | 0 | 6,163 | 0 | 0 | 0 | 550 |
| National Aeronautics and Space Admin | 7,874 | 128 | 1,677 | 0 | 5,470 | 0 | 599 | 0 | 0 |
| National Science Foundation | 25,558 | 0 | 744 | 0 | 24,272 | 0 | 542 | 0 | 0 |
| Pennsylvania, total | 2,414,250 | 227,520 | 1,251,691 | 0 | 717,636 | 21,980 | 189,379 | 0 | 6,044 |
| Department of Agriculture | 39,353 | 29,389 | 80 | 0 | 9,857 | 0 | 20 | 0 | 7 |
| Department of Commerce | 13,774 | 414 | 12,592 | 0 | 350 | 0 | 370 | 0 | 48 |
| Department of Defense, research ² | 145,477 | 15,143 | 16,052 | 0 | 87,012 | 21,345 | 5,925 | 0 | 0 |
| Department of Defense, total development ^{3 4} | 999,974 | 110,775 | 811,771 | 0 | 25,247 | 635 | 51,546 | 0 | 0 |
| Department of Energy | 456,708 | 64,744 | 358,103 | 0 | 26,940 | 0 | 6,921 | 0 | 0 |
| Department of Health & Human Svcs | 568,929 | 20 | 10,719 | 0 | 453,136 | 0 | 104,530 | 0 | 524 |
| Department of the Interior | 6,057 | 5,085 | 397 | 0 | 547 | 0 | 28 | 0 | 0 |
| Department of Transportation | 14,483 | 0 | 5,680 | 0 | 1,989 | 0 | 1,350 | 0 | 5,464 |
| Environmental Protection Agency | 4,910 | 0 | 653 | 0 | 3,241 | 0 | 1,016 | 0 | 0 |
| National Aeronautics and Space Admin | 53,225 | 1,500 | 34,582 | 0 | 15,634 | 0 | 1,508 | 0 | 1 |
| National Science Foundation | 111,360 | 450 | 1,062 | 0 | 93,683 | 0 | 16,165 | 0 | 0 |
| Rhode Island, total | 515,425 | 254,302 | 179,292 | 0 | 62,738 | 0 | 16,767 | 0 | 2,326 |
| Department of Agriculture | 1,537 | 0 | 0 | 0 | 1,483 | 0 | 54 | 0 | 0 |
| Department of Commerce | 3,059 | 544 | 75 | 0 | 2,395 | 0 | 0 | 0 | 45 |
| Department of Defense, research ² | 21,765 | 10,471 | 272 | 0 | 10,899 | 0 | 123 | 0 | 0 |
| Department of Defense, total development ^{3 4} | 410,713 | 231,949 | 177,538 | 0 | 1,226 | 0 | 0 | 0 | 0 |
| Department of Energy | 2,283 | 0 | 0 | 0 | 2,268 | 0 | 15 | 0 | 0 |
| Department of Health & Human Svcs | 37,781 | 0 | 367 | 0 | 21,756 | 0 | 14,430 | 0 | 1,228 |
| Department of the Interior | 1,677 | 1,200 | 38 | 0 | 439 | 0 | 0 | 0 | 0 |
| Department of Transportation | 1,426 | 570 | 108 | 0 | 40 | 0 | 0 | 0 | 708 |
| Environmental Protection Agency | 10,362 | 9,273 | 364 | 0 | 725 | 0 | 0 | 0 | 0 |
| National Aeronautics and Space Admin | 4,338 | 295 | 523 | 0 | 3,050 | 0 | 470 | 0 | 0 |
| National Science Foundation | 20,484 | 0 | 7 | 0 | 18,457 | 0 | 1,675 | 0 | 345 |

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

Table C-83. Federal obligations for research and development, by State, agency, and performer: fiscal year 1995

[Dollars in thousands]

| State and agency | Total | Intra-mural ¹ | Extramural | | | | | | State and local govts |
|---|------------------|--------------------------|------------------|----------------------------------|---------------------------|------------------------------------|------------------------------|--|-----------------------|
| | | | Industrial firms | FFRDCs admin by industrial firms | Universities and colleges | FFRDCs admin by univs and colleges | Other nonprofit institutions | FFRDCs admin by nonprofit institutions | |
| South Carolina, total | 177,962 | 34,441 | 41,168 | 29,858 | 65,741 | 0 | 2,732 | 0 | 4,022 |
| Department of Agriculture | 15,236 | 8,766 | 0 | 0 | 6,470 | 0 | 0 | 0 | 0 |
| Department of Commerce | 40,099 | 12,424 | 23,731 | 0 | 3,441 | 0 | 350 | 0 | 153 |
| Department of Defense, research ² | 6,650 | 1,035 | 10 | 23 | 5,545 | 0 | 37 | 0 | 0 |
| Department of Defense, total development ^{3 4} | 28,337 | 9,492 | 16,030 | 0 | 1,415 | 0 | 1,400 | 0 | 0 |
| Department of Energy | 38,134 | 0 | 55 | 29,835 | 8,192 | 0 | 52 | 0 | 0 |
| Department of Health & Human Svcs | 33,776 | 50 | 1,016 | 0 | 29,450 | 0 | 655 | 0 | 2,605 |
| Department of the Interior | 2,784 | 2,674 | 10 | 0 | 100 | 0 | 0 | 0 | 0 |
| Department of Transportation | 1,431 | 0 | 0 | 0 | 373 | 0 | 0 | 0 | 1,058 |
| Environmental Protection Agency | 465 | 0 | 0 | 0 | 465 | 0 | 0 | 0 | 0 |
| National Aeronautics and Space Admin | 2,420 | 0 | 123 | 0 | 1,885 | 0 | 206 | 0 | 206 |
| National Science Foundation | 8,630 | 0 | 193 | 0 | 8,405 | 0 | 32 | 0 | 0 |
| South Dakota, total | 26,492 | 13,428 | 2,737 | 0 | 8,392 | 0 | 847 | 0 | 1,088 |
| Department of Agriculture | 5,518 | 2,495 | 0 | 0 | 3,023 | 0 | 0 | 0 | 0 |
| Department of Commerce | 10 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 |
| Department of Defense, research ² | 290 | 285 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Defense, total development ^{3 4} | 76 | 50 | 26 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Energy | 80 | 0 | 0 | 0 | 80 | 0 | 0 | 0 | 0 |
| Department of Health & Human Svcs | 2,745 | 562 | 335 | 0 | 581 | 0 | 847 | 0 | 420 |
| Department of the Interior | 5,838 | 3,549 | 2,051 | 0 | 238 | 0 | 0 | 0 | 0 |
| Department of Transportation | 668 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 668 |
| National Aeronautics and Space Admin | 7,760 | 6,487 | 255 | 0 | 1,018 | 0 | 0 | 0 | 0 |
| National Science Foundation | 3,507 | 0 | 65 | 0 | 3,442 | 0 | 0 | 0 | 0 |
| Tennessee, total | 581,956 | 62,100 | 34,700 | 278,132 | 167,951 | 16,940 | 19,875 | 0 | 2,258 |
| Department of Agriculture | 9,249 | 160 | 0 | 0 | 9,089 | 0 | 0 | 0 | 0 |
| Department of Commerce | 1,115 | 1,005 | 41 | 0 | 69 | 0 | 0 | 0 | 0 |
| Department of Defense, research ² | 20,279 | 5,799 | 1,964 | 1,631 | 10,846 | 39 | 0 | 0 | 0 |
| Department of Defense, total development ^{3 4} | 62,446 | 46,216 | 6,787 | 7,882 | 1,561 | 0 | 0 | 0 | 0 |
| Department of Energy | 299,627 | 503 | 11,058 | 267,663 | 6,073 | 14,330 | 0 | 0 | 0 |
| Department of Health & Human Svcs | 142,131 | 1,330 | 2,540 | 528 | 117,293 | 600 | 19,508 | 0 | 332 |
| Department of the Interior | 3,074 | 2,751 | 35 | 0 | 245 | 0 | 0 | 0 | 43 |
| Department of Transportation | 3,300 | 942 | 53 | 418 | 191 | 0 | 0 | 0 | 1,696 |
| Environmental Protection Agency | 1,101 | 0 | 208 | 0 | 893 | 0 | 0 | 0 | 0 |
| National Aeronautics and Space Admin | 23,667 | 3,394 | 11,156 | 0 | 6,736 | 1,919 | 367 | 0 | 95 |
| National Science Foundation | 15,967 | 0 | 858 | 10 | 14,955 | 52 | 0 | 0 | 92 |
| Texas, total | 4,062,175 | 537,508 | 2,701,709 | 0 | 649,159 | 0 | 163,001 | 860 | 9,938 |
| Department of Agriculture | 61,417 | 43,582 | 160 | 0 | 17,502 | 0 | 145 | 0 | 28 |
| Department of Commerce | 17,214 | 2,586 | 12,464 | 0 | 1,769 | 0 | 79 | 0 | 316 |
| Department of Defense, research ² | 130,131 | 52,178 | 29,924 | 0 | 45,063 | 0 | 2,966 | 0 | 0 |
| Department of Defense, total development ^{3 4} | 1,260,642 | 94,172 | 1,030,035 | 0 | 35,121 | 0 | 100,454 | 860 | 0 |
| Department of Energy | 69,130 | 0 | 40,103 | 0 | 28,155 | 0 | 872 | 0 | 0 |
| Department of Health & Human Svcs | 443,460 | 275 | 8,901 | 0 | 398,347 | 0 | 33,585 | 0 | 2,352 |
| Department of the Interior | 9,248 | 7,254 | 131 | 0 | 1,863 | 0 | 0 | 0 | 0 |
| Department of Transportation | 17,447 | 0 | 8,861 | 0 | 1,825 | 0 | 307 | 0 | 6,454 |
| Environmental Protection Agency | 16,939 | 0 | 7,350 | 0 | 8,442 | 0 | 1,015 | 0 | 132 |
| National Aeronautics and Space Admin | 1,956,953 | 337,461 | 1,562,001 | 0 | 34,312 | 0 | 23,179 | 0 | 0 |
| National Science Foundation | 79,594 | 0 | 1,779 | 0 | 76,760 | 0 | 399 | 0 | 656 |

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

Table C-83. Federal obligations for research and development, by State, agency, and performer: fiscal year 1995

[Dollars in thousands]

| State and agency | Total | Intra-mural ¹ | Extramural | | | | | | State and local govts |
|---|-----------|--------------------------|------------------|----------------------------------|---------------------------|------------------------------------|------------------------------|--|-----------------------|
| | | | Industrial firms | FFRDCs admin by industrial firms | Universities and colleges | FFRDCs admin by univs and colleges | Other nonprofit institutions | FFRDCs admin by nonprofit institutions | |
| Utah, total | 371,208 | 131,138 | 98,522 | 0 | 128,347 | 0 | 7,730 | 0 | 5,471 |
| Department of Agriculture | 13,369 | 7,901 | 0 | 0 | 5,466 | 0 | 0 | 0 | 2 |
| Department of Commerce | 4,409 | 0 | 3,963 | 0 | 180 | 0 | 0 | 0 | 266 |
| Department of Defense, research ² | 26,045 | 4,630 | 11,493 | 0 | 9,922 | 0 | 0 | 0 | 0 |
| Department of Defense, total development ^{3 4} | 200,889 | 113,167 | 75,132 | 0 | 12,590 | 0 | 0 | 0 | 0 |
| Department of Energy | 16,798 | 0 | 756 | 0 | 6,936 | 0 | 5,194 | 0 | 3,912 |
| Department of Health & Human Svcs | 72,831 | 0 | 4,231 | 0 | 65,836 | 0 | 2,379 | 0 | 385 |
| Department of the Interior | 5,621 | 5,233 | 91 | 0 | 297 | 0 | 0 | 0 | 0 |
| Department of Transportation | 1,417 | 0 | 34 | 0 | 477 | 0 | 0 | 0 | 906 |
| Environmental Protection Agency | 1,259 | 0 | 379 | 0 | 880 | 0 | 0 | 0 | 0 |
| National Aeronautics and Space Admin | 6,762 | 207 | 1,943 | 0 | 4,455 | 0 | 157 | 0 | 0 |
| National Science Foundation | 21,808 | 0 | 500 | 0 | 21,308 | 0 | 0 | 0 | 0 |
| Vermont, total | 53,590 | 4,702 | 13,358 | 0 | 33,514 | 0 | 1,413 | 0 | 603 |
| Department of Agriculture | 5,785 | 1,598 | 0 | 0 | 4,175 | 0 | 12 | 0 | 0 |
| Department of Commerce | 45 | 0 | 0 | 0 | 45 | 0 | 0 | 0 | 0 |
| Department of Defense, research ² | 2,418 | 689 | 597 | 0 | 1,132 | 0 | 0 | 0 | 0 |
| Department of Defense, total development ^{3 4} | 11,155 | 755 | 10,288 | 0 | 112 | 0 | 0 | 0 | 0 |
| Department of Energy | 534 | 0 | 0 | 0 | 534 | 0 | 0 | 0 | 0 |
| Department of Health & Human Svcs | 26,937 | 0 | 1,376 | 0 | 24,027 | 0 | 1,401 | 0 | 133 |
| Department of the Interior | 1,804 | 1,660 | 66 | 0 | 78 | 0 | 0 | 0 | 0 |
| Department of Transportation | 419 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 419 |
| Environmental Protection Agency | 51 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 51 |
| National Aeronautics and Space Admin | 663 | 0 | 574 | 0 | 89 | 0 | 0 | 0 | 0 |
| National Science Foundation | 3,779 | 0 | 457 | 0 | 3,322 | 0 | 0 | 0 | 0 |
| Virginia, total | 3,603,023 | 1,580,530 | 1,534,313 | 0 | 206,554 | 59,031 | 41,651 | 177,472 | 3,472 |
| Department of Agriculture | 12,129 | 787 | 0 | 0 | 10,074 | 0 | 1,177 | 0 | 91 |
| Department of Commerce | 36,758 | 5,384 | 27,404 | 0 | 3,801 | 0 | 50 | 0 | 119 |
| Department of Defense, research ² | 346,911 | 107,903 | 204,961 | 0 | 22,786 | 0 | 1,309 | 9,952 | 0 |
| Department of Defense, total development ^{3 4} | 2,202,645 | 1,136,286 | 892,538 | 0 | 9,006 | 0 | 6,647 | 158,168 | 0 |
| Department of Energy | 93,285 | 9,704 | 12,364 | 0 | 7,257 | 59,031 | 4,929 | 0 | 0 |
| Department of Health & Human Svcs | 146,354 | 1,306 | 36,964 | 0 | 98,639 | 0 | 8,209 | 0 | 1,236 |
| Department of the Interior | 51,152 | 40,663 | 9,873 | 0 | 567 | 0 | 49 | 0 | 0 |
| Department of Transportation | 55,657 | 9,592 | 32,991 | 0 | 1,728 | 0 | 250 | 9,088 | 2,008 |
| Environmental Protection Agency | 33,901 | 0 | 31,853 | 0 | 1,165 | 0 | 883 | 0 | 0 |
| National Aeronautics and Space Admin | 563,187 | 267,607 | 265,384 | 0 | 20,846 | 0 | 9,332 | 0 | 18 |
| National Science Foundation | 61,044 | 1,298 | 19,981 | 0 | 30,685 | 0 | 8,816 | 264 | 0 |
| Washington, total | 1,127,750 | 159,837 | 329,654 | 0 | 330,375 | 0 | 95,900 | 204,972 | 7,012 |
| Department of Agriculture | 36,622 | 21,057 | 0 | 0 | 15,386 | 0 | 0 | 0 | 179 |
| Department of Commerce | 58,453 | 54,119 | 1,975 | 0 | 2,212 | 0 | 0 | 0 | 147 |
| Department of Defense, research ² | 61,155 | 4,036 | 34,822 | 0 | 19,556 | 0 | 1,752 | 989 | 0 |
| Department of Defense, total development ^{3 4} | 285,175 | 66,291 | 199,512 | 0 | 17,105 | 0 | 578 | 1,689 | 0 |
| Department of Energy | 231,267 | 559 | 17,787 | 0 | 17,835 | 0 | 103 | 194,003 | 980 |
| Department of Health & Human Svcs | 308,384 | 17 | 8,540 | 0 | 198,756 | 0 | 90,090 | 7,088 | 3,893 |
| Department of the Interior | 14,880 | 12,570 | 47 | 0 | 2,263 | 0 | 0 | 0 | 0 |
| Department of Transportation | 4,378 | 0 | 943 | 0 | 733 | 0 | 118 | 1,203 | 1,381 |
| Environmental Protection Agency | 2,145 | 0 | 52 | 0 | 861 | 0 | 900 | 0 | 332 |
| National Aeronautics and Space Admin | 77,434 | 1,188 | 64,023 | 0 | 11,897 | 0 | 326 | 0 | 0 |
| National Science Foundation | 47,857 | 0 | 1,953 | 0 | 43,771 | 0 | 2,033 | 0 | 100 |

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

Table C-83. Federal obligations for research and development, by State, agency, and performer: fiscal year 1995

[Dollars in thousands]

| State and agency | Total | Intra-mural ¹ | Extramural | | | | | | State and local govts |
|---|----------------|--------------------------|------------------|----------------------------------|---------------------------|------------------------------------|------------------------------|--|-----------------------|
| | | | Industrial firms | FFRDCs admin by industrial firms | Universities and colleges | FFRDCs admin by univs and colleges | Other nonprofit institutions | FFRDCs admin by nonprofit institutions | |
| West Virginia, total | 296,347 | 139,595 | 83,116 | 0 | 35,132 | 29,597 | 5,999 | 0 | 2,908 |
| Department of Agriculture | 20,837 | 15,777 | 0 | 0 | 3,743 | 0 | 1,197 | 0 | 120 |
| Department of Commerce | 153 | 0 | 0 | 0 | 153 | 0 | 0 | 0 | 0 |
| Department of Defense, research ² | 1,725 | 285 | 7 | 0 | 1,433 | 0 | 0 | 0 | 0 |
| Department of Defense, total development ^{3 4} | 15,289 | 6,453 | 4,303 | 0 | 148 | 0 | 4,385 | 0 | 0 |
| Department of Energy | 134,360 | 58,324 | 70,674 | 0 | 5,362 | 0 | 0 | 0 | 0 |
| Department of Health & Human Svcs | 59,614 | 51,434 | 97 | 0 | 6,472 | 0 | 297 | 0 | 1,314 |
| Department of the Interior | 6,377 | 6,262 | 22 | 0 | 93 | 0 | 0 | 0 | 0 |
| Department of Transportation | 2,611 | 0 | 1,291 | 0 | 125 | 0 | 0 | 0 | 1,195 |
| Environmental Protection Agency | 10 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 |
| National Aeronautics and Space Admin .. | 22,831 | 1,060 | 6,722 | 0 | 14,939 | 0 | 110 | 0 | 0 |
| National Science Foundation | 32,540 | 0 | 0 | 0 | 2,664 | 29,597 | 0 | 0 | 279 |
| Wisconsin, total | 347,089 | 40,344 | 35,934 | 0 | 260,374 | 0 | 6,720 | 0 | 3,717 |
| Department of Agriculture | 34,643 | 23,843 | 404 | 0 | 10,351 | 0 | 10 | 0 | 35 |
| Department of Commerce | 5,144 | 625 | 2,381 | 0 | 2,138 | 0 | 0 | 0 | 0 |
| Department of Defense, research ² | 25,364 | 434 | 6,395 | 0 | 18,535 | 0 | 0 | 0 | 0 |
| Department of Defense, total development ^{3 4} | 5,581 | 537 | 2,608 | 0 | 2,436 | 0 | 0 | 0 | 0 |
| Department of Energy | 19,040 | 240 | 0 | 0 | 18,800 | 0 | 0 | 0 | 0 |
| Department of Health & Human Svcs | 161,351 | 0 | 1,797 | 0 | 150,985 | 0 | 6,623 | 0 | 1,946 |
| Department of the Interior | 12,607 | 12,246 | 0 | 0 | 292 | 0 | 0 | 0 | 69 |
| Department of Transportation | 5,587 | 2,419 | 515 | 0 | 1,091 | 0 | 0 | 0 | 1,562 |
| Environmental Protection Agency | 2,010 | 0 | 0 | 0 | 1,905 | 0 | 0 | 0 | 105 |
| National Aeronautics and Space Admin .. | 35,932 | 0 | 21,737 | 0 | 14,108 | 0 | 87 | 0 | 0 |
| National Science Foundation | 39,830 | 0 | 97 | 0 | 39,733 | 0 | 0 | 0 | 0 |
| Wyoming, total | 35,151 | 8,669 | 223 | 0 | 12,680 | 0 | 12,628 | 0 | 951 |
| Department of Agriculture | 6,556 | 4,603 | 0 | 0 | 1,935 | 0 | 18 | 0 | 0 |
| Department of Commerce | 57 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 57 |
| Department of Defense, research ² | 2,028 | 285 | 4 | 0 | 1,739 | 0 | 0 | 0 | 0 |
| Department of Defense, total development ^{3 4} | 126 | 42 | 9 | 0 | 75 | 0 | 0 | 0 | 0 |
| Department of Energy | 5,268 | 0 | 55 | 0 | 1,213 | 0 | 3,950 | 0 | 50 |
| Department of Health & Human Svcs | 1,097 | 0 | 0 | 0 | 815 | 0 | 50 | 0 | 232 |
| Department of the Interior | 4,089 | 3,739 | 0 | 0 | 350 | 0 | 0 | 0 | 0 |
| Department of Transportation | 9,222 | 0 | 0 | 0 | 0 | 0 | 8,610 | 0 | 612 |
| Environmental Protection Agency | 477 | 0 | 0 | 0 | 477 | 0 | 0 | 0 | 0 |
| National Aeronautics and Space Admin .. | 806 | 0 | 55 | 0 | 751 | 0 | 0 | 0 | 0 |
| National Science Foundation | 5,425 | 0 | 100 | 0 | 5,325 | 0 | 0 | 0 | 0 |
| Outlying areas, total | 165,665 | 96,041 | 684 | 0 | 59,266 | 7,669 | 186 | 0 | 1,819 |
| Department of Agriculture | 13,088 | 5,176 | 0 | 0 | 7,876 | 0 | 36 | 0 | 0 |
| Department of Commerce | 1,636 | 1,083 | 0 | 0 | 320 | 0 | 0 | 0 | 233 |
| Department of Defense, research ² | 733 | 0 | 322 | 0 | 411 | 0 | 0 | 0 | 0 |
| Department of Defense, total development ^{3 4} | 7,779 | 7,342 | 362 | 0 | 75 | 0 | 0 | 0 | 0 |
| Department of Energy | 32 | 0 | 0 | 0 | 32 | 0 | 0 | 0 | 0 |
| Department of Health & Human Svcs | 23,020 | 0 | 0 | 0 | 21,709 | 0 | 150 | 0 | 1,161 |
| Department of the Interior | 102,821 | 82,440 | 0 | 0 | 20,381 | 0 | 0 | 0 | 0 |
| Department of Transportation | 468 | 0 | 0 | 0 | 43 | 0 | 0 | 0 | 425 |
| Environmental Protection Agency | 165 | 0 | 0 | 0 | 165 | 0 | 0 | 0 | 0 |
| National Aeronautics and Space Admin .. | 3,513 | 0 | 0 | 0 | 3,513 | 0 | 0 | 0 | 0 |
| National Science Foundation | 12,410 | 0 | 0 | 0 | 4,741 | 7,669 | 0 | 0 | 0 |

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

Table C-83. Federal obligations for research and development, by State, agency, and performer: fiscal year 1995

[Dollars in thousands]

| State and agency | Total | Intra-mural ¹ | Extramural | | | | | | |
|---|----------------|--------------------------|------------------|----------------------------------|---------------------------|------------------------------------|------------------------------|--|-----------------------|
| | | | Industrial firms | FFRDCs admin by industrial firms | Universities and colleges | FFRDCs admin by univs and colleges | Other nonprofit institutions | FFRDCs admin by nonprofit institutions | State and local govts |
| Puerto Rico, total | 46,657 | 7,163 | 0 | 0 | 29,999 | 7,669 | 186 | 0 | 1,640 |
| Department of Agriculture | 9,316 | 5,176 | 0 | 0 | 4,104 | 0 | 36 | 0 | 0 |
| Department of Commerce | 400 | 0 | 0 | 0 | 320 | 0 | 0 | 0 | 80 |
| Department of Defense, research ² | 159 | 0 | 0 | 0 | 159 | 0 | 0 | 0 | 0 |
| Department of Energy | 32 | 0 | 0 | 0 | 32 | 0 | 0 | 0 | 0 |
| Department of Health & Human Svcs | 21,915 | 0 | 0 | 0 | 20,630 | 0 | 150 | 0 | 1,135 |
| Department of the Interior | 2,065 | 1,987 | 0 | 0 | 78 | 0 | 0 | 0 | 0 |
| Department of Transportation | 468 | 0 | 0 | 0 | 43 | 0 | 0 | 0 | 425 |
| Environmental Protection Agency | 165 | 0 | 0 | 0 | 165 | 0 | 0 | 0 | 0 |
| National Science Foundation | 12,137 | 0 | 0 | 0 | 4,468 | 7,669 | 0 | 0 | 0 |
| Other areas, total | 119,008 | 88,878 | 684 | 0 | 29,267 | 0 | 0 | 0 | 179 |
| Department of Agriculture | 3,772 | 0 | 0 | 0 | 3,772 | 0 | 0 | 0 | 0 |
| Department of Commerce | 1,236 | 1,083 | 0 | 0 | 0 | 0 | 0 | 0 | 153 |
| Department of Defense, research ² | 574 | 0 | 322 | 0 | 252 | 0 | 0 | 0 | 0 |
| Department of Defense, total development ^{3 4} | 7,779 | 7,342 | 362 | 0 | 75 | 0 | 0 | 0 | 0 |
| Department of Health & Human Svcs | 1,105 | 0 | 0 | 0 | 1,079 | 0 | 0 | 0 | 26 |
| Department of the Interior | 100,756 | 80,453 | 0 | 0 | 20,303 | 0 | 0 | 0 | 0 |
| National Aeronautics and Space Admin .. | 3,513 | 0 | 0 | 0 | 3,513 | 0 | 0 | 0 | 0 |
| National Science Foundation | 273 | 0 | 0 | 0 | 273 | 0 | 0 | 0 | 0 |
| Offices abroad, total | 48,019 | 18,265 | 24,911 | 0 | 1,210 | 0 | 3,012 | 0 | 621 |
| Department of Agriculture | 3,770 | 3,770 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Defense, research ² | 5,272 | 4,061 | 0 | 0 | 1,210 | 0 | 1 | 0 | 0 |
| Department of Defense, total development ^{3 4} | 36,145 | 8,234 | 24,911 | 0 | 0 | 0 | 3,000 | 0 | 0 |
| Department of Energy | 2,200 | 2,200 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Health & Human Svcs | 11 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 |
| National Aeronautics and Space Admin .. | 621 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 621 |

- 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 Not all Department of Defense (DoD) agencies with development obligations are able to categorize these obligations according to the advanced technology and major systems development breakdown. Therefore, total DoD development does not equal the sum of total DoD advanced technology development and total DoD major systems development.

NOTE: Only the following 10 agencies are required to report to this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Interior, Transportation, and Health and Human Services; 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 1995.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

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Table C-84. Federal obligations for R&D plant, by State and category of performer supported: fiscal year 1995

[Dollars in thousands]

| State | Total | Intra-mural ¹ | Extramural | | | | | | |
|----------------------------|-----------|--------------------------|------------------|----------------------------------|---------------------------|------------------------------------|------------------------------|--|-----------------------|
| | | | Industrial firms | FFRDCs admin by industrial firms | Universities and colleges | FFRDCs admin by univs and colleges | Other nonprofit institutions | FFRDCs admin by nonprofit institutions | State and local govts |
| Total | 2,215,583 | 469,356 | 696,468 | 95,143 | 321,986 | 543,888 | 25,594 | 62,623 | 525 |
| Alabama | 44,091 | 479 | 39,821 | 0 | 3,791 | 0 | 0 | 0 | 0 |
| Alaska | 1,361 | 69 | 0 | 0 | 1,292 | 0 | 0 | 0 | 0 |
| Arizona | 42,678 | 407 | 704 | 0 | 567 | 41,000 | 0 | 0 | 0 |
| Arkansas | 3,922 | 607 | 0 | 0 | 3,315 | 0 | 0 | 0 | 0 |
| California | 414,792 | 8,024 | 151,809 | 1,151 | 107,502 | 144,806 | 1,500 | 0 | 0 |
| Colorado | 31,232 | 2,030 | 1,018 | 0 | 9,532 | 7,982 | 3,537 | 7,133 | 0 |
| Connecticut | 5,178 | 389 | 0 | 0 | 4,264 | 0 | 0 | 0 | 525 |
| Delaware | 1,885 | 405 | 33 | 0 | 1,447 | 0 | 0 | 0 | 0 |
| District of Columbia | 3,042 | 1,963 | 494 | 0 | 201 | 0 | 384 | 0 | 0 |
| Florida | 41,505 | 3,616 | 36,106 | 0 | 1,783 | 0 | 0 | 0 | 0 |
| Georgia | 12,360 | 2,286 | 165 | 0 | 9,909 | 0 | 0 | 0 | 0 |
| Hawaii | 498 | 230 | 0 | 0 | 268 | 0 | 0 | 0 | 0 |
| Idaho | 8,871 | 1,334 | 5,800 | 1,192 | 545 | 0 | 0 | 0 | 0 |
| Illinois | 190,203 | 3,495 | 341 | 0 | 17,560 | 168,807 | 0 | 0 | 0 |
| Indiana | 4,783 | 332 | 5 | 0 | 4,446 | 0 | 0 | 0 | 0 |
| Iowa | 15,497 | 12,442 | 0 | 0 | 408 | 2,647 | 0 | 0 | 0 |
| Kansas | 1,189 | 362 | 530 | 0 | 297 | 0 | 0 | 0 | 0 |
| Kentucky | 4,714 | 9 | 23 | 0 | 4,682 | 0 | 0 | 0 | 0 |
| Louisiana | 21,552 | 3,334 | 16,976 | 0 | 1,242 | 0 | 0 | 0 | 0 |
| Maine | 735 | 9 | 0 | 0 | 89 | 0 | 637 | 0 | 0 |
| Maryland | 390,364 | 301,779 | 82,574 | 0 | 6,011 | 0 | 0 | 0 | 0 |
| Massachusetts | 23,102 | 1,442 | 84 | 0 | 15,515 | 0 | 6,061 | 0 | 0 |
| Michigan | 4,615 | 172 | 0 | 0 | 4,443 | 0 | 0 | 0 | 0 |
| Minnesota | 5,078 | 1,867 | 1,095 | 0 | 2,116 | 0 | 0 | 0 | 0 |
| Mississippi | 36,602 | 7,650 | 25,966 | 0 | 2,986 | 0 | 0 | 0 | 0 |
| Missouri | 4,564 | 12 | 2,634 | 0 | 1,184 | 0 | 734 | 0 | 0 |
| Montana | 4,920 | 2,316 | 0 | 0 | 2,604 | 0 | 0 | 0 | 0 |
| Nebraska | 2,317 | 1,749 | 17 | 0 | 551 | 0 | 0 | 0 | 0 |
| Nevada | 38,459 | 10 | 37,856 | 0 | 593 | 0 | 0 | 0 | 0 |
| New Hampshire | 19 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Jersey | 35,332 | 21,783 | 4,629 | 0 | 6,020 | 2,900 | 0 | 0 | 0 |
| New Mexico | 133,766 | 5,846 | 8,363 | 63,603 | 2,941 | 52,726 | 0 | 287 | 0 |
| New York | 159,094 | 5,137 | 14,148 | 0 | 25,802 | 109,621 | 4,386 | 0 | 0 |
| North Carolina | 25,785 | 18,037 | 2,129 | 0 | 5,619 | 0 | 0 | 0 | 0 |
| North Dakota | 4,859 | 879 | 0 | 0 | 3,980 | 0 | 0 | 0 | 0 |
| Ohio | 147,550 | 37,958 | 108,106 | 0 | 1,486 | 0 | 0 | 0 | 0 |
| Oklahoma | 2,800 | 826 | 314 | 0 | 1,660 | 0 | 0 | 0 | 0 |
| Oregon | 5,185 | 1,052 | 0 | 0 | 4,133 | 0 | 0 | 0 | 0 |
| Pennsylvania | 35,414 | 4,050 | 6,979 | 0 | 17,641 | 0 | 6,744 | 0 | 0 |
| Rhode Island | 7,342 | 9 | 0 | 0 | 7,333 | 0 | 0 | 0 | 0 |
| South Carolina | 2,717 | 373 | 771 | 190 | 1,383 | 0 | 0 | 0 | 0 |
| South Dakota | 4,326 | 84 | 4,242 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tennessee | 37,067 | 1,059 | 668 | 29,007 | 4,479 | 1,854 | 0 | 0 | 0 |
| Texas | 84,339 | 4,193 | 72,664 | 0 | 7,482 | 0 | 0 | 0 | 0 |
| Utah | 5,252 | 609 | 808 | 0 | 3,835 | 0 | 0 | 0 | 0 |
| Vermont | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Virginia | 81,199 | 3,086 | 64,027 | 0 | 730 | 11,545 | 1,611 | 200 | 0 |
| Washington | 64,319 | 1,172 | 397 | 0 | 7,747 | 0 | 0 | 55,003 | 0 |
| West Virginia | 5,424 | 1,111 | 3,917 | 0 | 396 | 0 | 0 | 0 | 0 |
| Wisconsin | 9,573 | 665 | 255 | 0 | 8,653 | 0 | 0 | 0 | 0 |
| Wyoming | 1,488 | 341 | 0 | 0 | 1,147 | 0 | 0 | 0 | 0 |
| Outlying areas | 1,351 | 975 | 0 | 0 | 376 | 0 | 0 | 0 | 0 |
| Puerto Rico | 273 | 160 | 0 | 0 | 113 | 0 | 0 | 0 | 0 |
| Other areas | 1,078 | 815 | 0 | 0 | 263 | 0 | 0 | 0 | 0 |
| Offices abroad | 1,264 | 1,264 | 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, Interior, Transportation, and Health and Human Services; 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 1995.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

**Table C-85. Federal obligations for R&D plant, by State and agency:
fiscal year 1995**

[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 | 2,215,583 | 143,372 | 77,703 | 65,244 | 745,069 | 255,705 | 6,666 | 28,779 | 4,764 | 598,700 | 289,581 |
| Alabama | 44,091 | 743 | 0 | 51 | 0 | 2,236 | 0 | 0 | 0 | 40,012 | 1,049 |
| Alaska | 1,361 | 60 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 1,292 |
| Arizona | 42,678 | 398 | 0 | 411 | 0 | 0 | 0 | 0 | 0 | 302 | 41,567 |
| Arkansas | 3,922 | 2,462 | 0 | 9 | 0 | 398 | 0 | 0 | 0 | 0 | 1,053 |
| California | 414,792 | 7,904 | 0 | 994 | 153,470 | 550 | 0 | 0 | 0 | 141,803 | 110,071 |
| Colorado | 31,232 | 1,656 | 1,367 | 27 | 7,541 | 0 | 0 | 3,537 | 0 | 192 | 16,912 |
| Connecticut | 5,178 | 551 | 0 | 389 | 1,203 | 0 | 0 | 525 | 0 | 0 | 2,510 |
| Delaware | 1,885 | 1,474 | 0 | 42 | 0 | 0 | 299 | 0 | 0 | 0 | 70 |
| District of Columbia | 3,042 | 1,133 | 0 | 95 | 299 | 545 | 0 | 0 | 382 | 3 | 585 |
| Florida | 41,505 | 3,199 | 0 | 1,093 | 0 | 0 | 0 | 0 | 382 | 35,048 | 1,783 |
| Georgia | 12,360 | 4,808 | 0 | 60 | 0 | 0 | 0 | 0 | 0 | 114 | 7,378 |
| Hawaii | 498 | 212 | 0 | 9 | 268 | 0 | 0 | 0 | 0 | 9 | 0 |
| Idaho | 8,871 | 1,325 | 0 | 9 | 6,992 | 0 | 0 | 0 | 0 | 0 | 545 |
| Illinois | 190,203 | 6,477 | 0 | 211 | 169,297 | 723 | 0 | 0 | 0 | 0 | 13,495 |
| Indiana | 4,783 | 614 | 0 | 9 | 562 | 0 | 0 | 0 | 0 | 5 | 3,593 |
| Iowa | 15,497 | 12,433 | 0 | 9 | 2,722 | 0 | 0 | 0 | 0 | 0 | 333 |
| Kansas | 1,189 | 353 | 0 | 9 | 75 | 0 | 0 | 0 | 0 | 530 | 222 |
| Kentucky | 4,714 | 870 | 0 | 9 | 0 | 2,119 | 0 | 0 | 0 | 23 | 1,693 |
| Louisiana | 21,552 | 1,819 | 0 | 28 | 68 | 1,575 | 0 | 0 | 0 | 16,957 | 1,105 |
| Maine | 735 | 0 | 0 | 9 | 0 | 637 | 0 | 0 | 0 | 0 | 89 |
| Maryland | 390,364 | 9,639 | 76,336 | 9,292 | 150 | 213,601 | 0 | 0 | 0 | 77,801 | 3,545 |
| Massachusetts | 23,102 | 6,171 | 0 | 28 | 5,599 | 6,043 | 0 | 0 | 0 | 65 | 5,196 |
| Michigan | 4,615 | 157 | 0 | 866 | 404 | 0 | 0 | 0 | 0 | 0 | 3,188 |
| Minnesota | 5,078 | 1,858 | 0 | 15 | 112 | 0 | 0 | 0 | 0 | 1,089 | 2,004 |
| Mississippi | 36,602 | 8,571 | 0 | 288 | 19 | 0 | 0 | 0 | 0 | 26,134 | 1,590 |
| Missouri | 4,564 | 737 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 2,631 | 1,184 |
| Montana | 4,920 | 2,793 | 0 | 9 | 0 | 2,118 | 0 | 0 | 0 | 0 | 0 |
| Nebraska | 2,317 | 1,740 | 0 | 26 | 0 | 0 | 0 | 0 | 0 | 0 | 551 |
| Nevada | 38,459 | 244 | 0 | 16 | 37,849 | 0 | 0 | 0 | 0 | 0 | 350 |
| New Hampshire | 19 | 0 | 0 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Jersey | 35,332 | 3,671 | 0 | 2,184 | 2,950 | 0 | 992 | 21,690 | 0 | 1,850 | 1,995 |
| New Mexico | 133,766 | 1,523 | 0 | 6,485 | 116,880 | 0 | 0 | 0 | 0 | 7,578 | 1,300 |
| New York | 159,094 | 8,555 | 0 | 72 | 126,611 | 3,704 | 0 | 0 | 0 | 0 | 20,152 |
| North Carolina | 25,785 | 2,743 | 0 | 67 | 313 | 17,861 | 0 | 0 | 2,000 | 87 | 2,714 |
| North Dakota | 4,859 | 4,435 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 415 |
| Ohio | 147,550 | 351 | 0 | 37,857 | 561 | 0 | 0 | 0 | 2,000 | 105,698 | 1,083 |
| Oklahoma | 2,800 | 1,005 | 0 | 9 | 490 | 0 | 0 | 0 | 0 | 0 | 1,296 |
| Oregon | 5,185 | 3,368 | 0 | 9 | 113 | 0 | 0 | 0 | 0 | 0 | 1,695 |
| Pennsylvania | 35,414 | 12,822 | 0 | 50 | 5,578 | 433 | 0 | 0 | 0 | 1,900 | 14,631 |
| Rhode Island | 7,342 | 6,055 | 0 | 9 | 25 | 0 | 0 | 0 | 0 | 0 | 1,253 |
| South Carolina | 2,717 | 364 | 0 | 9 | 291 | 0 | 0 | 0 | 0 | 771 | 1,282 |
| South Dakota | 4,326 | 75 | 0 | 37 | 0 | 0 | 4,214 | 0 | 0 | 0 | 0 |
| Tennessee | 37,067 | 2,380 | 0 | 9 | 30,996 | 0 | 0 | 0 | 0 | 1,583 | 2,099 |
| Texas | 84,339 | 3,657 | 0 | 789 | 221 | 0 | 0 | 0 | 0 | 72,984 | 6,688 |
| Utah | 5,252 | 533 | 0 | 1,081 | 50 | 662 | 0 | 0 | 0 | 178 | 2,748 |
| Vermont | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Virginia | 81,199 | 0 | 0 | 424 | 11,545 | 0 | 1,161 | 3,027 | 0 | 62,701 | 2,341 |
| Washington | 64,319 | 5,623 | 0 | 12 | 57,147 | 0 | 0 | 0 | 0 | 397 | 1,140 |
| West Virginia | 5,424 | 802 | 0 | 9 | 4,217 | 0 | 0 | 0 | 0 | 0 | 396 |
| Wisconsin | 9,573 | 3,334 | 0 | 9 | 451 | 2,500 | 0 | 0 | 0 | 255 | 3,024 |
| Wyoming | 1,488 | 1,479 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Outlying areas | 1,351 | 185 | 0 | 790 | 0 | 0 | 0 | 0 | 0 | 0 | 376 |
| Puerto Rico | 273 | 160 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 113 |
| Other areas | 1,078 | 25 | 0 | 790 | 0 | 0 | 0 | 0 | 0 | 0 | 263 |
| Offices abroad | 1,264 | 11 | 0 | 1,253 | 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, Interior, Transportation, and Health and Human Services; 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 1995.

KEY: EPA = Environmental Protection Agency
NASA = National Aeronautics & Space Administration

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-86. Federal obligations for total research and development to intramural performers for personnel costs, by agency: fiscal years 1995, 1996, and 1997

[In thousands of dollars and percentages]

| Agency and subdivision | 1995 | | | Preliminary | | | | | |
|---|-------------------|------------------|--------------------|-------------------|------------------|--------------------|-------------------|------------------|--------------------|
| | Total | Personnel costs | Per- cent of total | 1996 | | | 1997 | | |
| | | | | Total | Personnel costs | Per- cent of total | Total | Personnel costs | Per- cent of total |
| Total, all agencies | 17,342,745 | 8,192,141 | 47 | 16,897,048 | 8,107,554 | 48 | 16,403,688 | 8,093,057 | 49 |
| Departments: | | | | | | | | | |
| Department of Agriculture, total | 915,311 | 550,327 | 60 | 897,721 | 590,196 | 66 | 922,261 | 607,213 | 66 |
| Agricultural Marketing Service | 4,316 | 2,065 | 48 | 4,864 | 2,103 | 43 | 4,905 | 2,127 | 43 |
| Agricultural Research Service ¹ | 648,886 | 353,997 | 55 | 643,354 | 374,239 | 58 | 662,818 | 394,377 | 60 |
| Animal & Plant Hlth Inspection Svc | 17,530 | 12,797 | 73 | 18,231 | 13,309 | 73 | 19,065 | 13,917 | 73 |
| Cooperative State Research, Education, & Extension Service ² | 19,034 | 11,341 | 60 | 18,824 | 12,070 | 64 | 19,336 | 12,395 | 64 |
| Economic Research Service | 50,644 | 37,890 | 75 | 51,249 | 38,622 | 75 | 53,065 | 39,389 | 74 |
| Foreign Agricultural Service ³ | 343 | 343 | 100 | 1,067 | 1,067 | 100 | 1,067 | 1,067 | 100 |
| Forest Service | 167,674 | 126,000 | 75 | 152,168 | 141,960 | 93 | 153,954 | 137,000 | 89 |
| Grain Inspection Packers & Stockyards Administration ⁴ | 1,484 | 1,306 | 88 | 2,797 | 2,461 | 88 | 2,830 | 2,490 | 88 |
| Nat'l Agricultural Statistics Svc | 3,844 | 3,042 | 79 | 3,767 | 2,965 | 79 | 3,821 | 3,051 | 80 |
| Rural Business-Cooperative Svc ⁵ | 1,556 | 1,546 | 99 | 1,400 | 1,400 | 100 | 1,400 | 1,400 | 100 |
| Department of Commerce, total | 664,764 | 432,355 | 65 | 688,100 | 445,710 | 65 | 712,320 | 465,243 | 65 |
| Bureau of the Census | 4,856 | 3,465 | 71 | 7,074 | 4,423 | 63 | 7,074 | 4,423 | 63 |
| Economic Development Admin | 10 | 5 | 50 | 10 | 5 | 50 | 30 | 15 | 50 |
| National Inst of Standards & Tech | 211,048 | 126,728 | 60 | 219,873 | 136,130 | 62 | 225,611 | 142,012 | 63 |
| Nat'l Oceanic & Atmospheric Admin | 442,466 | 295,773 | 67 | 456,663 | 300,672 | 66 | 474,860 | 314,048 | 66 |
| National Telecommunications & Information Administration | 6,383 | 6,383 | 100 | 4,479 | 4,479 | 100 | 4,745 | 4,745 | 100 |
| Office of the Secretary | 1 | 1 | 100 | 1 | 1 | 100 | 0 | 0 | 0 |
| Department of Defense, total | 8,906,942 | 3,753,794 | 42 | 8,655,216 | 3,661,803 | 42 | 7,918,751 | 3,439,730 | 43 |
| Department of the Army | 2,409,830 | 1,237,925 | 51 | 2,251,886 | 1,332,577 | 59 | 2,276,797 | 1,296,459 | 57 |
| Department of the Navy | 3,355,575 | 1,414,088 | 42 | 3,193,588 | 1,362,004 | 43 | 2,850,081 | 1,231,974 | 43 |
| Department of the Air Force | 1,113,802 | 377,875 | 34 | 1,036,966 | 353,456 | 34 | 1,013,488 | 368,488 | 36 |
| Defense Agencies, total | 1,825,216 | 721,746 | 40 | 1,965,296 | 611,468 | 31 | 1,550,713 | 540,289 | 35 |
| Ballistic Missile Defense Organization | 440,855 | 137,451 | 31 | 537,666 | 127,077 | 24 | 456,947 | 130,122 | 28 |
| Defense Advanced Research Projects Agency ⁶ | 386,284 | 281,724 | 73 | 341,748 | 248,009 | 73 | 310,692 | 223,674 | 72 |
| Defense Information Systems Agency | 18,471 | 9,878 | 53 | 15,711 | 10,233 | 65 | 17,591 | 10,856 | 62 |
| Defense Logistics Agency | 16,812 | 2,239 | 13 | 24,631 | 3,402 | 14 | 28,677 | 2,402 | 8 |
| Defense Mapping Agency | 4,672 | 2,658 | 57 | 3,569 | 1,999 | 56 | 9,592 | 5,372 | 56 |
| Defense Nuclear Agency | 55,862 | 5,585 | 10 | 43,551 | 4,354 | 10 | 47,860 | 4,785 | 10 |
| Joint Staff | 3,656 | 1 | * | 5,263 | 1 | * | 35,286 | 1 | * |
| Special Operations Command | 73,841 | 7,605 | 10 | 43,135 | 4,538 | 11 | 33,701 | 3,668 | 11 |
| Washington Headquarters Svcs ⁷ | 824,763 | 274,605 | 33 | 950,022 | 211,855 | 22 | 610,367 | 159,409 | 26 |
| Operational Test & Evaluation, Director | 7,937 | 214 | 3 | 8,721 | 310 | 4 | 7,687 | 320 | 4 |
| Test & Evaluation, Deputy Under Secretary of Defense | 194,582 | 1,946 | 1 | 198,759 | 1,988 | 1 | 219,985 | 2,200 | 1 |

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

Table C-86. Federal obligations for total research and development to intramural performers for personnel costs, by agency: fiscal years 1995, 1996, and 1997

[In thousands of dollars and percentages]

| Agency and subdivision | 1995 | | | Preliminary | | | | | |
|--|-----------|-----------------|-------------------|-------------|-----------------|-------------------|-----------|-----------------|-------------------|
| | Total | Personnel costs | Per-cent of total | 1996 | | | 1997 | | |
| | | | | Total | Personnel costs | Per-cent of total | Total | Personnel costs | Per-cent of total |
| Department of Education | 9,164 | 6,405 | 70 | 8,865 | 6,337 | 71 | 9,316 | 6,491 | 70 |
| Department of Energy | 490,665 | 114,880 | 23 | 416,157 | 105,222 | 25 | 507,294 | 106,469 | 21 |
| Dept of Health & Human Svcs, total | 2,484,935 | 1,180,354 | 48 | 2,239,555 | 1,201,705 | 54 | 2,362,142 | 1,264,551 | 54 |
| Administration on Aging | 854 | 577 | 68 | 854 | 577 | 68 | 341 | 231 | 68 |
| Admin for Children & Families | 240 | 240 | 100 | 180 | 180 | 100 | 380 | 380 | 100 |
| Agcy for Hlth Care Policy & Rsch | 26,577 | 12,710 | 48 | 17,109 | 10,245 | 60 | 25,715 | 13,583 | 53 |
| Centers for Disease Control & Prevention | 275,498 | 234,173 | 85 | 281,294 | 239,100 | 85 | 319,294 | 271,400 | 85 |
| Food & Drug Administration | 153,932 | 138,539 | 90 | 153,932 | 138,539 | 90 | 153,932 | 138,539 | 90 |
| Health Care Financing Admin | 64 | 10 | 16 | 40 | 10 | 25 | 51 | 10 | 20 |
| Health Resources & Services Admin | 2,832 | 2,385 | 84 | 2,427 | 1,977 | 81 | 2,091 | 1,987 | 95 |
| National Institutes of Health ⁸ | 2,010,548 | 779,639 | 39 | 1,780,171 | 808,129 | 45 | 1,856,788 | 835,671 | 45 |
| Office of the Assistant Secretary for Health | 29 | 29 | 100 | 48 | 48 | 100 | 50 | 50 | 100 |
| Office of the Secretary | 3,750 | 1,441 | 38 | 3,500 | 2,900 | 83 | 3,500 | 2,700 | 77 |
| Social Security Administration ⁹ | 10,611 | 10,611 | 100 | NA | NA | NA | NA | NA | NA |
| Dept of Housing & Urban Dvlpmt | 25,682 | 19,000 | 74 | 18,976 | 14,000 | 74 | 25,815 | 20,000 | 77 |
| Department of the Interior, total | 491,881 | 294,920 | 60 | 492,786 | 269,300 | 55 | 508,342 | 287,326 | 57 |
| Bureau of Reclamation | 7,075 | 3,519 | 50 | 5,566 | 2,907 | 52 | 7,566 | 3,868 | 51 |
| Geological Survey ¹⁰ | 326,263 | 189,976 | 58 | 470,364 | 255,794 | 54 | 483,381 | 272,305 | 56 |
| Minerals Management Service | 5,943 | 3,422 | 58 | 7,731 | 3,797 | 49 | 7,809 | 3,901 | 50 |
| National Biological Service ^{11 10} | 143,483 | 91,248 | 64 | NA | NA | NA | NA | NA | NA |
| National Park Service ¹¹ | 9,111 | 6,750 | 74 | 9,119 | 6,797 | 75 | 9,586 | 7,252 | 76 |
| Office of the Secretary | 6 | 5 | 83 | 6 | 5 | 83 | 0 | 0 | 0 |
| Department of Justice, total | 17,422 | 6,642 | 38 | 42,210 | 6,658 | 16 | 43,755 | 6,757 | 15 |
| Bureau of Prisons | 2,600 | 2,000 | 77 | 2,400 | 1,900 | 79 | 2,400 | 1,900 | 79 |
| Drug Enforcement Administration | 50 | 50 | 100 | 145 | 145 | 100 | 100 | 100 | 100 |
| Federal Bureau of Investigation | 10,937 | 4,228 | 39 | 36,784 | 4,272 | 12 | 34,829 | 4,317 | 12 |
| Immigration & Naturalization Svc | 40 | 40 | 100 | 40 | 40 | 100 | 40 | 40 | 100 |
| Office of Justice Programs | 3,795 | 324 | 9 | 2,841 | 301 | 11 | 6,386 | 400 | 6 |
| Department of Labor, total | 11,624 | 7,378 | 63 | 14,076 | 5,532 | 39 | 20,888 | 5,724 | 27 |
| Bureau of Labor Statistics | 3,779 | 1,446 | 38 | 8,200 | 2,144 | 26 | 12,600 | 2,203 | 17 |
| Employment & Training Admin | 2,744 | 1,356 | 49 | 1,550 | 1,425 | 92 | 1,459 | 1,459 | 100 |
| Occupational Safety & Hlth Admin | 1,286 | 1,286 | 100 | 935 | 935 | 100 | 1,029 | 1,029 | 100 |
| Office of the Secretary | 2,794 | 2,269 | 81 | 2,365 | 2 | * | 4,769 | 2 | * |
| Pension Benefit Guaranty Corp | 233 | 233 | 100 | 238 | 238 | 100 | 243 | 243 | 100 |
| Pension & Welfare Benefits Admin | 788 | 788 | 100 | 788 | 788 | 100 | 788 | 788 | 100 |
| Department of State | 402 | 402 | 100 | 405 | 405 | 100 | 405 | 405 | 100 |

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

Table C-86. Federal obligations for total research and development to intramural performers for personnel costs, by agency: fiscal years 1995, 1996, and 1997

[In thousands of dollars and percentages]

| Agency and subdivision | 1995 | | | Preliminary | | | | | |
|---|-----------|-----------------|--------------------|-------------|-----------------|--------------------|-----------|-----------------|--------------------|
| | Total | Personnel costs | Per- cent of total | 1996 | | | 1997 | | |
| | | | | Total | Personnel costs | Per- cent of total | Total | Personnel costs | Per- cent of total |
| Department of Transportation, total | 235,545 | 85,993 | 37 | 191,070 | 86,643 | 45 | 239,351 | 88,075 | 37 |
| Coast Guard | 14,000 | 5,471 | 39 | 14,226 | 5,550 | 39 | 14,040 | 5,458 | 39 |
| Federal Aviation Administration | 122,432 | 64,804 | 53 | 87,808 | 66,512 | 76 | 95,019 | 66,546 | 70 |
| Federal Highway Administration | 51,989 | 101 | * | 47,638 | 473 | 1 | 81,708 | 569 | 1 |
| Federal Railroad Administration | 15,602 | 1,962 | 13 | 12,468 | 2,015 | 16 | 15,101 | 1,971 | 13 |
| Federal Transit Administration | 4,232 | 2,212 | 52 | 2,634 | 2,164 | 82 | 2,630 | 2,130 | 81 |
| Maritime Administration | 723 | 487 | 67 | 0 | 0 | 0 | 454 | 242 | 53 |
| National Highway Traffic Safety Administration | 20,865 | 6,885 | 33 | 19,209 | 6,339 | 33 | 23,681 | 7,815 | 33 |
| Office of the Secretary | 2,901 | 2,616 | 90 | 2,897 | 2,025 | 70 | 2,808 | 1,768 | 63 |
| Research & Special Programs Admin .. | 2,801 | 1,455 | 52 | 4,190 | 1,565 | 37 | 3,910 | 1,576 | 40 |
| Department of the Treasury, total | 35,175 | 24,597 | 70 | 40,347 | 28,337 | 70 | 44,585 | 33,940 | 76 |
| Bureau of Engraving & Printing | 1,616 | 131 | 8 | 2,049 | 216 | 11 | 1,952 | 200 | 10 |
| Internal Revenue Service | 31,186 | 22,228 | 71 | 35,585 | 25,546 | 72 | 39,796 | 31,050 | 78 |
| Office of Thrift Supervision | 550 | 415 | 75 | 546 | 408 | 75 | 583 | 436 | 75 |
| United States Customs Service | 1,540 | 1,540 | 100 | 1,860 | 1,860 | 100 | 1,870 | 1,870 | 100 |
| United States Mint | 42 | 42 | 100 | 43 | 43 | 100 | 89 | 89 | 100 |
| United States Secret Service ^{1,2} | 241 | 241 | 100 | 264 | 264 | 100 | 295 | 295 | 100 |
| Department of Veterans Affairs | 235,360 | 155,337 | 66 | 274,347 | 181,069 | 66 | 256,000 | 168,960 | 66 |
| Other agencies: | | | | | | | | | |
| Advisory Commission on Intergovernmental Relations | 1,413 | 893 | 63 | 1,402 | 850 | 61 | 0 | 0 | 0 |
| Appalachian Regional Commission | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Consumer Product Safety Commission ... | 367 | 175 | 48 | 30 | 30 | 100 | 0 | 0 | 0 |
| Environmental Protection Agency | 224,639 | 224,639 | 100 | 186,185 | 186,185 | 100 | 236,633 | 236,633 | 100 |
| Federal Communications Commission ... | 2,268 | 2,268 | 100 | 2,819 | 2,819 | 100 | 2,749 | 2,749 | 100 |
| Federal Trade Commission | 564 | 395 | 70 | 981 | 697 | 71 | 1,034 | 724 | 70 |
| International Development Cooperation Agency, total | 61,948 | 46,331 | 75 | 36,567 | 27,863 | 76 | 21,249 | 15,981 | 75 |
| Agency for Internat'l Dvlpmt | 61,948 | 46,331 | 75 | 36,567 | 27,863 | 76 | 21,249 | 15,981 | 75 |
| Library of Congress | 10,151 | 7,643 | 75 | 8,320 | 8,319 | 100 | 9,116 | 8,255 | 91 |
| National Aeronautics & Space Admin | 2,253,736 | 1,138,195 | 51 | 2,403,417 | 1,130,233 | 47 | 2,301,038 | 1,189,246 | 52 |
| National Archives & Records Admin | 120 | 120 | 100 | 120 | 120 | 100 | 120 | 120 | 100 |
| National Science Foundation | 17,343 | 12,140 | 70 | 20,061 | 14,043 | 70 | 18,942 | 13,259 | 70 |
| Nuclear Regulatory Commission | 15,463 | 11,549 | 75 | 13,872 | 10,968 | 79 | 13,760 | 11,271 | 82 |
| Smithsonian Institution | 124,000 | 80,600 | 65 | 125,400 | 81,510 | 65 | 136,800 | 88,920 | 65 |
| Social Security Administration ⁹ | NA | NA | NA | 1,656 | 1,656 | 100 | 1,075 | 1,075 | 100 |
| Tennessee Valley Authority | 93,070 | 27,934 | 30 | 103,352 | 31,876 | 31 | 77,000 | 16,608 | 22 |

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

Table C-86. Federal obligations for total research and development to intramural performers for personnel costs, by agency: fiscal years 1995, 1996, and 1997

[In thousands of dollars and percentages]

| Agency and subdivision | 1995 | | | Preliminary | | | | | |
|--|--------|-----------------|--------------------|-------------|-----------------|--------------------|--------|-----------------|--------------------|
| | Total | Personnel costs | Per- cent of total | 1996 | | | 1997 | | |
| | | | | Total | Personnel costs | Per- cent of total | Total | Personnel costs | Per- cent of total |
| US Arms Control & Disarmament Agcy ... | 250 | 50 | 20 | 90 | 18 | 20 | 200 | 40 | 20 |
| United States Information Agency | 289 | 5 | 2 | 150 | 5 | 3 | 136 | 5 | 4 |
| US Internat'l Trade Commission | 12,152 | 6,720 | 55 | 12,695 | 7,345 | 58 | 12,511 | 7,187 | 57 |

- 1 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 2 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.
- 3 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.
- 4 The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.
- 5 This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.
- 6 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.
- 7 Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
- 8 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.
- 9 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.
- 10 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.
- 11 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.
- 12 The United States Secret Service was formerly listed as the Office of Protective Research.

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.

Increases in personnel costs are due to more complete reporting according to the National Science Foundation's definition of R&D, and not to actual increases in personnel costs.

Because of rounding, detail may not add to totals.

KEY: * = Percentage less than .05%

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-87. Federal obligations for total basic research to intramural performers for personnel costs, by agency: fiscal years 1995, 1996, and 1997

[In thousands of dollars and percentages]

| Agency and subdivision | 1995 | | | Preliminary | | | | | |
|--|-----------|-----------------|-------------------|-------------|-----------------|-------------------|-----------|-----------------|-------------------|
| | Total | Personnel costs | Per-cent of total | 1996 | | | 1997 | | |
| | | | | Total | Personnel costs | Per-cent of total | Total | Personnel costs | Per-cent of total |
| Total, all agencies | 2,712,918 | 1,247,974 | 46 | 2,413,879 | 1,244,215 | 52 | 2,667,782 | 1,290,812 | 48 |
| Departments: | | | | | | | | | |
| Department of Agriculture, total | 388,227 | 222,281 | 57 | 383,246 | 233,506 | 61 | 395,074 | 245,377 | 62 |
| Agricultural Research Service ¹ | 350,399 | 190,722 | 54 | 347,410 | 202,088 | 58 | 357,921 | 212,963 | 60 |
| Cooperative State Research, Education, & Extension Service ² | 8,269 | 5,047 | 61 | 8,175 | 5,371 | 66 | 8,988 | 5,962 | 66 |
| Economic Research Service | 5,065 | 3,789 | 75 | 5,125 | 3,862 | 75 | 5,307 | 3,939 | 74 |
| Foreign Agricultural Service ³ | 257 | 257 | 100 | 978 | 978 | 100 | 978 | 978 | 100 |
| Forest Service | 22,915 | 21,420 | 93 | 20,279 | 20,200 | 100 | 20,583 | 20,500 | 100 |
| Nat'l Agricultural Statistics Svc | 1,322 | 1,046 | 79 | 1,279 | 1,007 | 79 | 1,297 | 1,035 | 80 |
| Department of Commerce, total | 34,607 | 18,520 | 54 | 33,101 | 20,116 | 61 | 34,186 | 20,981 | 61 |
| Bureau of the Census | 312 | 212 | 68 | 307 | 236 | 77 | 307 | 236 | 77 |
| National Inst of Standards & Tech | 34,295 | 18,308 | 53 | 32,794 | 19,880 | 61 | 33,879 | 20,745 | 61 |
| Department of Defense, total | 320,441 | 144,629 | 45 | 272,544 | 125,607 | 46 | 292,703 | 134,322 | 46 |
| Department of the Army | 127,471 | 53,556 | 42 | 82,346 | 43,955 | 53 | 95,141 | 48,679 | 51 |
| Department of the Navy | 139,031 | 61,062 | 44 | 123,705 | 54,331 | 44 | 127,969 | 56,204 | 44 |
| Department of the Air Force | 31,235 | 22,531 | 72 | 55,444 | 22,146 | 40 | 57,971 | 22,699 | 39 |
| Defense Agencies, total | 22,704 | 7,480 | 33 | 11,049 | 5,175 | 47 | 11,622 | 6,740 | 58 |
| Ballistic Missile Defense Organization | 210 | 210 | 100 | 250 | 250 | 100 | 255 | 255 | 100 |
| Defense Advanced Research Projects Agency ⁴ | 5,961 | 4,471 | 75 | 3,061 | 2,296 | 75 | 5,012 | 3,759 | 75 |
| Washington Headquarters Svcs ⁵ | 16,533 | 2,799 | 17 | 7,738 | 2,629 | 34 | 6,355 | 2,726 | 43 |
| Department of Education | 197 | 129 | 65 | 149 | 99 | 66 | 155 | 102 | 66 |
| Department of Energy | 36,855 | 6,012 | 16 | 59,089 | 5,355 | 9 | 68,568 | 5,097 | 7 |
| Dept of Health & Human Svcs, total | 1,193,839 | 437,598 | 37 | 907,801 | 453,457 | 50 | 1,142,062 | 468,766 | 41 |
| Administration on Aging | 0 | 0 | 0 | 171 | 115 | 67 | 0 | 0 | 0 |
| Health Resources & Services Admin | 1,010 | 1,000 | 99 | 800 | 790 | 99 | 800 | 790 | 99 |
| National Institutes of Health ⁶ | 1,192,829 | 436,598 | 37 | 906,830 | 452,552 | 50 | 1,141,262 | 467,976 | 41 |
| Department of the Interior, total | 50,216 | 30,542 | 61 | 49,533 | 26,800 | 54 | 51,076 | 28,662 | 56 |
| Geological Survey ⁷ | 37,649 | 21,836 | 58 | 49,370 | 26,660 | 54 | 50,861 | 28,482 | 56 |
| National Biological Service ^{8 7} | 12,255 | 8,456 | 69 | NA | NA | NA | NA | NA | NA |
| National Park Service ⁸ | 312 | 250 | 80 | 163 | 140 | 86 | 215 | 180 | 84 |
| Department of Justice, total | 45 | 45 | 100 | 41 | 10 | 24 | 800 | 116 | 14 |
| Office of Justice Programs | 45 | 45 | 100 | 41 | 10 | 24 | 800 | 116 | 14 |
| Department of Labor, total | 2,279 | 246 | 11 | 6,400 | 704 | 11 | 11,300 | 1,243 | 11 |
| Bureau of Labor Statistics | 2,279 | 246 | 11 | 6,400 | 704 | 11 | 11,300 | 1,243 | 11 |
| Department of State | 67 | 67 | 100 | 70 | 70 | 100 | 70 | 70 | 100 |

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

Table C-87. Federal obligations for total basic research to intramural performers for personnel costs, by agency: fiscal years 1995, 1996, and 1997

[In thousands of dollars and percentages]

| Agency and subdivision | 1995 | | | Preliminary | | | | | |
|---|---------|-----------------|--------------------|-------------|-----------------|--------------------|---------|-----------------|--------------------|
| | Total | Personnel costs | Per- cent of total | 1996 | | | 1997 | | |
| | | | | Total | Personnel costs | Per- cent of total | Total | Personnel costs | Per- cent of total |
| Department of Transportation, total | 1 | 1 | 100 | 8 | 1 | 13 | 13 | 1 | 8 |
| Federal Highway Administration | 1 | 1 | 100 | 8 | 1 | 13 | 13 | 1 | 8 |
| Department of the Treasury, total | 41 | 6 | 15 | 53 | 5 | 9 | 29 | 3 | 10 |
| Bureau of Engraving & Printing | 41 | 6 | 15 | 53 | 5 | 9 | 29 | 3 | 10 |
| Department of Veterans Affairs | 12,390 | 8,177 | 66 | 14,372 | 9,486 | 66 | 13,654 | 9,012 | 66 |
| Other agencies: | | | | | | | | | |
| Environmental Protection Agency | 28,632 | 28,632 | 100 | 26,847 | 26,847 | 100 | 30,582 | 30,582 | 100 |
| International Development Cooperation | | | | | | | | | |
| Agency, total | 365 | 273 | 75 | 1,118 | 838 | 75 | 604 | 458 | 76 |
| Agency for Internat'l Dvlpmt | 365 | 273 | 75 | 1,118 | 838 | 75 | 604 | 458 | 76 |
| Library of Congress | 512 | 386 | 75 | 442 | 441 | 100 | 458 | 417 | 91 |
| National Aeronautics & Space Admin | 494,548 | 252,679 | 51 | 502,309 | 238,479 | 47 | 471,238 | 243,795 | 52 |
| National Science Foundation | 16,666 | 11,667 | 70 | 19,566 | 13,692 | 70 | 18,410 | 12,888 | 70 |
| Smithsonian Institution | 124,000 | 80,600 | 65 | 125,400 | 81,510 | 65 | 136,800 | 88,920 | 65 |
| Tennessee Valley Authority | 8,990 | 5,484 | 61 | 11,790 | 7,192 | 61 | 0 | 0 | 0 |

- 1 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 2 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.
- 3 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.
- 4 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.
- 5 Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
- 6 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.
- 7 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.
- 8 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.

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.

Increases in personnel costs are due to more complete reporting according to the National Science Foundation's definition of R&D, and not to actual increases in personnel costs.

Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-88. Federal obligations for total applied research to intramural performers for personnel costs, by agency: fiscal years 1995, 1996, and 1997

[In thousands of dollars and percentages]

| Agency and subdivision | 1995 | | | Preliminary | | | | | |
|---|-----------|-----------------|-------------------|-------------|-----------------|-------------------|-----------|-----------------|-------------------|
| | Total | Personnel costs | Per-cent of total | 1996 | | | 1997 | | |
| | | | | Total | Personnel costs | Per-cent of total | Total | Personnel costs | Per-cent of total |
| Total, all agencies | 5,074,929 | 2,918,759 | 58 | 4,990,398 | 2,917,303 | 58 | 5,028,332 | 3,026,684 | 60 |
| Departments: | | | | | | | | | |
| Department of Agriculture, total | 451,221 | 282,862 | 63 | 438,808 | 308,823 | 70 | 449,070 | 311,897 | 69 |
| Agricultural Marketing Service | 3,699 | 1,713 | 46 | 4,237 | 1,745 | 41 | 4,271 | 1,765 | 41 |
| Agricultural Research Service ¹ | 246,576 | 135,020 | 55 | 244,475 | 142,211 | 58 | 251,872 | 149,864 | 60 |
| Cooperative State Research, Education, & Extension Service ² | 10,765 | 6,294 | 58 | 10,649 | 6,699 | 63 | 10,348 | 6,433 | 62 |
| Economic Research Service | 45,579 | 34,101 | 75 | 46,124 | 34,760 | 75 | 47,758 | 35,450 | 74 |
| Foreign Agricultural Service ³ | 86 | 86 | 100 | 89 | 89 | 100 | 89 | 89 | 100 |
| Forest Service | 138,954 | 100,800 | 73 | 126,549 | 117,500 | 93 | 127,978 | 112,390 | 88 |
| Grain Inspection Packers & Stockyards Administration ⁴ | 1,484 | 1,306 | 88 | 2,797 | 2,461 | 88 | 2,830 | 2,490 | 88 |
| Nat'l Agricultural Statistics Svc | 2,522 | 1,996 | 79 | 2,488 | 1,958 | 79 | 2,524 | 2,016 | 80 |
| Rural Business-Cooperative Svc ⁵ | 1,556 | 1,546 | 99 | 1,400 | 1,400 | 100 | 1,400 | 1,400 | 100 |
| Department of Commerce, total | 558,301 | 369,312 | 66 | 582,374 | 380,956 | 65 | 604,814 | 399,687 | 66 |
| Bureau of the Census | 2,618 | 1,846 | 71 | 2,564 | 2,025 | 79 | 2,564 | 2,025 | 79 |
| Economic Development Admin | 10 | 5 | 50 | 10 | 5 | 50 | 30 | 15 | 50 |
| National Inst of Standards & Tech | 154,672 | 95,321 | 62 | 163,961 | 102,802 | 63 | 167,620 | 107,256 | 64 |
| Nat'l Oceanic & Atmospheric Admin | 394,617 | 265,756 | 67 | 411,359 | 271,644 | 66 | 429,855 | 285,646 | 66 |
| National Telecommunications & Information Administration | 6,383 | 6,383 | 100 | 4,479 | 4,479 | 100 | 4,745 | 4,745 | 100 |
| Office of the Secretary | 1 | 1 | 100 | 1 | 1 | 100 | 0 | 0 | 0 |
| Department of Defense, total | 1,243,191 | 684,680 | 55 | 1,129,487 | 653,377 | 58 | 1,073,274 | 640,792 | 60 |
| Department of the Army | 415,590 | 255,656 | 62 | 315,074 | 225,657 | 72 | 318,834 | 223,062 | 70 |
| Department of the Navy | 241,854 | 140,203 | 58 | 278,490 | 161,441 | 58 | 228,816 | 132,645 | 58 |
| Department of the Air Force | 359,088 | 211,596 | 59 | 371,220 | 211,629 | 57 | 367,665 | 229,870 | 63 |
| Defense Agencies, total | 226,659 | 77,225 | 34 | 164,703 | 54,650 | 33 | 157,959 | 55,215 | 35 |
| Ballistic Missile Defense Organization | 14,980 | 58 | * | 11,834 | 2,871 | 24 | 15,971 | 2,934 | 18 |
| Defense Advanced Research Projects Agency ⁶ | 54,191 | 40,643 | 75 | 41,670 | 31,253 | 75 | 43,940 | 32,955 | 75 |
| Defense Information Systems Agency | 1,717 | 1 | * | 1,455 | 1 | * | 1,849 | 1 | * |
| Defense Logistics Agency | 7,062 | 1 | * | 7,981 | 1 | * | 7,785 | 1 | * |
| Defense Nuclear Agency | 47,118 | 4,711 | 10 | 35,962 | 3,596 | 10 | 41,405 | 4,140 | 10 |
| Special Operations Command | 22,883 | 644 | 3 | 12,491 | 352 | 3 | 8,627 | 243 | 3 |
| Washington Headquarters Svcs ⁷ | 78,708 | 31,167 | 40 | 53,310 | 16,576 | 31 | 38,382 | 14,941 | 39 |

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

Table C-88. Federal obligations for total applied research to intramural performers for personnel costs, by agency: fiscal years 1995, 1996, and 1997

[In thousands of dollars and percentages]

| Agency and subdivision | 1995 | | | Preliminary | | | | | |
|--|-----------|-----------------|-------------------|-------------|-----------------|-------------------|-----------|-----------------|-------------------|
| | Total | Personnel costs | Per-cent of total | 1996 | | | 1997 | | |
| | | | | Total | Personnel costs | Per-cent of total | Total | Personnel costs | Per-cent of total |
| Department of Education | 6,947 | 4,771 | 69 | 6,479 | 4,558 | 70 | 6,808 | 4,664 | 69 |
| Department of Energy | 193,835 | 39,046 | 20 | 135,259 | 33,431 | 25 | 183,374 | 35,443 | 19 |
| Dept of Health & Human Svcs, total | 1,051,103 | 621,812 | 59 | 1,091,584 | 628,399 | 58 | 1,046,659 | 671,481 | 64 |
| Administration on Aging | 171 | 115 | 67 | 0 | 0 | 0 | 0 | 0 | 0 |
| Admin for Children & Families | 224 | 224 | 100 | 166 | 166 | 100 | 351 | 351 | 100 |
| Agcy for Hlth Care Policy & Rsch | 15,290 | 1,423 | 9 | 10,923 | 4,059 | 37 | 18,715 | 6,583 | 35 |
| Centers for Disease Control & Prevention | 275,498 | 234,173 | 85 | 281,294 | 239,100 | 85 | 319,294 | 271,400 | 85 |
| Food & Drug Administration | 153,932 | 138,539 | 90 | 153,932 | 138,539 | 90 | 153,932 | 138,539 | 90 |
| Health Care Financing Admin | 64 | 10 | 16 | 40 | 10 | 25 | 51 | 10 | 20 |
| Health Resources & Services Admin | 1,472 | 1,384 | 94 | 1,277 | 1,186 | 93 | 1,291 | 1,197 | 93 |
| National Institutes of Health ⁸ | 590,091 | 233,892 | 40 | 640,452 | 242,439 | 38 | 549,525 | 250,701 | 46 |
| Office of the Secretary | 3,750 | 1,441 | 38 | 3,500 | 2,900 | 83 | 3,500 | 2,700 | 77 |
| Social Security Administration ⁹ | 10,611 | 10,611 | 100 | NA | NA | NA | NA | NA | NA |
| Dept of Housing & Urban Dvlpmt | 7,401 | 5,000 | 68 | 8,502 | 6,000 | 71 | 11,612 | 9,000 | 78 |
| Department of the Interior, total | 423,487 | 253,085 | 60 | 428,652 | 233,183 | 54 | 441,233 | 248,678 | 56 |
| Bureau of Reclamation | 5,082 | 3,049 | 60 | 4,058 | 2,435 | 60 | 5,655 | 3,393 | 60 |
| Geological Survey ¹⁰ | 284,367 | 164,958 | 58 | 407,907 | 220,294 | 54 | 418,398 | 234,312 | 56 |
| Minerals Management Service | 5,943 | 3,422 | 58 | 7,731 | 3,797 | 49 | 7,809 | 3,901 | 50 |
| National Biological Service ^{11 10} | 119,296 | 75,156 | 63 | NA | NA | NA | NA | NA | NA |
| National Park Service ¹¹ | 8,799 | 6,500 | 74 | 8,956 | 6,657 | 74 | 9,371 | 7,072 | 75 |
| Department of Justice, total | 2,923 | 1,817 | 62 | 3,285 | 1,762 | 54 | 5,076 | 1,770 | 35 |
| Bureau of Prisons | 2,068 | 1,600 | 77 | 1,900 | 1,500 | 79 | 1,900 | 1,500 | 79 |
| Drug Enforcement Administration | 0 | 0 | 0 | 45 | 45 | 100 | 50 | 50 | 100 |
| Immigration & Naturalization Svc | 40 | 40 | 100 | 40 | 40 | 100 | 40 | 40 | 100 |
| Office of Justice Programs | 815 | 177 | 22 | 1,300 | 177 | 14 | 3,086 | 180 | 6 |
| Department of Labor, total | 6,712 | 5,843 | 87 | 6,344 | 3,977 | 63 | 5,770 | 3,513 | 61 |
| Bureau of Labor Statistics | 1,500 | 1,200 | 80 | 1,800 | 1,440 | 80 | 1,300 | 960 | 74 |
| Employment & Training Admin | 1,144 | 650 | 57 | 850 | 760 | 89 | 681 | 681 | 100 |
| Occupational Safety & Hlth Admin | 1,286 | 1,286 | 100 | 935 | 935 | 100 | 1,029 | 1,029 | 100 |
| Office of the Secretary | 1,942 | 1,867 | 96 | 1,918 | 1 | * | 1,918 | 1 | * |
| Pension Benefit Guaranty Corp | 52 | 52 | 100 | 53 | 53 | 100 | 54 | 54 | 100 |
| Pension & Welfare Benefits Admin | 788 | 788 | 100 | 788 | 788 | 100 | 788 | 788 | 100 |
| Department of State | 335 | 335 | 100 | 335 | 335 | 100 | 335 | 335 | 100 |

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

Table C-88. Federal obligations for total applied research to intramural performers for personnel costs, by agency: fiscal years 1995, 1996, and 1997

[In thousands of dollars and percentages]

| Agency and subdivision | 1995 | | | Preliminary | | | | | |
|---|---------|-----------------|-------------------|-------------|-----------------|-------------------|---------|-----------------|-------------------|
| | Total | Personnel costs | Per-cent of total | 1996 | | | 1997 | | |
| | | | | Total | Personnel costs | Per-cent of total | Total | Personnel costs | Per-cent of total |
| Department of Transportation, total | 133,863 | 29,796 | 22 | 113,600 | 32,718 | 29 | 147,964 | 35,440 | 24 |
| Coast Guard | 3,360 | 991 | 29 | 3,383 | 998 | 30 | 3,370 | 973 | 29 |
| Federal Aviation Administration | 42,444 | 17,700 | 42 | 31,819 | 21,053 | 66 | 35,608 | 22,029 | 62 |
| Federal Highway Administration | 50,744 | 75 | * | 46,406 | 461 | 1 | 65,662 | 561 | 1 |
| Federal Railroad Administration | 12,702 | 1,722 | 14 | 9,106 | 1,722 | 19 | 14,451 | 1,678 | 12 |
| Federal Transit Administration | 1,002 | 842 | 84 | 1,115 | 815 | 73 | 1,102 | 802 | 73 |
| Maritime Administration | 723 | 487 | 67 | 0 | 0 | 0 | 454 | 242 | 53 |
| National Highway Traffic Safety Administration | 20,865 | 6,885 | 33 | 19,209 | 6,339 | 33 | 23,681 | 7,815 | 33 |
| Office of the Secretary | 90 | 90 | 100 | 0 | 0 | 0 | 0 | 0 | 0 |
| Research & Special Programs Admin .. | 1,933 | 1,004 | 52 | 2,562 | 1,330 | 52 | 3,636 | 1,340 | 37 |
| Department of the Treasury, total | 29,215 | 21,351 | 73 | 34,116 | 24,636 | 72 | 38,341 | 30,148 | 79 |
| Bureau of Engraving & Printing | 1,099 | 92 | 8 | 1,107 | 122 | 11 | 1,095 | 114 | 10 |
| Internal Revenue Service | 27,285 | 20,563 | 75 | 32,139 | 23,782 | 74 | 36,298 | 29,233 | 81 |
| Office of Thrift Supervision | 550 | 415 | 75 | 546 | 408 | 75 | 583 | 436 | 75 |
| United States Customs Service | 40 | 40 | 100 | 60 | 60 | 100 | 70 | 70 | 100 |
| United States Secret Service ¹² | 241 | 241 | 100 | 264 | 264 | 100 | 295 | 295 | 100 |
| Department of Veterans Affairs | 205,416 | 135,574 | 66 | 238,591 | 157,470 | 66 | 221,670 | 146,302 | 66 |
| Other agencies: | | | | | | | | | |
| Advisory Commission on Intergovernmental Relations | 1,413 | 893 | 63 | 1,402 | 850 | 61 | 0 | 0 | 0 |
| Appalachian Regional Commission | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Environmental Protection Agency | 134,954 | 134,954 | 100 | 116,595 | 116,595 | 100 | 136,639 | 136,639 | 100 |
| Federal Communications Commission | 2,268 | 2,268 | 100 | 2,819 | 2,819 | 100 | 2,749 | 2,749 | 100 |
| Federal Trade Commission | 564 | 395 | 70 | 981 | 697 | 71 | 1,034 | 724 | 70 |
| International Development Cooperation Agency, total | 56,781 | 42,450 | 75 | 33,197 | 25,346 | 76 | 18,969 | 14,269 | 75 |
| Agency for Internat'l Dvlpmt | 56,781 | 42,450 | 75 | 33,197 | 25,346 | 76 | 18,969 | 14,269 | 75 |
| Library of Congress | 1,594 | 1,158 | 73 | 1,385 | 1,385 | 100 | 1,428 | 1,251 | 88 |
| National Aeronautics & Space Admin | 516,974 | 257,232 | 50 | 568,085 | 273,516 | 48 | 588,897 | 308,015 | 52 |
| National Archives & Records Admin | 120 | 120 | 100 | 120 | 120 | 100 | 120 | 120 | 100 |
| National Science Foundation | 677 | 473 | 70 | 495 | 351 | 71 | 532 | 371 | 70 |
| Nuclear Regulatory Commission | 15,463 | 11,549 | 75 | 13,872 | 10,968 | 79 | 13,760 | 11,271 | 82 |
| Social Security Administration ⁹ | NA | NA | NA | 1,656 | 1,656 | 100 | 1,075 | 1,075 | 100 |
| Tennessee Valley Authority | 17,380 | 5,108 | 29 | 19,340 | 5,907 | 31 | 14,182 | 3,718 | 26 |

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

Table C-88. Federal obligations for total applied research to intramural performers for personnel costs, by agency: fiscal years 1995, 1996, and 1997

[In thousands of dollars and percentages]

| Agency and subdivision | 1995 | | | Preliminary | | | | | |
|--|--------|-----------------|-------------------|-------------|-----------------|-------------------|--------|-----------------|-------------------|
| | Total | Personnel costs | Per-cent of total | 1996 | | | 1997 | | |
| | | | | Total | Personnel costs | Per-cent of total | Total | Personnel costs | Per-cent of total |
| US Arms Control & Disarmament Agcy ... | 250 | 50 | 20 | 90 | 18 | 20 | 200 | 40 | 20 |
| United States Information Agency | 289 | 5 | 2 | 150 | 5 | 3 | 136 | 5 | 4 |
| US Internat'l Trade Commission | 12,152 | 6,720 | 55 | 12,695 | 7,345 | 58 | 12,511 | 7,187 | 57 |

- 1 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 2 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.
- 3 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.
- 4 The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.
- 5 This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.
- 6 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.
- 7 Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
- 8 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.
- 9 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.
- 10 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.
- 11 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.
- 12 The United States Secret Service was formerly listed as the Office of Protective Research.

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.

Increases in personnel costs are due to more complete reporting according to the National Science Foundation's definition of R&D, and not to actual increases in personnel costs.

Because of rounding, detail may not add to totals.

KEY: * = Percentage less than .05%

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-89. Federal obligations for total development to intramural performers for personnel costs, by agency: fiscal years 1995, 1996, and 1997

[In thousands of dollars and percentages]

| Agency and subdivision | 1995 | | | Preliminary | | | | | |
|--|-----------|-----------------|--------------------|-------------|-----------------|--------------------|-----------|-----------------|--------------------|
| | Total | Personnel costs | Per- cent of total | 1996 | | | 1997 | | |
| | | | | Total | Personnel costs | Per- cent of total | Total | Personnel costs | Per- cent of total |
| Total, all agencies | 9,554,898 | 4,025,408 | 42 | 9,492,771 | 3,946,036 | 42 | 8,707,574 | 3,775,561 | 43 |
| Departments: | | | | | | | | | |
| Department of Agriculture, total | 75,863 | 45,184 | 60 | 75,667 | 47,867 | 63 | 78,117 | 49,939 | 64 |
| Agricultural Marketing Service | 617 | 352 | 57 | 627 | 358 | 57 | 634 | 362 | 57 |
| Agricultural Research Service ¹ | 51,911 | 28,255 | 54 | 51,469 | 29,940 | 58 | 53,025 | 31,550 | 60 |
| Animal & Plant Hlth Inspection Svc | 17,530 | 12,797 | 73 | 18,231 | 13,309 | 73 | 19,065 | 13,917 | 73 |
| Forest Service | 5,805 | 3,780 | 65 | 5,340 | 4,260 | 80 | 5,393 | 4,110 | 76 |
| Department of Commerce, total | 71,856 | 44,523 | 62 | 72,625 | 44,638 | 61 | 73,320 | 44,575 | 61 |
| Bureau of the Census | 1,926 | 1,407 | 73 | 4,203 | 2,162 | 51 | 4,203 | 2,162 | 51 |
| National Inst of Standards & Tech | 22,081 | 13,099 | 59 | 23,118 | 13,448 | 58 | 24,112 | 14,011 | 58 |
| Nat'l Oceanic & Atmospheric Admin | 47,849 | 30,017 | 63 | 45,304 | 29,028 | 64 | 45,005 | 28,402 | 63 |
| Department of Defense, total ² | 7,343,310 | 2,924,485 | 40 | 7,253,185 | 2,882,819 | 40 | 6,552,774 | 2,664,616 | 41 |
| Department of the Army | 1,866,769 | 928,713 | 50 | 1,854,466 | 1,062,965 | 57 | 1,862,822 | 1,024,718 | 55 |
| Department of the Navy | 2,974,690 | 1,212,823 | 41 | 2,791,393 | 1,146,232 | 41 | 2,493,296 | 1,043,125 | 42 |
| Department of the Air Force | 723,479 | 143,748 | 20 | 610,302 | 119,681 | 20 | 587,852 | 115,919 | 20 |
| Defense Agencies, total | 1,575,853 | 637,041 | 40 | 1,789,544 | 551,643 | 31 | 1,381,132 | 478,334 | 35 |
| Ballistic Missile Defense Organization | 425,665 | 137,183 | 32 | 525,582 | 123,956 | 24 | 440,721 | 126,933 | 29 |
| Defense Advanced Research Projects Agency ³ | 326,132 | 236,610 | 73 | 297,017 | 214,460 | 72 | 261,740 | 186,960 | 71 |
| Defense Information Systems Agency | 16,754 | 9,877 | 59 | 14,256 | 10,232 | 72 | 15,742 | 10,855 | 69 |
| Defense Logistics Agency | 9,750 | 2,238 | 23 | 16,650 | 3,401 | 20 | 20,892 | 2,401 | 11 |
| Defense Mapping Agency | 4,672 | 2,658 | 57 | 3,569 | 1,999 | 56 | 9,592 | 5,372 | 56 |
| Defense Nuclear Agency | 8,744 | 874 | 10 | 7,589 | 758 | 10 | 6,455 | 645 | 10 |
| Joint Staff | 3,656 | 1 | * | 5,263 | 1 | * | 35,286 | 1 | * |
| Special Operations Command | 50,958 | 6,961 | 14 | 30,644 | 4,186 | 14 | 25,074 | 3,425 | 14 |
| Washington Headquarters Svcs ⁴ | 729,522 | 240,639 | 33 | 888,974 | 192,650 | 22 | 565,630 | 141,742 | 25 |
| Operational Test & Evaluation, Director | 7,937 | 214 | 3 | 8,721 | 310 | 4 | 7,687 | 320 | 4 |
| Test & Evaluation, Deputy Under Secretary of Defense | 194,582 | 1,946 | 1 | 198,759 | 1,988 | 1 | 219,985 | 2,200 | 1 |
| Department of Defense, total advanced technology (at) ² | 1,504,690 | 679,258 | 45 | 1,510,673 | 629,942 | 42 | 1,159,366 | 466,600 | 40 |
| Department of the Army (at) | 369,952 | 212,952 | 58 | 323,063 | 229,617 | 71 | 242,190 | 126,888 | 52 |
| Department of the Navy (at) | 176,220 | 64,743 | 37 | 215,306 | 79,103 | 37 | 169,611 | 62,315 | 37 |
| Department of the Air Force (at) | 158,681 | 40,120 | 25 | 125,895 | 26,882 | 21 | 132,857 | 30,480 | 23 |
| Defense Agencies, total (at) | 799,837 | 361,443 | 45 | 846,409 | 294,340 | 35 | 614,708 | 246,917 | 40 |
| Ballistic Missile Defense Organization (at) | 72,141 | 24,956 | 35 | 106,594 | 19,780 | 19 | 76,371 | 17,889 | 23 |
| Defense Advanced Research Projects Agency (at) ³ | 291,399 | 218,549 | 75 | 260,919 | 195,689 | 75 | 221,117 | 165,837 | 75 |
| Defense Logistics Agency (at) | 6,765 | 117 | 2 | 13,967 | 1,001 | 7 | 18,162 | 1 | * |
| Defense Nuclear Agency (at) | 8,744 | 874 | 10 | 7,589 | 758 | 10 | 6,455 | 645 | 10 |
| Joint Staff (at) | 3,656 | 1 | * | 5,263 | 1 | * | 35,286 | 1 | * |
| Special Operations Command (at) | 19,365 | 2,645 | 14 | 12,870 | 1,758 | 14 | 10,531 | 1,438 | 14 |
| Washington Headquarters Services (at) ⁴ | 397,767 | 114,301 | 29 | 439,207 | 75,353 | 17 | 246,786 | 61,106 | 25 |

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

Table C-89. Federal obligations for total development to intramural performers for personnel costs, by agency: fiscal years 1995, 1996, and 1997

[In thousands of dollars and percentages]

| Agency and subdivision | 1995 | | | Preliminary | | | | | |
|--|-----------|-----------------|--------------------|-------------|-----------------|--------------------|-----------|-----------------|--------------------|
| | Total | Personnel costs | Per- cent of total | 1996 | | | 1997 | | |
| | | | | Total | Personnel costs | Per- cent of total | Total | Personnel costs | Per- cent of total |
| Department of Defense, total major systems (ms) ² | 5,838,620 | 2,245,227 | 38 | 5,742,512 | 2,252,877 | 39 | 5,393,408 | 2,198,016 | 41 |
| Department of the Army (ms) | 1,496,817 | 715,761 | 48 | 1,531,403 | 833,348 | 54 | 1,620,632 | 897,830 | 55 |
| Department of the Navy (ms) | 2,798,470 | 1,148,080 | 41 | 2,576,087 | 1,067,129 | 41 | 2,323,685 | 980,810 | 42 |
| Department of the Air Force (ms) | 564,798 | 103,628 | 18 | 484,407 | 92,799 | 19 | 454,995 | 85,439 | 19 |
| Defense Agencies, total (ms) | 776,016 | 275,598 | 36 | 943,135 | 257,303 | 27 | 766,424 | 231,417 | 30 |
| Ballistic Missile Defense Organization (ms) | 353,524 | 112,227 | 32 | 418,988 | 104,176 | 25 | 364,350 | 109,044 | 30 |
| Defense Advanced Research Projects Agency (ms) ³ | 34,733 | 18,061 | 52 | 36,098 | 18,771 | 52 | 40,623 | 21,123 | 52 |
| Defense Information Systems Agency (ms) | 16,754 | 9,877 | 59 | 14,256 | 10,232 | 72 | 15,742 | 10,855 | 69 |
| Defense Logistics Agency (ms) | 2,985 | 2,121 | 71 | 2,683 | 2,400 | 89 | 2,730 | 2,400 | 88 |
| Defense Mapping Agency (ms) | 4,672 | 2,658 | 57 | 3,569 | 1,999 | 56 | 9,592 | 5,372 | 56 |
| Special Operations Command (ms) | 31,593 | 4,316 | 14 | 17,774 | 2,428 | 14 | 14,543 | 1,987 | 14 |
| Washington Headquarters Services (ms) ⁴ | 331,755 | 126,338 | 38 | 449,767 | 117,297 | 26 | 318,844 | 80,636 | 25 |
| Operational Test & Evaluation, Director (ms) | 7,937 | 214 | 3 | 8,721 | 310 | 4 | 7,687 | 320 | 4 |
| Test & Evaluation, Deputy Under Secretary of Defense (ms) | 194,582 | 1,946 | 1 | 198,759 | 1,988 | 1 | 219,985 | 2,200 | 1 |
| Department of Education | 2,020 | 1,505 | 75 | 2,237 | 1,680 | 75 | 2,353 | 1,725 | 73 |
| Department of Energy | 259,975 | 69,822 | 27 | 221,809 | 66,436 | 30 | 255,352 | 65,929 | 26 |
| Dept of Health & Human Svcs, total | 239,993 | 120,944 | 50 | 240,170 | 119,849 | 50 | 173,421 | 124,304 | 72 |
| Administration on Aging | 683 | 462 | 68 | 683 | 462 | 68 | 341 | 231 | 68 |
| Admin for Children & Families | 16 | 16 | 100 | 14 | 14 | 100 | 29 | 29 | 100 |
| Agcy for Hlth Care Policy & Rsch | 11,287 | 11,287 | 100 | 6,186 | 6,186 | 100 | 7,000 | 7,000 | 100 |
| Health Resources & Services Admin | 350 | 1 | * | 350 | 1 | * | 0 | 0 | 0 |
| National Institutes of Health ⁵ | 227,628 | 109,149 | 48 | 232,889 | 113,138 | 49 | 166,001 | 116,994 | 70 |
| Office of the Assistant Secretary for Health | 29 | 29 | 100 | 48 | 48 | 100 | 50 | 50 | 100 |
| Dept of Housing & Urban Dvlpmt | 18,281 | 14,000 | 77 | 10,474 | 8,000 | 76 | 14,203 | 11,000 | 77 |
| Department of the Interior, total | 18,178 | 11,293 | 62 | 14,601 | 9,317 | 64 | 16,033 | 9,986 | 62 |
| Bureau of Reclamation | 1,993 | 470 | 24 | 1,508 | 472 | 31 | 1,911 | 475 | 25 |
| Geological Survey ⁶ | 4,247 | 3,182 | 75 | 13,087 | 8,840 | 68 | 14,122 | 9,511 | 67 |
| National Biological Service ⁷ ⁶ | 11,932 | 7,636 | 64 | NA | NA | NA | NA | NA | NA |
| Office of the Secretary | 6 | 5 | 83 | 6 | 5 | 83 | 0 | 0 | 0 |
| Department of Justice, total | 14,454 | 4,780 | 33 | 38,884 | 4,886 | 13 | 37,879 | 4,871 | 13 |
| Bureau of Prisons | 532 | 400 | 75 | 500 | 400 | 80 | 500 | 400 | 80 |
| Drug Enforcement Administration | 50 | 50 | 100 | 100 | 100 | 100 | 50 | 50 | 100 |
| Federal Bureau of Investigation | 10,937 | 4,228 | 39 | 36,784 | 4,272 | 12 | 34,829 | 4,317 | 12 |
| Office of Justice Programs | 2,935 | 102 | 3 | 1,500 | 114 | 8 | 2,500 | 104 | 4 |
| Department of Labor, total | 2,633 | 1,289 | 49 | 1,332 | 851 | 64 | 3,818 | 968 | 25 |
| Employment & Training Admin | 1,600 | 706 | 44 | 700 | 665 | 95 | 778 | 778 | 100 |
| Office of the Secretary | 852 | 402 | 47 | 447 | 1 | * | 2,851 | 1 | * |
| Pension Benefit Guaranty Corp | 181 | 181 | 100 | 185 | 185 | 100 | 189 | 189 | 100 |
| Department of Transportation, total | 101,681 | 56,196 | 55 | 77,462 | 53,924 | 70 | 91,374 | 52,634 | 58 |
| Coast Guard | 10,640 | 4,480 | 42 | 10,843 | 4,552 | 42 | 10,670 | 4,485 | 42 |
| Federal Aviation Administration | 79,988 | 47,104 | 59 | 55,989 | 45,459 | 81 | 59,411 | 44,517 | 75 |
| Federal Highway Administration | 1,244 | 25 | 2 | 1,224 | 11 | 1 | 16,033 | 7 | * |
| Federal Railroad Administration | 2,900 | 240 | 8 | 3,362 | 293 | 9 | 650 | 293 | 45 |
| Federal Transit Administration | 3,230 | 1,370 | 42 | 1,519 | 1,349 | 89 | 1,528 | 1,328 | 87 |
| Office of the Secretary | 2,811 | 2,526 | 90 | 2,897 | 2,025 | 70 | 2,808 | 1,768 | 63 |
| Research & Special Programs Admin .. | 868 | 451 | 52 | 1,628 | 235 | 14 | 274 | 236 | 86 |

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

Table C-89. Federal obligations for total development to intramural performers for personnel costs, by agency: fiscal years 1995, 1996, and 1997

[In thousands of dollars and percentages]

| Agency and subdivision | 1995 | | | Preliminary | | | | | |
|--|-----------|-----------------|-------------------|-------------|-----------------|-------------------|-----------|-----------------|-------------------|
| | Total | Personnel costs | Per-cent of total | 1996 | | | 1997 | | |
| | | | | Total | Personnel costs | Per-cent of total | Total | Personnel costs | Per-cent of total |
| Department of the Treasury, total | 5,919 | 3,240 | 55 | 6,178 | 3,696 | 60 | 6,215 | 3,789 | 61 |
| Bureau of Engraving & Printing | 476 | 33 | 7 | 889 | 89 | 10 | 828 | 83 | 10 |
| Internal Revenue Service | 3,901 | 1,665 | 43 | 3,446 | 1,764 | 51 | 3,498 | 1,817 | 52 |
| United States Customs Service | 1,500 | 1,500 | 100 | 1,800 | 1,800 | 100 | 1,800 | 1,800 | 100 |
| United States Mint | 42 | 42 | 100 | 43 | 43 | 100 | 89 | 89 | 100 |
| Department of Veterans Affairs | 17,554 | 11,586 | 66 | 21,384 | 14,113 | 66 | 20,676 | 13,646 | 66 |
| Other agencies: | | | | | | | | | |
| Consumer Product Safety Commission ... | 367 | 175 | 48 | 30 | 30 | 100 | 0 | 0 | 0 |
| Environmental Protection Agency | 61,053 | 61,053 | 100 | 42,743 | 42,743 | 100 | 69,412 | 69,412 | 100 |
| International Dvlpmnt Cooperation | | | | | | | | | |
| Agency, total | 4,802 | 3,608 | 75 | 2,252 | 1,679 | 75 | 1,676 | 1,254 | 75 |
| Agency for Internat'l Dvlpmnt | 4,802 | 3,608 | 75 | 2,252 | 1,679 | 75 | 1,676 | 1,254 | 75 |
| Library of Congress | 8,045 | 6,099 | 76 | 6,493 | 6,493 | 100 | 7,230 | 6,587 | 91 |
| National Aeronautics & Space Admin | 1,242,214 | 628,284 | 51 | 1,333,023 | 618,238 | 46 | 1,240,903 | 637,436 | 51 |
| Tennessee Valley Authority | 66,700 | 17,342 | 26 | 72,222 | 18,777 | 26 | 62,818 | 12,890 | 21 |

- 1 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 2 Not all Department of Defense (DoD) agencies with development obligations are able to categorize these obligations according to the advanced technology and major systems development breakdown. Therefore, total DoD development does not equal the sum of total DoD advanced technology development and total DoD major systems development.
- 3 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.
- 4 Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
- 5 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.
- 6 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.
- 7 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.

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.

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

KEY: * = Percentage less than .05%

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-90. Federal outlays for research and development and for R&D plant, by agency: fiscal years 1976-86

[Dollars in millions]

| Agency and subdivision | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
|---|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Total, all agencies | 21,020.9 | 22,882.9 | 25,127.9 | 27,041.0 | 30,635.8 | 34,065.9 | 35,766.8 | 37,959.4 | 41,330.1 | 45,860.3 | 52,090.3 |
| Departments: | | | | | | | | | | | |
| Dept of Agriculture, total | 468.8 | 537.8 | 572.4 | 630.5 | 687.6 | 782.5 | 828.4 | 858.8 | 893.5 | 923.2 | 953.0 |
| Agricultural Cooperative Svc | NA | NA | NA | NA | 1.6 | 1.3 | 1.7 | 2.1 | 2.2 | 2.9 | 2.6 |
| Agricultural Marketing Svc ¹ | .0 | .0 | .0 | .9 | 1.3 | 1.2 | 1.5 | .6 | 1.7 | 1.3 | 1.7 |
| Agricultural Research Svc | NA | NA | NA | NA | NA | 425.9 | 436.1 | 469.4 | 479.3 | 492.9 | 500.5 |
| Animal & Plant Health Inspection Service | NA | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 4.2 |
| Cooperative State Rsch, Ed, & Extension Service | NA | NA | NA | NA | NA | 199.0 | 219.8 | 220.4 | 239.5 | 243.6 | 256.5 |
| Economic Research Service | NA | NA | NA | NA | NA | 38.0 | 37.0 | 36.8 | 40.9 | 45.1 | 46.0 |
| Economics, Statistics, & Cooperative Svc, total ² | 26.9 | 30.5 | 32.4 | 35.6 | NA | NA | NA | NA | NA | NA | NA |
| Economic Research Service ... | 23.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Farmer Cooperative Service ... | 1.4 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Statistical Reporting Svc | 2.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Economics & Statistics Svc ³ | NA | NA | NA | NA | 31.1 | NA | NA | NA | NA | NA | NA |
| Forest Service | 90.3 | 92.5 | 86.7 | 105.7 | 100.6 | 101.8 | 116.0 | 111.1 | 109.2 | 113.8 | 113.5 |
| Grain Inspection Packers & Stockyards Administration | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .9 | 1.0 |
| Human Nutrition Information Service | NA | NA | NA | NA | NA | .0 | 3.8 | 5.8 | 7.9 | 7.2 | 10.6 |
| National Agricultural Statistics Service | .0 | NA | NA | NA | NA | 7.5 | 7.0 | 7.6 | 8.2 | 8.4 | 8.0 |
| Office of International Cooperation & Development ... | NA | NA | NA | .0 | 6.4 | 6.9 | 4.6 | 4.1 | 3.6 | 5.8 | 7.5 |
| Office of Transportation | NA | NA | NA | .5 | .8 | .9 | .9 | .8 | 1.0 | 1.3 | 1.0 |
| Science & Ed Admin, total | 351.7 | 414.7 | 453.3 | 487.8 | 545.8 | NA | NA | NA | NA | NA | NA |
| Agricultural Research Svc | 247.4 | 294.6 | 318.4 | 331.2 | 371.6 | NA | NA | NA | NA | NA | NA |
| Cooperative State Rsch Svc ... | 104.2 | 120.2 | 134.9 | 156.6 | 174.2 | NA | NA | NA | NA | NA | NA |
| Nat'l Agricultural Library | - | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Department of Commerce, total | 233.3 | 238.2 | 272.7 | 307.1 | 360.6 | 346.8 | 286.5 | 335.2 | 336.3 | 377.8 | 380.1 |
| Bureau of the Census | 2.5 | 2.5 | 3.3 | 2.7 | 3.2 | 3.8 | 3.7 | 4.3 | 4.4 | 4.8 | 4.6 |
| Economic Development Admin ... | 13.6 | 20.0 | 25.1 | 26.7 | 35.5 | 35.5 | 12.1 | 5.3 | 5.1 | 7.8 | 7.8 |
| Maritime Administration ⁴ | 24.4 | 18.8 | 18.8 | 18.7 | 24.1 | NA | NA | NA | NA | NA | NA |
| Minority Business Dvlprmt Agcy ... | 3.2 | 1.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| National Fire Prevention & Control Administration ⁵ | 4.6 | 6.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| National Institute of Standards & Technology | 49.1 | 53.1 | 59.0 | 64.8 | 77.1 | 84.4 | 87.6 | 94.0 | 103.3 | 106.5 | 109.2 |
| National Oceanic & Atmospheric Administration ... | 134.5 | 132.6 | 164.7 | 190.1 | 210.6 | 209.0 | 174.1 | 222.0 | 214.7 | 249.1 | 248.7 |
| National Telecommunications & Information Administration | NA | 2.5 | 1.3 | 3.3 | 9.1 | 12.9 | 8.0 | 9.6 | 8.6 | 9.0 | 8.5 |
| Office of the Secretary | .0 | .0 | .0 | .3 | .6 | .1 | .2 | - | .1 | .6 | 1.2 |
| Office of Telecommunications Patent & Trademark Office | 1.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Patent & Trademark Office | .4 | .5 | .5 | .5 | .5 | 1.1 | .7 | .0 | .0 | .0 | .0 |
| Department of Defense, total | 9,445.5 | 10,308.0 | 10,935.4 | 11,733.1 | 13,706.1 | 15,993.0 | 18,482.9 | 21,373.5 | 22,999.4 | 27,143.7 | 32,491.1 |
| Department of the Army | 1,969.6 | 2,195.0 | 2,464.3 | 2,536.2 | 2,852.9 | 3,123.7 | 3,414.4 | 3,848.5 | 4,017.4 | 4,230.0 | 4,278.5 |
| Department of the Navy | 3,320.1 | 3,582.6 | 3,919.4 | 3,926.4 | 4,507.9 | 4,916.9 | 5,394.7 | 6,023.5 | 6,859.8 | 8,304.9 | 9,939.8 |
| Department of the Air Force | 3,625.2 | 3,902.2 | 3,969.9 | 4,428.0 | 5,323.6 | 6,756.6 | 8,209.1 | 9,640.9 | 10,849.7 | 12,263.7 | 14,133.1 |
| Defense Agencies | 507.5 | 610.5 | 555.1 | 814.2 | 981.4 | 1,160.0 | 1,420.0 | 1,817.3 | 1,217.8 | 2,290.0 | 4,068.2 |
| Defense Civil Preparedness Agency ⁶ | 2.2 | 1.2 | 2.9 | NA | NA | NA | NA | NA | NA | NA | NA |
| Test & Evaluation, Deputy Under Secretary of Defense ... | 20.9 | 16.5 | 23.9 | 28.3 | 40.4 | 35.7 | 44.8 | 43.3 | 54.7 | 55.1 | 71.6 |

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

**Table C-90. Federal outlays for research and development and for R&D plant, by agency:
fiscal years 1976-86**

[Dollars in millions]

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| Agency and subdivision | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Department of Education ⁷ | NA | NA | NA | 136.5 | 120.9 | .0 | 150.1 | 111.5 | 181.3 | 95.7 | 125.3 |
| Department of Energy ^{8 9} | NA | 3,593.1 | 4,413.0 | 4,956.8 | 5,660.2 | 6,125.9 | 5,785.4 | 5,641.9 | 5,656.4 | 5,803.0 | 5,381.7 |
| Department of Health, Education, & Welfare, total | 2,615.0 | 2,622.2 | 3,070.2 | NA | NA | NA | NA | NA | NA | NA | NA |
| Alcohol, Drug Abuse, & Mental Health Administration | 145.1 | 167.2 | 179.9 | NA | NA | NA | NA | NA | NA | NA | NA |
| Center for Disease Control | 37.1 | 42.6 | 58.3 | NA | NA | NA | NA | NA | NA | NA | NA |
| Food & Drug Administration | 19.0 | 28.6 | 56.0 | NA | NA | NA | NA | NA | NA | NA | NA |
| Health Care Financing Admin | NA | 30.0 | 14.2 | NA | NA | NA | NA | NA | NA | NA | NA |
| Health Resources Admin | 24.7 | 1.4 | 6.7 | NA | NA | NA | NA | NA | NA | NA | NA |
| Health Services Admin | 11.3 | 15.6 | 15.7 | NA | NA | NA | NA | NA | NA | NA | NA |
| National Inst of Education | 69.8 | 59.7 | 74.8 | NA | NA | NA | NA | NA | NA | NA | NA |
| National Insts of Health | 2,118.4 | 2,105.0 | 2,507.1 | NA | NA | NA | NA | NA | NA | NA | NA |
| Office of Assistant Secretary for Education | 1.5 | 1.7 | 1.1 | NA | NA | NA | NA | NA | NA | NA | NA |
| Office of Assistant Secretary for Health | .0 | 28.1 | 13.3 | NA | NA | NA | NA | NA | NA | NA | NA |
| Office of Education | 56.8 | 30.3 | 25.8 | NA | NA | NA | NA | NA | NA | NA | NA |
| Office of Human Dvlpmnt Svcs | 61.4 | 80.0 | 75.3 | NA | NA | NA | NA | NA | NA | NA | NA |
| Office of the Secretary | 32.5 | 21.3 | 30.2 | NA | NA | NA | NA | NA | NA | NA | NA |
| Social & Rehabilitation Svc | 18.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Social Security Admin | 18.9 | 10.9 | 11.9 | NA | NA | NA | NA | NA | NA | NA | NA |
| Department of Health & Human Services, total | NA | NA | NA | 3,172.7 | 3,554.1 | 3,997.5 | 4,052.1 | 4,118.6 | 4,484.9 | 5,049.6 | 5,531.4 |
| Alcohol, Drug Abuse, & Mental Health Administration | NA | NA | NA | 184.7 | 218.1 | 251.1 | 292.0 | 289.8 | 276.1 | 349.8 | 396.6 |
| Centers for Disease Control & Prevention | NA | NA | NA | 72.4 | 72.6 | 83.0 | 88.4 | 80.4 | 46.3 | 47.6 | 52.7 |
| Food & Drug Administration | NA | NA | NA | 40.6 | 61.0 | 57.6 | 59.4 | 75.6 | 86.9 | 96.2 | 89.1 |
| Health Care Financing Admin | NA | NA | NA | 19.5 | 29.4 | 35.4 | 29.1 | 30.2 | 33.1 | 33.5 | 28.1 |
| Health Resources Admin | NA | NA | NA | 3.2 | 2.8 | 3.7 | NA | NA | NA | NA | NA |
| Hlth Resources & Svcs Admin | NA | NA | NA | NA | NA | NA | 17.5 | 16.3 | 13.4 | 16.0 | 13.0 |
| Health Services Admin | NA | NA | NA | 23.1 | 20.2 | 16.9 | NA | NA | NA | NA | NA |
| Human Development Services | NA | NA | NA | 57.1 | 48.5 | 85.5 | 33.0 | 22.3 | 15.4 | 21.4 | 52.0 |
| National Insts of Health | NA | NA | NA | 2,713.4 | 3,029.3 | 3,392.2 | 3,475.0 | 3,562.9 | 3,981.1 | 4,446.3 | 4,867.2 |
| Office of the Assistant Secretary for Health | NA | NA | NA | 14.7 | 27.0 | 37.2 | 29.0 | 16.9 | 11.5 | 15.8 | 21.6 |
| Office of the Secretary | NA | NA | NA | 26.5 | 24.0 | 19.5 | 13.4 | 14.4 | 10.4 | 9.6 | 6.1 |
| Social Security Admin | NA | NA | NA | 17.4 | 21.4 | 15.4 | 15.4 | 9.6 | 10.7 | 13.3 | 5.0 |
| Dept of Housing & Urban Dvlpmnt ... | 60.3 | 69.0 | 59.3 | 74.3 | 65.8 | 54.1 | 37.0 | 30.9 | 24.9 | 18.6 | 13.9 |
| Dept of the Interior, total | 319.7 | 304.0 | 339.9 | 404.3 | 431.5 | 436.9 | 394.9 | 412.7 | 435.9 | 417.0 | 445.4 |
| Bonneville Power Admin ⁹ | 8.3 | .0 | .0 | .0 | .0 | 14.0 | NA | NA | NA | NA | NA |
| Bureau of Land Management | .7 | .9 | 1.2 | 1.3 | 1.7 | 1.9 | 5.3 | 3.9 | 3.8 | 4.4 | 3.4 |
| Bureau of Mines | 113.7 | 103.7 | 104.2 | 121.4 | 130.8 | 109.0 | 105.2 | 102.0 | 111.4 | 100.4 | 131.0 |
| Bureau of Reclamation | 8.7 | 10.1 | 10.9 | 11.0 | 13.1 | 13.4 | 10.7 | 11.1 | 10.1 | 10.5 | 12.0 |
| Geological Survey ¹⁰ | 115.7 | 112.2 | 128.7 | 144.2 | 145.2 | 168.2 | 150.1 | 171.4 | 228.4 | 230.8 | 226.5 |
| Heritage Conservation & Recreation Service | - | - | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Minerals Management Service ... | NA | NA | NA | NA | NA | NA | .0 | 1.3 | 1.5 | 1.5 | 1.1 |
| National Park Service | 9.3 | 7.6 | 7.7 | 8.9 | 8.2 | 10.4 | 11.2 | 13.7 | 14.0 | 15.0 | 17.3 |
| Office of the Secretary | .7 | 1.0 | 2.1 | 1.5 | 1.9 | 2.0 | .4 | 1.3 | .6 | .3 | .6 |
| Office of Surface Mining Reclamation & Enforcement ... | NA | .0 | .0 | 5.0 | 7.8 | 5.8 | 1.4 | 1.5 | .8 | 2.0 | 2.3 |
| Office of Water Rsch & Tech ¹⁰ | 19.0 | 14.2 | 17.6 | 23.8 | 30.0 | 21.8 | 20.3 | 8.3 | 2.6 | NA | NA |
| US Fish & Wildlife Svc | 43.6 | 54.2 | 67.5 | 87.3 | 93.0 | 90.5 | 90.4 | 98.3 | 62.8 | 52.1 | 51.2 |
| Department of Justice, total | 39.9 | 33.7 | 33.5 | 45.9 | 45.3 | 26.1 | 36.6 | 27.6 | 26.5 | 32.7 | 32.1 |
| Bureau of Prisons | .7 | 1.0 | 1.8 | 3.3 | 2.1 | 2.5 | 1.7 | 1.7 | 1.6 | 1.5 | 3.0 |
| Drug Enforcement Admin | 2.6 | 3.8 | 1.7 | 2.7 | 4.4 | 1.2 | 2.7 | 2.5 | 2.0 | 1.6 | 2.5 |
| Federal Bureau of Investigation | 1.4 | 1.1 | .9 | 2.5 | 1.8 | 1.5 | 1.1 | 1.9 | 2.5 | 8.9 | 6.9 |
| Immigration & Naturalization Service | .0 | .2 | .3 | .3 | .3 | 1.0 | .3 | .2 | .6 | .4 | .4 |
| Office of Justice Programs | 35.2 | 27.6 | 27.1 | 35.5 | 35.1 | 19.2 | 30.4 | 21.1 | 19.6 | 20.1 | 19.2 |
| Office of Legal Policy | .0 | .0 | 1.6 | 1.6 | 1.6 | .7 | .4 | .2 | .3 | .2 | .2 |

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

**Table C-90. Federal outlays for research and development and for R&D plant, by agency:
fiscal years 1976-86**

[Dollars in millions]

| Agency and subdivision | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
|---|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Department of Labor, total | 27.8 | 28.1 | 97.6 | 109.2 | 137.7 | 61.6 | 29.4 | 16.8 | 14.1 | 13.7 | 10.9 |
| Bureau of Labor Statistics | 1.3 | 1.4 | 1.2 | .9 | .9 | .3 | .3 | .7 | .5 | .6 | .6 |
| Employment Standards Admin ... | 4.1 | 4.3 | 3.6 | 5.1 | 4.7 | 3.0 | 1.3 | 1.3 | 1.3 | - | 0 |
| Employment & Training Admin ... | 17.5 | 16.8 | 86.6 | 93.0 | 121.7 | 52.1 | 20.2 | 6.0 | 3.5 | 4.5 | 3.4 |
| Labor-Management Relations & Cooperative Programs ¹ | NA | NA | NA | NA | NA | NA | NA | NA | .3 | .3 | .2 |
| Labor-Management Services Administration ¹ | .7 | 1.9 | 2.7 | 3.5 | 2.8 | 1.7 | .7 | .9 | NA | NA | NA |
| Occupational Safety & Health Administration | 2.9 | 3.4 | 1.3 | 5.1 | 6.3 | 3.0 | 4.9 | 5.3 | 5.1 | 4.5 | 3.6 |
| Office of the Secretary | 1.2 | .2 | 2.2 | 1.6 | 1.3 | 1.0 | .9 | 1.5 | 1.9 | 2.6 | 2.1 |
| Pension Benefit Guaranty Corp ... | NA | NA | NA | NA | NA | .5 | 1.1 | 1.1 | .3 | .2 | .1 |
| Pension & Welfare Benefits Administration | NA | NA | NA | NA | NA | NA | NA | NA | 1.2 | 1.1 | .9 |
| Department of State, total ² | 27.0 | 44.1 | 57.5 | 3.2 | 2.2 | 1.8 | 1.5 | 1.5 | 1.6 | 1.5 | 1.5 |
| Agcy for Internat'l Dvlpmt ² | 25.4 | 41.8 | 54.6 | NA | NA | NA | NA | NA | NA | NA | NA |
| Departmental Funds | 1.6 | 2.3 | 2.8 | 3.2 | 2.2 | 1.8 | .0 | .0 | .0 | .0 | .0 |
| Dept of Transportation, total | 335.7 | 363.5 | 377.3 | 372.4 | 391.0 | 432.1 | 360.0 | 282.3 | 357.5 | 430.2 | 445.2 |
| Coast Guard | 17.8 | 17.0 | 20.3 | 20.5 | 17.9 | 25.9 | 20.0 | 19.6 | 19.5 | 19.0 | 16.7 |
| Federal Aviation Admin | 114.6 | 102.8 | 100.2 | 111.4 | 109.7 | 125.9 | 110.9 | 99.5 | 167.5 | 283.7 | 317.6 |
| Federal Highway Admin | 42.9 | 53.0 | 52.9 | 48.9 | 53.4 | 59.1 | 42.5 | 32.5 | 51.1 | 47.5 | 46.1 |
| Federal Railroad Admin | 48.5 | 57.3 | 62.4 | 58.0 | 63.5 | 55.0 | 25.6 | 18.5 | 14.7 | 16.2 | 15.4 |
| Federal Transit Admin | 48.2 | 52.1 | 52.5 | 50.5 | 58.9 | 61.9 | 69.8 | 36.5 | 31.2 | 18.6 | 8.8 |
| Maritime Administration ⁴ | NA | NA | NA | NA | NA | 17.4 | 18.9 | 13.5 | 11.1 | 10.2 | 14.1 |
| National Highway Traffic Safety Administration | 33.8 | 49.5 | 68.5 | 53.6 | 60.3 | 60.8 | 60.2 | 51.1 | 53.2 | 28.0 | 19.1 |
| Office of the Secretary | 29.9 | 31.8 | 19.7 | 16.7 | 14.9 | 13.9 | 5.6 | 4.0 | 5.0 | 4.7 | 5.2 |
| Rsch & Special Programs Administration | NA | .0 | .8 | 12.8 | 12.4 | 12.3 | 6.5 | 7.1 | 4.2 | 2.4 | 2.3 |
| Dept of the Treasury, total | 3.8 | 5.0 | 9.9 | 9.6 | 10.9 | 10.8 | 13.6 | 15.6 | 13.6 | 24.3 | 23.0 |
| Bureau of Alcohol, Tobacco, & Firearms | .0 | 1.1 | 2.0 | 2.5 | 1.6 | .3 | NA | NA | NA | NA | NA |
| Bureau of Engraving & Printing | 2.8 | 2.5 | 3.7 | 2.1 | 2.3 | 2.7 | 4.8 | 3.9 | 3.6 | 5.0 | 4.2 |
| Internal Revenue Service | .0 | .0 | 2.4 | 3.6 | 4.0 | 4.2 | 5.4 | 8.0 | 7.9 | 15.9 | 13.4 |
| United States Customs Svc | 1.1 | 1.4 | 1.8 | 1.4 | 3.0 | 3.5 | 3.2 | 3.4 | 1.9 | 2.3 | 4.9 |
| United States Mint | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .6 | - |
| United States Secret Service | NA | NA | NA | NA | - | .1 | .3 | .4 | .2 | .6 | .5 |
| Department of Veterans Affairs | 109.5 | 112.8 | 123.9 | 123.1 | 138.6 | 144.3 | 140.7 | 164.7 | 193.6 | 222.7 | 185.1 |
| Other agencies: | | | | | | | | | | | |
| ACTION | .1 | .4 | 1.6 | 1.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Advisory Commission on Intergovernmental Relations | 1.0 | 1.3 | 1.5 | 1.7 | 1.7 | 1.9 | 1.8 | 1.9 | 2.1 | 2.0 | 2.0 |
| Appalachian Regional Comm | .7 | .6 | .5 | .9 | .8 | .4 | .4 | .2 | .4 | .2 | .2 |
| Civil Service Commission | 4.0 | 3.9 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Community Services Admin | 10.0 | 21.0 | 24.1 | 19.5 | 25.5 | 26.2 | NA | NA | NA | NA | NA |
| Consumer Product Safety Comm ... | 3.8 | 6.8 | 4.2 | 5.8 | 6.3 | .9 | .2 | .5 | 1.2 | 2.2 | 2.0 |
| Energy Rsch & Dvlpmt Admin ⁸ | 2,553.7 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Environmental Protection Agcy | 265.6 | 283.0 | 312.5 | 388.9 | 384.7 | 344.3 | 336.2 | 312.5 | 266.1 | 274.8 | 306.9 |
| Federal Communications Comm | 1.1 | 1.9 | 2.4 | 1.9 | 3.1 | 1.6 | 1.2 | 1.3 | .9 | 1.1 | .9 |
| Federal Emergency Management Agency, total ^{6 5} | NA | NA | 6.8 | 12.0 | 11.2 | 11.6 | 8.8 | 3.2 | 10.9 | 4.6 | .0 |
| National Fire Prevention & Control Administration ⁵ | NA | NA | 6.8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Federal Energy Administration | 3.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Federal Trade Commission | .9 | 1.1 | 1.4 | 1.5 | 3.2 | 1.1 | 1.2 | 1.4 | 1.6 | 1.7 | 1.8 |
| Foundation for Educational Assistance ⁷ | NA | NA | NA | NA | NA | 111.8 | NA | NA | NA | NA | NA |
| General Services Admin ³ | 1.2 | .9 | 2.7 | .5 | .2 | .6 | 1.0 | .5 | 2.4 | .4 | 1.9 |

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

Table C-90. Federal outlays for research and development and for R&D plant, by agency: fiscal years 1976-86

[Dollars in millions]

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| Agency and subdivision | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| International Development | | | | | | | | | | | |
| Cooperation Agcy, total ¹² | NA | NA | NA | 80.3 | 114.3 | 166.1 | 188.6 | 225.2 | 207.2 | 233.0 | 255.5 |
| Agcy for Internat'l Dvlpmt ¹² | NA | NA | NA | 80.3 | 114.3 | 166.1 | 188.6 | 225.2 | 207.2 | 233.0 | 255.5 |
| Interstate Commerce Comm | 0.1 | 0.1 | 0.3 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | .0 |
| Library of Congress | 2.9 | 3.6 | 4.7 | 5.4 | 6.5 | 5.1 | 5.4 | 6.7 | 7.2 | 6.3 | 6.9 |
| National Aeronautics & Space Administration | 3,669.0 | 3,449.1 | 3,432.1 | 3,395.2 | 3,605.7 | 3,705.5 | 3,252.9 | 2,646.2 | 3,730.6 | 3,217.1 | 3,730.6 |
| National Archives & Records Administration ¹³ | NA | NA | NA | NA | NA | NA | NA | NA | NA | .5 | 1.0 |
| National Science Foundation | 669.1 | 674.7 | 738.6 | 804.6 | 848.2 | 905.0 | 1,015.1 | 994.7 | 1,151.0 | 1,250.0 | 1,468.1 |
| Nuclear Regulatory Commission | 76.9 | 107.8 | 131.7 | 145.4 | 182.8 | 216.0 | 208.6 | 244.0 | 198.6 | 161.1 | 136.0 |
| Office of Personnel Management | NA | NA | 4.5 | 6.0 | 6.8 | 8.1 | .0 | .0 | .0 | .0 | .0 |
| Office of Telecommunications Policy | 4.7 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Office of Thrift Supervision | .8 | 1.7 | 1.0 | .9 | 1.2 | 1.0 | 2.7 | 3.0 | 2.6 | 2.8 | 3.3 |
| Small Business Administration | .1 | .5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Smithsonian Institution | 27.6 | 30.1 | 34.7 | 37.8 | 39.5 | 43.9 | 48.4 | 57.3 | 55.2 | 59.8 | 64.0 |
| Tennessee Valley Authority | 34.4 | 30.2 | 53.4 | 45.4 | 75.3 | 94.3 | 89.5 | 63.7 | 66.3 | 81.0 | 79.5 |
| United States Arms Control & Disarmament Agency | 1.8 | 2.2 | 3.6 | 3.5 | 3.8 | 2.4 | 1.9 | 1.0 | 1.3 | 1.1 | .9 |
| US Information Agency ¹⁴ | .1 | .1 | .1 | .1 | .1 | 1.2 | - | - | - | 1.1 | 2.4 |
| US Internat'l Trade Comm | 1.5 | 2.6 | 3.1 | 3.4 | 2.1 | 3.4 | 3.8 | 4.7 | 5.0 | 5.8 | 6.9 |

- 1 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.
- 2 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 1977-79.
- 3 Data reported for the Economics & Statistics Service include programs of the Economic Research Service and the Statistical Reporting Service for fiscal year 1980.
- 4 In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.
- 5 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.
- 6 Functions for the Defense Civil Preparedness Agency transferred from the Department of Defense to the Federal Emergency Management Agency on July 20, 1979.
- 7 The 1983 Budget of the United States Government proposed that the Department of Education be replaced by the Foundation for Educational Assistance.
- 8 In 1977 the Energy Research & Development Administration became part of the Department of Energy.
- 9 In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.
- 10 As of 1985 the Office of Water Research & Technology has been combined with the Geological Survey.
- 11 In 1984 the Labor-Management Services Administration was replaced by Labor-Management Relations & Cooperative Programs.
- 12 The Agency for International Development transferred from the Department of State to the International Development Cooperative Agency on Oct. 1, 1979.
- 13 As of 1985 the National Archives & Records Administration is separate from the General Services Administration.
- 14 Data reported for the United States Information Agency include funds for the former International Communication Agency for fiscal years 1977-81.

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.

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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-90a. Federal outlays for research and development and for R&D plant, by agency: fiscal years 1987-97

[Dollars in millions]

| Agency and subdivision | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | Preliminary | |
|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|-------------|----------|
| | | | | | | | | | | 1996 | 1997 |
| Total, all agencies | 53,214.2 | 56,556.6 | 61,476.4 | 64,151.1 | 63,676.4 | 65,719.0 | 68,385.8 | 68,335.9 | 68,410.0 | 69,180.0 | 70,118.4 |
| Departments: | | | | | | | | | | | |
| Dept of Agriculture, total | 994.0 | 1,049.7 | 1,129.8 | 1,196.7 | 1,269.4 | 1,382.8 | 1,453.4 | 1,486.6 | 1,503.8 | 1,512.2 | 1,507.1 |
| Agricultural Cooperative Svc | 2.8 | 2.7 | 2.8 | 2.7 | 2.8 | 3.4 | 2.9 | 3.7 | NA | NA | NA |
| Agricultural Marketing Svc ¹ | 1.4 | 1.6 | 1.5 | 2.7 | 3.7 | 4.3 | 4.7 | 4.6 | 5.0 | 4.9 | 4.9 |
| Agricultural Research Svc ² | 526.5 | 540.4 | 579.7 | 603.4 | 622.9 | 686.5 | 732.6 | 735.3 | 758.4 | 768.2 | 790.4 |
| Animal & Plant Health Inspection Service | 4.9 | 6.2 | 7.7 | 14.0 | 15.7 | 16.7 | 17.1 | 19.2 | 19.1 | 21.2 | 20.6 |
| Cooperative State Rsch, Ed, & Extension Service ³ | 274.1 | 294.8 | 336.9 | 361.9 | 395.6 | 415.1 | 433.2 | 456.9 | 463.9 | 474.8 | 445.2 |
| Economic Research Service | 43.2 | 47.2 | 50.0 | 50.7 | 53.0 | 57.5 | 61.5 | 57.3 | 52.0 | 53.2 | 54.7 |
| Foreign Agricultural Svc ⁴ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .8 | .5 | 1.4 | 1.4 |
| Forest Service | 120.7 | 138.0 | 136.4 | 144.5 | 159.8 | 182.0 | 185.8 | 195.7 | 197.8 | 180.5 | 181.8 |
| Grain Inspection Packers & Stockyards Administration ⁵ | 1.2 | 1.0 | 1.1 | .6 | .7 | 1.8 | 1.8 | 1.8 | 1.5 | 2.8 | 2.8 |
| Human Nutrition Information Service ² | 9.6 | 8.2 | 8.4 | 9.0 | 8.9 | 9.7 | 7.3 | 5.3 | NA | NA | NA |
| National Agricultural Statistics Service | 3.5 | 3.6 | 2.8 | 2.7 | 3.2 | 3.5 | 3.9 | 3.6 | 4.2 | 3.8 | 3.9 |
| Office of International Cooperation & Dvlpmt ⁴ | 5.1 | 5.0 | 2.5 | 4.3 | 3.1 | 2.4 | 2.6 | .0 | NA | NA | NA |
| Office of Transportation | 1.0 | 1.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Rural Business-Cooperative Service ⁶ | NA | NA | NA | NA | NA | NA | NA | 2.4 | 1.6 | 1.4 | 1.4 |
| Department of Commerce, total | 311.1 | 389.4 | 403.2 | 441.5 | 500.7 | 643.4 | 652.0 | 810.3 | 886.4 | 957.7 | 1,040.3 |
| Bureau of the Census | 4.5 | 5.6 | 5.0 | 6.7 | 6.6 | 5.5 | 5.0 | 5.4 | 5.1 | 7.4 | 7.4 |
| Economic Development Admin | 7.2 | 2.7 | 1.3 | 1.5 | 1.0 | 1.1 | .7 | .3 | 1.0 | .5 | 1.5 |
| National Institute of Standards & Technology | 102.1 | 111.4 | 121.5 | 120.3 | 144.1 | 160.6 | 189.8 | 237.8 | 350.4 | 416.2 | 485.6 |
| National Oceanic & Atmospheric Administration | 189.2 | 263.5 | 269.1 | 306.7 | 345.3 | 472.2 | 452.4 | 562.9 | 523.6 | 529.1 | 541.1 |
| National Telecommunications & Information Administration | 7.8 | 6.1 | 6.2 | 6.2 | 3.6 | 4.0 | 4.2 | 3.9 | 6.4 | 4.5 | 4.7 |
| Office of the Secretary | .3 | .1 | .1 | - | - | - | - | - | - | .0 | .0 |
| Department of Defense, total | 33,611.8 | 34,573.0 | 36,869.1 | 37,140.0 | 33,447.2 | 34,631.7 | 34,525.9 | 35,179.2 | 33,712.5 | 33,499.0 | 32,870.5 |
| Department of the Army | 5,009.7 | 4,899.6 | 5,241.3 | 5,797.1 | 5,724.5 | 6,295.2 | 6,125.3 | 5,797.8 | 5,137.3 | 5,112.4 | 4,581.2 |
| Department of the Navy | 9,422.1 | 9,081.9 | 9,559.5 | 9,453.5 | 7,902.0 | 8,115.0 | 9,187.5 | 8,213.3 | 9,454.1 | 8,571.5 | 7,952.5 |
| Department of the Air Force | 14,101.0 | 14,774.5 | 15,390.5 | 14,888.1 | 13,043.8 | 12,532.3 | 12,287.9 | 12,799.2 | 12,051.8 | 11,809.3 | 12,987.5 |
| Defense Agencies | 4,995.8 | 5,690.3 | 6,501.3 | 6,853.6 | 6,685.3 | 7,450.3 | 6,689.7 | 8,125.3 | 6,822.7 | 7,727.9 | 7,075.4 |
| Operational Test & Evaluation, Director | 4.4 | 7.2 | 31.6 | 32.0 | 22.3 | 9.4 | 12.3 | 11.9 | 12.4 | 30.8 | 21.8 |
| Test & Evaluation, Deputy Under Secretary of Defense | 78.8 | 119.6 | 145.0 | 115.8 | 69.4 | 229.4 | 223.2 | 231.8 | 234.3 | 247.1 | 252.0 |
| Department of Education | 138.3 | 142.9 | 155.7 | 150.7 | 117.2 | 135.5 | 186.7 | 179.2 | 180.6 | 181.0 | 170.2 |
| Department of Energy | 5,432.7 | 5,743.7 | 6,039.0 | 6,365.3 | 6,827.1 | 7,232.7 | 7,668.3 | 6,896.5 | 7,016.3 | 6,728.5 | 6,879.3 |

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

**Table C-90a. Federal outlays for research and development and for R&D plant, by agency:
fiscal years 1987-97**

[Dollars in millions]

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| Agency and subdivision | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | Preliminary | |
|---|---------|---------|---------|---------|---------|---------|----------|----------|----------|-------------|----------|
| | | | | | | | | | | 1996 | 1997 |
| Department of Health & Human Services, total | 5,751.0 | 6,923.2 | 7,773.4 | 8,363.8 | 9,822.1 | 9,091.5 | 10,475.2 | 10,352.5 | 11,245.2 | 11,321.4 | 12,318.1 |
| Administration on Aging ⁷ | NA | NA | NA | NA | 20.6 | 20.2 | 20.9 | 19.1 | 20.7 | 2.9 | 2.9 |
| Administration for Children & Families ^{8 7} | NA | NA | NA | NA | 110.2 | 35.1 | 19.3 | 11.3 | 12.0 | 9.0 | 19.0 |
| Agency for Health Care Policy & Research ⁹ | NA | NA | NA | 5.3 | 11.9 | 113.5 | 87.6 | 111.0 | 133.0 | 124.0 | 85.0 |
| Alcohol, Drug Abuse, & Mental Health Administration ¹⁰ | 476.1 | 554.8 | 695.7 | 842.7 | 1,460.6 | NA | NA | NA | NA | NA | NA |
| Centers for Disease Control & Prevention | 66.2 | 88.7 | 117.8 | 95.6 | 113.4 | 146.9 | 162.5 | 206.8 | 317.4 | 323.4 | 361.2 |
| Food & Drug Administration | 85.6 | 91.3 | 96.0 | 95.0 | 143.5 | 150.0 | 174.2 | 160.5 | 147.9 | 154.6 | 146.1 |
| Health Care Financing Admin | 36.1 | 31.4 | 32.5 | 14.4 | 21.7 | 63.9 | 69.5 | 72.3 | 72.9 | 70.1 | 59.0 |
| Hlth Resources & Svcs Admin | 9.2 | 10.0 | 10.5 | 11.9 | 11.0 | 10.5 | 11.0 | 17.8 | 14.4 | 13.7 | 12.7 |
| Human Development Svcs ⁷ | 51.1 | 50.9 | 73.3 | 76.7 | NA | NA | NA | NA | NA | NA | NA |
| National Insts of Health ¹⁰ | 4,985.2 | 6,060.2 | 6,699.0 | 7,181.1 | 7,890.4 | 8,491.4 | 9,893.3 | 9,725.7 | 10,511.5 | 10,616.4 | 11,625.8 |
| Office of the Assistant Secretary for Health ⁹ | 23.5 | 20.0 | 26.0 | 22.3 | 18.2 | 21.7 | 15.8 | .7 | .6 | .5 | .5 |
| Office of the Secretary | 8.2 | 4.7 | 7.8 | 5.0 | 8.8 | 5.0 | 5.2 | 5.0 | 3.5 | 7.0 | 6.0 |
| Social Security Admin ¹¹ | 9.8 | 11.1 | 14.8 | 13.9 | 11.9 | 33.4 | 15.9 | 22.2 | 11.3 | NA | NA |
| Dept of Housing & Urban Dvlpmt ... | 19.7 | 14.9 | 20.7 | 21.7 | 18.1 | 23.5 | 28.4 | 28.5 | 38.0 | 34.8 | 39.1 |
| Dept of the Interior, total | 394.7 | 419.6 | 485.3 | 503.0 | 556.2 | 628.4 | 651.8 | 644.9 | 558.8 | 570.0 | 591.4 |
| Bureau of Land Management | 3.6 | 3.7 | 3.0 | 2.8 | 8.8 | 6.3 | 8.9 | .0 | .0 | .0 | .0 |
| Bureau of Mines | 91.2 | 87.6 | 92.6 | 96.7 | 97.7 | 113.9 | 111.8 | 107.9 | .0 | NA | NA |
| Bureau of Reclamation | 10.6 | 4.4 | 4.2 | 5.8 | 8.7 | 12.2 | 9.6 | 7.4 | 8.0 | 6.0 | 7.6 |
| Geological Survey ¹² | 211.2 | 238.6 | 300.9 | 301.3 | 319.5 | 370.3 | 385.2 | 375.5 | 359.3 | 522.4 | 541.4 |
| Minerals Management Service ... | 1.0 | 1.2 | 1.9 | 2.0 | 2.7 | 4.1 | 6.1 | 19.5 | 20.8 | 21.7 | 21.6 |
| Nat'l Biological Svc ^{13 12} | NA | NA | NA | NA | NA | NA | .0 | 110.3 | 151.0 | NA | NA |
| National Park Service ¹³ | 18.5 | 19.4 | 19.4 | 20.1 | 27.5 | 31.1 | 38.1 | 24.2 | 19.7 | 19.8 | 20.8 |
| Office of the Secretary | 2.0 | .4 | .4 | .2 | .6 | .9 | .4 | .1 | - | - | .0 |
| Office of Surface Mining Reclamation & Enforcement ... | 1.0 | 1.0 | .7 | .8 | 1.0 | .3 | .4 | .0 | .0 | .0 | .0 |
| US Fish & Wildlife Svc ¹³ | 55.7 | 63.3 | 62.2 | 73.3 | 89.7 | 89.3 | 91.3 | .0 | .0 | .0 | .0 |
| Department of Justice, total | 39.0 | 48.1 | 36.0 | 38.2 | 40.4 | 42.9 | 46.2 | 42.0 | 49.0 | 76.9 | 93.8 |
| Bureau of Prisons ¹⁴ | 6.9 | 6.0 | 3.8 | 3.2 | 5.7 | 5.9 | 6.1 | 5.4 | 5.7 | 4.7 | 4.7 |
| Drug Enforcement Admin | 2.2 | 2.5 | 2.7 | 2.4 | 2.8 | 1.5 | 1.1 | 1.7 | .4 | 1.2 | .5 |
| Federal Bureau of Investigation | 6.9 | 12.7 | 6.5 | 8.2 | 10.8 | 10.9 | 11.3 | 7.0 | 10.9 | 36.8 | 34.8 |
| Immigration & Naturalization Service | .4 | 5.2 | .4 | .4 | .4 | .4 | .4 | .4 | .4 | .4 | .4 |
| Office of Justice Programs | 22.4 | 21.6 | 22.5 | 24.0 | 20.7 | 24.1 | 27.2 | 27.6 | 31.5 | 33.8 | 53.3 |
| Office of Legal Policy | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Department of Labor, total | 20.3 | 31.8 | 28.9 | 45.2 | 45.6 | 70.8 | 57.8 | 60.7 | 51.7 | 48.1 | 45.7 |
| Bureau of Labor Statistics | 6.5 | 7.0 | 7.0 | 7.3 | 7.5 | 7.6 | 6.9 | 7.1 | 13.1 | 13.3 | 12.6 |
| Employment Standards Admin ... | 1.0 | .1 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Employment & Training Admin | 4.4 | 11.2 | 9.2 | 25.6 | 23.7 | 51.0 | 39.2 | 41.8 | 23.1 | 23.4 | 21.1 |
| Labor-Management Relations & Cooperative Programs | .3 | .4 | .3 | NA | NA | NA | NA | NA | NA | NA | NA |
| Occupational Safety & Health Administration | 4.1 | 4.2 | 4.5 | 2.5 | 2.6 | 3.1 | 2.5 | 3.2 | 4.3 | 3.1 | 3.6 |
| Office of the Secretary | 2.7 | 6.1 | 6.1 | 7.1 | 8.7 | 5.7 | 5.4 | 5.2 | 6.2 | 5.4 | 5.4 |
| Pension Benefit Guaranty Corp .. | .3 | .3 | .3 | .5 | .5 | .9 | 1.3 | .7 | 1.4 | .6 | .7 |
| Pension & Welfare Benefits Administration | 1.0 | 2.6 | 1.3 | 2.1 | 2.5 | 2.6 | 2.6 | 2.7 | 3.6 | 2.3 | 2.3 |
| Department of State ¹⁵ | 3.0 | 4.2 | 4.7 | 4.7 | 5.9 | 5.6 | 5.3 | 8.2 | 5.0 | 4.3 | 4.3 |

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

**Table C-90a. Federal outlays for research and development and for R&D plant, by agency:
fiscal years 1987-97**

[Dollars in millions]

| Agency and subdivision | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | Preliminary | |
|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------------|---------|
| | | | | | | | | | | 1996 | 1997 |
| Dept of Transportation, total | 347.7 | 332.1 | 291.5 | 287.3 | 361.0 | 411.1 | 455.3 | 536.9 | 661.4 | 551.1 | 864.2 |
| Coast Guard | 17.8 | 14.9 | 18.1 | 21.4 | 14.9 | 22.8 | 32.2 | 26.1 | 21.1 | 24.1 | 24.5 |
| Federal Aviation Admin | 190.5 | 190.2 | 153.5 | 185.5 | 216.0 | 250.7 | 260.1 | 258.9 | 270.8 | 277.6 | 260.9 |
| Federal Highway Admin | 76.3 | 60.1 | 76.5 | 44.0 | 86.1 | 81.2 | 87.5 | 178.5 | 260.6 | 133.5 | 456.9 |
| Federal Railroad Admin | 10.9 | 10.6 | 7.0 | 7.0 | 14.3 | 21.5 | 22.8 | 19.6 | 22.8 | 37.1 | 32.3 |
| Federal Transit Admin ¹⁶ | 9.4 | 1.4 | 2.0 | 2.3 | 2.1 | 1.5 | 16.5 | 18.5 | 33.4 | 27.7 | 22.1 |
| Maritime Administration | 7.2 | 2.6 | .0 | .9 | 1.5 | 1.7 | 1.7 | 1.7 | 2.3 | .3 | 1.8 |
| National Highway Traffic Safety Administration | 28.9 | 45.2 | 28.5 | 16.9 | 19.2 | 24.5 | 28.3 | 26.9 | 41.4 | 39.2 | 51.8 |
| Office of the Secretary Rsch & Special Programs Administration | 4.7 | 5.2 | 4.2 | 6.9 | 4.7 | 5.0 | 4.4 | 2.5 | 4.0 | 2.8 | 2.8 |
| Administration | 2.1 | 2.0 | 1.6 | 2.4 | 2.2 | 2.3 | 1.7 | 4.1 | 4.9 | 8.8 | 11.2 |
| Dept of the Treasury, total | 26.4 | 25.8 | 23.5 | 25.2 | 30.4 | 24.5 | 16.6 | 20.7 | 61.5 | 63.8 | 64.2 |
| Bureau of Engraving & Printing | 4.5 | 2.0 | 1.7 | 2.1 | 3.5 | 2.0 | 3.2 | 3.4 | 1.8 | 2.2 | 2.0 |
| Financial Crimes Enforcement Network | .0 | .0 | .0 | .0 | 1.8 | 1.5 | 1.5 | .0 | .0 | .0 | .0 |
| Internal Revenue Svc ^{17,18} | 14.1 | 14.0 | 14.0 | 16.3 | 17.3 | 17.3 | 6.5 | 11.3 | 49.7 | 50.6 | 54.3 |
| Off of Thrift Supervision ¹⁹ | NA | NA | NA | .0 | 3.0 | .8 | .7 | .5 | .6 | .5 | .6 |
| United States Customs Svc | 7.1 | 9.3 | 6.9 | 6.3 | 3.8 | 2.3 | 4.1 | 4.6 | 8.6 | 9.6 | 6.5 |
| United States Mint | .1 | .2 | .3 | .1 | .5 | .0 | . | .4 | .3 | .2 | .1 |
| US Secret Service ²⁰ | .5 | .4 | .6 | .5 | .4 | .6 | .6 | .5 | .6 | .6 | .6 |
| Department of Veterans Affairs | 198.8 | 201.9 | 186.4 | 219.0 | 221.6 | 207.6 | 250.8 | 246.0 | 258.3 | 259.1 | 261.2 |
| Other agencies: | | | | | | | | | | | |
| Advisory Commission on Intergovernmental Relations | 1.6 | 1.4 | 1.2 | 1.2 | 1.2 | 1.5 | 2.1 | 1.4 | 1.4 | 1.4 | .0 |
| Appalachian Regional Comm | .1 | .2 | .8 | .4 | .7 | 1.9 | .9 | .9 | .9 | .9 | .9 |
| Consumer Product Safety Comm | 2.1 | 1.2 | 1.3 | 1.2 | 1.3 | 1.2 | 1.2 | .4 | .4 | .1 | . |
| Environmental Protection Agcy | 325.9 | 340.0 | 343.2 | 388.5 | 400.1 | 411.9 | 497.7 | 558.3 | 495.5 | 422.3 | 523.8 |
| Federal Communications Comm | 1.0 | 1.2 | 1.1 | 1.3 | 1.4 | 1.6 | 1.6 | 1.7 | 2.3 | 2.8 | 2.7 |
| Federal Trade Commission | .5 | .4 | .4 | .5 | 1.0 | 1.3 | .9 | .7 | .6 | 1.0 | 1.0 |
| General Services Admin | 1.6 | 2.3 | .5 | .7 | 3.6 | 20.9 | 7.6 | 5.5 | 1.3 | 1.2 | 1.1 |
| International Development Cooperation Agcy, total | 263.2 | 229.1 | 279.1 | 334.0 | 344.0 | 205.9 | 321.7 | 372.6 | 256.8 | 277.7 | 244.4 |
| Agcy for Internat'l Dvlpmt ¹⁵ | 263.2 | 229.1 | 279.1 | 334.0 | 344.0 | 205.9 | 321.7 | 372.6 | 256.8 | 277.7 | 244.4 |
| Library of Congress | 6.5 | 7.1 | 8.0 | 8.4 | 8.6 | 10.0 | 10.7 | 12.5 | 7.7 | 11.0 | 8.3 |
| National Aeronautics & Space Administration | 3,564.3 | 4,230.4 | 5,506.1 | 6,762.2 | 7,675.0 | 8,386.6 | 8,885.4 | 8,576.8 | 9,116.2 | 10,074.2 | 9,839.3 |
| Nat'l Archives & Records Admin | 1.1 | .7 | .3 | .4 | .7 | .7 | .3 | .3 | .1 | .1 | .1 |
| National Science Foundation | 1,459.9 | 1,550.7 | 1,613.4 | 1,563.0 | 1,687.1 | 1,813.6 | 1,841.7 | 1,983.6 | 1,977.0 | 2,261.0 | 2,433.0 |
| Nuclear Regulatory Commission | 124.4 | 113.5 | 113.2 | 111.5 | 107.5 | 116.5 | 119.6 | 92.4 | 88.8 | 66.4 | 59.1 |
| Office of Thrift Supervision ¹⁹ | 3.4 | 3.4 | 4.1 | 4.1 | NA | NA | NA | NA | NA | NA | NA |
| Smithsonian Institution | 71.5 | 74.8 | 82.6 | 95.4 | 98.5 | 95.4 | 97.2 | 127.4 | 125.0 | 126.0 | 137.0 |
| Social Security Admin ¹¹ | NA | NA | NA | NA | NA | NA | NA | NA | NA | 8.3 | 27.7 |

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

**Table C-90a. Federal outlays for research and development and for R&D plant, by agency:
fiscal years 1987-97**

[Dollars in millions]

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| Agency and subdivision | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | Preliminary | |
|--|------|------|------|------|------|-------|-------|------|------|-------------|------|
| | | | | | | | | | | 1996 | 1997 |
| Tennessee Valley Authority | 76.9 | 86.9 | 61.7 | 66.7 | 72.3 | 103.5 | 109.6 | 97.9 | 94.1 | 104.4 | 77.0 |
| United States Arms Control & Disarmament Agency ²¹ | 4.6 | 3.4 | 2.8 | .2 | .4 | 2.1 | 1.5 | 1.3 | 1.1 | .5 | 1.0 |
| US Information Agency | 10.0 | 1.5 | 1.0 | .0 | .2 | .2 | .2 | .6 | .3 | .2 | .1 |
| US Internat'l Trade Comm | 7.2 | 8.1 | 8.7 | 9.1 | 9.9 | 12.3 | 12.2 | 9.4 | 12.2 | 12.7 | 12.5 |

- 1 Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.
- 2 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 3 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.
- 4 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.
- 5 The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.
- 6 This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.
- 7 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.
- 8 Obligations reported for the Administration for Children & Families may be incomplete for fiscal year 1992 due to unavailability of data.
- 9 In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.
- 10 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.
- 11 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.
- 12 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.
- 13 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.
- 14 The Bureau of Prisons was formerly listed as the Federal Prison System.
- 15 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.
- 16 The name of this agency changed from the Urban Mass Transit Administration to the Federal Transit Administration on Dec. 18, 1991.
- 17 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.
- 18 Large changes in obligations reported by the Internal Revenue Service for Vol. 44 are due to shifts in research funding.
- 19 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.
- 20 The United States Secret Service was formerly listed as the Office of Protective Research.
- 21 Fiscal year 1994 figures for the United States Arms Control & Disarmament Agency are estimates based on the agency's Vol. 43 submission.

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.

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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

**Table C-91. Federal outlays for research and development, by agency:
fiscal years 1976-86**

[Dollars in millions]

| Agency and subdivision | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
|---|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Total, all agencies | 20,220.2 | 22,082.7 | 24,020.1 | 25,838.2 | 29,154.2 | 32,459.1 | 34,390.7 | 36,659.4 | 39,691.0 | 44,171.4 | 50,609.1 |
| Departments: | | | | | | | | | | | |
| Dept of Agriculture, total | 460.0 | 515.3 | 553.8 | 608.7 | 659.8 | 743.4 | 807.2 | 826.0 | 864.3 | 889.0 | 918.0 |
| Agricultural Cooperative Svc | NA | NA | NA | NA | 1.6 | 1.3 | 1.7 | 2.1 | 2.2 | 2.9 | 2.6 |
| Agricultural Marketing Svc ¹ | .0 | .0 | .0 | .9 | 1.3 | 1.2 | 1.5 | .6 | 1.7 | 1.3 | 1.7 |
| Agricultural Research Svc | NA | NA | NA | NA | NA | 390.1 | 417.5 | 438.7 | 454.3 | 466.2 | 468.1 |
| Animal & Plant Health Inspection Service | NA | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 4.2 |
| Cooperative State Rsch, Ed, & Extension Service | NA | NA | NA | NA | NA | 199.0 | 219.8 | 219.6 | 235.7 | 236.7 | 254.8 |
| Economic Research Service | NA | NA | NA | NA | NA | 38.0 | 37.0 | 36.8 | 40.9 | 45.1 | 46.0 |
| Economics, Statistics, & Cooperative Svc, total ² | 26.9 | 30.5 | 32.4 | 35.6 | NA | NA | NA | NA | NA | NA | NA |
| Economic Research Service | 23.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Farmer Cooperative Service | 1.4 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Statistical Reporting Svc | 2.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Economics & Statistics Svc ³ | NA | NA | NA | NA | 31.1 | NA | NA | NA | NA | NA | NA |
| Forest Service | 86.9 | 89.0 | 84.6 | 102.2 | 97.0 | 98.6 | 113.2 | 109.8 | 108.8 | 113.1 | 112.5 |
| Grain Inspection Packers & Stockyards Administration | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .9 | 1.0 |
| Human Nutrition Information Service | NA | NA | NA | NA | NA | .0 | 3.8 | 5.8 | 7.9 | 7.2 | 10.6 |
| National Agricultural Statistics Service | .0 | NA | NA | NA | NA | 7.5 | 7.0 | 7.6 | 8.2 | 8.4 | 8.0 |
| Office of International Cooperation & Development | NA | NA | NA | .0 | 6.4 | 6.9 | 4.6 | 4.1 | 3.6 | 5.8 | 7.5 |
| Office of Transportation | NA | NA | NA | .5 | .8 | .9 | .9 | .8 | 1.0 | 1.3 | 1.0 |
| Science & Ed Admin, total | 346.2 | 395.7 | 436.8 | 469.5 | 521.7 | NA | NA | NA | NA | NA | NA |
| Agricultural Research Svc | 242.0 | 275.6 | 301.9 | 312.9 | 347.5 | NA | NA | NA | NA | NA | NA |
| Cooperative State Rsch Svc | 104.2 | 120.1 | 134.9 | 156.6 | 174.2 | NA | NA | NA | NA | NA | NA |
| Nat'l Agricultural Library | - | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Department of Commerce, total | 225.5 | 232.5 | 269.2 | 305.2 | 355.9 | 345.5 | 285.4 | 334.5 | 327.0 | 373.6 | 372.6 |
| Bureau of the Census | 2.5 | 2.5 | 3.3 | 2.7 | 3.2 | 3.8 | 3.7 | 4.3 | 4.4 | 4.8 | 4.6 |
| Economic Development Admin | 13.6 | 20.0 | 25.1 | 26.7 | 35.5 | 35.5 | 12.1 | 5.3 | 5.1 | 7.8 | 7.8 |
| Maritime Administration ⁴ | 22.8 | 15.1 | 18.5 | 18.2 | 23.5 | NA | NA | NA | NA | NA | NA |
| Minority Business Dvlpmt Agcy | 3.2 | 1.6 | .0 | .0 | .0 | NA | .0 | .0 | .0 | .0 | .0 |
| National Fire Prevention & Control Administration ⁵ | 4.6 | 6.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| National Institute of Standards & Technology | 48.0 | 52.6 | 58.1 | 63.4 | 76.8 | 83.9 | 86.6 | 93.3 | 94.1 | 102.2 | 103.3 |
| National Oceanic & Atmospheric Administration | 129.4 | 131.2 | 162.5 | 190.1 | 206.7 | 208.1 | 174.1 | 222.0 | 214.7 | 249.1 | 247.2 |
| National Telecommunications & Information Administration | NA | 2.5 | 1.3 | 3.3 | 9.1 | 12.9 | 8.0 | 9.6 | 8.6 | 9.0 | 8.5 |
| Office of the Secretary | .0 | .0 | .0 | .3 | .6 | .1 | .2 | - | .1 | .6 | 1.2 |
| Office of Telecommunications | 1.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Patent & Trademark Office | .4 | .5 | .5 | .5 | .5 | 1.1 | .7 | .0 | .0 | .0 | .0 |
| Department of Defense, total | 9,301.3 | 10,182.4 | 10,622.8 | 11,497.3 | 13,501.4 | 15,754.5 | 18,251.2 | 21,105.8 | 22,619.3 | 26,742.0 | 32,210.5 |
| Department of the Army | 1,949.0 | 2,180.2 | 2,457.5 | 2,534.1 | 2,845.3 | 3,114.8 | 3,400.9 | 3,827.0 | 3,983.0 | 4,176.6 | 4,223.5 |
| Department of the Navy | 3,260.8 | 3,519.0 | 3,870.3 | 3,873.5 | 4,417.0 | 4,824.7 | 5,269.4 | 5,886.8 | 6,709.4 | 8,161.1 | 9,809.1 |
| Department of the Air Force | 3,568.1 | 3,862.2 | 3,719.8 | 4,263.1 | 5,220.6 | 6,626.6 | 8,141.4 | 9,537.2 | 10,658.5 | 12,063.9 | 14,044.0 |
| Defense Agencies | 500.3 | 603.3 | 548.5 | 798.3 | 978.2 | 1,152.6 | 1,394.8 | 1,811.5 | 1,213.6 | 2,285.2 | 4,062.4 |
| Defense Civil Preparedness Agency ⁶ | 2.2 | 1.2 | 2.9 | NA | NA | NA | NA | NA | NA | NA | NA |
| Test & Evaluation, Deputy Under Secretary of Defense | 20.9 | 16.5 | 23.9 | 28.3 | 40.4 | 35.7 | 44.8 | 43.3 | 54.7 | 55.1 | 71.6 |

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

**Table C-91. Federal outlays for research and development, by agency:
fiscal years 1976-86**

[Dollars in millions]

Page 2 of 4

| Agency and subdivision | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Department of Education ⁷ | NA | NA | NA | 136.5 | 120.9 | .0 | 150.1 | 111.5 | 181.3 | 95.7 | 124.5 |
| Department of Energy ^{8 9} | NA | 3,166.0 | 3,931.7 | 4,303.3 | 4,697.5 | 5,041.4 | 4,842.1 | 4,817.5 | 4,740.3 | 4,947.7 | 4,655.8 |
| Department of Health, Education, & Welfare, total | 2,562.6 | 2,576.6 | 3,002.2 | NA | NA | NA | NA | NA | NA | NA | NA |
| Alcohol, Drug Abuse, & Mental Health Administration | 145.1 | 167.2 | 179.9 | NA | NA | NA | NA | NA | NA | NA | NA |
| Center for Disease Control | 37.1 | 42.6 | 58.3 | NA | NA | NA | NA | NA | NA | NA | NA |
| Food & Drug Administration | 18.5 | 24.4 | 54.7 | NA | NA | NA | NA | NA | NA | NA | NA |
| Health Care Financing Admin | NA | 30.0 | 14.2 | NA | NA | NA | NA | NA | NA | NA | NA |
| Health Resources Admin | 24.7 | 1.4 | 6.7 | NA | NA | NA | NA | NA | NA | NA | NA |
| Health Services Admin | 11.3 | 15.6 | 15.7 | NA | NA | NA | NA | NA | NA | NA | NA |
| National Inst of Education | 69.8 | 59.7 | 74.8 | NA | NA | NA | NA | NA | NA | NA | NA |
| National Insts of Health | 2,066.5 | 2,063.7 | 2,440.3 | NA | NA | NA | NA | NA | NA | NA | NA |
| Office of Assistant Secretary for Education | 1.5 | 1.7 | 1.1 | NA | NA | NA | NA | NA | NA | NA | NA |
| Office of Assistant Secretary for Health | .0 | 28.1 | 13.3 | NA | NA | NA | NA | NA | NA | NA | NA |
| Office of Education | 56.8 | 30.3 | 25.8 | NA | NA | NA | NA | NA | NA | NA | NA |
| Office of Human Dvlpmt Svcs | 61.4 | 80.0 | 75.3 | NA | NA | NA | NA | NA | NA | NA | NA |
| Office of the Secretary | 32.5 | 21.3 | 30.2 | NA | NA | NA | NA | NA | NA | NA | NA |
| Social & Rehabilitation Svc | 18.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Social Security Admin | 18.9 | 10.9 | 11.9 | NA | NA | NA | NA | NA | NA | NA | NA |
| Department of Health & Human Services, total | NA | NA | NA | 3,099.3 | 3,477.2 | 3,954.9 | 4,015.3 | 4,092.0 | 4,450.3 | 5,007.0 | 5,498.7 |
| Alcohol, Drug Abuse, & Mental Health Administration | NA | NA | NA | 184.4 | 217.9 | 250.9 | 291.7 | 288.8 | 272.0 | 348.4 | 396.1 |
| Centers for Disease Control & Prevention | NA | NA | NA | 72.4 | 72.6 | 83.0 | 88.4 | 80.4 | 46.3 | 47.6 | 52.7 |
| Food & Drug Administration | NA | NA | NA | 40.0 | 60.3 | 57.1 | 58.4 | 73.5 | 76.9 | 81.2 | 79.1 |
| Health Care Financing Admin | NA | NA | NA | 19.5 | 29.4 | 35.4 | 29.1 | 30.2 | 33.1 | 33.5 | 28.1 |
| Health Resources Admin | NA | NA | NA | 3.2 | 2.8 | 3.7 | NA | NA | NA | NA | NA |
| Hlth Resources & Svcs Admin | NA | NA | NA | NA | NA | NA | 17.5 | 16.3 | 13.4 | 16.0 | 13.0 |
| Health Services Admin | NA | NA | NA | 23.1 | 20.2 | 16.9 | NA | NA | NA | NA | NA |
| Human Development Services | NA | NA | NA | 57.1 | 48.5 | 85.5 | 33.0 | 22.3 | 15.4 | 21.4 | 52.0 |
| National Insts of Health | NA | NA | NA | 2,641.0 | 2,953.2 | 3,350.2 | 3,439.6 | 3,539.5 | 3,960.6 | 4,420.1 | 4,845.0 |
| Office of the Assistant Secretary for Health | NA | NA | NA | 14.7 | 27.0 | 37.2 | 29.0 | 16.9 | 11.5 | 15.8 | 21.6 |
| Office of the Secretary | NA | NA | NA | 26.5 | 24.0 | 19.5 | 13.4 | 14.4 | 10.4 | 9.6 | 6.1 |
| Social Security Admin | NA | NA | NA | 17.4 | 21.4 | 15.4 | 15.4 | 9.6 | 10.7 | 13.3 | 5.0 |
| Dept of Housing & Urban Dvlpmt | 60.3 | 69.0 | 59.3 | 74.3 | 65.8 | 54.1 | 37.0 | 30.9 | 24.9 | 18.6 | 13.9 |
| Dept of the Interior, total | 319.0 | 299.5 | 332.3 | 395.3 | 422.7 | 432.8 | 393.6 | 410.3 | 430.7 | 412.8 | 439.3 |
| Bonneville Power Admin ⁹ | 8.3 | .0 | .0 | .0 | .0 | 13.7 | NA | NA | NA | NA | NA |
| Bureau of Land Management | .7 | .9 | 1.2 | 1.3 | 1.7 | 1.9 | 5.3 | 3.9 | 3.8 | 4.4 | 3.4 |
| Bureau of Mines | 113.7 | 100.7 | 104.1 | 117.1 | 128.4 | 106.9 | 105.0 | 101.9 | 111.3 | 100.4 | 131.0 |
| Bureau of Reclamation | 8.7 | 10.1 | 10.9 | 11.0 | 13.1 | 13.4 | 10.7 | 11.1 | 10.1 | 10.5 | 12.0 |
| Geological Survey ¹⁰ | 115.7 | 112.2 | 128.7 | 144.2 | 145.2 | 168.2 | 150.1 | 169.9 | 227.2 | 229.9 | 225.6 |
| Heritage Conservation & Recreation Service | - | - | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Minerals Management Service | NA | NA | NA | NA | NA | NA | .0 | 1.3 | 1.5 | 1.5 | 1.1 |
| National Park Service | 9.3 | 7.6 | 7.7 | 8.9 | 8.2 | 10.4 | 11.2 | 13.7 | 14.0 | 15.0 | 17.3 |
| Office of the Secretary | .7 | 1.0 | 2.1 | 1.5 | 1.9 | 2.0 | .4 | 1.3 | .6 | .3 | .6 |
| Office of Surface Mining Reclamation & Enforcement | NA | .0 | .0 | 5.0 | 7.5 | 5.8 | 1.4 | 1.5 | .8 | 2.0 | 2.3 |
| Office of Water Rsch & Tech ¹⁰ | 19.0 | 13.3 | 17.0 | 23.1 | 29.3 | 21.1 | 19.4 | 8.3 | 2.6 | NA | NA |
| US Fish & Wildlife Svc | 42.9 | 53.6 | 60.5 | 83.2 | 87.7 | 89.5 | 90.1 | 97.5 | 58.8 | 48.8 | 46.0 |
| Department of Justice, total | 39.9 | 33.7 | 33.5 | 45.9 | 45.3 | 26.1 | 36.6 | 27.6 | 26.5 | 32.7 | 32.1 |
| Bureau of Prisons | .7 | 1.0 | 1.8 | 3.3 | 2.1 | 2.5 | 1.7 | 1.7 | 1.6 | 1.5 | 3.0 |
| Drug Enforcement Admin | 2.6 | 3.8 | 1.7 | 2.7 | 4.4 | 1.2 | 2.7 | 2.5 | 2.0 | 1.6 | 2.5 |
| Federal Bureau of Investigation | 1.4 | 1.1 | .9 | 2.5 | 1.8 | 1.5 | 1.1 | 1.9 | 2.5 | 8.9 | 6.9 |
| Immigration & Naturalization Service | .0 | .2 | .3 | .3 | .3 | 1.0 | .3 | .2 | .6 | .4 | .4 |
| Office of Justice Programs | 35.2 | 27.6 | 27.1 | 35.5 | 35.1 | 19.2 | 30.4 | 21.1 | 19.6 | 20.1 | 19.2 |
| Office of Legal Policy | .0 | .0 | 1.6 | 1.6 | 1.6 | .7 | .4 | .2 | .3 | .2 | .2 |

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

**Table C-91. Federal outlays for research and development, by agency:
fiscal years 1976-86**

[Dollars in millions]

| Agency and subdivision | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
|--|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Department of Labor, total | 27.8 | 28.1 | 97.6 | 109.2 | 137.7 | 61.6 | 29.4 | 16.8 | 14.1 | 13.7 | 10.9 |
| Bureau of Labor Statistics | 1.3 | 1.4 | 1.2 | .9 | .9 | .3 | .3 | .7 | .5 | .6 | .6 |
| Employment Standards Admin | 4.1 | 4.3 | 3.6 | 5.1 | 4.7 | 3.0 | 1.3 | 1.3 | 1.3 | - | .0 |
| Employment & Training Admin | 17.5 | 16.8 | 86.6 | 93.0 | 121.7 | 52.1 | 20.2 | 6.0 | 3.5 | 4.5 | 3.4 |
| Labor-Management Relations & Cooperative Programs ¹¹ | NA | NA | NA | NA | NA | NA | NA | NA | .3 | .3 | .2 |
| Labor-Management Services Administration ¹¹ | .7 | 1.9 | 2.7 | 3.5 | 2.8 | 1.7 | .7 | .9 | NA | NA | NA |
| Occupational Safety & Health Administration | 2.9 | 3.4 | 1.3 | 5.1 | 6.3 | 3.0 | 4.9 | 5.3 | 5.1 | 4.5 | 3.6 |
| Office of the Secretary | 1.2 | .2 | 2.2 | 1.6 | 1.3 | 1.0 | .9 | 1.5 | 1.9 | 2.6 | 2.1 |
| Pension Benefit Guaranty Corp .. | NA | NA | NA | NA | NA | .5 | 1.1 | 1.1 | .3 | .2 | .1 |
| Pension & Welfare Benefits Administration | NA | NA | NA | NA | NA | NA | NA | NA | 1.2 | 1.1 | .9 |
| Department of State, total ¹² | 25.9 | 40.1 | 57.4 | 3.2 | 2.2 | 1.8 | 1.5 | 1.5 | 1.6 | 1.5 | 1.5 |
| Agcy for Internat'l Dvlpm ¹² | 24.3 | 37.8 | 54.5 | NA | NA | NA | NA | NA | NA | NA | NA |
| Departmental Funds | 1.6 | 2.3 | 2.8 | 3.2 | 2.2 | 1.8 | .0 | .0 | .0 | .0 | .0 |
| Dept of Transportation, total | 323.6 | 346.0 | 364.1 | 356.2 | 374.7 | 415.9 | 347.0 | 272.4 | 344.6 | 416.1 | 429.8 |
| Coast Guard | 17.3 | 16.5 | 19.6 | 20.5 | 17.9 | 25.9 | 20.0 | 19.6 | 19.5 | 19.0 | 16.7 |
| Federal Aviation Admin | 112.7 | 99.8 | 99.2 | 101.9 | 104.2 | 119.8 | 106.6 | 90.3 | 155.1 | 270.1 | 303.3 |
| Federal Highway Admin | 42.5 | 52.6 | 52.5 | 48.7 | 53.1 | 56.3 | 42.5 | 32.5 | 51.1 | 47.5 | 45.5 |
| Federal Railroad Admin | 40.5 | 45.6 | 51.5 | 51.7 | 53.2 | 48.2 | 17.4 | 18.3 | 14.7 | 16.2 | 15.4 |
| Federal Transit Admin | 46.9 | 50.4 | 52.5 | 50.5 | 58.9 | 61.9 | 69.8 | 36.5 | 31.2 | 18.6 | 8.8 |
| Maritime Administration ⁴ | NA | NA | NA | NA | NA | 17.4 | 18.9 | 13.5 | 11.1 | 10.2 | 14.1 |
| National Highway Traffic Safety Administration | 33.8 | 49.3 | 68.3 | 53.4 | 60.1 | 60.3 | 59.7 | 50.6 | 52.7 | 27.5 | 18.6 |
| Office of the Secretary | 29.9 | 31.8 | 19.7 | 16.7 | 14.9 | 13.9 | 5.6 | 4.0 | 5.0 | 4.7 | 5.2 |
| Rsch & Special Programs Administration | NA | .0 | .8 | 12.8 | 12.4 | 12.3 | 6.5 | 7.1 | 4.2 | 2.4 | 2.3 |
| Dept of the Treasury, total | 3.7 | 4.9 | 9.9 | 9.5 | 10.9 | 10.8 | 13.6 | 15.5 | 13.5 | 24.2 | 22.9 |
| Bureau of Alcohol, Tobacco, & Firearms | .0 | 1.1 | 2.0 | 2.5 | 1.6 | .3 | NA | NA | NA | NA | NA |
| Bureau of Engraving & Printing | 2.8 | 2.5 | 3.7 | 2.1 | 2.3 | 2.7 | 4.8 | 3.9 | 3.6 | 5.0 | 4.2 |
| Internal Revenue Service | .0 | .0 | 2.4 | 3.6 | 4.0 | 4.2 | 5.4 | 8.0 | 7.9 | 15.9 | 13.4 |
| United States Customs Svc | 1.0 | 1.3 | 1.8 | 1.3 | 3.0 | 3.5 | 3.1 | 3.3 | 1.8 | 2.2 | 4.8 |
| United States Mint | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .6 | - |
| United States Secret Service | NA | NA | NA | NA | - | .1 | .3 | .4 | .2 | .6 | .4 |
| Department of Veterans Affairs | 97.7 | 106.9 | 114.3 | 120.3 | 134.4 | 137.8 | 137.7 | 154.1 | 189.0 | 215.1 | 181.2 |
| Other agencies: | | | | | | | | | | | |
| ACTION | .1 | .4 | 1.6 | 1.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Advisory Commission on Intergovernmental Relations | 1.0 | 1.3 | 1.5 | 1.7 | 1.7 | 1.9 | 1.8 | 1.9 | 2.1 | 2.0 | 2.0 |
| Appalachian Regional Comm | .7 | .6 | .5 | .9 | .8 | .4 | .4 | .2 | .4 | .2 | .2 |
| Civil Service Commission | 4.0 | 3.9 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Community Services Admin | 10.0 | 21.0 | 24.1 | 19.5 | 25.5 | 26.2 | NA | NA | NA | NA | NA |
| Consumer Product Safety Comm .. | 3.6 | 6.8 | 3.9 | 3.1 | 3.6 | .9 | .2 | .5 | 1.2 | 2.2 | 2.0 |
| Energy Rsch & Dvlpm ⁸ Admin | 2,189.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Environmental Protection Agcy | 259.0 | 281.3 | 310.3 | 386.5 | 384.7 | 344.3 | 336.2 | 312.5 | 266.1 | 274.8 | 306.9 |
| Federal Communications Comm | 1.1 | 1.9 | 2.4 | 1.9 | 3.1 | 1.6 | 1.2 | 1.3 | .9 | 1.1 | .9 |
| Federal Emergency Management Agency, total ^{6 5} | NA | NA | 6.8 | 12.0 | 11.2 | 11.6 | 8.8 | 3.2 | 10.9 | 4.6 | .0 |
| National Fire Prevention & Control Administration ⁵ | NA | NA | 6.8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Federal Energy Administration | 3.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Federal Trade Commission | .9 | 1.1 | 1.4 | 1.5 | 3.2 | 1.1 | 1.2 | 1.4 | 1.6 | 1.7 | 1.8 |
| Foundation for Educational Assistance ⁷ | NA | NA | NA | NA | NA | 111.8 | NA | NA | NA | NA | NA |
| General Services Admin ¹³ | 1.2 | .9 | 2.7 | .5 | .2 | .6 | 1.0 | .5 | 2.4 | .4 | 1.2 |

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

**Table C-91. Federal outlays for research and development, by agency:
fiscal years 1976-86**

[Dollars in millions]

Page 4 of 4

| Agency and subdivision | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| International Development Cooperation Agcy, total ¹² | NA | NA | NA | 75.8 | 107.8 | 159.9 | 178.3 | 212.8 | 195.8 | 220.3 | 241.5 |
| Agcy for Internat'l Dvlpmt ¹² | NA | NA | NA | 75.8 | 107.8 | 159.9 | 178.3 | 212.8 | 195.8 | 220.3 | 241.5 |
| Interstate Commerce Comm | 0.1 | 0.1 | 0.3 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | .0 |
| Library of Congress | 2.9 | 3.6 | 4.7 | 5.4 | 6.5 | 5.1 | 5.4 | 6.7 | 7.2 | 6.3 | 6.9 |
| National Aeronautics & Space Administration | 3,548.1 | 3,344.2 | 3,307.9 | 3,262.5 | 3,465.4 | 3,558.6 | 3,140.7 | 2,538.0 | 3,538.7 | 2,970.3 | 3,431.5 |
| National Archives & Records Administration ¹³ | NA | NA | NA | NA | NA | NA | NA | NA | NA | .5 | 1.0 |
| National Science Foundation | 619.0 | 649.6 | 700.5 | 775.2 | 830.6 | 892.3 | 1,013.6 | 991.8 | 1,108.0 | 1,186.0 | 1,410.7 |
| Nuclear Regulatory Commission | 73.3 | 101.7 | 125.4 | 137.5 | 175.4 | 208.7 | 208.6 | 244.0 | 198.6 | 161.1 | 136.0 |
| Office of Personnel Management | NA | NA | 4.5 | 6.0 | 6.8 | 8.1 | .0 | .0 | .0 | .0 | .0 |
| Office of Telecommunications Policy | 4.7 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Office of Thrift Supervision | .8 | 1.7 | 1.0 | .9 | 1.2 | 1.0 | 2.7 | 3.0 | 2.6 | 2.8 | 3.3 |
| Small Business Administration | .1 | .5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Smithsonian Institution | 27.5 | 29.8 | 34.6 | 37.2 | 39.1 | 43.5 | 48.0 | 56.2 | 54.6 | 58.9 | 62.5 |
| Tennessee Valley Authority | 18.7 | 26.5 | 31.5 | 37.2 | 74.7 | 93.9 | 89.3 | 63.3 | 66.0 | 80.7 | 78.9 |
| United States Arms Control & Disarmament Agency | 1.8 | 2.2 | 3.6 | 3.5 | 3.8 | 2.4 | 1.9 | 1.0 | 1.3 | 1.1 | .9 |
| US Information Agency ¹⁴ | .1 | .1 | .1 | .1 | .1 | 1.2 | - | - | - | 1.1 | 2.4 |
| US Internat'l Trade Comm | 1.5 | 2.6 | 3.1 | 3.4 | 2.1 | 3.4 | 3.8 | 4.7 | 5.0 | 5.8 | 6.9 |

- 1 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.
- 2 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 1977-79.
- 3 Data reported for the Economics & Statistics Service include programs of the Economic Research Service and the Statistical Reporting Service for fiscal year 1980.
- 4 In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.
- 5 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.
- 6 Functions for the Defense Civil Preparedness Agency transferred from the Department of Defense to the Federal Emergency Management Agency on July 20, 1979.
- 7 The 1983 Budget of the United States Government proposed that the Department of Education be replaced by the Foundation for Educational Assistance.
- 8 In 1977 the Energy Research & Development Administration became part of the Department of Energy.
- 9 In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.
- 10 As of 1985 the Office of Water Research & Technology has been combined with the Geological Survey.
- 11 In 1984 the Labor-Management Services Administration was replaced by Labor-Management Relations & Cooperative Programs.
- 12 The Agency for International Development transferred from the Department of State to the International Development Cooperative Agency on Oct. 1, 1979.
- 13 As of 1985 the National Archives & Records Administration is separate from the General Services Administration.
- 14 Data reported for the United States Information Agency include funds for the former International Communication Agency for fiscal years 1977-81.

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.

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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

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**Table C-91a. Federal outlays for research and development, by agency:
fiscal years 1987-97**

[Dollars in millions]

| Agency and subdivision | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | Preliminary | |
|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|-------------|----------|
| | | | | | | | | | | 1996 | 1997 |
| Total, all agencies | 51,611.7 | 54,739.4 | 59,450.4 | 62,135.3 | 61,130.4 | 62,934.5 | 65,241.3 | 66,158.8 | 66,374.6 | 66,876.9 | 67,691.5 |
| Departments: | | | | | | | | | | | |
| Dept of Agriculture, total | 922.9 | 971.2 | 1,037.5 | 1,072.5 | 1,189.4 | 1,246.0 | 1,303.9 | 1,353.7 | 1,375.3 | 1,362.9 | 1,353.5 |
| Agricultural Cooperative Svc | 2.8 | 2.7 | 2.8 | 2.7 | 2.8 | 3.4 | 2.9 | 3.7 | NA | NA | NA |
| Agricultural Marketing Svc ¹ | 1.4 | 1.6 | 1.5 | 2.7 | 3.7 | 4.3 | 4.7 | 4.6 | 5.0 | 4.9 | 4.9 |
| Agricultural Research Svc ² | 463.2 | 482.1 | 528.0 | 548.1 | 573.5 | 617.1 | 643.4 | 660.0 | 679.3 | 680.3 | 693.8 |
| Animal & Plant Health Inspection Service | 4.9 | 5.6 | 7.4 | 8.0 | 15.7 | 16.7 | 17.1 | 19.2 | 19.1 | 19.7 | 20.6 |
| Cooperative State Rsch, Ed, & Extension Service ³ | 267.1 | 277.3 | 298.3 | 303.9 | 380.1 | 354.9 | 379.4 | 404.1 | 418.8 | 417.5 | 390.2 |
| Economic Research Service | 43.2 | 47.2 | 50.0 | 50.7 | 53.0 | 57.5 | 61.5 | 57.3 | 52.0 | 53.2 | 54.7 |
| Foreign Agricultural Svc ⁴ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .8 | .5 | 1.4 | 1.4 |
| Forest Service | 119.9 | 135.8 | 134.7 | 139.6 | 144.7 | 174.8 | 179.3 | 190.8 | 193.5 | 178.0 | 179.8 |
| Grain Inspection Packers & Stockyards Administration ⁵ | 1.2 | 1.0 | 1.1 | .6 | .7 | 1.8 | 1.8 | 1.8 | 1.5 | 2.8 | 2.8 |
| Human Nutrition Information Service ² | 9.6 | 8.2 | 8.4 | 9.0 | 8.9 | 9.7 | 7.3 | 5.3 | NA | NA | NA |
| National Agricultural Statistics Service | 3.5 | 3.6 | 2.8 | 2.7 | 3.2 | 3.5 | 3.9 | 3.6 | 4.2 | 3.8 | 3.9 |
| Office of International Cooperation & Dvlpmt ⁴ | 5.1 | 5.0 | 2.5 | 4.3 | 3.1 | 2.4 | 2.6 | .0 | NA | NA | NA |
| Office of Transportation | 1.0 | 1.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Rural Business-Cooperative Service ⁶ | NA | NA | NA | NA | NA | NA | NA | 2.4 | 1.6 | 1.4 | 1.4 |
| Department of Commerce, total | 307.0 | 378.6 | 394.0 | 426.8 | 485.1 | 622.1 | 629.6 | 797.4 | 863.0 | 926.0 | 991.7 |
| Bureau of the Census | 4.5 | 5.6 | 5.0 | 6.7 | 6.6 | 5.5 | 5.0 | 5.4 | 5.1 | 7.4 | 7.4 |
| Economic Development Admin | 7.2 | 2.4 | 1.1 | 1.5 | 1.0 | 1.1 | .7 | .3 | 1.0 | .5 | 1.5 |
| National Institute of Standards & Technology | 100.0 | 101.3 | 113.0 | 112.3 | 135.9 | 149.1 | 180.1 | 225.2 | 327.4 | 384.8 | 437.3 |
| National Oceanic & Atmospheric Administration | 187.1 | 263.0 | 268.6 | 300.1 | 338.0 | 462.4 | 439.5 | 562.6 | 523.1 | 528.8 | 540.8 |
| National Telecommunications & Information Administration | 7.8 | 6.1 | 6.2 | 6.2 | 3.6 | 4.0 | 4.2 | 3.9 | 6.4 | 4.5 | 4.7 |
| Office of the Secretary | .3 | .1 | .1 | - | - | - | - | - | - | .0 | .0 |
| Department of Defense, total | 33,254.4 | 34,156.8 | 36,453.4 | 36,703.2 | 33,013.5 | 34,220.8 | 34,152.7 | 34,918.2 | 33,629.5 | 33,405.7 | 32,819.2 |
| Department of the Army | 4,949.0 | 4,837.8 | 5,201.6 | 5,750.2 | 5,659.5 | 6,273.2 | 6,118.3 | 5,794.0 | 5,133.0 | 5,107.1 | 4,576.6 |
| Department of the Navy | 9,357.1 | 9,003.1 | 9,475.0 | 9,352.3 | 7,815.0 | 8,004.0 | 9,114.0 | 8,150.5 | 9,416.6 | 8,552.6 | 7,942.9 |
| Department of the Air Force | 13,906.8 | 14,567.0 | 15,190.8 | 14,687.9 | 12,825.6 | 12,346.1 | 12,056.9 | 12,645.5 | 12,024.9 | 11,780.8 | 12,962.4 |
| Defense Agencies | 4,958.4 | 5,622.1 | 6,409.5 | 6,765.0 | 6,621.8 | 7,358.7 | 6,628.0 | 8,084.7 | 6,808.2 | 7,687.3 | 7,063.5 |
| Operational Test & Evaluation, Director | 4.4 | 7.2 | 31.6 | 32.0 | 22.3 | 9.4 | 12.3 | 11.9 | 12.4 | 30.8 | 21.8 |
| Test & Evaluation, Deputy Under Secretary of Defense | 78.8 | 119.6 | 145.0 | 115.8 | 69.4 | 229.4 | 223.2 | 231.8 | 234.3 | 247.1 | 252.0 |
| Department of Education | 122.6 | 131.8 | 153.4 | 147.9 | 114.5 | 133.0 | 173.8 | 177.2 | 179.6 | 174.6 | 169.5 |
| Department of Energy | 4,711.3 | 4,964.7 | 5,200.6 | 5,508.4 | 5,727.2 | 6,034.7 | 6,185.1 | 5,974.7 | 6,152.2 | 5,858.0 | 5,963.6 |

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

**Table C-91a. Federal outlays for research and development, by agency:
fiscal years 1987-97**

[Dollars in millions]

Page 2 of 4

| Agency and subdivision | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | Preliminary | |
|---|---------|---------|---------|---------|---------|---------|----------|----------|----------|-------------|----------|
| | | | | | | | | | | 1996 | 1997 |
| Department of Health & Human Services, total | 5,719.5 | 6,892.5 | 7,717.4 | 8,308.7 | 9,627.3 | 8,994.8 | 10,325.9 | 10,218.2 | 10,978.2 | 11,006.4 | 11,882.3 |
| Administration on Aging ⁷ | NA | NA | NA | NA | 20.6 | 20.2 | 20.9 | 19.1 | 20.7 | 2.9 | 2.9 |
| Administration for Children & Families ^{8 7} | NA | NA | NA | NA | 110.2 | 35.1 | 19.3 | 11.3 | 12.0 | 9.0 | 19.0 |
| Agency for Health Care Policy & Research ⁹ | NA | NA | NA | 5.3 | 11.9 | 113.5 | 87.6 | 111.0 | 133.0 | 124.0 | 85.0 |
| Alcohol, Drug Abuse, & Mental Health Administration ¹⁰ | 475.5 | 554.8 | 695.7 | 842.7 | 1,460.6 | NA | NA | NA | NA | NA | NA |
| Centers for Disease Control & Prevention | 66.2 | 88.7 | 117.8 | 95.6 | 113.4 | 146.9 | 162.5 | 206.8 | 317.4 | 323.4 | 361.2 |
| Food & Drug Administration | 83.7 | 89.6 | 94.0 | 94.0 | 125.0 | 135.7 | 154.5 | 138.6 | 131.3 | 131.3 | 131.3 |
| Health Care Financing Admin | 36.1 | 31.4 | 32.5 | 14.4 | 21.7 | 63.9 | 69.5 | 72.3 | 72.9 | 70.1 | 59.0 |
| Hlth Resources & Svcs Admin | 9.2 | 10.0 | 10.5 | 11.9 | 11.0 | 10.1 | 9.6 | 16.4 | 12.8 | 12.7 | 11.7 |
| Human Development Svcs ⁷ | 51.1 | 50.9 | 73.3 | 76.7 | NA | NA | NA | NA | NA | NA | NA |
| National Insts of Health ¹⁰ | 4,956.2 | 6,031.2 | 6,645.0 | 7,127.0 | 7,714.0 | 8,409.2 | 9,765.1 | 9,614.8 | 10,262.8 | 10,325.7 | 11,205.8 |
| Office of the Assistant Secretary for Health ⁹ | 23.5 | 20.0 | 26.0 | 22.3 | 18.2 | 21.7 | 15.8 | .7 | .6 | .5 | .5 |
| Office of the Secretary | 8.2 | 4.7 | 7.8 | 5.0 | 8.8 | 5.0 | 5.2 | 5.0 | 3.5 | 7.0 | 6.0 |
| Social Security Admin ¹ | 9.8 | 11.1 | 14.8 | 13.9 | 11.9 | 33.4 | 15.9 | 22.2 | 11.3 | NA | NA |
| Dept of Housing & Urban Dvlpmnt ... | 19.7 | 14.9 | 20.7 | 21.7 | 18.1 | 23.5 | 28.4 | 28.5 | 38.0 | 34.8 | 39.1 |
| Dept of the Interior, total | 390.0 | 414.6 | 478.4 | 492.5 | 535.6 | 610.6 | 631.0 | 637.4 | 552.3 | 567.6 | 584.4 |
| Bureau of Land Management | 3.6 | 3.7 | 3.0 | 2.8 | 8.8 | 6.3 | 8.9 | .0 | .0 | .0 | .0 |
| Bureau of Mines | 91.2 | 87.6 | 90.6 | 93.6 | 96.3 | 113.9 | 111.8 | 107.9 | .0 | NA | NA |
| Bureau of Reclamation | 10.6 | 4.4 | 4.2 | 5.8 | 8.7 | 12.2 | 9.6 | 7.4 | 8.0 | 6.0 | 7.6 |
| Geological Survey ¹² | 210.4 | 237.9 | 299.5 | 300.0 | 316.6 | 365.9 | 381.2 | 369.1 | 354.1 | 521.0 | 535.4 |
| Minerals Management Service ... | 1.0 | 1.2 | 1.9 | 1.8 | 2.5 | 3.4 | 5.1 | 18.3 | 19.8 | 20.7 | 20.6 |
| Nat'l Biological Svc ^{3 12} | NA | NA | NA | NA | NA | NA | .0 | 110.3 | 150.7 | NA | NA |
| National Park Service ¹³ | 18.5 | 19.4 | 19.4 | 20.1 | 27.5 | 31.1 | 38.1 | 24.2 | 19.7 | 19.8 | 20.8 |
| Office of the Secretary | 2.0 | .4 | .4 | .2 | .6 | .9 | .4 | .1 | - | - | .0 |
| Office of Surface Mining Reclamation & Enforcement ... | 1.0 | 1.0 | .7 | .8 | 1.0 | .3 | .4 | .0 | .0 | .0 | .0 |
| US Fish & Wildlife Svc ¹³ | 51.7 | 59.0 | 58.8 | 67.3 | 73.6 | 76.6 | 75.5 | .0 | .0 | .0 | .0 |
| Department of Justice, total | 38.7 | 48.1 | 36.0 | 38.2 | 40.4 | 42.9 | 46.2 | 42.0 | 49.0 | 76.9 | 93.8 |
| Bureau of Prisons ¹⁴ | 6.9 | 6.0 | 3.8 | 3.2 | 5.7 | 5.9 | 6.1 | 5.4 | 5.7 | 4.7 | 4.7 |
| Drug Enforcement Admin | 2.2 | 2.5 | 2.7 | 2.4 | 2.8 | 1.5 | 1.1 | 1.7 | .4 | 1.2 | .5 |
| Federal Bureau of Investigation | 6.6 | 12.7 | 6.5 | 8.2 | 10.8 | 10.9 | 11.3 | 7.0 | 10.9 | 36.8 | 34.8 |
| Immigration & Naturalization Service | .4 | 5.2 | .4 | .4 | .4 | .4 | .4 | .4 | .4 | .4 | .4 |
| Office of Justice Programs | 22.4 | 21.6 | 22.5 | 24.0 | 20.7 | 24.1 | 27.2 | 27.6 | 31.5 | 33.8 | 53.3 |
| Office of Legal Policy | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Department of Labor, total | 20.3 | 31.8 | 28.9 | 45.2 | 45.6 | 70.8 | 57.8 | 60.7 | 51.7 | 48.1 | 45.7 |
| Bureau of Labor Statistics | 6.5 | 7.0 | 7.0 | 7.3 | 7.5 | 7.6 | 6.9 | 7.1 | 13.1 | 13.3 | 12.6 |
| Employment Standards Admin | 1.0 | .1 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Employment & Training Admin ... | 4.4 | 11.2 | 9.2 | 25.6 | 23.7 | 51.0 | 39.2 | 41.8 | 23.1 | 23.4 | 21.1 |
| Labor-Management Relations & Cooperative Programs | .3 | .4 | .3 | NA | NA | NA | NA | NA | NA | NA | NA |
| Occupational Safety & Health Administration | 4.1 | 4.2 | 4.5 | 2.5 | 2.6 | 3.1 | 2.5 | 3.2 | 4.3 | 3.1 | 3.6 |
| Office of the Secretary | 2.7 | 6.1 | 6.1 | 7.1 | 8.7 | 5.7 | 5.4 | 5.2 | 6.2 | 5.4 | 5.4 |
| Pension Benefit Guaranty Corp .. | .3 | .3 | .3 | .5 | .5 | .9 | 1.3 | .7 | 1.4 | .6 | .7 |
| Pension & Welfare Benefits Administration | 1.0 | 2.6 | 1.3 | 2.1 | 2.5 | 2.6 | 2.6 | 2.7 | 3.6 | 2.3 | 2.3 |
| Department of State ¹⁵ | 3.0 | 4.2 | 4.7 | 4.7 | 5.9 | 5.6 | 5.3 | 8.2 | 5.0 | 4.3 | 4.3 |

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

**Table C-91a. Federal outlays for research and development, by agency:
fiscal years 1987-97**

[Dollars in millions]

| Agency and subdivision | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | Preliminary | |
|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------------|---------|
| | | | | | | | | | | 1996 | 1997 |
| Dept of Transportation, total | 336.6 | 321.0 | 278.6 | 270.6 | 342.6 | 394.0 | 425.2 | 519.9 | 634.7 | 531.4 | 840.4 |
| Coast Guard | 17.8 | 14.6 | 18.1 | 21.0 | 14.5 | 22.4 | 31.7 | 25.5 | 20.6 | 23.6 | 24.0 |
| Federal Aviation Admin | 180.1 | 179.6 | 141.0 | 169.2 | 199.6 | 234.9 | 234.5 | 247.2 | 256.8 | 261.6 | 242.9 |
| Federal Highway Admin | 76.0 | 60.1 | 76.5 | 44.0 | 86.1 | 81.2 | 87.1 | 174.7 | 249.6 | 133.2 | 455.6 |
| Federal Railroad Admin | 10.9 | 10.3 | 6.7 | 7.0 | 12.8 | 20.6 | 21.6 | 18.6 | 21.5 | 34.2 | 28.2 |
| Federal Transit Admin ¹⁶ | 9.4 | 1.4 | 2.0 | 2.3 | 2.1 | 1.5 | 14.3 | 18.5 | 33.4 | 27.7 | 22.1 |
| Maritime Administration | 7.2 | 2.6 | .0 | .9 | 1.5 | 1.7 | 1.7 | 1.7 | 2.3 | .3 | 1.8 |
| National Highway Traffic Safety Administration | 28.4 | 45.2 | 28.5 | 16.9 | 19.2 | 24.5 | 28.3 | 26.9 | 41.4 | 39.2 | 51.8 |
| Office of the Secretary | 4.7 | 5.2 | 4.2 | 6.9 | 4.7 | 5.0 | 4.4 | 2.5 | 4.0 | 2.8 | 2.8 |
| Rsch & Special Programs Administration | 2.1 | 2.0 | 1.6 | 2.4 | 2.2 | 2.3 | 1.7 | 4.1 | 4.9 | 8.8 | 11.2 |
| Dept of the Treasury, total | 26.3 | 25.7 | 23.4 | 25.1 | 30.3 | 24.4 | 16.5 | 18.9 | 61.4 | 63.6 | 64.0 |
| Bureau of Engraving & Printing | 4.5 | 2.0 | 1.7 | 2.1 | 3.5 | 2.0 | 3.2 | 1.7 | 1.8 | 2.2 | 2.0 |
| Financial Crimes Enforcement Network | .0 | .0 | .0 | .0 | 1.8 | 1.5 | 1.5 | .0 | .0 | .0 | .0 |
| Internal Revenue Svc ^{17 18} | 14.1 | 14.0 | 14.0 | 16.3 | 17.3 | 17.3 | 6.5 | 11.3 | 49.7 | 50.6 | 54.3 |
| Off of Thrift Supervision ¹⁹ | NA | NA | NA | .0 | 3.0 | .8 | .7 | .5 | .6 | .5 | .6 |
| United States Customs Svc | 7.0 | 9.2 | 6.8 | 6.2 | 3.7 | 2.2 | 4.0 | 4.5 | 8.5 | 9.5 | 6.4 |
| United States Mint | .1 | .2 | .3 | .1 | .5 | .0 | - | .4 | .3 | .2 | .1 |
| US Secret Service ²⁰ | .5 | .4 | .6 | .5 | .4 | .5 | .6 | .5 | .5 | .6 | .6 |
| Department of Veterans Affairs | 195.1 | 197.3 | 184.9 | 206.6 | 213.4 | 202.1 | 246.0 | 240.8 | 251.1 | 255.5 | 256.9 |
| Other agencies: | | | | | | | | | | | |
| Advisory Commission on Intergovernmental Relations | 1.6 | 1.4 | 1.2 | 1.2 | 1.2 | 1.5 | 2.1 | 1.4 | 1.4 | 1.4 | .0 |
| Appalachian Regional Comm | .1 | .2 | .8 | .4 | .7 | 1.9 | .9 | .9 | .9 | .9 | .9 |
| Consumer Product Safety Comm | 2.1 | 1.2 | 1.3 | 1.2 | 1.3 | 1.2 | 1.2 | .4 | .4 | .1 | - |
| Environmental Protection Agcy | 325.9 | 340.0 | 343.2 | 388.5 | 400.1 | 411.9 | 495.2 | 553.5 | 492.5 | 419.3 | 520.8 |
| Federal Communications Comm | 1.0 | 1.2 | 1.1 | 1.3 | 1.4 | 1.6 | 1.6 | 1.7 | 2.3 | 2.8 | 2.7 |
| Federal Trade Commission | .5 | .4 | .4 | .5 | 1.0 | 1.3 | .9 | .7 | .6 | 1.0 | 1.0 |
| General Services Admin | 1.6 | 2.3 | .5 | .7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| International Development Cooperation Agcy, total | 248.7 | 216.6 | 279.1 | 334.0 | 344.0 | 205.9 | 321.7 | 372.6 | 256.8 | 277.7 | 244.4 |
| Agcy for Internat'l Dvlpmt ¹⁵ | 248.7 | 216.6 | 279.1 | 334.0 | 344.0 | 205.9 | 321.7 | 372.6 | 256.8 | 277.7 | 244.4 |
| Library of Congress | 6.5 | 7.1 | 8.0 | 8.4 | 8.6 | 10.0 | 10.7 | 12.5 | 7.7 | 11.0 | 8.3 |
| National Aeronautics & Space Administration | 3,250.4 | 3,831.7 | 4,974.8 | 6,324.3 | 7,071.2 | 7,616.5 | 8,087.0 | 8,023.3 | 8,600.7 | 9,484.1 | 9,350.4 |
| Nat'l Archives & Records Admin | 1.1 | .7 | .3 | .4 | .7 | .7 | .3 | .3 | .1 | .1 | .1 |
| National Science Foundation | 1,410.0 | 1,494.0 | 1,556.7 | 1,524.9 | 1,630.6 | 1,732.7 | 1,754.2 | 1,873.0 | 1,876.0 | 2,051.0 | 2,146.0 |
| Nuclear Regulatory Commission | 124.4 | 113.5 | 113.2 | 111.5 | 107.5 | 116.5 | 119.6 | 92.4 | 88.8 | 66.4 | 59.1 |
| Office of Thrift Supervision ¹⁹ | 3.4 | 3.4 | 4.1 | 4.1 | NA | NA | NA | NA | NA | NA | NA |
| Smithsonian Institution | 69.9 | 73.2 | 79.8 | 90.8 | 94.0 | 94.2 | 96.0 | 121.2 | 119.0 | 120.0 | 131.0 |
| Social Security Admin ¹¹ | NA | NA | NA | NA | NA | NA | NA | NA | NA | 8.3 | 27.7 |

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

**Table C-91a. Federal outlays for research and development, by agency:
fiscal years 1987-97**

[Dollars in millions]

| Agency and subdivision | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | Preliminary | |
|--|------|------|------|------|------|------|-------|------|------|-------------|------|
| | | | | | | | | | | 1996 | 1997 |
| Tennessee Valley Authority | 76.5 | 86.4 | 61.6 | 61.8 | 68.6 | 98.8 | 108.6 | 97.9 | 93.1 | 103.4 | 77.0 |
| United States Arms Control & Disarmament Agency ²¹ | 3.6 | 3.4 | 2.8 | .2 | .4 | 2.1 | 1.5 | 1.3 | 1.1 | .5 | 1.0 |
| US Information Agency | 10.0 | 1.5 | 1.0 | .0 | .2 | .2 | .2 | .6 | .3 | .2 | .1 |
| US Internat'l Trade Comm | 7.2 | 8.1 | 8.7 | 9.1 | 9.9 | 12.3 | 12.2 | 9.4 | 12.2 | 12.7 | 12.5 |

- 1 Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.
- 2 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 3 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.
- 4 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.
- 5 The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.
- 6 This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.
- 7 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.
- 8 Obligations reported for the Administration for Children & Families may be incomplete for fiscal year 1992 due to unavailability of data.
- 9 In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.
- 10 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.
- 11 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.
- 12 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.
- 13 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.
- 14 The Bureau of Prisons was formerly listed as the Federal Prison System.
- 15 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.
- 16 The name of this agency changed from the Urban Mass Transit Administration to the Federal Transit Administration on Dec. 18, 1991.
- 17 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.
- 18 Large changes in obligations reported by the Internal Revenue Service for Vol. 44 are due to shifts in research funding.
- 19 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.
- 20 The United States Secret Service was formerly listed as the Office of Protective Research.
- 21 Fiscal year 1994 figures for the United States Arms Control & Disarmament Agency are estimates based on the agency's Vol. 43 submission.

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.

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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

**Table C-92. Federal outlays for R&D plant, by agency:
fiscal years 1976-86**

[Dollars in millions]

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| Agency and subdivision | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
|--|--------------|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Total, all agencies | 800.6 | 800.2 | 1,107.8 | 1,202.8 | 1,481.7 | 1,606.7 | 1,376.1 | 1,299.9 | 1,639.2 | 1,688.9 | 1,481.2 |
| Departments: | | | | | | | | | | | |
| Dept of Agriculture, total | 8.8 | 22.5 | 18.6 | 21.7 | 27.7 | 39.0 | 21.3 | 32.8 | 29.2 | 34.3 | 35.0 |
| Agricultural Research Svc | NA | NA | NA | NA | NA | 35.8 | 18.5 | 30.7 | 25.0 | 26.7 | 32.4 |
| Cooperative State Rsch, Ed, & Extension Service | NA | NA | NA | NA | NA | .0 | .0 | .8 | 3.8 | 6.9 | 1.6 |
| Forest Service | 3.4 | 3.5 | 2.1 | 3.5 | 3.6 | 3.2 | 2.7 | 1.3 | .4 | .7 | 1.0 |
| Science & Ed Admin, total | 5.5 | 19.0 | 16.5 | 18.2 | 24.1 | NA | NA | NA | NA | NA | NA |
| Agricultural Research Svc | 5.5 | 18.9 | 16.5 | 18.2 | 24.1 | NA | NA | NA | NA | NA | NA |
| Cooperative State Rsch Svc | .0 | .1 | .0 | .0 | .0 | NA | NA | NA | NA | NA | NA |
| Department of Commerce, total | 7.8 | 5.7 | 3.5 | 1.9 | 4.8 | 1.3 | 1.0 | .7 | 9.2 | 4.3 | 7.4 |
| Maritime Administration ¹ | 1.6 | 3.7 | .3 | .5 | .6 | NA | NA | NA | NA | NA | NA |
| National Institute of Standards & Technology | 1.1 | .6 | .9 | 1.4 | .3 | .5 | 1.0 | .7 | 9.2 | 4.3 | 6.0 |
| National Oceanic & Atmospheric Administration | 5.1 | 1.4 | 2.3 | .0 | 3.9 | .8 | .0 | .0 | .0 | .0 | 1.5 |
| Department of Defense, total | 144.2 | 125.6 | 312.6 | 235.8 | 204.7 | 238.5 | 231.7 | 267.7 | 380.1 | 401.7 | 280.6 |
| Department of the Army | 20.6 | 14.8 | 6.8 | 2.1 | 7.6 | 8.9 | 13.5 | 21.5 | 34.4 | 53.4 | 55.0 |
| Department of the Navy | 59.3 | 63.6 | 49.1 | 52.9 | 90.9 | 92.2 | 125.3 | 136.7 | 150.3 | 143.8 | 130.7 |
| Department of the Air Force | 57.1 | 40.0 | 250.1 | 164.9 | 103.0 | 130.0 | 67.7 | 103.7 | 191.2 | 199.8 | 89.1 |
| Defense Agencies | 7.2 | 7.2 | 6.6 | 15.9 | 3.2 | 7.4 | 25.2 | 5.8 | 4.2 | 4.7 | 5.8 |
| Department of Education ² | NA | NA | NA | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .8 |
| Department of Energy ^{3 4} | NA | 427.1 | 481.3 | 653.5 | 962.8 | 1,084.5 | 943.3 | 824.5 | 916.1 | 855.3 | 725.8 |
| Department of Health, Education, & Welfare, total | 52.4 | 45.6 | 68.0 | NA | NA | NA | NA | NA | NA | NA | NA |
| Food & Drug Administration | .5 | 4.3 | 1.2 | NA | NA | NA | NA | NA | NA | NA | NA |
| National Insts of Health | 51.9 | 41.3 | 66.8 | NA | NA | NA | NA | NA | NA | NA | NA |
| Department of Health & Human Services, total | NA | NA | NA | 73.4 | 76.9 | 42.6 | 36.8 | 26.5 | 34.6 | 42.6 | 32.7 |
| Alcohol, Drug Abuse, & Mental Health Administration | NA | NA | NA | .4 | .1 | .1 | .4 | 1.0 | 4.1 | 1.4 | .5 |
| Food & Drug Administration | NA | NA | NA | .6 | .7 | .5 | 1.0 | 2.1 | 10.0 | 15.0 | 10.0 |
| National Insts of Health | NA | NA | NA | 72.5 | 76.0 | 42.0 | 35.4 | 23.4 | 20.5 | 26.2 | 22.2 |
| Dept of the Interior, total | .8 | 4.4 | 7.7 | 9.0 | 8.7 | 4.1 | 1.3 | 2.4 | 5.2 | 4.2 | 6.1 |
| Bonneville Power Admin ⁴ | .1 | .0 | .0 | .0 | .0 | .3 | NA | NA | NA | NA | NA |
| Bureau of Mines | .0 | 2.9 | .1 | 4.3 | 2.4 | 2.1 | .2 | .1 | .1 | .0 | .0 |
| Geological Survey ⁵ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1.5 | 1.1 | .9 | .9 |
| National Park Service | - | - | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Office of Surface Mining Reclamation & Enforcement | NA | .0 | .0 | .0 | .3 | .0 | .0 | .0 | .0 | .0 | .0 |
| Office of Water Rsch & Tech ⁵ | .0 | .9 | .6 | .7 | .7 | .8 | .9 | .0 | .0 | NA | NA |
| US Fish & Wildlife Svc | .7 | .6 | 7.0 | 4.0 | 5.3 | 1.0 | .3 | .8 | 4.0 | 3.3 | 5.2 |

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

**Table C-92. Federal outlays for R&D plant, by agency:
fiscal years 1976-86**

[Dollars in millions]

Page 2 of 2

| Agency and subdivision | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Department of State, total ⁶ | 1.2 | 4.0 | 0.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Agcy for Internat'l Dvlpmt ⁶ | 1.2 | 4.0 | .1 | NA | NA | NA | NA | NA | NA | NA | NA |
| Dept of Transportation, total | 12.1 | 17.5 | 13.2 | 16.2 | 16.3 | 16.2 | 13.0 | 9.9 | 12.9 | 14.1 | 15.5 |
| Coast Guard | .5 | .5 | .7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Federal Aviation Admin | 1.9 | 3.0 | 1.0 | 9.5 | 5.5 | 6.1 | 4.3 | 9.2 | 12.4 | 13.6 | 14.3 |
| Federal Highway Admin | .4 | .4 | .4 | .2 | .3 | 2.8 | .0 | .0 | .0 | .0 | .7 |
| Federal Railroad Admin | 8.0 | 11.7 | 10.9 | 6.3 | 10.3 | 6.8 | 8.2 | .2 | .0 | .0 | .0 |
| Federal Transit Admin | 1.3 | 1.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| National Highway Traffic Safety Administration | .0 | .2 | .2 | .2 | .2 | .5 | .5 | .5 | .5 | .5 | .5 |
| Dept of the Treasury, total | .1 | .1 | - | - | - | .1 | .1 | .1 | .1 | .1 | .1 |
| United States Customs Svc | .1 | .1 | - | - | - | .1 | .1 | .1 | .1 | .1 | .1 |
| United States Secret Service | NA | NA | NA | NA | .0 | .0 | .0 | .0 | .0 | .0 | .1 |
| Department of Veterans Affairs | 11.8 | 5.9 | 9.7 | 2.8 | 4.2 | 6.5 | 2.9 | 10.6 | 4.6 | 7.6 | 3.9 |
| Other agencies: | | | | | | | | | | | |
| Consumer Product Safety Comm ... | .2 | .0 | .3 | 2.7 | 2.7 | .0 | .0 | .0 | .0 | .0 | .0 |
| Energy Rsch & Dvlpmt Admin ³ | 364.2 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Environmental Protection Agcy | 6.7 | 1.6 | 2.2 | 2.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| General Services Admin ⁷ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .7 |
| International Development Cooperation Agcy, total ⁶ | NA | NA | NA | 4.5 | 6.6 | 6.2 | 10.3 | 12.3 | 11.4 | 12.8 | 14.0 |
| Agcy for Internat'l Dvlpmt ⁶ | NA | NA | NA | 4.5 | 6.6 | 6.2 | 10.3 | 12.3 | 11.4 | 12.8 | 14.0 |
| National Aeronautics & Space Administration | 120.9 | 105.0 | 124.3 | 132.7 | 140.3 | 146.9 | 112.2 | 108.1 | 191.9 | 246.8 | 299.1 |
| National Science Foundation | 50.1 | 25.1 | 38.0 | 29.4 | 17.6 | 12.7 | 1.5 | 2.9 | 43.0 | 64.0 | 57.3 |
| Nuclear Regulatory Commission | 3.5 | 6.1 | 6.2 | 8.0 | 7.4 | 7.3 | .0 | .0 | .0 | .0 | .0 |
| Smithsonian Institution | .1 | .3 | .1 | .6 | .4 | .4 | .4 | 1.1 | .6 | .9 | 1.5 |
| Tennessee Valley Authority | 15.7 | 3.7 | 21.9 | 8.2 | .6 | .4 | .2 | .4 | .2 | .3 | .6 |

1 In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.

2 The 1983 Budget of the United States Government proposed that the Department of Education be replaced by the Foundation for Educational Assistance.

3 In 1977 the Energy Research & Development Administration became part of the Department of Energy.

4 In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.

5 As of 1985 the Office of Water Research & Technology has been combined with the Geological Survey.

6 The Agency for International Development transferred from the Department of State to the International Development Cooperative Agency on Oct. 1, 1979.

7 As of 1985 the National Archives & Records Administration is separate from the General Services Administration.

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.

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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

**Table C-92a. Federal outlays for R&D plant, by agency:
fiscal years 1987-97**

[Dollars in millions]

| Agency and subdivision | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | Preliminary | |
|---|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | | | | | | | | | | 1996 | 1997 |
| Total, all agencies | 1,602.4 | 1,817.2 | 2,026.1 | 2,015.8 | 2,546.1 | 2,784.5 | 3,144.5 | 2,177.1 | 2,035.4 | 2,303.1 | 2,426.9 |
| Departments: | | | | | | | | | | | |
| Dept of Agriculture, total | 71.1 | 78.5 | 92.3 | 124.2 | 80.1 | 136.8 | 149.5 | 132.9 | 128.4 | 149.2 | 153.6 |
| Agricultural Research Svc ¹ | 63.3 | 58.3 | 51.7 | 55.3 | 49.4 | 69.4 | 89.2 | 75.3 | 79.1 | 87.9 | 96.6 |
| Animal & Plant Health | | | | | | | | | | | |
| Inspection Service | .0 | .5 | .3 | 6.1 | .0 | .0 | .0 | .0 | .0 | 1.5 | .0 |
| Cooperative State Rsch, Ed, & Extension Service ² | 7.0 | 17.5 | 38.6 | 58.0 | 15.5 | 60.2 | 53.8 | 52.8 | 45.1 | 57.3 | 55.0 |
| Forest Service | .8 | 2.2 | 1.7 | 4.9 | 15.1 | 7.2 | 6.5 | 4.9 | 4.3 | 2.5 | 2.0 |
| Department of Commerce, total | 4.2 | 10.9 | 9.1 | 14.7 | 15.5 | 21.3 | 22.4 | 12.9 | 23.5 | 31.7 | 48.6 |
| Economic Development Admin | .0 | .3 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| National Institute of Standards & Technology | 2.1 | 10.1 | 8.5 | 8.1 | 8.3 | 11.4 | 9.6 | 12.7 | 23.0 | 31.4 | 48.3 |
| National Oceanic & Atmospheric Administration | 2.1 | .5 | .5 | 6.6 | 7.3 | 9.9 | 12.8 | .3 | .5 | .3 | .3 |
| Department of Defense, total | 357.3 | 416.2 | 415.6 | 436.8 | 433.7 | 410.9 | 373.2 | 261.0 | 83.0 | 93.2 | 51.3 |
| Department of the Army | 60.7 | 61.8 | 39.7 | 46.8 | 65.0 | 22.0 | 7.0 | 3.8 | 4.2 | 5.2 | 4.6 |
| Department of the Navy | 65.0 | 78.8 | 84.5 | 101.2 | 87.0 | 111.0 | 73.5 | 62.9 | 37.5 | 18.9 | 9.7 |
| Department of the Air Force | 194.3 | 207.5 | 199.7 | 200.2 | 218.2 | 186.3 | 231.0 | 153.7 | 26.9 | 28.5 | 25.1 |
| Defense Agencies | 37.4 | 68.1 | 91.8 | 88.6 | 63.5 | 91.6 | 61.7 | 40.6 | 14.4 | 40.6 | 11.9 |
| Department of Education | 15.8 | 11.1 | 2.3 | 2.8 | 2.6 | 2.5 | 12.8 | 1.9 | 1.0 | 6.4 | .6 |
| Department of Energy | 721.3 | 779.0 | 838.3 | 856.9 | 1,099.8 | 1,198.0 | 1,483.2 | 921.8 | 864.1 | 870.5 | 915.7 |
| Department of Health & Human Services, total | 31.5 | 30.7 | 56.0 | 55.1 | 194.8 | 96.7 | 149.3 | 134.2 | 267.0 | 315.0 | 435.9 |
| Alcohol, Drug Abuse, & Mental Health Administration ³ | .6 | .0 | .0 | .0 | .0 | NA | NA | NA | NA | NA | NA |
| Food & Drug Administration | 1.9 | 1.7 | 2.0 | 1.0 | 18.4 | 14.3 | 19.7 | 21.9 | 16.7 | 23.3 | 14.9 |
| Hlth Resources & Svcs Admin | .0 | .0 | .0 | .0 | .0 | .3 | 1.4 | 1.4 | 1.6 | 1.0 | 1.0 |
| National Insts of Health ³ | 29.0 | 29.0 | 54.0 | 54.1 | 176.4 | 82.1 | 128.2 | 110.9 | 248.8 | 290.7 | 420.0 |
| Social Security Admin ⁴ | .0 | .0 | .0 | .0 | - | .0 | .0 | .0 | .0 | NA | NA |
| Dept of the Interior, total | 4.8 | 5.1 | 6.8 | 10.5 | 20.7 | 17.8 | 20.8 | 7.5 | 6.5 | 2.4 | 7.0 |
| Bureau of Mines | .0 | .0 | 2.1 | 3.0 | 1.5 | .0 | .0 | .0 | .0 | NA | NA |
| Geological Survey ⁵ | .8 | .8 | 1.4 | 1.3 | 2.9 | 4.4 | 4.0 | 6.3 | 5.3 | 1.4 | 6.0 |
| Minerals Management Service | .0 | .0 | .0 | .2 | .2 | .7 | 1.0 | 1.1 | 1.0 | 1.0 | 1.0 |
| Nat'l Biological Svc ⁶ | NA | NA | NA | NA | NA | NA | .0 | .1 | .3 | NA | NA |
| US Fish & Wildlife Svc ⁶ | 4.0 | 4.3 | 3.4 | 6.0 | 16.1 | 12.7 | 15.8 | .0 | .0 | .0 | .0 |
| Department of Justice, total | .3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Federal Bureau of Investigation | .3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |

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

**Table C-92a. Federal outlays for R&D plant, by agency:
fiscal years 1987-97**

[Dollars in millions]

Page 2 of 2

| Agency and subdivision | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | Preliminary | |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------|-------|
| | | | | | | | | | | 1996 | 1997 |
| Dept of Transportation, total | 11.2 | 11.1 | 12.9 | 16.7 | 18.4 | 17.1 | 30.0 | 17.0 | 26.7 | 19.7 | 23.8 |
| Coast Guard | .0 | .3 | .0 | .4 | .4 | .4 | .5 | .5 | .5 | .5 | .5 |
| Federal Aviation Admin | 10.4 | 10.5 | 12.6 | 16.3 | 16.5 | 15.9 | 25.6 | 11.7 | 14.0 | 16.0 | 18.0 |
| Federal Highway Admin | .3 | .0 | .0 | .0 | .0 | .0 | .4 | 3.8 | 10.9 | .3 | 1.2 |
| Federal Railroad Admin | .0 | .2 | .3 | - | 1.5 | .8 | 1.3 | 1.0 | 1.3 | 2.8 | 4.0 |
| Federal Transit Admin ⁷ | .0 | .0 | .0 | .0 | .0 | .0 | 2.2 | .0 | .0 | .0 | .0 |
| National Highway Traffic Safety Administration | .5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Dept of the Treasury, total | .1 | .1 | .1 | .1 | .1 | .1 | .2 | 1.9 | .2 | .2 | .2 |
| Bureau of Engraving & Printing | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1.7 | .0 | .0 | .0 |
| United States Customs Svc | .1 | .1 | .1 | .1 | .1 | .1 | .1 | .1 | .1 | .1 | .1 |
| US Secret Service ⁸ | - | - | - | - | - | - | - | - | - | - | - |
| Department of Veterans Affairs | 3.7 | 4.6 | 1.5 | 12.4 | 8.2 | 5.5 | 4.8 | 5.2 | 7.2 | 3.6 | 4.3 |
| Other agencies: | | | | | | | | | | | |
| Environmental Protection Agcy | .0 | .0 | .0 | .0 | .0 | .0 | 2.5 | 4.8 | 3.0 | 3.0 | 3.0 |
| General Services Admin | .0 | .0 | .0 | .0 | 3.6 | 20.9 | 7.6 | 5.5 | 1.3 | 1.2 | 1.1 |
| International Development Cooperation Agcy, total | 14.4 | 12.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Agcy for Internat'l Dvlpmt ⁹ | 14.4 | 12.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| National Aeronautics & Space Administration | 313.9 | 398.7 | 531.3 | 437.9 | 603.8 | 770.2 | 798.4 | 553.5 | 515.4 | 590.1 | 488.9 |
| National Science Foundation | 49.9 | 56.7 | 56.7 | 38.1 | 56.5 | 80.9 | 87.5 | 110.6 | 101.0 | 210.0 | 287.0 |
| Smithsonian Institution | 1.6 | 1.6 | 2.8 | 4.6 | 4.5 | 1.2 | 1.2 | 6.2 | 6.0 | 6.0 | 6.0 |
| Tennessee Valley Authority | .4 | .5 | .2 | 4.9 | 3.7 | 4.6 | 1.0 | .0 | 1.0 | 1.0 | .0 |
| United States Arms Control & Disarmament Agency ¹⁰ | 1.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |

- 1 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 2 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.
- 3 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.
- 4 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.
- 5 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.
- 6 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.
- 7 The name of this agency changed from the Urban Mass Transit Administration to the Federal Transit Administration on Dec. 18, 1991.
- 8 The United States Secret Service was formerly listed as the Office of Protective Research.
- 9 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.
- 10 Fiscal year 1994 figures for the United States Arms Control & Disarmament Agency are estimates based on the agency's Vol. 43 submission.

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.

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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

**Table C-93. Federal obligations for research and development and for R&D plant, by agency:
fiscal years 1976-86**

[Dollars in millions]

Page 1 of 4

| Agency and subdivision | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
|---|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Total, all agencies | 21,616.4 | 24,817.6 | 27,140.8 | 29,620.6 | 31,386.1 | 34,589.6 | 37,822.4 | 40,009.0 | 44,012.1 | 50,180.4 | 52,951.2 |
| Departments: | | | | | | | | | | | |
| Dept of Agriculture, total | 478.6 | 559.9 | 645.9 | 685.7 | 744.5 | 794.7 | 818.7 | 881.5 | 905.4 | 983.6 | 1,007.9 |
| Agricultural Cooperative Svc | NA | NA | NA | NA | 1.6 | 1.7 | 1.7 | 2.1 | 2.2 | 2.9 | 2.6 |
| Agricultural Marketing Svc ¹ | .0 | .0 | .0 | 1.0 | 1.3 | 1.1 | 1.2 | 1.4 | 1.5 | 1.7 | 1.6 |
| Agricultural Research Svc | NA | NA | NA | NA | NA | 411.6 | 426.0 | 466.8 | 480.1 | 498.7 | 532.6 |
| Animal & Plant Health Inspection Service | NA | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 4.2 |
| Cooperative State Rsch, Ed, & Extension Service | NA | NA | NA | NA | NA | 199.4 | 219.0 | 242.3 | 245.7 | 294.3 | 278.6 |
| Economic Research Service | NA | NA | NA | NA | NA | 39.3 | 39.3 | 38.8 | 43.7 | 46.4 | 44.6 |
| Economics, Statistics, & Cooperative Svc, total ² | 27.0 | 30.5 | 32.7 | 35.5 | NA | NA | NA | NA | NA | NA | NA |
| Economic Research Service | 24.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Farmer Cooperative Service | 1.2 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Statistical Reporting Svc | 1.9 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Economics & Statistics Svc ³ | NA | NA | NA | NA | 31.1 | NA | NA | NA | NA | NA | NA |
| Forest Service | 82.8 | 92.1 | 108.3 | 111.0 | 115.2 | 129.3 | 112.5 | 108.1 | 108.8 | 114.8 | 114.0 |
| Grain Inspection Packers & Stockyards Administration | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .9 | 1.0 |
| Human Nutrition Information Service | NA | NA | NA | NA | NA | .0 | 8.5 | 8.2 | 6.0 | 6.7 | 12.8 |
| National Agricultural Statistics Service | .0 | NA | NA | NA | NA | 7.5 | 7.0 | 7.6 | 8.2 | 8.4 | 8.0 |
| Office of International Cooperation & Development | NA | NA | NA | .0 | 5.3 | 3.9 | 2.6 | 5.3 | 8.2 | 7.7 | 7.0 |
| Office of Transportation | NA | NA | NA | .7 | .8 | .9 | .9 | .8 | 1.0 | 1.2 | 1.0 |
| Science & Ed Admin, total | 368.7 | 437.3 | 505.0 | 537.5 | 589.3 | NA | NA | NA | NA | NA | NA |
| Agricultural Research Svc | 255.3 | 310.1 | 347.5 | 365.0 | 405.0 | NA | NA | NA | NA | NA | NA |
| Cooperative State Rsch Svc | 113.4 | 127.3 | 157.4 | 172.6 | 184.2 | NA | NA | NA | NA | NA | NA |
| Nat'l Agricultural Library | - | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Department of Commerce, total | 235.5 | 251.8 | 287.7 | 311.8 | 347.2 | 329.3 | 337.3 | 335.7 | 367.6 | 403.0 | 408.4 |
| Bureau of the Census | 2.5 | 2.6 | 3.4 | 3.1 | 3.2 | 3.9 | 3.8 | 4.3 | 4.4 | 4.9 | 4.7 |
| Economic Development Admin | 15.1 | 15.0 | 38.5 | 43.1 | 32.3 | 28.1 | 9.6 | 5.3 | 5.1 | 13.0 | 10.3 |
| Maritime Administration ⁴ | 21.2 | 19.7 | 20.6 | 20.5 | 19.9 | NA | NA | NA | NA | NA | NA |
| Minority Business Dvlpmt Agcy | 2.0 | 3.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| National Fire Prevention & Control Administration ⁵ | 6.4 | 6.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| National Institute of Standards & Technology | 47.9 | 53.9 | 59.1 | 69.3 | 76.4 | 83.0 | 89.9 | 95.7 | 104.9 | 104.7 | 108.5 |
| National Oceanic & Atmospheric Administration | 139.1 | 147.2 | 163.7 | 171.2 | 203.6 | 202.2 | 222.0 | 222.0 | 244.3 | 269.8 | 276.2 |
| National Telecommunications & Information Administration | NA | 2.9 | 1.8 | 4.1 | 10.7 | 10.9 | 11.3 | 8.3 | 8.7 | 9.1 | 8.4 |
| Office of the Secretary | .0 | .0 | .0 | .1 | .6 | .0 | - | - | .1 | 1.4 | .3 |
| Office of Telecommunications | .9 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Patent & Trademark Office | .4 | .5 | .5 | .5 | .5 | 1.1 | .7 | .0 | .0 | .0 | .0 |
| Department of Defense, total | 9,798.1 | 11,409.0 | 11,786.2 | 12,776.4 | 14,189.2 | 16,786.3 | 20,913.1 | 23,305.3 | 25,902.1 | 30,322.4 | 33,224.1 |
| Department of the Army | 2,026.0 | 2,458.2 | 2,556.5 | 2,772.5 | 2,993.8 | 3,257.0 | 3,785.2 | 4,024.4 | 4,281.7 | 4,623.7 | 4,863.3 |
| Department of the Navy | 3,373.8 | 3,878.6 | 4,046.7 | 4,403.1 | 4,789.3 | 5,103.9 | 6,001.0 | 6,209.9 | 7,779.0 | 9,309.5 | 9,747.9 |
| Department of the Air Force | 3,799.6 | 4,381.1 | 4,422.4 | 4,693.1 | 5,319.0 | 7,128.8 | 9,442.6 | 10,951.3 | 12,377.0 | 13,552.2 | 13,723.9 |
| Defense Agencies | 573.9 | 659.5 | 724.5 | 878.4 | 1,049.2 | 1,255.6 | 1,643.3 | 2,058.1 | 1,405.7 | 2,786.3 | 4,771.9 |
| Defense Civil Preparedness Agency ⁶ | .7 | 1.3 | 7.5 | NA | NA | NA | NA | NA | NA | NA | NA |
| Test & Evaluation, Deputy Under Secretary of Defense | 24.1 | 30.2 | 28.6 | 29.3 | 37.9 | 41.1 | 41.0 | 61.6 | 58.6 | 50.6 | 117.1 |

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

Table C-93. Federal obligations for research and development and for R&D plant, by agency: fiscal years 1976-86

[Dollars in millions]

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| Agency and subdivision | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Department of Education ⁷ | NA | NA | NA | 166.3 | 139.4 | .0 | 128.0 | 111.7 | 115.7 | 126.0 | 127.9 |
| Department of Energy ^{8 9} | NA | 4,097.2 | 4,935.5 | 5,483.2 | 5,777.8 | 5,896.4 | 5,622.2 | 5,294.4 | 5,526.0 | 5,834.4 | 5,430.6 |
| Department of Health, Education, & Welfare, total | 2,616.7 | 2,955.9 | 3,281.5 | NA | NA | NA | NA | NA | NA | NA | NA |
| Alcohol, Drug Abuse, & Mental Health Administration | 139.5 | 153.0 | 180.2 | NA | NA | NA | NA | NA | NA | NA | NA |
| Center for Disease Control | 49.6 | 55.3 | 60.1 | NA | NA | NA | NA | NA | NA | NA | NA |
| Food & Drug Administration | 38.0 | 43.7 | 65.0 | NA | NA | NA | NA | NA | NA | NA | NA |
| Health Care Financing Admin | NA | 30.0 | 19.4 | NA | NA | NA | NA | NA | NA | NA | NA |
| Health Resources Admin | 38.2 | 7.4 | 5.5 | NA | NA | NA | NA | NA | NA | NA | NA |
| Health Services Admin | 17.5 | 17.7 | 18.2 | NA | NA | NA | NA | NA | NA | NA | NA |
| National Inst of Education | 63.7 | 64.9 | 89.5 | NA | NA | NA | NA | NA | NA | NA | NA |
| National Insts of Health | 2,092.5 | 2,411.7 | 2,654.2 | NA | NA | NA | NA | NA | NA | NA | NA |
| Office of Assistant Secretary for Education | 1.0 | 1.0 | 1.3 | NA | NA | NA | NA | NA | NA | NA | NA |
| Office of Assistant Secretary for Health | .0 | 32.2 | 36.2 | NA | NA | NA | NA | NA | NA | NA | NA |
| Office of Education | 58.2 | 31.1 | 32.9 | NA | NA | NA | NA | NA | NA | NA | NA |
| Office of Human Dvlpmt Svcs | 61.9 | 76.8 | 75.8 | NA | NA | NA | NA | NA | NA | NA | NA |
| Office of the Secretary | 23.7 | 20.0 | 30.2 | NA | NA | NA | NA | NA | NA | NA | NA |
| Social & Rehabilitation Svc | 18.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Social Security Admin | 14.4 | 11.2 | 12.9 | NA | NA | NA | NA | NA | NA | NA | NA |
| Department of Health & Human Services, total | NA | NA | NA | 3,558.4 | 3,810.8 | 3,950.9 | 3,965.4 | 4,400.4 | 4,861.8 | 5,493.2 | 5,695.5 |
| Alcohol, Drug Abuse, & Mental Health Administration | NA | NA | NA | 214.4 | 233.5 | 239.7 | 251.4 | 304.0 | 337.5 | 377.9 | 396.6 |
| Centers for Disease Control & Prevention | NA | NA | NA | 76.3 | 87.3 | 74.8 | 75.0 | 78.2 | 46.3 | 47.6 | 52.2 |
| Food & Drug Administration | NA | NA | NA | 66.7 | 76.6 | 72.6 | 75.0 | 102.7 | 80.8 | 95.1 | 87.4 |
| Health Care Financing Admin | NA | NA | NA | 31.8 | 45.7 | 38.6 | 29.1 | 30.2 | 33.1 | 33.5 | 29.0 |
| Health Resources Admin | NA | NA | NA | 4.9 | 5.1 | 5.0 | NA | NA | NA | NA | NA |
| Hlth Resources & Svcs Admin | NA | NA | NA | NA | NA | NA | 10.1 | 13.3 | 18.5 | 19.7 | 12.3 |
| Health Services Admin | NA | NA | NA | 28.7 | 26.7 | 20.3 | NA | NA | NA | NA | NA |
| Human Development Services | NA | NA | NA | 57.1 | 49.3 | 73.7 | 27.2 | 23.4 | 18.3 | 24.3 | 54.6 |
| National Insts of Health | NA | NA | NA | 3,000.8 | 3,211.2 | 3,355.5 | 3,452.6 | 3,806.8 | 4,285.2 | 4,856.5 | 5,034.5 |
| Office of the Assistant Secretary for Health | NA | NA | NA | 34.6 | 29.9 | 33.1 | 16.1 | 16.6 | 18.1 | 18.6 | 17.3 |
| Office of the Secretary | NA | NA | NA | 24.7 | 24.0 | 19.5 | 13.4 | 14.4 | 10.4 | 9.6 | 6.1 |
| Social Security Admin | NA | NA | NA | 18.3 | 21.4 | 18.0 | 15.5 | 10.8 | 13.5 | 10.4 | 5.6 |
| Dept of Housing & Urban Dvlpmt ... | 67.6 | 52.1 | 69.7 | 67.9 | 56.0 | 48.1 | 28.9 | 32.1 | 18.2 | 18.5 | 15.3 |
| Dept of the Interior, total | 339.1 | 319.7 | 374.0 | 410.8 | 418.8 | 430.6 | 382.4 | 384.9 | 416.1 | 395.9 | 389.6 |
| Bonneville Power Admin ⁹ | 7.1 | .0 | .0 | .0 | .0 | 14.4 | NA | NA | NA | NA | NA |
| Bureau of Land Management | .7 | .9 | 1.2 | 1.3 | 1.7 | 1.9 | 5.3 | 3.9 | 3.8 | 4.4 | 3.4 |
| Bureau of Mines | 131.3 | 105.3 | 121.1 | 121.3 | 114.4 | 97.4 | 94.8 | 88.6 | 108.8 | 89.9 | 84.4 |
| Bureau of Reclamation | 8.3 | 9.9 | 11.2 | 12.2 | 14.1 | 14.3 | 10.1 | 10.0 | 10.4 | 13.2 | 10.2 |
| Geological Survey ¹⁰ | 110.3 | 117.5 | 133.7 | 145.6 | 146.3 | 169.8 | 152.6 | 158.4 | 209.9 | 215.7 | 219.5 |
| Heritage Conservation & Recreation Service | - | - | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Minerals Management Service | NA | NA | NA | NA | NA | NA | .0 | 1.5 | 1.5 | 1.4 | 1.1 |
| National Park Service | 9.3 | 7.8 | 7.7 | 8.9 | 8.2 | 10.4 | 11.2 | 13.7 | 14.0 | 15.0 | 17.3 |
| Office of the Secretary | 1.0 | 4.5 | 1.7 | 1.4 | 2.2 | 1.5 | .5 | 7.4 | .1 | 1.9 | 1.0 |
| Office of Surface Mining Reclamation & Enforcement ... | NA | .0 | 2.2 | 5.0 | 7.8 | 5.8 | 1.5 | 1.5 | .8 | 2.0 | 2.3 |
| Office of Water Rsch & Tech ¹⁰ | 19.0 | 16.0 | 28.0 | 28.0 | 30.0 | 21.8 | 12.3 | 2.2 | 3.6 | NA | NA |
| US Fish & Wildlife Svc | 52.0 | 57.7 | 67.2 | 87.1 | 94.1 | 93.3 | 94.2 | 97.7 | 63.3 | 52.4 | 50.5 |
| Department of Justice, total | 33.9 | 27.7 | 60.9 | 43.0 | 41.5 | 26.5 | 26.7 | 31.4 | 24.5 | 36.0 | 36.5 |
| Bureau of Prisons | .8 | 1.1 | 3.6 | 3.4 | 2.1 | 2.5 | 1.7 | 1.7 | 1.6 | 1.5 | 3.0 |
| Drug Enforcement Admin | 2.5 | 3.0 | 1.9 | 2.4 | 2.7 | 1.3 | 3.2 | 2.5 | 1.9 | 1.6 | 2.5 |
| Federal Bureau of Investigation | 1.2 | 1.4 | 1.8 | 3.1 | 1.4 | .7 | 2.7 | 2.5 | 1.0 | 9.5 | 7.2 |
| Immigration & Naturalization Service | .1 | .3 | .4 | .2 | .3 | .1 | .6 | .6 | .6 | .4 | .4 |
| Office of Justice Programs | 29.2 | 21.8 | 51.6 | 32.2 | 33.2 | 21.0 | 18.0 | 23.8 | 19.5 | 22.7 | 23.2 |
| Office of Legal Policy | .0 | .0 | 1.6 | 1.7 | 1.8 | .8 | .4 | .3 | .0 | .3 | .2 |

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

Table C-93. Federal obligations for research and development and for R&D plant, by agency: fiscal years 1976-86

[Dollars in millions]

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| Agency and subdivision | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
|--|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Department of Labor, total | 28.5 | 29.6 | 97.8 | 137.0 | 138.1 | 62.2 | 25.4 | 19.9 | 16.3 | 13.3 | 10.4 |
| Bureau of Labor Statistics | 1.3 | 1.4 | 1.2 | .9 | .9 | .3 | .3 | .7 | .5 | .6 | .6 |
| Employment Standards Admin | 4.3 | 4.4 | 3.7 | 5.3 | 4.9 | 3.2 | 1.4 | 1.4 | .9 | - | .0 |
| Employment & Training Admin | 17.5 | 16.8 | 86.6 | 120.8 | 121.7 | 52.4 | 16.1 | 9.0 | 6.1 | 3.5 | 3.5 |
| Labor-Management Relations & Cooperative Programs ¹ | NA | NA | NA | NA | NA | NA | NA | NA | .3 | .3 | .2 |
| Labor-Management Services Administration ¹ | .7 | 3.3 | 2.8 | 3.2 | 2.8 | 1.8 | .7 | .9 | NA | NA | NA |
| Occupational Safety & Health Administration | 2.9 | 3.4 | 1.3 | 5.1 | 6.3 | 3.0 | 4.9 | 5.3 | 5.1 | 4.5 | 3.6 |
| Office of the Secretary | 1.8 | .2 | 2.2 | 1.6 | 1.4 | 1.1 | .9 | 1.5 | 1.9 | 2.6 | 2.1 |
| Pension Benefit Guaranty Corp | NA | NA | NA | NA | NA | .5 | 1.1 | 1.1 | .3 | .2 | .1 |
| Pension & Welfare Benefits Administration | NA | NA | NA | NA | NA | NA | NA | NA | 1.2 | 1.6 | .3 |
| Department of State, total ² | 44.5 | 77.6 | 85.4 | 3.2 | 2.2 | 1.8 | 1.5 | 1.5 | 1.6 | 1.5 | 1.5 |
| Agcy for Internat'l Dvlpmt ² | 42.9 | 75.3 | 82.6 | NA | NA | NA | NA | NA | NA | NA | NA |
| Departmental Funds | 1.6 | 2.3 | 2.8 | 3.2 | 2.2 | 1.8 | .0 | .0 | .0 | .0 | .0 |
| Dept of Transportation, total | 308.7 | 377.1 | 422.4 | 392.7 | 384.5 | 434.5 | 322.0 | 369.6 | 465.2 | 437.9 | 397.5 |
| Coast Guard | 12.8 | 19.5 | 24.4 | 21.1 | 18.0 | 26.3 | 20.0 | 19.6 | 19.5 | 19.0 | 16.9 |
| Federal Aviation Admin | 100.1 | 106.4 | 111.5 | 120.4 | 108.8 | 128.9 | 99.4 | 147.6 | 282.6 | 294.8 | 271.5 |
| Federal Highway Admin | 29.3 | 55.9 | 52.1 | 53.5 | 58.3 | 51.2 | 40.3 | 50.4 | 46.4 | 49.0 | 46.1 |
| Federal Railroad Admin | 60.5 | 58.5 | 65.7 | 56.1 | 56.4 | 46.1 | 24.5 | 16.5 | 19.2 | 15.0 | 15.4 |
| Federal Transit Admin | 48.8 | 61.6 | 69.6 | 58.0 | 54.4 | 78.2 | 61.4 | 57.0 | 20.1 | 10.2 | 8.2 |
| Maritime Administration ⁴ | NA | NA | NA | NA | NA | 14.2 | 11.1 | 15.0 | 9.9 | 13.9 | 9.4 |
| National Highway Traffic Safety Administration | 31.4 | 47.2 | 66.5 | 56.8 | 63.8 | 66.4 | 55.9 | 52.5 | 57.4 | 28.6 | 22.9 |
| Office of the Secretary | 25.8 | 28.0 | 31.7 | 11.7 | 10.8 | 10.1 | 3.3 | 4.9 | 4.9 | 4.8 | 5.1 |
| Rsch & Special Programs Administration | NA | .0 | .9 | 15.0 | 14.0 | 13.1 | 6.1 | 6.2 | 5.2 | 2.7 | 2.0 |
| Dept of the Treasury, total | 3.8 | 4.9 | 9.9 | 9.6 | 12.1 | 11.4 | 13.4 | 15.6 | 13.9 | 24.4 | 24.2 |
| Bureau of Alcohol, Tobacco, & Firearms | .0 | 1.1 | 2.0 | 2.5 | 1.6 | .3 | NA | NA | NA | NA | NA |
| Bureau of Engraving & Printing | 2.8 | 2.5 | 3.7 | 2.1 | 2.3 | 2.7 | 4.8 | 3.9 | 3.6 | 5.0 | 4.2 |
| Internal Revenue Service | .0 | .0 | 2.4 | 3.6 | 4.0 | 4.2 | 5.4 | 8.0 | 8.2 | 15.9 | 14.2 |
| United States Customs Svc | 1.1 | 1.3 | 1.8 | 1.4 | 3.9 | 3.5 | 3.2 | 3.4 | 1.9 | 2.3 | 4.9 |
| United States Mint | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .6 | .3 |
| United States Secret Service | NA | NA | NA | NA | .4 | .6 | .0 | .3 | .2 | .6 | .5 |
| Department of Veterans Affairs | 109.5 | 112.9 | 118.1 | 132.1 | 137.8 | 159.2 | 140.1 | 171.9 | 196.4 | 229.9 | 191.0 |
| Other agencies: | | | | | | | | | | | |
| ACTION | .1 | .5 | 1.6 | 1.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Advisory Commission on Intergovernmental Relations | 1.0 | 1.5 | 1.7 | 1.7 | 2.2 | 2.2 | 2.0 | 2.1 | 2.1 | 2.4 | 2.1 |
| Appalachian Regional Comm | .7 | .7 | .5 | .9 | .8 | .4 | .4 | .2 | .5 | .2 | .2 |
| Civil Service Commission | 4.0 | 3.9 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Community Services Admin | 10.2 | 24.0 | 24.3 | 20.7 | 30.3 | 18.3 | NA | NA | NA | NA | NA |
| Consumer Product Safety Comm | 5.8 | 6.7 | 4.1 | 6.6 | 6.2 | .5 | .2 | .5 | 1.3 | 2.4 | 2.0 |
| Energy Rsch & Dvlpmt Admin ⁸ | 2,902.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Environmental Protection Agcy | 265.4 | 297.6 | 389.3 | 412.5 | 345.0 | 325.7 | 335.1 | 240.7 | 261.2 | 320.4 | 317.3 |
| Federal Communications Comm | 1.5 | 2.0 | 2.4 | 2.9 | 3.4 | 1.8 | 1.2 | 1.3 | .9 | 1.2 | .9 |
| Federal Emergency Management Agency, total ^{6 5} | NA | NA | 7.0 | 12.6 | 11.8 | 11.6 | 9.2 | 3.3 | 11.5 | 4.1 | .0 |
| National Fire Prevention & Control Administration ⁵ | NA | NA | 7.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Federal Energy Administration | 3.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Federal Trade Commission | .9 | 1.1 | 1.4 | 1.5 | 3.0 | 1.1 | 1.2 | 1.4 | 1.6 | 1.7 | 1.8 |
| Foundation for Educational Assistance ⁷ | NA | NA | NA | NA | NA | 104.9 | NA | NA | NA | NA | NA |
| General Services Admin ³ | 1.1 | .9 | 2.7 | .5 | .2 | .6 | 1.0 | .5 | 2.4 | .4 | 20.0 |

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

Table C-93. Federal obligations for research and development and for R&D plant, by agency: fiscal years 1976-86

[Dollars in millions]

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| Agency and subdivision | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| International Development Cooperation Agcy, total ¹² | NA | NA | NA | 112.9 | 155.6 | 142.2 | 205.9 | 232.0 | 245.0 | 227.2 | 258.7 |
| Agcy for Internat'l Dvlpmnt ¹² | NA | NA | NA | 112.9 | 155.6 | 142.2 | 205.9 | 232.0 | 245.0 | 227.2 | 258.7 |
| Interstate Commerce Comm | 0.1 | 0.1 | 0.3 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | .0 |
| Library of Congress | 3.0 | 3.8 | 4.9 | 5.9 | 6.9 | 4.9 | 5.7 | 7.4 | 7.5 | 7.1 | 6.6 |
| National Aeronautics & Space Administration | 3,529.0 | 3,288.9 | 3,495.6 | 3,725.9 | 3,393.2 | 3,708.9 | 3,191.6 | 2,762.3 | 3,066.1 | 3,561.5 | 3,694.8 |
| National Archives & Records Administration ¹³ | NA | NA | NA | NA | NA | NA | NA | NA | NA | .5 | 1.0 |
| National Science Foundation | 661.8 | 724.1 | 788.5 | 838.1 | 900.5 | 976.2 | 976.8 | 1,065.2 | 1,248.0 | 1,419.1 | 1,406.5 |
| Nuclear Regulatory Commission | 98.1 | 119.4 | 140.8 | 157.4 | 190.4 | 227.3 | 220.3 | 207.3 | 190.7 | 150.0 | 123.8 |
| Office of Personnel Management | NA | NA | 4.5 | 6.0 | 6.8 | 8.4 | .0 | .0 | .0 | .0 | .0 |
| Office of Telecommunications Policy | 4.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Office of Thrift Supervision | .8 | 1.7 | 1.0 | .9 | 1.2 | 1.0 | 2.7 | 3.0 | 2.6 | 2.8 | 3.3 |
| Small Business Administration | .1 | .5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Smithsonian Institution | 26.2 | 29.8 | 35.1 | 37.9 | 41.9 | 45.3 | 52.9 | 57.0 | 63.8 | 72.7 | 64.0 |
| Tennessee Valley Authority | 28.9 | 30.2 | 53.4 | 89.2 | 80.7 | 69.3 | 85.3 | 63.3 | 68.3 | 80.0 | 78.3 |
| United States Arms Control & Disarmament Agency | 1.4 | 2.2 | 3.6 | 3.5 | 3.8 | 2.4 | 1.9 | 1.0 | 1.3 | 1.1 | .9 |
| US Information Agency ¹⁴ | .1 | .1 | .1 | .1 | .1 | 1.5 | .1 | - | 1.4 | .1 | 2.0 |
| US Internat'l Trade Comm | 1.5 | 2.6 | 3.1 | 3.4 | 2.1 | 3.4 | 3.8 | 4.7 | 5.0 | 5.8 | 6.9 |

- 1 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.
- 2 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 1977-79.
- 3 Data reported for the Economics & Statistics Service include programs of the Economic Research Service and the Statistical Reporting Service for fiscal year 1980.
- 4 In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.
- 5 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.
- 6 Functions for the Defense Civil Preparedness Agency transferred from the Department of Defense to the Federal Emergency Management Agency on July 20, 1979.
- 7 The 1983 Budget of the United States Government proposed that the Department of Education be replaced by the Foundation for Educational Assistance.
- 8 In 1977 the Energy Research & Development Administration became part of the Department of Energy.
- 9 In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.
- 10 As of 1985 the Office of Water Research & Technology has been combined with the Geological Survey.
- 11 In 1984 the Labor-Management Services Administration was replaced by Labor-Management Relations & Cooperative Programs.
- 12 The Agency for International Development transferred from the Department of State to the International Development Cooperative Agency on Oct. 1, 1979.
- 13 As of 1985 the National Archives & Records Administration is separate from the General Services Administration.
- 14 Data reported for the United States Information Agency include funds for the former International Communication Agency for fiscal years 1977-81.

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.

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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

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Table C-93a. Federal obligations for research and development and for R&D plant, by agency: fiscal years 1987-97

[Dollars in millions]

| Agency and subdivision | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | Preliminary | |
|--|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | | | | | | | | | | 1996 | 1997 |
| Total, all agencies | 57,099.7 | 58,826.5 | 63,571.6 | 65,831.2 | 64,148.0 | 68,577.2 | 70,414.7 | 69,427.0 | 71,011.8 | 71,047.8 | 70,148.7 |
| Departments: | | | | | | | | | | | |
| Dept of Agriculture, total | 1,059.6 | 1,151.8 | 1,127.5 | 1,210.6 | 1,381.3 | 1,491.8 | 1,470.2 | 1,525.3 | 1,523.1 | 1,501.8 | 1,493.8 |
| Agricultural Cooperative Svc | 2.7 | 2.7 | 2.8 | 2.7 | 2.8 | 3.4 | 2.9 | 3.7 | NA | NA | NA |
| Agricultural Marketing Svc ¹ | 1.5 | 1.6 | 1.5 | 2.7 | 4.2 | 4.7 | 4.7 | 4.8 | 4.8 | 4.9 | 4.9 |
| Agricultural Research Svc ² | 522.4 | 561.2 | 578.7 | 589.9 | 655.7 | 725.2 | 705.5 | 757.0 | 751.0 | 759.3 | 819.9 |
| Animal & Plant Health Inspection Service | 4.9 | 6.2 | 7.7 | 14.0 | 15.7 | 16.7 | 17.1 | 19.2 | 19.1 | 21.2 | 20.6 |
| Cooperative State Rsch, Ed, & Extension Service ³ | 338.3 | 374.7 | 339.4 | 371.1 | 438.3 | 481.2 | 479.2 | 471.6 | 489.0 | 473.2 | 402.2 |
| Economic Research Service | 44.8 | 48.1 | 49.5 | 50.5 | 54.4 | 58.9 | 58.9 | 55.2 | 53.8 | 53.1 | 54.9 |
| Foreign Agricultural Svc ⁴ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .8 | .5 | 1.4 | 1.4 |
| Forest Service | 127.1 | 138.4 | 133.0 | 163.5 | 193.1 | 184.3 | 186.3 | 198.0 | 197.8 | 180.5 | 181.8 |
| Grain Inspection Packers & Stockyards Administration ⁵ | 1.2 | 1.0 | 1.1 | .6 | .7 | 1.5 | 1.8 | 1.8 | 1.5 | 2.8 | 2.8 |
| Human Nutrition Information Service ² | 6.8 | 8.2 | 8.4 | 9.0 | 9.9 | 10.7 | 8.4 | 7.0 | NA | NA | NA |
| National Agricultural Statistics Service | 3.4 | 3.6 | 2.9 | 2.8 | 3.2 | 3.6 | 3.9 | 3.9 | 4.0 | 3.9 | 3.9 |
| Office of International Cooperation & Dvlpm ⁴ | 5.6 | 5.0 | 2.5 | 3.6 | 3.1 | 1.5 | 1.5 | .0 | NA | NA | NA |
| Office of Transportation | 1.1 | 1.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Rural Business-Cooperative Service ⁶ | NA | NA | NA | NA | NA | NA | NA | 2.4 | 1.6 | 1.4 | 1.4 |
| Department of Commerce, total | 407.5 | 400.2 | 407.0 | 453.5 | 505.4 | 672.2 | 681.7 | 857.3 | 1,213.7 | 1,252.4 | 1,201.4 |
| Bureau of the Census | 4.7 | 5.7 | 4.9 | 6.9 | 6.6 | 5.3 | 5.4 | 4.8 | 4.9 | 7.1 | 7.1 |
| Economic Development Admin | 5.0 | 4.2 | 1.0 | 1.2 | 1.4 | .5 | .0 | .6 | .5 | .5 | 1.5 |
| National Institute of Standards & Technology | 100.7 | 118.7 | 124.2 | 131.0 | 148.4 | 190.2 | 219.8 | 284.1 | 640.5 | 711.2 | 647.0 |
| National Oceanic & Atmospheric Administration | 289.3 | 263.5 | 269.1 | 306.7 | 345.3 | 472.2 | 452.4 | 562.9 | 561.4 | 529.1 | 541.1 |
| National Telecommunications & Information Administration | 7.8 | 8.1 | 7.8 | 7.7 | 3.6 | 4.0 | 4.2 | 4.8 | 6.4 | 4.5 | 4.7 |
| Office of the Secretary | - | .0 | .0 | .0 | .0 | .0 | .0 | .0 | - | - | .0 |
| Department of Defense, total | 35,708.7 | 35,684.6 | 38,076.2 | 37,755.5 | 32,560.5 | 36,526.0 | 36,220.7 | 34,787.5 | 34,427.3 | 34,368.8 | 33,004.3 |
| Department of the Army | 5,085.2 | 4,898.8 | 5,704.5 | 5,737.2 | 6,172.5 | 6,876.2 | 6,227.2 | 5,576.2 | 5,424.7 | 4,838.5 | 4,377.7 |
| Department of the Navy | 9,576.8 | 9,588.9 | 9,755.7 | 9,646.6 | 7,860.0 | 8,126.8 | 9,148.3 | 9,005.1 | 8,974.5 | 8,812.3 | 7,593.6 |
| Department of the Air Force | 15,618.0 | 15,011.0 | 15,487.6 | 15,153.6 | 11,089.8 | 13,606.8 | 12,866.9 | 12,626.8 | 11,835.7 | 12,123.6 | 13,379.7 |
| Defense Agencies | 5,291.8 | 5,957.3 | 6,973.3 | 6,996.8 | 7,200.9 | 7,670.5 | 7,723.3 | 7,336.5 | 7,939.6 | 8,343.6 | 7,380.3 |
| Operational Test & Evaluation, Director | 8.4 | 68.2 | 14.4 | 32.6 | 13.6 | 12.4 | 12.3 | 11.2 | 21.7 | 23.0 | 22.0 |
| Test & Evaluation, Deputy Under Secretary of Defense | 128.5 | 160.3 | 140.7 | 188.7 | 223.7 | 233.2 | 242.5 | 231.8 | 231.0 | 227.8 | 251.0 |
| Department of Education | 153.5 | 145.9 | 161.0 | 178.8 | 175.2 | 170.9 | 179.9 | 178.4 | 179.4 | 181.7 | 188.1 |
| Department of Energy | 5,529.4 | 5,951.4 | 6,065.6 | 6,546.6 | 7,203.2 | 7,493.0 | 7,723.7 | 6,959.8 | 6,890.0 | 6,431.5 | 6,721.1 |

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

Table C-93a. Federal obligations for research and development and for R&D plant, by agency: fiscal years 1987-97

[Dollars in millions]

Page 2 of 4

| Agency and subdivision | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | Preliminary | |
|---|---------|---------|---------|---------|---------|---------|----------|----------|----------|-------------|----------|
| | | | | | | | | | | 1996 | 1997 |
| Department of Health & Human Services, total | 6,643.0 | 7,177.6 | 7,981.4 | 8,513.4 | 9,842.3 | 9,084.6 | 10,498.5 | 11,141.7 | 11,711.0 | 12,218.0 | 12,614.2 |
| Administration on Aging ⁷ | NA | NA | NA | NA | 20.6 | 20.2 | 20.9 | 19.1 | 20.7 | 3.7 | 3.2 |
| Administration for Children & Families ^{8 7} | NA | NA | NA | NA | 129.0 | 39.2 | 19.9 | 11.3 | 12.0 | 9.0 | 19.0 |
| Agency for Health Care Policy & Research ⁹ | NA | NA | NA | 49.7 | 101.1 | 106.3 | 114.8 | 154.4 | 135.3 | 65.2 | 84.0 |
| Alcohol, Drug Abuse, & Mental Health Administration ¹⁰ | 476.1 | 554.8 | 695.7 | 842.7 | 1,460.6 | NA | NA | NA | NA | NA | NA |
| Centers for Disease Control & Prevention | 66.2 | 88.7 | 117.8 | 95.6 | 113.4 | 146.9 | 162.5 | 206.8 | 317.4 | 323.2 | 361.2 |
| Food & Drug Administration | 85.8 | 91.5 | 122.0 | 122.0 | 143.5 | 150.0 | 174.2 | 177.8 | 175.8 | 182.6 | 178.8 |
| Health Care Financing Admin | 27.3 | 28.2 | 49.1 | 49.1 | 69.1 | 75.5 | 68.2 | 80.0 | 74.5 | 54.5 | 55.3 |
| Hlth Resources & Svcs Admin | 9.3 | 10.0 | 10.5 | 11.9 | 11.0 | 10.5 | 11.0 | 17.8 | 14.8 | 14.0 | 12.7 |
| Human Development Svcs ⁷ | 53.0 | 54.0 | 101.7 | 95.4 | NA | NA | NA | NA | NA | NA | NA |
| National Insts of Health ¹⁰ | 5,886.2 | 6,309.9 | 6,833.8 | 7,221.3 | 7,763.4 | 8,491.4 | 9,893.3 | 10,439.9 | 10,930.6 | 11,556.3 | 11,890.5 |
| Office of the Assistant Secretary for Health ⁹ | 21.2 | 21.0 | 27.2 | 6.9 | 10.0 | 6.7 | 1.2 | .8 | .3 | .5 | .6 |
| Office of the Secretary | 8.2 | 4.7 | 7.8 | 5.0 | 8.8 | 5.0 | 8.0 | 11.7 | 9.1 | 9.0 | 9.0 |
| Social Security Admin ¹¹ | 9.8 | 14.7 | 15.8 | 13.9 | 11.9 | 33.0 | 24.5 | 22.2 | 20.4 | NA | NA |
| Dept of Housing & Urban Dvlpmt ... | 16.3 | 18.4 | 18.0 | 19.3 | 27.8 | 25.1 | 23.6 | 39.6 | 41.8 | 35.0 | 45.5 |
| Dept of the Interior, total | 415.7 | 426.1 | 479.8 | 522.6 | 615.1 | 627.6 | 642.2 | 703.1 | 568.3 | 567.5 | 580.6 |
| Bureau of Land Management | 3.7 | 3.7 | 3.0 | 2.8 | 8.8 | 6.3 | 8.9 | .0 | .0 | .0 | .0 |
| Bureau of Mines | 88.8 | 91.3 | 101.2 | 102.3 | 108.2 | 107.1 | 111.9 | 107.9 | .0 | NA | NA |
| Bureau of Reclamation | 10.7 | 4.4 | 4.2 | 5.8 | 8.7 | 13.2 | 10.3 | 7.4 | 8.0 | 6.0 | 7.6 |
| Geological Survey ¹² | 227.6 | 236.9 | 281.1 | 309.7 | 359.8 | 365.7 | 360.4 | 377.4 | 367.4 | 519.9 | 530.6 |
| Minerals Management Service ... | 1.0 | 1.2 | 2.2 | 2.0 | 2.9 | 4.8 | 6.9 | 21.8 | 21.0 | 21.8 | 21.6 |
| Nat'l Biological Svc ^{13 12} | NA | NA | NA | NA | NA | NA | .0 | 164.2 | 152.1 | NA | NA |
| National Park Service ¹³ | 18.5 | 19.4 | 19.4 | 20.1 | 27.5 | 31.1 | 38.1 | 24.2 | 19.7 | 19.8 | 20.8 |
| Office of the Secretary | .0 | .4 | .4 | .2 | .6 | .9 | .4 | .1 | - | - | .0 |
| Office of Surface Mining Reclamation & Enforcement ... | 1.0 | 1.0 | .7 | .7 | 1.0 | .3 | .5 | .0 | .0 | .0 | .0 |
| US Fish & Wildlife Svc ¹³ | 64.3 | 67.8 | 67.5 | 78.9 | 97.6 | 98.2 | 104.8 | .0 | .0 | .0 | .0 |
| Department of Justice, total | 53.5 | 43.1 | 38.2 | 40.5 | 48.9 | 48.0 | 48.9 | 45.0 | 57.9 | 80.9 | 93.7 |
| Bureau of Prisons ¹⁴ | 7.1 | 6.0 | 5.1 | 4.5 | 5.2 | 5.9 | 6.1 | 5.4 | 5.7 | 4.7 | 4.7 |
| Drug Enforcement Admin | 2.2 | 2.5 | 2.7 | 2.4 | 2.7 | 1.4 | .9 | .9 | .4 | 1.2 | .5 |
| Federal Bureau of Investigation | 19.1 | 12.7 | 7.7 | 8.2 | 10.8 | 10.9 | 11.3 | 7.0 | 10.9 | 36.8 | 34.8 |
| Immigration & Naturalization Service | .4 | .3 | .1 | .4 | .4 | .4 | .4 | .4 | .4 | .4 | .4 |
| Office of Justice Programs | 24.6 | 21.5 | 22.5 | 25.0 | 29.8 | 29.4 | 30.2 | 31.4 | 40.5 | 37.8 | 53.2 |
| Office of Legal Policy | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Department of Labor, total | 21.6 | 35.6 | 35.4 | 73.0 | 44.0 | 51.7 | 55.0 | 59.7 | 53.7 | 46.5 | 42.9 |
| Bureau of Labor Statistics | 6.5 | 7.0 | 7.0 | 7.3 | 7.5 | 7.6 | 6.9 | 7.1 | 13.1 | 13.3 | 12.6 |
| Employment Standards Admin | 1.0 | .1 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Employment & Training Admin ... | 5.7 | 14.9 | 15.7 | 53.4 | 22.1 | 31.7 | 35.9 | 40.0 | 25.6 | 20.8 | 17.3 |
| Labor-Management Relations & Cooperative Programs | .3 | .4 | .3 | NA | NA | NA | NA | NA | NA | NA | NA |
| Occupational Safety & Health Administration | 4.1 | 4.2 | 4.5 | 2.5 | 2.6 | 3.1 | 2.5 | 3.3 | 4.4 | 3.2 | 3.5 |
| Office of the Secretary | 2.7 | 6.1 | 6.1 | 7.1 | 8.7 | 5.9 | 5.8 | 5.3 | 6.3 | 6.4 | 6.5 |
| Pension Benefit Guaranty Corp .. | .3 | .3 | .3 | .5 | .5 | .9 | 1.3 | 1.3 | .8 | .6 | .7 |
| Pension & Welfare Benefits Administration | 1.0 | 2.7 | 1.4 | 2.1 | 2.5 | 2.6 | 2.6 | 2.7 | 3.6 | 2.3 | 2.3 |
| Department of State ¹⁵ | 3.0 | 4.2 | 4.7 | 4.7 | 5.9 | 5.6 | 5.3 | 8.2 | 5.0 | 4.3 | 4.3 |

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

Table C-93a. Federal obligations for research and development and for R&D plant, by agency: fiscal years 1987-97

[Dollars in millions]

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| Agency and subdivision | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | Preliminary | |
|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------------|---------|
| | | | | | | | | | | 1996 | 1997 |
| Dept of Transportation, total | 336.2 | 318.5 | 318.9 | 388.3 | 398.3 | 470.3 | 577.6 | 661.7 | 755.8 | 670.5 | 728.2 |
| Coast Guard | 17.0 | 21.4 | 17.9 | 20.6 | 25.9 | 20.5 | 33.4 | 22.8 | 20.2 | 20.6 | 20.3 |
| Federal Aviation Admin | 177.7 | 173.8 | 162.3 | 237.5 | 236.4 | 260.2 | 271.3 | 318.6 | 310.1 | 238.2 | 240.9 |
| Federal Highway Admin | 76.9 | 74.1 | 91.0 | 91.5 | 86.9 | 131.0 | 175.7 | 242.0 | 315.6 | 308.6 | 363.4 |
| Federal Railroad Admin | 11.2 | 10.4 | 9.0 | 10.2 | 17.6 | 22.8 | 26.8 | 20.6 | 30.1 | 34.5 | 27.6 |
| Federal Transit Admin ¹⁶ | 12.6 | 2.3 | 1.4 | 1.6 | 1.7 | 1.7 | 31.3 | 19.9 | 28.7 | 16.0 | 14.6 |
| Maritime Administration | 5.8 | .5 | .0 | .9 | 1.7 | 1.8 | 1.7 | 1.7 | 2.5 | .0 | 2.0 |
| National Highway Traffic Safety Administration | 28.4 | 28.3 | 29.7 | 16.9 | 21.4 | 25.8 | 31.6 | 25.3 | 39.7 | 38.2 | 45.7 |
| Office of the Secretary | 4.5 | 5.7 | 5.5 | 6.8 | 4.3 | 4.1 | 4.5 | 5.4 | 3.9 | 2.9 | 2.8 |
| Rsch & Special Programs Administration | 2.1 | 2.1 | 2.0 | 2.4 | 2.4 | 2.5 | 1.3 | 5.3 | 5.0 | 11.5 | 10.9 |
| Dept of the Treasury, total | 27.0 | 26.2 | 25.7 | 25.7 | 31.0 | 24.8 | 16.8 | 19.1 | 61.5 | 63.8 | 64.5 |
| Bureau of Engraving & Printing | 4.5 | 2.0 | 1.7 | 2.1 | 3.5 | 2.0 | 3.2 | 1.7 | 1.8 | 2.2 | 2.0 |
| Financial Crimes Enforcement Network | .0 | .0 | .0 | .0 | 2.3 | 1.2 | 1.5 | .0 | .0 | .0 | .0 |
| Internal Revenue Svc ^{17 18} | 14.6 | 14.4 | 14.4 | 16.8 | 17.9 | 17.9 | 6.5 | 11.3 | 49.7 | 50.6 | 54.3 |
| Off of Thrift Supervision ¹⁹ | NA | NA | NA | .0 | 3.0 | .8 | .7 | .5 | .6 | .5 | .6 |
| United States Customs Svc | 7.1 | 9.3 | 6.9 | 6.3 | 3.8 | 2.3 | 4.1 | 4.6 | 8.6 | 9.6 | 6.5 |
| United States Mint | .2 | .1 | 2.0 | .1 | .1 | .0 | .1 | .5 | .3 | .2 | .4 |
| US Secret Service ²⁰ | .5 | .4 | .6 | .5 | .4 | .6 | .6 | .5 | .6 | .6 | .6 |
| Department of Veterans Affairs | 215.4 | 234.8 | 245.7 | 241.0 | 220.0 | 229.6 | 239.5 | 259.7 | 245.1 | 279.8 | 262.3 |
| Other agencies: | | | | | | | | | | | |
| Advisory Commission on Intergovernmental Relations | 1.9 | 1.8 | 1.1 | 1.5 | 1.7 | 1.7 | 2.1 | 1.4 | 1.4 | 1.4 | .0 |
| Appalachian Regional Comm | .1 | .2 | .8 | .4 | .7 | 1.9 | .9 | .9 | .9 | .9 | .9 |
| Consumer Product Safety Comm | 2.2 | 1.1 | 1.3 | 1.1 | 1.3 | 1.1 | 1.2 | .3 | .4 | .0 | .0 |
| Environmental Protection Agcy | 348.2 | 347.4 | 380.3 | 419.7 | 432.6 | 483.9 | 497.8 | 558.3 | 556.3 | 461.9 | 585.7 |
| Federal Communications Comm | 1.0 | 1.2 | 1.1 | 1.3 | 1.4 | 1.6 | 1.6 | 1.7 | 2.3 | 2.8 | 2.7 |
| Federal Trade Commission | .5 | .4 | .4 | .5 | 1.0 | 1.3 | .9 | .7 | .6 | 1.0 | 1.0 |
| General Services Admin | 1.6 | 2.3 | .5 | 19.5 | 22.6 | 6.5 | 1.0 | .3 | .1 | .2 | .0 |
| International Development Cooperation Agcy, total | 224.3 | 210.6 | 279.1 | 334.6 | 377.7 | 365.9 | 382.2 | 254.3 | 302.5 | 246.5 | 186.8 |
| Agcy for Internat'l Dvlpmt ¹⁵ | 224.3 | 210.6 | 279.1 | 334.6 | 377.7 | 365.9 | 382.2 | 254.3 | 302.5 | 246.5 | 186.8 |
| Library of Congress | 6.5 | 7.1 | 8.0 | 8.4 | 9.0 | 10.3 | 10.5 | 10.0 | 10.2 | 8.3 | 9.1 |
| National Aeronautics & Space Administration | 4,096.5 | 4,758.6 | 5,913.0 | 7,060.3 | 8,003.8 | 8,475.4 | 8,769.2 | 8,811.5 | 9,639.7 | 9,946.2 | 9,519.0 |
| Nat'l Archives & Records Admin | 1.1 | .7 | .3 | .4 | .7 | .7 | .3 | .3 | .1 | .1 | .1 |
| National Science Foundation | 1,531.8 | 1,589.6 | 1,724.0 | 1,728.8 | 1,944.8 | 1,970.0 | 2,012.3 | 2,212.2 | 2,438.9 | 2,360.5 | 2,479.2 |
| Nuclear Regulatory Commission | 122.5 | 108.5 | 114.8 | 108.8 | 108.8 | 119.0 | 119.8 | 90.7 | 88.2 | 59.2 | 59.0 |
| Office of Thrift Supervision ¹⁹ | 3.4 | 3.4 | 4.1 | 4.1 | NA | NA | NA | NA | NA | NA | NA |
| Smithsonian Institution | 74.4 | 75.8 | 83.6 | 88.8 | 99.5 | 101.8 | 107.0 | 129.2 | 129.0 | 130.4 | 141.8 |
| Social Security Admin ¹¹ | NA | NA | NA | NA | NA | NA | NA | NA | NA | 8.3 | 27.7 |

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

Table C-93a. Federal obligations for research and development and for R&D plant, by agency: fiscal years 1987-97

[Dollars in millions]

| Agency and subdivision | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | Preliminary | |
|---|------|------|------|------|------|-------|-------|------|------|-------------|------|
| | | | | | | | | | | 1996 | 1997 |
| Tennessee Valley Authority | 78.2 | 87.7 | 62.8 | 69.8 | 73.1 | 100.5 | 109.6 | 97.9 | 94.1 | 104.4 | 77.0 |
| United States Arms Control & Disarmament Agency ²¹ | 4.6 | 3.4 | 2.8 | .2 | .4 | 2.1 | 1.5 | 1.3 | 1.1 | .5 | 1.0 |
| US Information Agency | 3.5 | .4 | .1 | .5 | .1 | .0 | 1.1 | .6 | .3 | .2 | .1 |
| US Internat'l Trade Comm | 7.2 | 8.1 | 8.7 | 9.1 | 9.9 | 12.3 | 12.2 | 9.4 | 12.2 | 12.7 | 12.5 |

- 1 Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.
- 2 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 3 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.
- 4 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.
- 5 The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.
- 6 This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.
- 7 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.
- 8 Obligations reported for the Administration for Children & Families may be incomplete for fiscal year 1992 due to unavailability of data.
- 9 In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.
- 10 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.
- 11 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.
- 12 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.
- 13 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.
- 14 The Bureau of Prisons was formerly listed as the Federal Prison System.
- 15 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.
- 16 The name of this agency changed from the Urban Mass Transit Administration to the Federal Transit Administration on Dec. 18, 1991.
- 17 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.
- 18 Large changes in obligations reported by the Internal Revenue Service for Vol. 44 are due to shifts in research funding.
- 19 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.
- 20 The United States Secret Service was formerly listed as the Office of Protective Research.
- 21 Fiscal year 1994 figures for the United States Arms Control & Disarmament Agency are estimates based on the agency's Vol. 43 submission.

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.

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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

**Table C-94. Federal obligations for research and development, by agency:
fiscal years 1976-86**

[Dollars in millions]

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| Agency and subdivision | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
|---|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Total, all agencies | 20,779.7 | 23,450.4 | 25,845.1 | 28,145.1 | 29,830.4 | 33,103.9 | 36,432.6 | 38,711.5 | 42,224.9 | 48,359.6 | 51,412.4 |
| Departments: | | | | | | | | | | | |
| Dept of Agriculture, total | 462.4 | 547.0 | 621.3 | 663.0 | 687.6 | 774.0 | 797.3 | 847.6 | 866.2 | 943.0 | 928.5 |
| Agricultural Cooperative Svc | NA | NA | NA | NA | 1.6 | 1.7 | 1.7 | 2.1 | 2.2 | 2.9 | 2.6 |
| Agricultural Marketing Svc ¹ | .0 | .0 | .0 | 1.0 | 1.3 | 1.1 | 1.2 | 1.4 | 1.5 | 1.7 | 1.6 |
| Agricultural Research Svc | NA | NA | NA | NA | NA | 394.1 | 404.9 | 443.4 | 451.3 | 469.7 | 463.4 |
| Animal & Plant Health Inspection Service | NA | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 4.2 |
| Cooperative State Rsch, Ed, & Extension Service | NA | NA | NA | NA | NA | 199.4 | 219.0 | 232.3 | 235.7 | 284.3 | 269.0 |
| Economic Research Service | NA | NA | NA | NA | NA | 39.3 | 39.3 | 38.8 | 43.7 | 46.4 | 44.6 |
| Economics, Statistics, & Cooperative Svc, total ² | 27.0 | 30.5 | 32.7 | 35.5 | NA | NA | NA | NA | NA | NA | NA |
| Economic Research Service ... | 24.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Farmer Cooperative Service ... | 1.2 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Statistical Reporting Svc | 1.9 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Economics & Statistics Svc ³ | NA | NA | NA | NA | 31.1 | NA | NA | NA | NA | NA | NA |
| Forest Service | 79.9 | 90.3 | 105.6 | 107.5 | 111.5 | 126.1 | 112.1 | 107.7 | 108.4 | 113.1 | 113.3 |
| Grain Inspection Packers & Stockyards Administration | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .9 | 1.0 |
| Human Nutrition Information Service | NA | NA | NA | NA | NA | .0 | 8.5 | 8.2 | 6.0 | 6.7 | 12.8 |
| National Agricultural Statistics Service | .0 | NA | NA | NA | NA | 7.5 | 7.0 | 7.6 | 8.2 | 8.4 | 8.0 |
| Office of International Cooperation & Development ... | NA | NA | NA | .0 | 5.3 | 3.9 | 2.6 | 5.3 | 8.2 | 7.7 | 7.0 |
| Office of Transportation | NA | NA | NA | .7 | .8 | .9 | .9 | .8 | 1.0 | 1.2 | 1.0 |
| Science & Ed Admin, total | 355.5 | 426.2 | 483.0 | 518.4 | 536.0 | NA | NA | NA | NA | NA | NA |
| Agricultural Research Svc | 242.1 | 298.9 | 325.5 | 345.8 | 351.8 | NA | NA | NA | NA | NA | NA |
| Cooperative State Rsch Svc ... | 113.4 | 127.3 | 157.4 | 172.6 | 184.2 | NA | NA | NA | NA | NA | NA |
| Nat'l Agricultural Library | - | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Department of Commerce, total | 228.9 | 244.7 | 283.7 | 309.4 | 342.5 | 327.9 | 336.3 | 335.0 | 358.2 | 398.8 | 399.2 |
| Bureau of the Census | 2.5 | 2.6 | 3.4 | 3.1 | 3.2 | 3.9 | 3.8 | 4.3 | 4.4 | 4.9 | 4.7 |
| Economic Development Admin ... | 15.1 | 15.0 | 38.5 | 43.1 | 32.3 | 28.1 | 9.6 | 5.3 | 5.1 | 13.0 | 10.3 |
| Maritime Administration ⁴ | 19.0 | 14.8 | 19.6 | 19.6 | 19.4 | NA | NA | NA | NA | NA | NA |
| Minority Business Dvlpmt Agcy ... | 2.0 | 3.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| National Fire Prevention & Control Administration ⁵ | 6.4 | 6.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| National Institute of Standards & Technology | 47.4 | 53.2 | 58.3 | 67.8 | 76.2 | 82.5 | 88.8 | 95.0 | 95.5 | 100.5 | 100.8 |
| National Oceanic & Atmospheric Administration ... | 135.1 | 145.7 | 161.5 | 171.2 | 199.8 | 201.4 | 222.0 | 222.0 | 244.3 | 269.8 | 274.7 |
| National Telecommunications & Information Administration | NA | 2.9 | 1.8 | 4.1 | 10.7 | 10.9 | 11.3 | 8.3 | 8.7 | 9.1 | 8.4 |
| Office of the Secretary | .0 | .0 | .0 | .1 | .6 | .0 | - | - | .1 | 1.4 | .3 |
| Office of Telecommunications Patent & Trademark Office | .9 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Patent & Trademark Office | .4 | .5 | .5 | .5 | .5 | 1.1 | .7 | .0 | .0 | .0 | .0 |
| Department of Defense, total | 9,654.7 | 10,963.4 | 11,553.6 | 12,506.2 | 13,981.0 | 16,508.6 | 20,622.6 | 22,992.8 | 25,372.9 | 29,791.5 | 32,937.9 |
| Department of the Army | 2,013.7 | 2,441.9 | 2,548.9 | 2,768.7 | 2,980.0 | 3,244.2 | 3,760.5 | 3,998.1 | 4,225.5 | 4,570.8 | 4,809.4 |
| Department of the Navy | 3,328.0 | 3,817.4 | 3,998.4 | 4,335.0 | 4,706.1 | 5,006.0 | 5,845.1 | 6,068.2 | 7,605.6 | 9,127.4 | 9,650.3 |
| Department of the Air Force | 3,726.6 | 4,031.1 | 4,262.3 | 4,525.6 | 5,211.0 | 6,969.2 | 9,357.9 | 10,812.6 | 12,091.6 | 13,260.9 | 13,593.8 |
| Defense Agencies | 561.6 | 641.4 | 707.9 | 847.6 | 1,046.0 | 1,248.2 | 1,618.1 | 2,052.3 | 1,391.5 | 2,781.7 | 4,767.4 |
| Defense Civil Preparedness Agency ⁶ | .7 | 1.3 | 7.5 | NA | NA | NA | NA | NA | NA | NA | NA |
| Test & Evaluation, Deputy Under Secretary of Defense ... | 24.1 | 30.2 | 28.6 | 29.3 | 37.9 | 41.1 | 41.0 | 61.6 | 58.6 | 50.6 | 117.1 |

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

**Table C-94. Federal obligations for research and development, by agency:
fiscal years 1976-86**

[Dollars in millions]

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| Agency and subdivision | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Department of Education ⁷ | NA | NA | NA | 166.3 | 139.4 | .0 | 128.0 | 111.7 | 115.7 | 124.9 | 121.3 |
| Department of Energy ^{8 9} | NA | 3,536.2 | 4,244.8 | 4,638.8 | 4,753.7 | 4,918.2 | 4,708.2 | 4,536.7 | 4,673.6 | 4,966.0 | 4,688.3 |
| Department of Health, Education, & Welfare, total | 2,583.6 | 2,823.3 | 3,207.3 | NA | NA | NA | NA | NA | NA | NA | NA |
| Alcohol, Drug Abuse, & Mental Health Administration | 139.5 | 153.0 | 180.2 | NA | NA | NA | NA | NA | NA | NA | NA |
| Center for Disease Control | 49.6 | 55.3 | 60.1 | NA | NA | NA | NA | NA | NA | NA | NA |
| Food & Drug Administration | 37.1 | 42.9 | 64.1 | NA | NA | NA | NA | NA | NA | NA | NA |
| Health Care Financing Admin | NA | 30.0 | 19.4 | NA | NA | NA | NA | NA | NA | NA | NA |
| Health Resources Admin | 38.2 | 7.4 | 5.5 | NA | NA | NA | NA | NA | NA | NA | NA |
| Health Services Admin | 17.5 | 17.7 | 18.2 | NA | NA | NA | NA | NA | NA | NA | NA |
| National Inst of Education | 63.7 | 64.9 | 89.5 | NA | NA | NA | NA | NA | NA | NA | NA |
| National Insts of Health | 2,060.2 | 2,279.9 | 2,580.9 | NA | NA | NA | NA | NA | NA | NA | NA |
| Office of Assistant Secretary for Education | 1.0 | 1.0 | 1.3 | NA | NA | NA | NA | NA | NA | NA | NA |
| Office of Assistant Secretary for Health | .0 | 32.2 | 36.2 | NA | NA | NA | NA | NA | NA | NA | NA |
| Office of Education | 58.2 | 31.1 | 32.9 | NA | NA | NA | NA | NA | NA | NA | NA |
| Office of Human Dvlpmt Svcs | 61.9 | 76.8 | 75.8 | NA | NA | NA | NA | NA | NA | NA | NA |
| Office of the Secretary | 23.7 | 20.0 | 30.2 | NA | NA | NA | NA | NA | NA | NA | NA |
| Social & Rehabilitation Svc | 18.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Social Security Admin | 14.4 | 11.2 | 12.9 | NA | NA | NA | NA | NA | NA | NA | NA |
| Department of Health & Human Services, total | NA | NA | NA | 3,504.9 | 3,780.2 | 3,927.1 | 3,940.7 | 4,352.5 | 4,830.7 | 5,451.0 | 5,657.6 |
| Alcohol, Drug Abuse, & Mental Health Administration | NA | NA | NA | 214.3 | 233.5 | 239.4 | 248.1 | 302.2 | 337.2 | 377.6 | 396.1 |
| Centers for Disease Control & Prevention | NA | NA | NA | 76.3 | 87.3 | 74.8 | 75.0 | 78.2 | 46.3 | 47.6 | 52.2 |
| Food & Drug Administration | NA | NA | NA | 61.0 | 75.4 | 71.4 | 73.0 | 74.2 | 77.8 | 82.1 | 79.4 |
| Health Care Financing Admin | NA | NA | NA | 31.8 | 45.7 | 38.6 | 29.1 | 30.2 | 33.1 | 33.5 | 29.0 |
| Health Resources Admin | NA | NA | NA | 4.9 | 5.1 | 5.0 | NA | NA | NA | NA | NA |
| Hlth Resources & Svcs Admin | NA | NA | NA | NA | NA | NA | 10.1 | 13.3 | 18.5 | 19.7 | 12.3 |
| Health Services Admin | NA | NA | NA | 28.7 | 26.7 | 20.3 | NA | NA | NA | NA | NA |
| Human Development Services | NA | NA | NA | 57.1 | 49.3 | 73.7 | 27.2 | 23.4 | 18.3 | 24.3 | 54.6 |
| National Insts of Health | NA | NA | NA | 2,953.1 | 3,181.8 | 3,333.2 | 3,433.1 | 3,789.2 | 4,257.4 | 4,827.7 | 5,005.1 |
| Office of the Assistant Secretary for Health | NA | NA | NA | 34.6 | 29.9 | 33.1 | 16.1 | 16.6 | 18.1 | 18.6 | 17.3 |
| Office of the Secretary | NA | NA | NA | 24.7 | 24.0 | 19.5 | 13.4 | 14.4 | 10.4 | 9.6 | 6.1 |
| Social Security Admin | NA | NA | NA | 18.3 | 21.4 | 18.0 | 15.5 | 10.8 | 13.5 | 10.4 | 5.6 |
| Dept of Housing & Urban Dvlpmt ... | 67.6 | 52.1 | 69.7 | 67.9 | 56.0 | 48.1 | 28.9 | 32.1 | 18.2 | 18.5 | 15.3 |
| Dept of the Interior, total | 333.2 | 314.7 | 359.0 | 405.8 | 411.3 | 427.1 | 381.1 | 382.5 | 410.9 | 391.7 | 385.2 |
| Bonneville Power Admin ⁹ | 7.0 | .0 | .0 | .0 | .0 | 14.2 | NA | NA | NA | NA | NA |
| Bureau of Land Management | .7 | .9 | 1.2 | 1.3 | 1.7 | 1.9 | 5.3 | 3.9 | 3.8 | 4.4 | 3.4 |
| Bureau of Mines | 131.3 | 101.9 | 114.0 | 121.0 | 113.4 | 96.7 | 94.7 | 88.5 | 108.8 | 89.9 | 84.4 |
| Bureau of Reclamation | 8.3 | 9.9 | 11.2 | 12.2 | 14.1 | 14.3 | 10.1 | 10.0 | 10.4 | 13.2 | 10.2 |
| Geological Survey ¹⁰ | 110.3 | 117.5 | 133.7 | 145.6 | 146.3 | 169.8 | 152.6 | 157.0 | 208.9 | 214.9 | 218.6 |
| Heritage Conservation & Recreation Service | - | - | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Minerals Management Service ... | NA | NA | NA | NA | NA | NA | .0 | 1.5 | 1.5 | 1.4 | 1.1 |
| National Park Service | 9.3 | 7.8 | 7.7 | 8.9 | 8.2 | 10.4 | 11.2 | 13.7 | 14.0 | 15.0 | 17.3 |
| Office of the Secretary | 1.0 | 4.5 | 1.7 | 1.4 | 2.2 | 1.5 | .5 | 7.4 | .1 | 1.9 | 1.0 |
| Office of Surface Mining Reclamation & Enforcement ... | NA | .0 | 2.2 | 5.0 | 7.5 | 5.8 | 1.5 | 1.5 | .8 | 2.0 | 2.3 |
| Office of Water Rsch & Tech ¹⁰ | 19.0 | 15.1 | 27.4 | 27.2 | 29.3 | 21.1 | 11.4 | 2.2 | 3.6 | NA | NA |
| US Fish & Wildlife Svc | 46.2 | 57.1 | 59.9 | 83.1 | 88.6 | 91.5 | 93.9 | 96.7 | 59.1 | 49.0 | 47.0 |
| Department of Justice, total | 33.9 | 27.7 | 60.9 | 43.0 | 41.5 | 26.5 | 26.7 | 31.4 | 24.5 | 36.0 | 36.5 |
| Bureau of Prisons | .8 | 1.1 | 3.6 | 3.4 | 2.1 | 2.5 | 1.7 | 1.7 | 1.6 | 1.5 | 3.0 |
| Drug Enforcement Admin | 2.5 | 3.0 | 1.9 | 2.4 | 2.7 | 1.3 | 3.2 | 2.5 | 1.9 | 1.6 | 2.5 |
| Federal Bureau of Investigation | 1.2 | 1.4 | 1.8 | 3.1 | 1.4 | .7 | 2.7 | 2.5 | 1.0 | 9.5 | 7.2 |
| Immigration & Naturalization Service | .1 | .3 | .4 | .2 | .3 | .1 | .6 | .6 | .6 | .4 | .4 |
| Office of Justice Programs | 29.2 | 21.8 | 51.6 | 32.2 | 33.2 | 21.0 | 18.0 | 23.8 | 19.5 | 22.7 | 23.2 |
| Office of Legal Policy | .0 | .0 | 1.6 | 1.7 | 1.8 | .8 | .4 | .3 | .0 | .3 | .2 |

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

**Table C-94. Federal obligations for research and development, by agency:
fiscal years 1976-86**

[Dollars in millions]

| Agency and subdivision | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
|---|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Department of Labor, total | 28.5 | 29.6 | 97.8 | 137.0 | 138.1 | 62.2 | 25.4 | 19.9 | 16.3 | 13.3 | 10.4 |
| Bureau of Labor Statistics | 1.3 | 1.4 | 1.2 | .9 | .9 | .3 | .3 | .7 | .5 | .6 | .6 |
| Employment Standards Admin | 4.3 | 4.4 | 3.7 | 5.3 | 4.9 | 3.2 | 1.4 | 1.4 | .9 | - | .0 |
| Employment & Training Admin | 17.5 | 16.8 | 86.6 | 120.8 | 121.7 | 52.4 | 16.1 | 9.0 | 6.1 | 3.5 | 3.5 |
| Labor-Management Relations & Cooperative Programs ¹ | NA | NA | NA | NA | NA | NA | NA | NA | .3 | .3 | .2 |
| Labor-Management Services Administration ¹ | .7 | 3.3 | 2.8 | 3.2 | 2.8 | 1.8 | .7 | .9 | NA | NA | NA |
| Occupational Safety & Health Administration | 2.9 | 3.4 | 1.3 | 5.1 | 6.3 | 3.0 | 4.9 | 5.3 | 5.1 | 4.5 | 3.6 |
| Office of the Secretary | 1.8 | .2 | 2.2 | 1.6 | 1.4 | 1.1 | .9 | 1.5 | 1.9 | 2.6 | 2.1 |
| Pension Benefit Guaranty Corp | NA | NA | NA | NA | NA | .5 | 1.1 | 1.1 | .3 | .2 | .1 |
| Pension & Welfare Benefits Administration | NA | NA | NA | NA | NA | NA | NA | NA | 1.2 | 1.6 | .3 |
| Department of State, total ² | 39.4 | 61.4 | 85.2 | 3.2 | 2.2 | 1.8 | 1.5 | 1.5 | 1.6 | 1.5 | 1.5 |
| Agcy for Internat'l Dvlpm ² | 37.8 | 59.1 | 82.4 | NA | NA | NA | NA | NA | NA | NA | NA |
| Departmental Funds | 1.6 | 2.3 | 2.8 | 3.2 | 2.2 | 1.8 | .0 | .0 | .0 | .0 | .0 |
| Dept of Transportation, total | 294.5 | 354.6 | 408.3 | 370.1 | 361.2 | 415.5 | 310.1 | 347.7 | 448.3 | 428.9 | 385.5 |
| Coast Guard | 12.4 | 18.9 | 23.7 | 21.1 | 18.0 | 26.3 | 20.0 | 19.6 | 19.5 | 19.0 | 16.9 |
| Federal Aviation Admin | 98.1 | 103.4 | 110.5 | 110.5 | 103.1 | 120.0 | 94.3 | 126.2 | 266.2 | 286.3 | 260.6 |
| Federal Highway Admin | 28.9 | 55.5 | 51.7 | 52.9 | 51.1 | 51.2 | 40.3 | 50.4 | 46.4 | 49.0 | 45.5 |
| Federal Railroad Admin | 50.4 | 41.9 | 53.9 | 44.2 | 46.2 | 36.6 | 18.2 | 16.5 | 19.2 | 15.0 | 15.4 |
| Federal Transit Admin | 47.5 | 59.9 | 69.6 | 58.0 | 54.4 | 78.2 | 61.4 | 57.0 | 20.1 | 10.2 | 8.2 |
| Maritime Administration ⁴ | NA | NA | NA | NA | NA | 14.2 | 11.1 | 15.0 | 9.9 | 13.9 | 9.4 |
| National Highway Traffic Safety Administration | 31.4 | 47.0 | 66.3 | 56.6 | 63.6 | 65.9 | 55.4 | 52.0 | 56.9 | 28.1 | 22.4 |
| Office of the Secretary | 25.8 | 28.0 | 31.7 | 11.7 | 10.8 | 10.1 | 3.3 | 4.9 | 4.9 | 4.8 | 5.1 |
| Rsch & Special Programs Administration | NA | .0 | .9 | 15.0 | 14.0 | 13.1 | 6.1 | 6.2 | 5.2 | 2.7 | 2.0 |
| Dept of the Treasury, total | 3.7 | 4.8 | 9.9 | 9.5 | 12.0 | 11.3 | 13.3 | 15.6 | 13.9 | 24.3 | 24.0 |
| Bureau of Alcohol, Tobacco, & Firearms | .0 | 1.1 | 2.0 | 2.5 | 1.6 | .3 | NA | NA | NA | NA | NA |
| Bureau of Engraving & Printing | 2.8 | 2.5 | 3.7 | 2.1 | 2.3 | 2.7 | 4.8 | 3.9 | 3.6 | 5.0 | 4.2 |
| Internal Revenue Service | .0 | .0 | 2.4 | 3.6 | 4.0 | 4.2 | 5.4 | 8.0 | 8.2 | 15.9 | 14.2 |
| United States Customs Svc | 1.0 | 1.2 | 1.8 | 1.3 | 3.8 | 3.5 | 3.1 | 3.3 | 1.8 | 2.2 | 4.8 |
| United States Mint | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .6 | .3 |
| United States Secret Service | NA | NA | NA | NA | .4 | .6 | .0 | .3 | .2 | .6 | .4 |
| Department of Veterans Affairs | 97.7 | 107.0 | 114.0 | 127.0 | 133.4 | 144.4 | 137.3 | 161.4 | 190.3 | 226.6 | 186.2 |
| Other agencies: | | | | | | | | | | | |
| ACTION | .1 | .5 | 1.6 | 1.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Advisory Commission on Intergovernmental Relations | 1.0 | 1.5 | 1.7 | 1.7 | 2.2 | 2.2 | 2.0 | 2.1 | 2.1 | 2.4 | 2.1 |
| Appalachian Regional Comm | .7 | .7 | .5 | .9 | .8 | .4 | .4 | .2 | .5 | .2 | .2 |
| Civil Service Commission | 4.0 | 3.9 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Community Services Admin | 10.2 | 24.0 | 24.3 | 20.7 | 30.3 | 18.3 | NA | NA | NA | NA | NA |
| Consumer Product Safety Comm | 5.6 | 6.7 | 3.8 | 3.9 | 3.5 | .5 | .2 | .5 | 1.3 | 2.4 | 2.0 |
| Energy Rsch & Dvlpm ⁸ Admin | 2,463.8 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Environmental Protection Agcy | 259.1 | 295.5 | 384.6 | 410.1 | 345.0 | 325.7 | 335.1 | 240.7 | 261.2 | 320.4 | 317.3 |
| Federal Communications Comm | 1.5 | 2.0 | 2.4 | 2.9 | 3.4 | 1.8 | 1.2 | 1.3 | .9 | 1.2 | .9 |
| Federal Emergency Management Agency, total ⁶ | NA | NA | 7.0 | 12.6 | 11.8 | 11.6 | 9.2 | 3.3 | 11.5 | 4.1 | .0 |
| National Fire Prevention & Control Administration ⁵ | NA | NA | 7.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Federal Energy Administration | 3.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Federal Trade Commission | .9 | 1.1 | 1.4 | 1.5 | 3.0 | 1.1 | 1.2 | 1.4 | 1.6 | 1.7 | 1.8 |
| Foundation for Educational Assistance ⁷ | NA | NA | NA | NA | NA | 104.9 | NA | NA | NA | NA | NA |
| General Services Admin ³ | 1.1 | .9 | 2.7 | .5 | .2 | .6 | 1.0 | .5 | 2.4 | .4 | 1.2 |

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

**Table C-94. Federal obligations for research and development, by agency:
fiscal years 1976-86**

[Dollars in millions]

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| Agency and subdivision | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| International Development Cooperation Agcy, total ¹² | NA | NA | NA | 106.5 | 149.3 | 134.2 | 199.9 | 227.3 | 237.2 | 220.4 | 251.2 |
| Agcy for Internat'l Dvlpmt ¹² | NA | NA | NA | 106.5 | 149.3 | 134.2 | 199.9 | 227.3 | 237.2 | 220.4 | 251.2 |
| Interstate Commerce Comm | 0.1 | 0.1 | 0.3 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | .0 |
| Library of Congress | 3.0 | 3.8 | 4.9 | 5.9 | 6.9 | 4.9 | 5.7 | 7.4 | 7.5 | 7.1 | 6.6 |
| National Aeronautics & Space Administration | 3,446.8 | 3,170.8 | 3,333.3 | 3,578.4 | 3,234.1 | 3,593.2 | 3,077.9 | 2,661.6 | 2,821.9 | 3,327.2 | 3,419.8 |
| National Archives & Records Administration ¹³ | NA | NA | NA | NA | NA | NA | NA | NA | NA | .5 | 1.0 |
| National Science Foundation | 609.3 | 697.0 | 748.8 | 807.9 | 881.8 | 961.6 | 975.3 | 1,062.0 | 1,202.8 | 1,345.6 | 1,353.3 |
| Nuclear Regulatory Commission | 88.4 | 112.3 | 133.9 | 148.8 | 182.7 | 219.7 | 220.3 | 207.3 | 190.7 | 150.0 | 123.8 |
| Office of Personnel Management | NA | NA | 4.5 | 6.0 | 6.8 | 8.4 | .0 | .0 | .0 | .0 | .0 |
| Office of Telecommunications Policy | 4.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Office of Thrift Supervision | .8 | 1.7 | 1.0 | .9 | 1.2 | 1.0 | 2.7 | 3.0 | 2.6 | 2.8 | 3.3 |
| Small Business Administration | .1 | .5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Smithsonian Institution | 25.7 | 29.7 | 34.9 | 36.9 | 41.0 | 44.9 | 52.4 | 56.0 | 63.6 | 71.1 | 63.3 |
| Tennessee Valley Authority | 18.7 | 26.5 | 31.5 | 38.4 | 80.1 | 68.9 | 85.0 | 63.0 | 68.1 | 79.5 | 77.5 |
| United States Arms Control & Disarmament Agency | 1.4 | 2.2 | 3.6 | 3.5 | 3.8 | 2.4 | 1.9 | 1.0 | 1.3 | 1.1 | .9 |
| US Information Agency ¹⁴ | .1 | .1 | .1 | .1 | .1 | 1.5 | .1 | - | 1.4 | .1 | 2.0 |
| US Internat'l Trade Comm | 1.5 | 2.6 | 3.1 | 3.4 | 2.1 | 3.4 | 3.8 | 4.7 | 5.0 | 5.8 | 6.9 |

¹ 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.

² 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 1977-79.

³ Data reported for the Economics & Statistics Service include programs of the Economic Research Service and the Statistical Reporting Service for fiscal year 1980.

⁴ In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.

⁵ 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.

⁶ Functions for the Defense Civil Preparedness Agency transferred from the Department of Defense to the Federal Emergency Management Agency on July 20, 1979.

⁷ The 1983 Budget of the United States Government proposed that the Department of Education be replaced by the Foundation for Educational Assistance.

⁸ In 1977 the Energy Research & Development Administration became part of the Department of Energy.

⁹ In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.

¹⁰ As of 1985 the Office of Water Research & Technology has been combined with the Geological Survey.

¹¹ In 1984 the Labor-Management Services Administration was replaced by Labor-Management Relations & Cooperative Programs.

¹² The Agency for International Development transferred from the Department of State to the International Development Cooperative Agency on Oct. 1, 1979.

¹³ As of 1985 the National Archives & Records Administration is separate from the General Services Administration.

¹⁴ Data reported for the United States Information Agency include funds for the former International Communication Agency for fiscal years 1977-81.

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.

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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

**Table C-94a. Federal obligations for research and development, by agency:
fiscal years 1987-97**

[Dollars in millions]

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| Agency and subdivision | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | Preliminary | |
|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|-------------|----------|
| | | | | | | | | | | 1996 | 1997 |
| Total, all agencies | 55,253.7 | 56,769.4 | 61,406.5 | 63,559.5 | 61,295.2 | 65,592.6 | 67,314.0 | 67,255.8 | 68,754.9 | 69,076.9 | 68,063.7 |
| Departments: | | | | | | | | | | | |
| Dept of Agriculture, total | 947.9 | 1,016.6 | 1,038.3 | 1,108.4 | 1,236.6 | 1,327.1 | 1,327.8 | 1,399.6 | 1,379.8 | 1,352.3 | 1,368.6 |
| Agricultural Cooperative Svc | 2.7 | 2.7 | 2.8 | 2.7 | 2.8 | 3.4 | 2.9 | 3.7 | NA | NA | NA |
| Agricultural Marketing Svc ¹ | 1.5 | 1.6 | 1.5 | 2.7 | 4.2 | 4.7 | 4.7 | 4.8 | 4.8 | 4.9 | 4.9 |
| Agricultural Research Svc ² | 478.6 | 505.7 | 523.5 | 545.5 | 591.0 | 627.1 | 627.2 | 678.7 | 683.3 | 680.9 | 696.6 |
| Animal & Plant Health Inspection Service | 4.9 | 5.6 | 7.4 | 8.0 | 15.7 | 16.7 | 17.1 | 19.2 | 19.1 | 19.7 | 20.6 |
| Cooperative State Rsch, Ed, & Extension Service ³ | 270.7 | 298.4 | 307.3 | 324.2 | 376.8 | 418.2 | 418.6 | 429.0 | 417.7 | 406.2 | 402.2 |
| Economic Research Service | 44.8 | 48.1 | 49.5 | 50.5 | 54.4 | 58.9 | 58.9 | 55.2 | 53.8 | 53.1 | 54.9 |
| Foreign Agricultural Svc ⁴ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .8 | .5 | 1.4 | 1.4 |
| Forest Service | 126.7 | 135.5 | 131.4 | 158.6 | 174.7 | 180.7 | 182.7 | 193.1 | 193.5 | 178.0 | 179.8 |
| Grain Inspection Packers & Stockyards Administration ⁵ | 1.2 | 1.0 | 1.1 | .6 | .7 | 1.5 | 1.8 | 1.8 | 1.5 | 2.8 | 2.8 |
| Human Nutrition Information Service ² | 6.8 | 8.2 | 8.4 | 9.0 | 9.9 | 10.7 | 8.4 | 7.0 | NA | NA | NA |
| National Agricultural Statistics Service | 3.4 | 3.6 | 2.9 | 2.8 | 3.2 | 3.6 | 3.9 | 3.9 | 4.0 | 3.9 | 3.9 |
| Office of International Cooperation & Dvlpmt ⁴ | 5.6 | 5.0 | 2.5 | 3.6 | 3.1 | 1.5 | 1.5 | .0 | NA | NA | NA |
| Office of Transportation | 1.1 | 1.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Rural Business-Cooperative Service ⁶ | NA | NA | NA | NA | NA | NA | NA | 2.4 | 1.6 | 1.4 | 1.4 |
| Department of Commerce, total | 402.2 | 388.9 | 397.9 | 438.2 | 489.6 | 651.2 | 656.3 | 826.1 | 1,136.0 | 1,172.6 | 1,095.8 |
| Bureau of the Census | 4.7 | 5.7 | 4.9 | 6.9 | 6.6 | 5.3 | 5.4 | 4.8 | 4.9 | 7.1 | 7.1 |
| Economic Development Admin | 5.0 | 4.2 | 1.0 | 1.2 | 1.4 | .5 | .0 | .6 | .5 | .5 | 1.5 |
| National Institute of Standards & Technology | 98.6 | 107.9 | 115.5 | 122.3 | 140.0 | 179.0 | 207.2 | 253.2 | 563.3 | 631.7 | 541.7 |
| National Oceanic & Atmospheric Administration | 286.1 | 263.0 | 268.6 | 300.1 | 338.0 | 462.4 | 439.5 | 562.6 | 560.9 | 528.8 | 540.8 |
| National Telecommunications & Information Administration | 7.8 | 8.1 | 7.8 | 7.7 | 3.6 | 4.0 | 4.2 | 4.8 | 6.4 | 4.5 | 4.7 |
| Office of the Secretary | - | .0 | .0 | .0 | .0 | .0 | .0 | .0 | - | - | .0 |
| Department of Defense, total | 35,231.5 | 35,248.9 | 37,576.9 | 37,268.1 | 32,134.8 | 36,129.5 | 35,849.1 | 34,566.1 | 34,362.0 | 34,284.3 | 32,964.4 |
| Department of the Army | 5,019.5 | 4,806.0 | 5,659.3 | 5,684.1 | 6,081.5 | 6,854.2 | 6,209.1 | 5,574.1 | 5,419.3 | 4,833.3 | 4,373.3 |
| Department of the Navy | 9,507.8 | 9,514.1 | 9,666.1 | 9,586.2 | 7,806.0 | 8,030.8 | 9,102.9 | 8,929.0 | 8,963.3 | 8,804.0 | 7,581.6 |
| Department of the Air Force | 15,347.7 | 14,867.3 | 15,237.4 | 14,831.4 | 10,937.5 | 13,427.1 | 12,635.3 | 12,527.4 | 11,797.9 | 12,096.2 | 13,359.8 |
| Defense Agencies | 5,219.7 | 5,832.9 | 6,858.9 | 6,945.2 | 7,072.5 | 7,571.7 | 7,647.0 | 7,292.5 | 7,928.9 | 8,299.9 | 7,376.6 |
| Operational Test & Evaluation, Director | 8.4 | 68.2 | 14.4 | 32.6 | 13.6 | 12.4 | 12.3 | 11.2 | 21.7 | 23.0 | 22.0 |
| Test & Evaluation, Deputy Under Secretary of Defense | 128.5 | 160.3 | 140.7 | 188.7 | 223.7 | 233.2 | 242.5 | 231.8 | 231.0 | 227.8 | 251.0 |
| Department of Education | 132.5 | 140.7 | 159.1 | 169.9 | 171.0 | 168.5 | 177.7 | 176.6 | 177.6 | 181.7 | 188.1 |
| Department of Energy | 4,757.2 | 5,036.4 | 5,192.6 | 5,630.6 | 5,983.1 | 6,172.2 | 6,262.1 | 6,048.0 | 6,145.0 | 5,675.7 | 5,895.2 |

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

**Table C-94a. Federal obligations for research and development, by agency:
fiscal years 1987-97**

[Dollars in millions]

Page 2 of 4

| Agency and subdivision | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | Preliminary | |
|---|---------|---------|---------|---------|---------|---------|----------|----------|----------|-------------|----------|
| | | | | | | | | | | 1996 | 1997 |
| Department of Health & Human Services, total | 6,606.3 | 7,158.0 | 7,902.8 | 8,405.6 | 9,756.0 | 8,987.8 | 10,349.2 | 11,021.5 | 11,455.2 | 11,914.2 | 12,184.9 |
| Administration on Aging ⁷ | NA | NA | NA | NA | 20.6 | 20.2 | 20.9 | 19.1 | 20.7 | 3.7 | 3.2 |
| Administration for Children & Families ^{8 7} | NA | NA | NA | NA | 129.0 | 39.2 | 19.9 | 11.3 | 12.0 | 9.0 | 19.0 |
| Agency for Health Care Policy & Research ⁹ | NA | NA | NA | 49.7 | 101.1 | 106.3 | 114.8 | 154.4 | 135.3 | 65.2 | 84.0 |
| Alcohol, Drug Abuse, & Mental Health Administration ¹⁰ | 475.5 | 554.8 | 695.7 | 842.7 | 1,460.6 | NA | NA | NA | NA | NA | NA |
| Centers for Disease Control & Prevention | 66.2 | 88.7 | 117.8 | 95.6 | 113.4 | 146.9 | 162.5 | 206.8 | 317.4 | 323.2 | 361.2 |
| Food & Drug Administration | 85.0 | 91.0 | 99.0 | 99.0 | 125.0 | 135.7 | 154.5 | 169.4 | 170.5 | 170.5 | 170.5 |
| Health Care Financing Admin | 27.3 | 28.2 | 49.1 | 49.1 | 69.1 | 75.5 | 68.2 | 80.0 | 74.5 | 54.5 | 55.3 |
| Hlth Resources & Svcs Admin | 9.3 | 10.0 | 10.5 | 11.9 | 11.0 | 10.1 | 9.6 | 16.4 | 13.2 | 13.0 | 11.7 |
| Human Development Svcs ⁷ | 53.0 | 54.0 | 101.7 | 95.4 | NA | NA | NA | NA | NA | NA | NA |
| National Insts of Health ¹⁰ | 5,850.9 | 6,290.9 | 6,778.3 | 7,136.5 | 7,695.5 | 8,409.2 | 9,765.1 | 10,329.4 | 10,681.8 | 11,265.6 | 11,470.5 |
| Office of the Assistant Secretary for Health ⁹ | 21.2 | 21.0 | 27.2 | 6.9 | 10.0 | 6.7 | 1.2 | .8 | .3 | .5 | .6 |
| Office of the Secretary | 8.2 | 4.7 | 7.8 | 5.0 | 8.8 | 5.0 | 8.0 | 11.7 | 9.1 | 9.0 | 9.0 |
| Social Security Admin ¹¹ | 9.8 | 14.7 | 15.8 | 13.9 | 11.9 | 33.0 | 24.5 | 22.2 | 20.4 | NA | NA |
| Dept of Housing & Urban Dvlpmt | 16.3 | 18.4 | 18.0 | 19.3 | 27.8 | 25.1 | 23.6 | 39.6 | 41.8 | 35.0 | 45.5 |
| Dept of the Interior, total | 403.8 | 416.8 | 469.0 | 508.5 | 592.9 | 609.2 | 619.1 | 694.1 | 561.6 | 565.1 | 573.5 |
| Bureau of Land Management | 3.7 | 3.7 | 3.0 | 2.8 | 8.8 | 6.3 | 8.9 | .0 | .0 | .0 | .0 |
| Bureau of Mines | 88.8 | 91.3 | 98.7 | 99.3 | 106.1 | 107.1 | 111.9 | 107.9 | .0 | NA | NA |
| Bureau of Reclamation | 10.7 | 4.4 | 4.2 | 5.8 | 8.7 | 13.2 | 10.3 | 7.4 | 8.0 | 6.0 | 7.6 |
| Geological Survey ¹² | 226.8 | 236.1 | 279.9 | 308.4 | 356.6 | 361.4 | 356.7 | 371.1 | 362.0 | 518.5 | 524.4 |
| Minerals Management Service | 1.0 | 1.2 | 2.2 | 1.9 | 2.7 | 3.8 | 5.8 | 20.6 | 20.0 | 20.8 | 20.6 |
| Nat'l Biological Svc ^{13 12} | NA | NA | NA | NA | NA | NA | .0 | 162.8 | 151.8 | NA | NA |
| National Park Service ¹³ | 18.5 | 19.4 | 19.4 | 20.1 | 27.5 | 31.1 | 38.1 | 24.2 | 19.7 | 19.8 | 20.8 |
| Office of the Secretary | .0 | .4 | .4 | .2 | .6 | .9 | .4 | .1 | - | - | .0 |
| Office of Surface Mining Reclamation & Enforcement | 1.0 | 1.0 | .7 | .7 | 1.0 | .3 | .5 | .0 | .0 | .0 | .0 |
| US Fish & Wildlife Svc ¹³ | 53.3 | 59.2 | 60.6 | 69.4 | 81.0 | 85.1 | 86.5 | .0 | .0 | .0 | .0 |
| Department of Justice, total | 42.4 | 43.1 | 38.2 | 40.5 | 48.9 | 48.0 | 48.9 | 45.0 | 57.9 | 80.9 | 93.7 |
| Bureau of Prisons ¹⁴ | 7.1 | 6.0 | 5.1 | 4.5 | 5.2 | 5.9 | 6.1 | 5.4 | 5.7 | 4.7 | 4.7 |
| Drug Enforcement Admin | 2.2 | 2.5 | 2.7 | 2.4 | 2.7 | 1.4 | .9 | .9 | .4 | 1.2 | .5 |
| Federal Bureau of Investigation | 8.0 | 12.7 | 7.7 | 8.2 | 10.8 | 10.9 | 11.3 | 7.0 | 10.9 | 36.8 | 34.8 |
| Immigration & Naturalization Service | .4 | .3 | .1 | .4 | .4 | .4 | .4 | .4 | .4 | .4 | .4 |
| Office of Justice Programs | 24.6 | 21.5 | 22.5 | 25.0 | 29.8 | 29.4 | 30.2 | 31.4 | 40.5 | 37.8 | 53.2 |
| Office of Legal Policy | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Department of Labor, total | 21.6 | 35.6 | 35.4 | 73.0 | 44.0 | 51.7 | 55.0 | 59.7 | 53.7 | 46.5 | 42.9 |
| Bureau of Labor Statistics | 6.5 | 7.0 | 7.0 | 7.3 | 7.5 | 7.6 | 6.9 | 7.1 | 13.1 | 13.3 | 12.6 |
| Employment Standards Admin | 1.0 | .1 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Employment & Training Admin | 5.7 | 14.9 | 15.7 | 53.4 | 22.1 | 31.7 | 35.9 | 40.0 | 25.6 | 20.8 | 17.3 |
| Labor-Management Relations & Cooperative Programs | .3 | .4 | .3 | NA | NA | NA | NA | NA | NA | NA | NA |
| Occupational Safety & Health Administration | 4.1 | 4.2 | 4.5 | 2.5 | 2.6 | 3.1 | 2.5 | 3.3 | 4.4 | 3.2 | 3.5 |
| Office of the Secretary | 2.7 | 6.1 | 6.1 | 7.1 | 8.7 | 5.9 | 5.8 | 5.3 | 6.3 | 6.4 | 6.5 |
| Pension Benefit Guaranty Corp | .3 | .3 | .3 | .5 | .5 | .9 | 1.3 | 1.3 | .8 | .6 | .7 |
| Pension & Welfare Benefits Administration | 1.0 | 2.7 | 1.4 | 2.1 | 2.5 | 2.6 | 2.6 | 2.7 | 3.6 | 2.3 | 2.3 |
| Department of State ¹⁵ | 3.0 | 4.2 | 4.7 | 4.7 | 5.9 | 5.6 | 5.3 | 8.2 | 5.0 | 4.3 | 4.3 |

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

**Table C-94a. Federal obligations for research and development, by agency:
fiscal years 1987-97**

[Dollars in millions]

Page 3 of 4

| Agency and subdivision | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | Preliminary | |
|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------------|---------|
| | | | | | | | | | | 1996 | 1997 |
| Dept of Transportation, total | 325.0 | 304.6 | 303.3 | 366.6 | 379.9 | 445.0 | 545.3 | 620.7 | 727.0 | 641.4 | 705.7 |
| Coast Guard | 17.0 | 21.1 | 17.9 | 20.2 | 25.5 | 20.1 | 32.9 | 22.3 | 19.7 | 20.0 | 19.8 |
| Federal Aviation Admin | 167.3 | 160.5 | 146.8 | 216.1 | 220.1 | 236.2 | 248.9 | 285.6 | 288.4 | 217.6 | 223.7 |
| Federal Highway Admin | 76.7 | 74.1 | 91.0 | 91.5 | 86.9 | 130.2 | 174.9 | 235.7 | 312.5 | 304.8 | 362.1 |
| Federal Railroad Admin | 11.2 | 10.0 | 9.0 | 10.2 | 15.9 | 22.7 | 25.2 | 19.5 | 26.5 | 30.3 | 24.1 |
| Federal Transit Admin ¹⁶ | 12.6 | 2.3 | 1.4 | 1.6 | 1.7 | 1.7 | 24.3 | 19.9 | 28.7 | 16.0 | 14.6 |
| Maritime Administration | 5.8 | .5 | .0 | .9 | 1.7 | 1.8 | 1.7 | 1.7 | 2.5 | .0 | 2.0 |
| National Highway Traffic Safety Administration | 27.9 | 28.3 | 29.7 | 16.9 | 21.4 | 25.8 | 31.6 | 25.3 | 39.7 | 38.2 | 45.7 |
| Office of the Secretary | 4.5 | 5.7 | 5.5 | 6.8 | 4.3 | 4.1 | 4.5 | 5.4 | 3.9 | 2.9 | 2.8 |
| Rsch & Special Programs Administration | 2.1 | 2.1 | 2.0 | 2.4 | 2.4 | 2.5 | 1.3 | 5.3 | 5.0 | 11.5 | 10.9 |
| Dept of the Treasury, total | 26.9 | 26.1 | 25.6 | 25.6 | 30.8 | 24.6 | 16.6 | 19.0 | 61.4 | 63.6 | 64.4 |
| Bureau of Engraving & Printing | 4.5 | 2.0 | 1.7 | 2.1 | 3.5 | 2.0 | 3.2 | 1.7 | 1.8 | 2.2 | 2.0 |
| Financial Crimes Enforcement Network | .0 | .0 | .0 | .0 | 2.3 | 1.2 | 1.5 | .0 | .0 | .0 | .0 |
| Internal Revenue Svc ^{17 18} | 14.6 | 14.4 | 14.4 | 16.8 | 17.9 | 17.9 | 6.5 | 11.3 | 49.7 | 50.6 | 54.3 |
| Off of Thrift Supervision ¹⁹ | NA | NA | NA | .0 | 3.0 | .8 | .7 | .5 | .6 | .5 | .6 |
| United States Customs Svc | 7.0 | 9.2 | 6.8 | 6.2 | 3.7 | 2.2 | 4.0 | 4.5 | 8.5 | 9.5 | 6.4 |
| United States Mint | .2 | .1 | 2.0 | .1 | .1 | .0 | .1 | .5 | .3 | .2 | .4 |
| US Secret Service ²⁰ | .5 | .4 | .6 | .5 | .4 | .5 | .6 | .5 | .5 | .6 | .6 |
| Department of Veterans Affairs | 209.5 | 215.3 | 234.7 | 237.7 | 216.6 | 223.9 | 236.2 | 248.0 | 237.9 | 276.2 | 258.0 |
| Other agencies: | | | | | | | | | | | |
| Advisory Commission on Intergovernmental Relations | 1.9 | 1.8 | 1.1 | 1.5 | 1.7 | 1.7 | 2.1 | 1.4 | 1.4 | 1.4 | .0 |
| Appalachian Regional Comm | .1 | .2 | .8 | .4 | .7 | 1.9 | .9 | .9 | .9 | .9 | .9 |
| Consumer Product Safety Comm | 2.2 | 1.1 | 1.3 | 1.1 | 1.3 | 1.1 | 1.2 | .3 | .4 | .0 | .0 |
| Environmental Protection Agcy | 348.2 | 347.4 | 380.3 | 419.7 | 432.6 | 483.9 | 495.3 | 553.5 | 551.5 | 457.1 | 581.0 |
| Federal Communications Comm | 1.0 | 1.2 | 1.1 | 1.3 | 1.4 | 1.6 | 1.6 | 1.7 | 2.3 | 2.8 | 2.7 |
| Federal Trade Commission | .5 | .4 | .4 | .5 | 1.0 | 1.3 | .9 | .7 | .6 | 1.0 | 1.0 |
| General Services Admin | 1.6 | 2.3 | .5 | .7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| International Development Cooperation Agcy, total | 217.5 | 204.4 | 279.1 | 334.6 | 377.7 | 365.9 | 382.2 | 254.3 | 302.5 | 246.5 | 186.8 |
| Agcy for Internat'l Dvlpm ^{t15} | 217.5 | 204.4 | 279.1 | 334.6 | 377.7 | 365.9 | 382.2 | 254.3 | 302.5 | 246.5 | 186.8 |
| Library of Congress | 6.5 | 7.1 | 8.0 | 8.4 | 9.0 | 10.3 | 10.5 | 10.0 | 10.2 | 8.3 | 9.1 |
| National Aeronautics & Space Administration | 3,787.1 | 4,330.4 | 5,393.5 | 6,533.2 | 7,280.2 | 7,657.6 | 8,019.9 | 8,296.2 | 9,014.9 | 9,613.7 | 9,204.2 |
| Nat'l Archives & Records Admin | 1.1 | .7 | .3 | .4 | .7 | .7 | .3 | .3 | .1 | .1 | .1 |
| National Science Foundation | 1,470.5 | 1,532.8 | 1,670.4 | 1,689.5 | 1,785.2 | 1,868.4 | 1,881.9 | 2,040.4 | 2,149.3 | 2,141.7 | 2,278.9 |
| Nuclear Regulatory Commission | 122.5 | 108.5 | 114.8 | 108.8 | 108.8 | 119.0 | 119.8 | 90.7 | 88.2 | 59.2 | 59.0 |
| Office of Thrift Supervision ¹⁹ | 3.4 | 3.4 | 4.1 | 4.1 | NA | NA | NA | NA | NA | NA | NA |
| Smithsonian Institution | 71.5 | 75.1 | 80.2 | 84.0 | 98.0 | 98.0 | 102.0 | 124.2 | 124.0 | 125.4 | 136.8 |
| Social Security Admin ¹¹ | NA | NA | NA | NA | NA | NA | NA | NA | NA | 8.3 | 27.7 |

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

**Table C-94a. Federal obligations for research and development, by agency:
fiscal years 1987-97**

[Dollars in millions]

| Agency and subdivision | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | Preliminary | |
|--|------|------|------|------|------|------|-------|------|------|-------------|------|
| | | | | | | | | | | 1996 | 1997 |
| Tennessee Valley Authority | 77.9 | 87.3 | 62.6 | 64.9 | 68.3 | 97.3 | 108.6 | 97.9 | 93.1 | 103.4 | 77.0 |
| United States Arms Control & Disarmament Agency ²¹ | 3.6 | 3.4 | 2.8 | .2 | .4 | 2.1 | 1.5 | 1.3 | 1.1 | .5 | 1.0 |
| US Information Agency | 3.5 | .4 | .1 | .5 | .1 | .0 | 1.1 | .6 | .3 | .2 | .1 |
| US Internat'l Trade Comm | 7.2 | 8.1 | 8.7 | 9.1 | 9.9 | 12.3 | 12.2 | 9.4 | 12.2 | 12.7 | 12.5 |

- 1 Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.
- 2 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 3 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.
- 4 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.
- 5 The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.
- 6 This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.
- 7 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.
- 8 Obligations reported for the Administration for Children & Families may be incomplete for fiscal year 1992 due to unavailability of data.
- 9 In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.
- 10 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.
- 11 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.
- 12 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.
- 13 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.
- 14 The Bureau of Prisons was formerly listed as the Federal Prison System.
- 15 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.
- 16 The name of this agency changed from the Urban Mass Transit Administration to the Federal Transit Administration on Dec. 18, 1991.
- 17 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.
- 18 Large changes in obligations reported by the Internal Revenue Service for Vol. 44 are due to shifts in research funding.
- 19 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.
- 20 The United States Secret Service was formerly listed as the Office of Protective Research.
- 21 Fiscal year 1994 figures for the United States Arms Control & Disarmament Agency are estimates based on the agency's Vol. 43 submission.

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.

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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

**Table C-95. Federal obligations for R&D plant, by agency:
fiscal years 1976-86**

[Dollars in millions]

Page 1 of 2

| Agency and subdivision | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
|--|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Total, all agencies | 836.7 | 1,367.2 | 1,295.7 | 1,475.5 | 1,555.7 | 1,485.7 | 1,389.8 | 1,297.5 | 1,787.3 | 1,820.8 | 1,538.8 |
| Departments: | | | | | | | | | | | |
| Dept of Agriculture, total | 16.1 | 12.9 | 24.7 | 22.6 | 56.9 | 20.8 | 21.5 | 33.9 | 39.2 | 40.6 | 79.4 |
| Agricultural Research Svc | NA | NA | NA | NA | NA | 17.6 | 21.1 | 23.4 | 28.8 | 29.0 | 69.2 |
| Cooperative State Rsch, Ed, & Extension Service | NA | NA | NA | NA | NA | .0 | .0 | 10.0 | 10.0 | 10.0 | 9.5 |
| Forest Service | 2.9 | 1.8 | 2.7 | 3.5 | 3.6 | 3.2 | .4 | .5 | .4 | 1.6 | .6 |
| Science & Ed Admin, total | 13.2 | 11.1 | 22.0 | 19.1 | 53.2 | NA | NA | NA | NA | NA | NA |
| Agricultural Research Svc | 13.2 | 11.1 | 22.0 | 19.1 | 53.2 | NA | NA | NA | NA | NA | NA |
| Department of Commerce, total | 6.6 | 7.1 | 4.1 | 2.4 | 4.6 | 1.3 | 1.0 | .7 | 9.4 | 4.2 | 9.3 |
| Maritime Administration ¹ | 2.2 | 4.9 | 1.0 | .9 | .5 | NA | NA | NA | NA | NA | NA |
| National Institute of Standards & Technology | .5 | .7 | .8 | 1.5 | .3 | .5 | 1.0 | .7 | 9.4 | 4.2 | 7.7 |
| National Oceanic & Atmospheric Administration | 4.0 | 1.5 | 2.3 | .0 | 3.9 | .8 | .0 | .0 | .0 | .0 | 1.5 |
| Department of Defense, total | 143.4 | 445.6 | 232.6 | 270.2 | 208.2 | 277.7 | 290.5 | 312.5 | 529.2 | 530.9 | 286.1 |
| Department of the Army | 12.3 | 16.3 | 7.6 | 3.8 | 13.8 | 12.8 | 24.7 | 26.3 | 56.2 | 52.9 | 53.9 |
| Department of the Navy | 45.8 | 61.2 | 48.3 | 68.1 | 83.2 | 97.9 | 155.9 | 141.7 | 173.4 | 182.1 | 97.6 |
| Department of the Air Force | 73.0 | 350.0 | 160.1 | 167.5 | 108.0 | 159.6 | 84.7 | 138.7 | 285.4 | 291.3 | 130.1 |
| Defense Agencies | 12.3 | 18.1 | 16.6 | 30.8 | 3.2 | 7.4 | 25.2 | 5.8 | 14.2 | 4.6 | 4.5 |
| Department of Education ² | NA | NA | NA | .0 | .0 | .0 | .0 | .0 | .0 | 1.1 | 6.6 |
| Department of Energy ^{3 4} | NA | 561.0 | 690.7 | 844.4 | 1,024.1 | 978.2 | 914.0 | 757.7 | 852.4 | 868.4 | 742.3 |
| Department of Health, Education, & Welfare, total | 33.1 | 132.6 | 74.3 | NA | NA | NA | NA | NA | NA | NA | NA |
| Food & Drug Administration | .9 | .8 | .9 | NA | NA | NA | NA | NA | NA | NA | NA |
| National Insts of Health | 32.2 | 131.8 | 73.4 | NA | NA | NA | NA | NA | NA | NA | NA |
| Department of Health & Human Services, total | NA | NA | NA | 53.5 | 30.6 | 23.7 | 24.7 | 47.9 | 31.1 | 42.1 | 37.9 |
| Alcohol, Drug Abuse, & Mental Health Administration | NA | NA | NA | .1 | .0 | .2 | 3.3 | 1.8 | .3 | .4 | .5 |
| Food & Drug Administration | NA | NA | NA | 5.8 | 1.2 | 1.2 | 2.0 | 28.5 | 3.0 | 13.0 | 8.0 |
| National Insts of Health | NA | NA | NA | 47.6 | 29.4 | 22.3 | 19.4 | 17.5 | 27.8 | 28.8 | 29.4 |
| Dept of the Interior, total | 5.9 | 5.0 | 15.0 | 5.0 | 7.5 | 3.5 | 1.3 | 2.4 | 5.2 | 4.2 | 4.3 |
| Bonneville Power Admin ⁴ | .1 | .0 | .0 | .0 | .0 | .3 | NA | NA | NA | NA | NA |
| Bureau of Mines | .0 | 3.4 | 7.1 | .3 | 1.0 | .6 | .1 | .1 | .0 | .0 | .0 |
| Geological Survey ⁵ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 1.4 | 1.0 | .8 | .8 |
| National Park Service | - | - | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Office of Surface Mining Reclamation & Enforcement | NA | .0 | .0 | .0 | .3 | .0 | .0 | .0 | .0 | .0 | .0 |
| Office of Water Rsch & Tech ⁵ | .0 | .9 | .6 | .7 | .7 | .8 | .9 | .0 | .0 | NA | NA |
| US Fish & Wildlife Svc | 5.8 | .6 | 7.3 | 4.0 | 5.5 | 1.8 | .3 | .9 | 4.2 | 3.4 | 3.5 |

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

**Table C-95. Federal obligations for R&D plant, by agency:
fiscal years 1976-86**

[Dollars in millions]

Page 2 of 2

| Agency and subdivision | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Department of State, total ⁶ | 5.1 | 16.2 | 0.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Agcy for Internat'l Dvlpm ⁶ | 5.1 | 16.2 | .2 | NA | NA | NA | NA | NA | NA | NA | NA |
| Dept of Transportation, total | 14.2 | 22.5 | 14.1 | 22.6 | 23.3 | 18.9 | 11.9 | 21.9 | 16.9 | 9.0 | 12.1 |
| Coast Guard | .4 | .6 | .7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Federal Aviation Admin | 2.0 | 3.0 | 1.0 | 9.9 | 5.7 | 8.9 | 5.1 | 21.4 | 16.4 | 8.5 | 10.9 |
| Federal Highway Admin | .4 | .4 | .4 | .6 | 7.2 | - | .0 | .0 | .0 | .0 | .7 |
| Federal Railroad Admin | 10.1 | 16.6 | 11.8 | 11.9 | 10.2 | 9.5 | 6.3 | .0 | .0 | .0 | .0 |
| Federal Transit Admin | 1.3 | 1.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| National Highway Traffic Safety Administration | .0 | .2 | .2 | .2 | .2 | .5 | .5 | .5 | .5 | .5 | .5 |
| Dept of the Treasury, total | .1 | .1 | - | - | - | .1 | .1 | .1 | .1 | .1 | .1 |
| United States Customs Svc | .1 | .1 | - | - | - | .1 | .1 | .1 | .1 | .1 | .1 |
| United States Secret Service | NA | NA | NA | NA | .0 | .0 | .0 | .0 | .0 | .0 | .1 |
| Department of Veterans Affairs | 11.8 | 5.9 | 4.1 | 5.1 | 4.4 | 14.8 | 2.8 | 10.5 | 6.1 | 3.3 | 4.8 |
| Other agencies: | | | | | | | | | | | |
| Consumer Product Safety Comm ... | .2 | .0 | .3 | 2.7 | 2.7 | .0 | .0 | .0 | .0 | .0 | .0 |
| Energy Rsch & Dvlpm ³ Admin | 438.8 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Environmental Protection Agcy | 6.3 | 2.1 | 4.6 | 2.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| General Services Admin ⁷ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 18.8 |
| International Development Cooperation Agcy, total ⁶ | NA | NA | NA | 6.4 | 6.3 | 8.0 | 6.0 | 4.8 | 7.8 | 6.9 | 7.5 |
| Agcy for Internat'l Dvlpm ⁶ | NA | NA | NA | 6.4 | 6.3 | 8.0 | 6.0 | 4.8 | 7.8 | 6.9 | 7.5 |
| National Aeronautics & Space Administration | 82.1 | 118.1 | 162.3 | 147.5 | 159.1 | 115.8 | 113.7 | 100.8 | 244.2 | 234.3 | 275.0 |
| National Science Foundation | 52.6 | 27.1 | 39.7 | 30.2 | 18.7 | 14.6 | 1.5 | 3.2 | 45.2 | 73.6 | 53.2 |
| Nuclear Regulatory Commission ... | 9.6 | 7.1 | 6.9 | 8.6 | 7.7 | 7.7 | .0 | .0 | .0 | .0 | .0 |
| Smithsonian Institution | .5 | .2 | .2 | 1.0 | .9 | .4 | .5 | 1.0 | .2 | 1.6 | .7 |
| Tennessee Valley Authority | 10.2 | 3.7 | 21.9 | 50.8 | .6 | .4 | .3 | .3 | .2 | .5 | .8 |

- 1 In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.
- 2 The 1983 Budget of the United States Government proposed that the Department of Education be replaced by the Foundation for Educational Assistance.
- 3 In 1977 the Energy Research & Development Administration became part of the Department of Energy.
- 4 In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.
- 5 As of 1985 the Office of Water Research & Technology has been combined with the Geological Survey.
- 6 The Agency for International Development transferred from the Department of State to the International Development Cooperative Agency on Oct. 1, 1979.
- 7 As of 1985 the National Archives & Records Administration is separate from the General Services Administration.

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.

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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

**Table C-95a. Federal obligations for R&D plant, by agency:
fiscal years 1987-97**

[Dollars in millions]

| Agency and subdivision | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | Preliminary | |
|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | | | | | | | | | | 1996 | 1997 |
| Total, all agencies | 1,846.0 | 2,057.1 | 2,165.1 | 2,271.7 | 2,852.8 | 2,984.6 | 3,100.7 | 2,171.2 | 2,256.9 | 1,970.8 | 2,084.9 |
| Departments: | | | | | | | | | | | |
| Dept of Agriculture, total | 111.8 | 135.2 | 89.2 | 102.2 | 144.6 | 164.7 | 142.4 | 125.7 | 143.4 | 149.5 | 125.3 |
| Agricultural Research Svc ¹ | 43.9 | 55.5 | 55.2 | 44.4 | 64.7 | 98.1 | 78.3 | 78.3 | 67.7 | 78.5 | 123.3 |
| Animal & Plant Health | | | | | | | | | | | |
| Inspection Service | .0 | .5 | .3 | 6.1 | .0 | .0 | .0 | .0 | .0 | 1.5 | .0 |
| Cooperative State Rsch, Ed, | | | | | | | | | | | |
| & Extension Service ² | 67.6 | 76.2 | 32.2 | 46.9 | 61.5 | 63.0 | 60.5 | 42.6 | 71.3 | 67.0 | .0 |
| Forest Service | .3 | 2.9 | 1.6 | 4.9 | 18.4 | 3.6 | 3.6 | 4.9 | 4.3 | 2.5 | 2.0 |
| Department of Commerce, total | 5.2 | 11.2 | 9.1 | 15.4 | 15.7 | 21.0 | 25.4 | 31.2 | 77.7 | 79.7 | 105.5 |
| National Institute of | | | | | | | | | | | |
| Standards & Technology | 2.0 | 10.7 | 8.6 | 8.8 | 8.5 | 11.2 | 12.6 | 30.9 | 77.2 | 79.4 | 105.2 |
| National Oceanic & | | | | | | | | | | | |
| Atmospheric Administration | 3.2 | .5 | .5 | 6.6 | 7.3 | 9.9 | 12.8 | .3 | .5 | .3 | .3 |
| Department of Defense, total | 477.2 | 435.8 | 499.3 | 487.3 | 425.7 | 396.5 | 371.5 | 221.5 | 65.2 | 84.5 | 40.0 |
| Department of the Army | 65.8 | 92.8 | 45.1 | 53.1 | 91.0 | 22.0 | 18.1 | 2.1 | 5.5 | 5.1 | 4.4 |
| Department of the Navy | 69.0 | 74.9 | 89.6 | 60.4 | 54.0 | 96.0 | 45.5 | 76.1 | 11.3 | 8.3 | 12.0 |
| Department of the Air Force | 270.3 | 143.7 | 250.2 | 322.2 | 152.3 | 179.7 | 231.6 | 99.3 | 37.8 | 27.3 | 20.0 |
| Defense Agencies | 72.1 | 124.4 | 114.4 | 51.6 | 128.4 | 98.8 | 76.3 | 44.0 | 10.7 | 43.8 | 3.7 |
| Department of Education | 21.0 | 5.2 | 1.9 | 8.9 | 4.2 | 2.4 | 2.2 | 1.8 | 1.8 | .0 | .0 |
| Department of Energy | 772.2 | 915.0 | 873.0 | 916.0 | 1,220.1 | 1,320.8 | 1,461.5 | 911.8 | 745.1 | 755.8 | 825.9 |
| Department of Health & Human | | | | | | | | | | | |
| Services, total | 36.7 | 19.5 | 78.6 | 107.8 | 86.3 | 96.7 | 149.3 | 120.2 | 255.7 | 303.8 | 429.4 |
| Alcohol, Drug Abuse, & Mental | | | | | | | | | | | |
| Health Administration ³ | .6 | .0 | .0 | .0 | .0 | NA | NA | NA | NA | NA | NA |
| Food & Drug Administration | .8 | .5 | 23.0 | 23.0 | 18.4 | 14.3 | 19.7 | 8.4 | 5.3 | 12.2 | 8.4 |
| Hlth Resources & Svcs Admin | .0 | .0 | .0 | .0 | .0 | .3 | 1.4 | 1.4 | 1.6 | 1.0 | 1.0 |
| National Insts of Health ³ | 35.3 | 19.0 | 55.6 | 84.8 | 67.8 | 82.1 | 128.2 | 110.5 | 248.8 | 290.7 | 420.0 |
| Social Security Admin ⁴ | .0 | .0 | .0 | .0 | - | .0 | .0 | .0 | .0 | NA | NA |
| Dept of the Interior, total | 11.8 | 9.4 | 10.8 | 14.0 | 22.2 | 18.4 | 23.1 | 9.0 | 6.7 | 2.4 | 7.2 |
| Bureau of Mines | .0 | .0 | 2.6 | 3.0 | 2.1 | .0 | .0 | .0 | .0 | NA | NA |
| Geological Survey ⁵ | .8 | .8 | 1.3 | 1.3 | 3.3 | 4.3 | 3.8 | 6.4 | 5.4 | 1.4 | 6.2 |
| Minerals Management Service | .0 | .0 | .0 | .2 | .3 | 1.0 | 1.1 | 1.2 | 1.0 | 1.0 | 1.0 |
| Nat'l Biological Svc ⁵ | NA | NA | NA | NA | NA | NA | NA | .0 | .3 | NA | NA |
| US Fish & Wildlife Svc ⁶ | 11.0 | 8.6 | 6.9 | 9.5 | 16.6 | 13.1 | 18.3 | .0 | .0 | .0 | .0 |
| Department of Justice, total | 11.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Federal Bureau of | | | | | | | | | | | |
| Investigation | 11.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |

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

**Table C-95a. Federal obligations for R&D plant, by agency:
fiscal years 1987-97**

[Dollars in millions]

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| Agency and subdivision | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | Preliminary | |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------|-------|
| | | | | | | | | | | 1996 | 1997 |
| Dept of Transportation, total | 11.2 | 13.9 | 15.5 | 21.8 | 18.4 | 25.3 | 32.3 | 40.9 | 28.8 | 29.1 | 22.5 |
| Coast Guard | .0 | .3 | .0 | .4 | .4 | .4 | .5 | .5 | .5 | .5 | .5 |
| Federal Aviation Admin | 10.4 | 13.2 | 15.5 | 21.4 | 16.3 | 24.0 | 22.4 | 33.0 | 21.7 | 20.6 | 17.2 |
| Federal Highway Admin | .3 | .0 | .0 | .0 | .0 | .8 | .9 | 6.3 | 3.0 | 3.8 | 1.3 |
| Federal Railroad Admin | .0 | .4 | .0 | .0 | 1.7 | .1 | 1.6 | 1.1 | 3.5 | 4.2 | 3.4 |
| Federal Transit Admin ⁷ | .0 | .0 | .0 | .0 | .0 | .0 | 7.0 | .0 | .0 | .0 | .0 |
| National Highway Traffic Safety Administration | .5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Dept of the Treasury, total | .1 | .1 | .1 | .1 | .1 | .1 | .2 | .2 | .2 | .2 | .2 |
| United States Customs Svc | .1 | .1 | .1 | .1 | .1 | .1 | .1 | .1 | .1 | .1 | .1 |
| US Secret Service ⁸ | - | - | - | - | - | - | - | - | - | - | - |
| Department of Veterans Affairs | 5.9 | 19.5 | 11.0 | 3.3 | 3.4 | 5.7 | 3.4 | 11.7 | 7.2 | 3.6 | 4.3 |
| Other agencies: | | | | | | | | | | | |
| Environmental Protection Agcy | .0 | .0 | .0 | .0 | .0 | .0 | 2.5 | 4.8 | 4.8 | 4.8 | 4.8 |
| General Services Admin | .0 | .0 | .0 | 18.8 | 22.6 | 6.5 | 1.0 | .3 | .1 | .2 | .0 |
| International Development Cooperation Agcy, total | 6.8 | 6.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Agcy for Internat'l Dvlpmt ⁹ | 6.8 | 6.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| National Aeronautics & Space Administration | 309.4 | 428.2 | 519.5 | 527.0 | 723.6 | 817.8 | 749.4 | 515.3 | 624.8 | 332.5 | 314.8 |
| National Science Foundation | 61.3 | 56.9 | 53.6 | 39.3 | 159.6 | 101.6 | 130.4 | 171.9 | 289.6 | 218.7 | 200.3 |
| Smithsonian Institution | 2.9 | .7 | 3.4 | 4.8 | 1.5 | 3.8 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Tennessee Valley Authority | .3 | .4 | .2 | 4.9 | 4.8 | 3.2 | 1.0 | .0 | 1.0 | 1.0 | .0 |
| United States Arms Control & Disarmament Agency ¹⁰ | 1.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |

- 1 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 2 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.
- 3 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.
- 4 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.
- 5 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.
- 6 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.
- 7 The name of this agency changed from the Urban Mass Transit Administration to the Federal Transit Administration on Dec. 18, 1991.
- 8 The United States Secret Service was formerly listed as the Office of Protective Research.
- 9 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.
- 10 Fiscal year 1994 figures for the United States Arms Control & Disarmament Agency are estimates based on the agency's Vol. 43 submission.

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.

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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

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**Table C-96. Federal obligations for research, by selected agency:
fiscal years 1976-86**

[Dollars in millions]

| Selected agency | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
|---|---------|---------|---------|----------|----------|----------|----------|----------|----------|----------|----------|
| Total, all agencies | 7,619.3 | 8,514.1 | 9,606.8 | 10,535.0 | 11,597.4 | 12,212.8 | 13,022.2 | 14,253.5 | 14,978.8 | 16,133.4 | 16,502.2 |
| Departments: | | | | | | | | | | | |
| Dept of Agriculture, total | 442.2 | 524.0 | 594.5 | 631.9 | 657.4 | 741.0 | 766.5 | 817.6 | 834.9 | 910.9 | 896.4 |
| Agricultural Cooperative Svc | NA | NA | NA | NA | 1.6 | 1.7 | 1.7 | 2.1 | 2.2 | 2.9 | 2.6 |
| Agricultural Marketing Svc ¹ | .0 | .0 | .0 | .4 | 1.0 | .9 | 1.0 | 1.1 | 1.2 | 1.3 | 1.3 |
| Agricultural Research Svc | NA | NA | NA | NA | NA | 367.9 | 379.1 | 417.9 | 424.3 | 442.0 | 436.0 |
| Animal & Plant Health Inspection Service | NA | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 4.2 |
| Cooperative State Rsch, Ed, & Extension Service | NA | NA | NA | NA | NA | 199.4 | 219.0 | 232.3 | 235.7 | 284.3 | 269.0 |
| Economic Research Service | NA | NA | NA | NA | NA | 39.3 | 39.3 | 38.8 | 43.7 | 46.4 | 44.6 |
| Economics, Statistics, & Cooperative Svc, total ² | 26.7 | 29.7 | 32.7 | 35.5 | NA | NA | NA | NA | NA | NA | NA |
| Economic Research Service | 24.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Farmer Cooperative Service | 1.2 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Statistical Reporting Svc | 1.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Economics & Statistics Svc ³ | NA | NA | NA | NA | 31.1 | NA | NA | NA | NA | NA | NA |
| Forest Service | 74.5 | 86.1 | 100.7 | 102.5 | 106.1 | 119.9 | 107.7 | 103.9 | 105.1 | 109.8 | 109.7 |
| Grain Inspection Packers & Stockyards Administration | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .8 | .6 |
| Human Nutrition Information Service | NA | NA | NA | NA | NA | .0 | 8.5 | 8.2 | 6.0 | 6.7 | 12.8 |
| National Agricultural Statistics Service | .0 | NA | NA | NA | NA | 7.5 | 7.0 | 7.6 | 8.2 | 8.4 | 8.0 |
| Office of International Cooperation & Development | NA | NA | NA | .0 | 4.9 | 3.6 | 2.4 | 4.8 | 7.5 | 7.3 | 6.6 |
| Office of Transportation | NA | NA | NA | .0 | .0 | .8 | .8 | .8 | .9 | 1.1 | .9 |
| Science & Ed Admin, total | 341.0 | 408.2 | 461.1 | 493.5 | 512.8 | NA | NA | NA | NA | NA | NA |
| Agricultural Research Svc | 227.6 | 281.0 | 303.7 | 320.9 | 328.6 | NA | NA | NA | NA | NA | NA |
| Cooperative State Rsch Svc | 113.4 | 127.3 | 157.4 | 172.6 | 184.2 | NA | NA | NA | NA | NA | NA |
| Nat'l Agricultural Library | - | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Department of Commerce, total | 155.7 | 176.1 | 192.8 | 219.5 | 254.4 | 249.4 | 276.1 | 284.8 | 296.7 | 324.2 | 339.5 |
| Bureau of the Census | 2.1 | 2.0 | 2.3 | 1.8 | 1.9 | 3.0 | 1.9 | 2.2 | 2.4 | 2.5 | 2.6 |
| Economic Development Admin | 2.1 | 2.5 | 5.9 | 8.5 | 2.5 | 1.8 | 1.6 | 5.3 | 5.1 | 2.0 | 2.3 |
| Maritime Administration ⁴ | 5.0 | 3.7 | 7.0 | 12.2 | 12.1 | NA | NA | NA | NA | NA | NA |
| Minority Business Dvlpmt Agcy | .4 | .7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| National Fire Prevention & Control Administration ⁵ | 3.2 | 4.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| National Institute of Standards & Technology | 37.5 | 45.0 | 48.5 | 51.8 | 58.9 | 66.2 | 73.9 | 81.5 | 83.7 | 86.5 | 89.1 |
| National Oceanic & Atmospheric Administration | 104.9 | 115.8 | 127.9 | 142.7 | 168.8 | 168.5 | 188.5 | 188.9 | 197.7 | 224.4 | 237.5 |
| National Telecommunications & Information Administration | NA | 2.0 | 1.1 | 2.4 | 9.6 | 9.9 | 10.1 | 6.9 | 7.7 | 7.9 | 7.6 |
| Office of the Secretary | .0 | .0 | .0 | .1 | .5 | .0 | - | - | - | .9 | .3 |
| Office of Telecommunications | .4 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Patent & Trademark Office | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Department of Defense, total | 1,527.5 | 1,715.8 | 1,824.1 | 2,014.1 | 2,261.8 | 2,600.9 | 2,952.8 | 3,222.6 | 3,048.5 | 3,168.3 | 3,227.3 |
| Department of the Army | 362.4 | 398.0 | 409.8 | 448.6 | 479.3 | 536.5 | 639.2 | 693.6 | 708.8 | 823.4 | 827.3 |
| Department of the Navy | 438.0 | 497.4 | 526.3 | 567.3 | 611.1 | 698.0 | 778.7 | 827.0 | 765.4 | 791.3 | 784.3 |
| Department of the Air Force | 382.3 | 425.8 | 448.7 | 492.3 | 537.3 | 617.3 | 633.9 | 688.4 | 740.1 | 736.7 | 759.0 |
| Defense Agencies | 344.1 | 393.4 | 431.7 | 505.9 | 634.1 | 749.1 | 901.0 | 1,013.6 | 834.3 | 816.9 | 856.7 |
| Defense Civil Preparedness Agency ⁶ | .7 | 1.3 | 7.5 | NA | NA | NA | NA | NA | NA | NA | NA |

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

**Table C-96. Federal obligations for research, by selected agency:
fiscal years 1976-86**

[Dollars in millions]

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| Selected agency | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Department of Education ⁷ | NA | NA | NA | 93.4 | 87.6 | .0 | 70.5 | 76.1 | 80.9 | 91.9 | 95.8 |
| Department of Energy ^{8 9} | NA | 891.3 | 1,102.2 | 1,131.8 | 1,277.3 | 1,413.6 | 1,696.1 | 1,961.1 | 2,024.9 | 2,141.0 | 2,040.3 |
| Department of Health, Education, & Welfare, total | 2,150.7 | 2,414.3 | 2,740.7 | NA | NA | NA | NA | NA | NA | NA | NA |
| Alcohol, Drug Abuse, & Mental Health Administration | 136.6 | 152.0 | 178.8 | NA | NA | NA | NA | NA | NA | NA | NA |
| Center for Disease Control | 49.6 | 55.3 | 60.1 | NA | NA | NA | NA | NA | NA | NA | NA |
| Food & Drug Administration | 37.1 | 42.9 | 64.1 | NA | NA | NA | NA | NA | NA | NA | NA |
| Health Care Financing Admin | NA | 30.0 | 19.4 | NA | NA | NA | NA | NA | NA | NA | NA |
| Health Resources Admin | 31.0 | 7.4 | 5.0 | NA | NA | NA | NA | NA | NA | NA | NA |
| Health Services Admin | 9.5 | 9.5 | 10.6 | NA | NA | NA | NA | NA | NA | NA | NA |
| National Inst of Education | 10.8 | 27.1 | 34.6 | NA | NA | NA | NA | NA | NA | NA | NA |
| National Insts of Health | 1,767.7 | 1,968.7 | 2,232.6 | NA | NA | NA | NA | NA | NA | NA | NA |
| Office of Assistant Secretary for Education | 1.0 | 1.0 | 1.3 | NA | NA | NA | NA | NA | NA | NA | NA |
| Office of Assistant Secretary for Health | .0 | 28.6 | 32.6 | NA | NA | NA | NA | NA | NA | NA | NA |
| Office of Education | 21.4 | 11.9 | 13.3 | NA | NA | NA | NA | NA | NA | NA | NA |
| Office of Human Dvlpmnt Svcs | 34.6 | 48.7 | 45.2 | NA | NA | NA | NA | NA | NA | NA | NA |
| Office of the Secretary | 23.7 | 20.0 | 30.2 | NA | NA | NA | NA | NA | NA | NA | NA |
| Social & Rehabilitation Svc | 18.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Social Security Admin | 9.1 | 11.2 | 12.9 | NA | NA | NA | NA | NA | NA | NA | NA |
| Department of Health & Human Services, total | NA | NA | NA | 3,015.7 | 3,332.8 | 3,492.2 | 3,605.6 | 4,020.8 | 4,466.0 | 5,028.3 | 5,189.6 |
| Alcohol, Drug Abuse, & Mental Health Administration | NA | NA | NA | 213.5 | 233.5 | 237.7 | 246.1 | 300.4 | 336.0 | 376.4 | 394.9 |
| Centers for Disease Control & Prevention | NA | NA | NA | 76.3 | 87.3 | 74.8 | 75.0 | 78.2 | 46.3 | 47.6 | 52.2 |
| Food & Drug Administration | NA | NA | NA | 61.0 | 75.4 | 71.4 | 73.0 | 74.2 | 77.8 | 82.1 | 79.4 |
| Health Care Financing Admin | NA | NA | NA | 31.8 | 45.7 | 38.6 | 29.1 | 30.2 | 33.1 | 33.5 | 29.0 |
| Health Resources Admin | NA | NA | NA | 4.9 | 5.1 | 5.0 | NA | NA | NA | NA | NA |
| Hlth Resources & Svcs Admin | NA | NA | NA | NA | NA | NA | 6.7 | 11.0 | 16.2 | 18.2 | 12.3 |
| Health Services Admin | NA | NA | NA | 10.2 | 8.0 | 10.2 | NA | NA | NA | NA | NA |
| Human Development Services | NA | NA | NA | 14.9 | 19.1 | 39.9 | 8.7 | 6.9 | 4.5 | 5.8 | 6.8 |
| National Insts of Health | NA | NA | NA | 2,530.1 | 2,787.5 | 2,948.3 | 3,124.5 | 3,478.2 | 3,910.4 | 4,428.1 | 4,587.6 |
| Office of the Assistant Secretary for Health | NA | NA | NA | 29.9 | 25.7 | 28.8 | 13.9 | 16.6 | 18.1 | 16.9 | 15.8 |
| Office of the Secretary | NA | NA | NA | 24.7 | 24.0 | 19.5 | 13.1 | 14.4 | 10.0 | 9.4 | 6.1 |
| Social Security Admin | NA | NA | NA | 18.3 | 21.4 | 18.0 | 15.5 | 10.8 | 13.5 | 10.4 | 5.6 |
| Dept of Housing & Urban Dvlpmnt ... | 36.9 | 32.7 | 30.5 | 23.8 | 19.6 | 16.7 | 10.3 | 11.3 | 6.3 | 6.5 | 5.3 |
| Dept of the Interior, total | 259.5 | 255.9 | 283.5 | 339.5 | 354.4 | 369.8 | 351.5 | 357.7 | 380.2 | 369.3 | 367.9 |
| Bonneville Power Admin ⁹ | .5 | .0 | .0 | .0 | .0 | 6.5 | NA | NA | NA | NA | NA |
| Bureau of Land Management | .7 | .8 | 1.0 | 1.1 | 1.3 | 1.5 | 2.4 | 2.0 | 1.8 | 2.8 | 2.1 |
| Bureau of Mines | 73.3 | 52.3 | 57.0 | 79.1 | 82.8 | 68.0 | 81.1 | 79.4 | 97.2 | 86.5 | 81.6 |
| Bureau of Reclamation | 7.9 | 9.3 | 10.6 | 11.4 | 12.9 | 13.4 | 9.0 | 8.8 | 9.0 | 11.2 | 9.7 |
| Geological Survey ¹⁰ | 110.3 | 117.5 | 133.7 | 145.1 | 145.8 | 169.3 | 152.1 | 154.7 | 204.0 | 210.5 | 211.2 |
| Heritage Conservation & Recreation Service | - | - | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Minerals Management Service | NA | NA | NA | NA | NA | NA | .0 | 1.5 | 1.5 | 1.4 | 1.1 |
| National Park Service | 9.3 | 7.5 | 7.7 | 8.9 | 8.2 | 10.4 | 11.2 | 13.7 | 14.0 | 15.0 | 17.3 |
| Office of the Secretary | 1.0 | 4.5 | 1.7 | 1.4 | 2.2 | 1.5 | .5 | 7.4 | .1 | 1.9 | 1.0 |
| Office of Surface Mining Reclamation & Enforcement ... | NA | .0 | 2.2 | 5.0 | 7.5 | 5.8 | 1.5 | 1.5 | .8 | 2.0 | 2.3 |
| Office of Water Rsch & Tech ¹⁰ | 14.0 | 12.3 | 15.4 | 17.8 | 18.4 | 15.8 | 10.1 | 1.2 | 3.6 | NA | NA |
| US Fish & Wildlife Svc | 42.5 | 51.7 | 54.2 | 69.6 | 75.2 | 77.8 | 83.6 | 87.5 | 48.3 | 37.9 | 41.7 |
| Department of Justice, total | 18.3 | 17.6 | 45.7 | 28.8 | 28.8 | 19.5 | 16.3 | 20.7 | 17.9 | 19.3 | 22.3 |
| Bureau of Prisons | .0 | .1 | .7 | .5 | .9 | 1.7 | .9 | 1.3 | 1.2 | 1.1 | 2.7 |
| Drug Enforcement Admin | .5 | .9 | .5 | .7 | .8 | .4 | 1.3 | .9 | .7 | .5 | .8 |
| Immigration & Naturalization Service | .1 | .1 | .2 | .1 | .2 | .1 | .3 | .3 | .3 | .2 | .2 |
| Office of Justice Programs | 17.7 | 16.4 | 43.3 | 25.9 | 25.6 | 16.7 | 13.4 | 18.0 | 15.7 | 17.2 | 18.5 |
| Office of Legal Policy | .0 | .0 | 1.1 | 1.6 | 1.3 | .7 | .4 | .2 | .0 | .3 | .2 |

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

**Table C-96. Federal obligations for research, by selected agency:
fiscal years 1976-86**

[Dollars in millions]

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| Selected agency | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Department of Labor, total | 18.0 | 18.7 | 25.7 | 42.1 | 36.4 | 58.2 | 17.2 | 17.9 | 16.3 | 12.4 | 9.5 |
| Bureau of Labor Statistics | .8 | .9 | .8 | .9 | .9 | .3 | .3 | .7 | .5 | .6 | .6 |
| Employment Standards Admin | 4.3 | 4.4 | 3.7 | 5.3 | 4.9 | 3.2 | 1.4 | 1.4 | .9 | - | .0 |
| Employment & Training Admin | 7.5 | 6.4 | 14.9 | 25.9 | 20.1 | 48.8 | 8.7 | 7.9 | 6.1 | 3.5 | 3.5 |
| Labor-Management Relations & Cooperative Programs ¹¹ | NA | NA | NA | NA | NA | NA | NA | NA | .3 | .3 | .2 |
| Labor-Management Services Administration ¹¹ | .7 | 3.3 | 2.8 | 3.2 | 2.8 | 1.8 | .7 | .9 | NA | NA | NA |
| Occupational Safety & Health Administration | 2.9 | 3.4 | 1.3 | 5.1 | 6.3 | 3.0 | 4.9 | 5.3 | 5.1 | 4.5 | 3.6 |
| Office of the Secretary | 1.8 | .2 | 2.2 | 1.6 | 1.4 | 1.1 | .9 | 1.5 | 1.9 | 1.7 | 1.3 |
| Pension Benefit Guaranty Corp .. | NA | NA | NA | NA | NA | .1 | .3 | .3 | .3 | .2 | .1 |
| Pension & Welfare Benefits Administration | NA | NA | NA | NA | NA | NA | NA | NA | 1.2 | 1.6 | .3 |
| Department of State, total ¹² | 25.1 | 38.3 | 49.1 | 2.7 | 2.0 | 1.6 | 1.5 | 1.5 | 1.6 | 1.5 | 1.5 |
| Agcy for Internat'l Dvlpmt ¹² | 24.0 | 36.2 | 46.6 | NA | NA | NA | NA | NA | NA | NA | NA |
| Departmental Funds | 1.1 | 2.1 | 2.5 | 2.7 | 2.0 | 1.6 | .0 | .0 | .0 | .0 | .0 |
| Dept of Transportation, total | 31.1 | 51.8 | 66.5 | 67.0 | 82.4 | 88.6 | 66.7 | 72.6 | 77.7 | 71.2 | 68.2 |
| Coast Guard | 2.6 | 2.5 | 2.3 | 10.9 | 8.1 | 15.0 | 1.7 | 1.2 | 7.2 | 5.4 | 3.5 |
| Federal Aviation Admin | 3.6 | 4.7 | 6.8 | 7.5 | 8.2 | 8.2 | 7.0 | 12.5 | 15.0 | 17.3 | 14.0 |
| Federal Highway Admin | 1.9 | 5.3 | 4.9 | 4.4 | 4.6 | 5.1 | 5.3 | 7.3 | 6.1 | 6.3 | 14.7 |
| Federal Railroad Admin | 8.6 | 6.6 | 9.2 | 7.5 | 7.9 | 6.2 | 3.1 | 2.8 | 12.3 | 11.4 | 12.5 |
| Federal Transit Admin | .6 | 1.0 | 1.1 | 1.1 | 8.9 | 9.3 | 19.4 | 18.3 | 1.0 | .5 | .0 |
| Maritime Administration ⁴ | NA | NA | NA | NA | NA | 9.5 | 6.6 | 6.2 | 8.6 | 8.0 | 6.8 |
| National Highway Traffic Safety Administration | 9.9 | 27.5 | 38.0 | 30.0 | 38.6 | 29.4 | 21.3 | 21.4 | 24.7 | 20.9 | 16.1 |
| Office of the Secretary | 3.9 | 4.2 | 4.1 | .6 | .6 | .7 | .3 | .3 | .9 | .9 | .4 |
| Rsch & Special Programs Administration | NA | .0 | .1 | 5.0 | 5.5 | 5.2 | 2.1 | 2.6 | 1.8 | .5 | .3 |
| Dept of the Treasury, total | 1.5 | 2.1 | 4.1 | 4.7 | 5.7 | 5.2 | 8.1 | 10.2 | 10.6 | 18.3 | 17.7 |
| Bureau of Alcohol, Tobacco, & Firearms | .0 | .4 | .4 | .7 | .3 | .1 | NA | NA | NA | NA | NA |
| Bureau of Engraving & Printing | 1.5 | 1.7 | 1.9 | .6 | 1.3 | .9 | 2.8 | 2.0 | 2.2 | 3.4 | 3.1 |
| Internal Revenue Service | .0 | .0 | 1.8 | 3.5 | 3.9 | 4.2 | 5.3 | 7.9 | 8.1 | 14.7 | 14.0 |
| United States Customs Svc | .0 | .0 | .0 | .0 | .1 | .1 | - | .0 | .1 | .1 | .2 |
| United States Secret Service | NA | NA | NA | NA | .0 | .0 | .0 | .3 | .1 | .2 | .4 |
| Department of Veterans Affairs | 85.1 | 92.3 | 99.4 | 111.4 | 117.9 | 127.7 | 123.0 | 146.1 | 171.9 | 209.1 | 169.9 |
| Other agencies: | | | | | | | | | | | |
| ACTION | .1 | .1 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Advisory Commission on Intergovernmental Relations | 1.0 | 1.5 | 1.7 | 1.7 | 2.2 | 2.2 | 2.0 | 2.1 | 2.1 | 2.4 | 2.1 |
| Appalachian Regional Comm | .7 | .6 | .3 | .7 | .6 | .3 | .3 | .2 | .4 | .2 | .2 |
| Civil Service Commission | 1.1 | 1.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Community Services Admin | .0 | 1.0 | 2.0 | 1.8 | 1.3 | 1.9 | NA | NA | NA | NA | NA |
| Consumer Product Safety Comm .. | 3.5 | 3.7 | .9 | 1.8 | 1.6 | .2 | .1 | .3 | 1.1 | 1.4 | 1.1 |
| Energy Rsch & Dvlpmt Admin ⁸ | 746.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Environmental Protection Agcy | 155.4 | 205.3 | 252.7 | 259.0 | 245.1 | 218.3 | 243.4 | 174.6 | 172.0 | 214.6 | 217.8 |
| Federal Communications Comm | 1.5 | 2.0 | 2.4 | 2.9 | 3.4 | 1.8 | 1.2 | 1.3 | .9 | 1.2 | .9 |
| Federal Emergency Management Agency, total ^{6 5} | NA | NA | 4.8 | 9.7 | 9.3 | 9.1 | 9.2 | 3.3 | 6.1 | 2.9 | .0 |
| National Fire Prevention & Control Administration ⁵ | NA | NA | 4.8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Federal Energy Administration | 1.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Federal Trade Commission | .9 | 1.1 | 1.4 | 1.5 | 3.0 | 1.1 | 1.2 | 1.4 | 1.6 | 1.7 | 1.8 |
| Foundation for Educational Assistance ⁷ | NA | NA | NA | NA | NA | 53.8 | NA | NA | NA | NA | NA |
| General Services Admin ¹³ | .4 | .4 | 2.2 | .2 | .1 | .4 | .5 | .2 | .4 | .4 | .9 |

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

**Table C-96. Federal obligations for research, by selected agency:
fiscal years 1976-86**

[Dollars in millions]

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| Selected agency | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| International Development Cooperation Agcy, total ¹² | NA | NA | NA | 66.9 | 79.7 | 86.4 | 127.9 | 156.7 | 167.0 | 159.8 | 184.9 |
| Agcy for Internat'l Dvlpmt ¹² | NA | NA | NA | 66.9 | 79.7 | 86.4 | 127.9 | 156.7 | 167.0 | 159.8 | 184.9 |
| Interstate Commerce Comm | 0.1 | 0.1 | 0.3 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | .0 |
| Library of Congress | .4 | .4 | .5 | .6 | .6 | .9 | .9 | 1.3 | 2.1 | 2.1 | 1.6 |
| National Aeronautics & Space Administration | 1,222.8 | 1,206.1 | 1,345.2 | 1,451.2 | 1,609.6 | 1,407.2 | 1,407.1 | 1,544.8 | 1,709.2 | 1,783.6 | 2,069.0 |
| National Archives & Records Administration ¹³ | NA | NA | NA | NA | NA | NA | NA | NA | NA | .2 | .0 |
| National Science Foundation | 595.8 | 688.3 | 743.5 | 800.0 | 873.7 | 955.5 | 973.2 | 1,062.0 | 1,202.8 | 1,345.6 | 1,353.3 |
| Nuclear Regulatory Commission | 88.4 | 112.3 | 133.9 | 148.8 | 182.7 | 219.7 | 220.3 | 207.3 | 190.7 | 150.0 | 123.8 |
| Office of Personnel Management | NA | NA | 1.0 | 1.4 | 2.6 | 3.4 | .0 | .0 | .0 | .0 | .0 |
| Office of Telecommunications Policy | 1.9 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Office of Thrift Supervision | .8 | 1.7 | 1.0 | .9 | 1.2 | 1.0 | 2.7 | 3.0 | 2.6 | 2.8 | 3.3 |
| Small Business Administration | .1 | .5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Smithsonian Institution | 25.7 | 29.7 | 34.9 | 36.9 | 41.0 | 44.9 | 52.4 | 56.0 | 63.6 | 71.1 | 63.3 |
| Tennessee Valley Authority | 16.5 | 22.9 | 13.5 | 16.5 | 15.8 | 14.2 | 12.7 | 12.3 | 14.3 | 14.4 | 17.8 |
| United States Arms Control & Disarmament Agency | 1.4 | 1.8 | 2.5 | 2.7 | 3.0 | 1.6 | 1.3 | .8 | 1.2 | 1.1 | .9 |
| US Information Agency ¹⁴ | .1 | .1 | .1 | .1 | .1 | 1.1 | .0 | - | 1.4 | .1 | 1.6 |
| US Internat'l Trade Comm | 1.5 | 2.6 | 3.1 | 3.4 | 2.1 | 3.4 | 3.8 | 4.7 | 5.0 | 5.8 | 6.9 |

¹ 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.

² 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 1977-79.

³ Data reported for the Economics & Statistics Service include programs of the Economic Research Service and the Statistical Reporting Service for fiscal year 1980.

⁴ In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.

⁵ 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.

⁶ Functions for the Defense Civil Preparedness Agency transferred from the Department of Defense to the Federal Emergency Management Agency on July 20, 1979.

⁷ The 1983 Budget of the United States Government proposed that the Department of Education be replaced by the Foundation for Educational Assistance.

⁸ In 1977 the Energy Research & Development Administration became part of the Department of Energy.

⁹ In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.

¹⁰ As of 1985 the Office of Water Research & Technology has been combined with the Geological Survey.

¹¹ In 1984 the Labor-Management Services Administration was replaced by Labor-Management Relations & Cooperative Programs.

¹² The Agency for International Development transferred from the Department of State to the International Development Cooperative Agency on Oct. 1, 1979.

¹³ As of 1985 the National Archives & Records Administration is separate from the General Services Administration.

¹⁴ Data reported for the United States Information Agency include funds for the former International Communication Agency for fiscal years 1977-81.

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.

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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

**Table C-96a. Federal obligations for research, by selected agency:
fiscal years 1987-97**

[Dollars in millions]

| Selected agency | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | Preliminary | |
|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|-------------|----------|
| | | | | | | | | | | 1996 | 1997 |
| Total, all agencies | 17,940.5 | 18,650.1 | 20,765.5 | 21,622.4 | 23,968.4 | 24,490.6 | 26,890.5 | 27,440.4 | 28,573.4 | 28,577.8 | 29,173.5 |
| Departments: | | | | | | | | | | | |
| Dept of Agriculture, total | 918.9 | 985.2 | 1,002.2 | 1,061.3 | 1,175.5 | 1,261.0 | 1,251.7 | 1,322.2 | 1,299.6 | 1,272.1 | 1,286.3 |
| Agricultural Cooperative Svc | 2.7 | 2.7 | 2.8 | 2.7 | 2.8 | 3.4 | 2.9 | 3.7 | NA | NA | NA |
| Agricultural Marketing Svc ¹ | 1.2 | 1.3 | 1.3 | 2.2 | 3.7 | 4.1 | 4.1 | 4.2 | 4.2 | 4.2 | 4.3 |
| Agricultural Research Svc ² | 454.6 | 479.4 | 492.1 | 512.3 | 550.8 | 583.2 | 574.3 | 624.4 | 628.6 | 626.4 | 640.9 |
| Animal & Plant Health Inspection Service | 4.9 | 5.6 | 7.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Cooperative State Rsch, Ed, & Extension Service ³ | 270.7 | 298.4 | 307.3 | 324.2 | 376.8 | 418.2 | 418.6 | 429.0 | 417.7 | 406.2 | 402.2 |
| Economic Research Service | 44.8 | 48.1 | 49.5 | 50.5 | 54.4 | 58.9 | 58.9 | 55.2 | 53.8 | 53.1 | 54.9 |
| Foreign Agricultural Svc ⁴ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .8 | .5 | 1.4 | 1.4 |
| Forest Service | 122.9 | 131.5 | 127.5 | 153.8 | 170.2 | 175.8 | 177.2 | 189.8 | 187.7 | 172.7 | 174.4 |
| Grain Inspection Packers & Stockyards Administration ⁵ | .7 | .6 | .8 | .2 | .7 | 1.5 | 1.8 | 1.8 | 1.5 | 2.8 | 2.8 |
| Human Nutrition Information Service ² | 6.8 | 8.2 | 8.4 | 9.0 | 9.9 | 10.7 | 8.4 | 7.0 | NA | NA | NA |
| National Agricultural Statistics Service | 3.4 | 3.6 | 2.9 | 2.8 | 3.2 | 3.6 | 3.9 | 3.9 | 4.0 | 3.9 | 3.9 |
| Office of International Cooperation & Dvlpm ⁴ | 5.3 | 4.8 | 2.3 | 3.4 | 3.0 | 1.5 | 1.5 | .0 | NA | NA | NA |
| Office of Transportation | .9 | .9 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Rural Business-Cooperative Service ⁶ | NA | NA | NA | NA | NA | NA | NA | 2.4 | 1.6 | 1.4 | 1.4 |
| Department of Commerce, total | 338.6 | 342.3 | 351.0 | 377.0 | 449.7 | 595.9 | 582.1 | 718.3 | 892.3 | 898.0 | 868.6 |
| Bureau of the Census | 2.8 | 3.8 | 3.0 | 4.9 | 4.8 | 3.4 | 3.3 | 2.8 | 2.9 | 2.9 | 2.9 |
| Economic Development Admin | 5.0 | 4.2 | 1.0 | 1.2 | 1.4 | .5 | .0 | .6 | .5 | .5 | 1.5 |
| National Institute of Standards & Technology | 89.4 | 98.9 | 105.6 | 111.8 | 124.3 | 149.4 | 172.9 | 207.3 | 372.1 | 409.0 | 366.3 |
| National Oceanic & Atmospheric Administration | 234.4 | 228.2 | 234.6 | 252.4 | 315.6 | 438.7 | 401.7 | 502.7 | 510.4 | 481.2 | 493.1 |
| National Telecommunications & Information Administration | 7.0 | 7.3 | 6.9 | 6.8 | 3.6 | 4.0 | 4.2 | 4.8 | 6.4 | 4.5 | 4.7 |
| Office of the Secretary | - | .0 | .0 | .0 | .0 | .0 | .0 | .0 | - | - | .0 |
| Department of Defense, total | 3,347.6 | 3,239.1 | 3,656.1 | 3,529.2 | 3,717.9 | 4,073.4 | 4,783.5 | 4,262.2 | 4,333.9 | 3,948.4 | 3,861.5 |
| Department of the Army | 909.9 | 753.7 | 823.4 | 780.2 | 860.5 | 932.7 | 1,018.6 | 852.6 | 852.1 | 649.1 | 672.1 |
| Department of the Navy | 786.7 | 747.8 | 783.2 | 807.6 | 874.0 | 892.8 | 996.1 | 847.1 | 880.0 | 941.5 | 853.7 |
| Department of the Air Force | 784.8 | 773.1 | 807.4 | 776.3 | 830.4 | 790.5 | 887.8 | 814.3 | 834.5 | 881.9 | 872.6 |
| Defense Agencies | 866.1 | 964.5 | 1,242.1 | 1,165.1 | 1,153.0 | 1,457.3 | 1,881.0 | 1,748.2 | 1,767.5 | 1,475.9 | 1,463.2 |
| Department of Education | 106.9 | 111.0 | 122.0 | 130.3 | 131.7 | 127.0 | 133.6 | 136.8 | 138.4 | 141.6 | 142.7 |
| Department of Energy | 2,097.9 | 2,235.4 | 2,431.7 | 2,570.5 | 3,273.6 | 3,412.5 | 3,440.2 | 3,282.5 | 3,459.9 | 3,299.4 | 3,575.1 |

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

**Table C-96a. Federal obligations for research, by selected agency:
fiscal years 1987-97**

[Dollars in millions]

Page 2 of 4

| Selected agency | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | Preliminary | |
|---|---------|---------|---------|---------|---------|---------|---------|---------|----------|-------------|----------|
| | | | | | | | | | | 1996 | 1997 |
| Department of Health & Human Services, total | 6,021.9 | 6,497.0 | 7,088.4 | 7,467.1 | 8,162.5 | 7,945.5 | 9,192.6 | 9,736.4 | 10,076.0 | 10,524.6 | 10,768.1 |
| Administration on Aging ⁷ | NA | NA | NA | NA | 2.9 | 2.5 | 2.7 | 3.5 | 3.0 | .2 | .0 |
| Administration for Children & Families ⁸ | NA | NA | NA | NA | 13.5 | 34.3 | 18.5 | 10.4 | 11.2 | 8.3 | 17.5 |
| Agency for Health Care Policy & Research ⁹ | NA | NA | NA | 44.2 | 93.0 | 97.8 | 105.6 | 142.0 | 124.0 | 59.0 | 77.0 |
| Alcohol, Drug Abuse, & Mental Health Administration ¹⁰ | 473.3 | 552.4 | 692.6 | 801.2 | 923.0 | NA | NA | NA | NA | NA | NA |
| Centers for Disease Control & Prevention | 66.2 | 88.7 | 117.8 | 95.6 | 113.4 | 146.9 | 162.5 | 206.8 | 317.4 | 323.2 | 361.2 |
| Food & Drug Administration | 85.0 | 91.0 | 99.0 | 99.0 | 125.0 | 135.7 | 154.5 | 169.4 | 170.5 | 170.5 | 170.5 |
| Health Care Financing Admin | 27.3 | 28.2 | 49.1 | 49.1 | 69.1 | 75.5 | 68.2 | 80.0 | 74.5 | 54.5 | 55.3 |
| Hlth Resources & Svcs Admin | 9.3 | 10.0 | 10.5 | 11.9 | 11.0 | 10.1 | 9.6 | 10.6 | 12.2 | 11.8 | 11.7 |
| Human Development Svcs ⁷ | 9.4 | 7.1 | 8.5 | 7.7 | NA | NA | NA | NA | NA | NA | NA |
| National Insts of Health ¹⁰ | 5,314.7 | 5,680.7 | 6,061.8 | 6,335.8 | 6,783.0 | 7,398.7 | 8,638.5 | 9,079.7 | 9,333.6 | 9,888.2 | 10,066.0 |
| Office of the Assistant Secretary for Health ⁹ | 18.9 | 19.4 | 25.6 | 5.8 | 9.6 | 6.0 | .0 | .0 | .0 | .0 | .0 |
| Office of the Secretary | 8.2 | 4.7 | 7.8 | 5.0 | 8.8 | 5.0 | 8.0 | 11.7 | 9.1 | 9.0 | 9.0 |
| Social Security Admin ¹¹ | 9.8 | 14.7 | 15.8 | 11.8 | 10.2 | 33.0 | 24.5 | 22.2 | 20.4 | NA | NA |
| Dept of Housing & Urban Dvlpmt | 5.5 | 6.3 | 6.1 | 6.6 | 9.4 | 8.8 | 8.1 | 13.7 | 14.2 | 12.2 | 16.7 |
| Dept of the Interior, total | 382.1 | 392.5 | 441.9 | 475.2 | 553.4 | 570.6 | 580.1 | 650.2 | 532.4 | 539.6 | 546.1 |
| Bureau of Land Management | 2.1 | 2.2 | 2.0 | 2.1 | 5.9 | 5.9 | 8.0 | .0 | .0 | .0 | .0 |
| Bureau of Mines | 85.2 | 86.2 | 93.2 | 89.9 | 99.0 | 102.9 | 105.0 | 95.4 | .0 | NA | NA |
| Bureau of Reclamation | 10.2 | 3.7 | 3.5 | 5.3 | 7.8 | 10.7 | 7.4 | 5.5 | 6.0 | 4.5 | 5.7 |
| Geological Survey ¹² | 216.5 | 225.3 | 266.9 | 293.2 | 338.4 | 344.5 | 343.9 | 355.4 | 347.9 | 494.5 | 499.0 |
| Minerals Management Service | 1.0 | 1.2 | 2.2 | 1.9 | 2.7 | 3.8 | 5.8 | 20.6 | 20.0 | 20.8 | 20.6 |
| Nat'l Biological Svc ¹³ | NA | NA | NA | NA | NA | NA | .0 | 149.0 | 138.8 | NA | NA |
| National Park Service ¹³ | 18.5 | 19.4 | 19.4 | 20.1 | 27.5 | 31.1 | 38.1 | 24.2 | 19.7 | 19.8 | 20.8 |
| Office of the Secretary | .0 | .1 | .0 | .0 | .1 | .2 | .2 | .0 | .0 | .0 | .0 |
| Office of Surface Mining Reclamation & Enforcement | 1.0 | 1.0 | .7 | .7 | 1.0 | .3 | .5 | .0 | .0 | .0 | .0 |
| US Fish & Wildlife Svc ¹³ | 47.6 | 53.5 | 53.9 | 62.0 | 71.0 | 71.2 | 71.2 | .0 | .0 | .0 | .0 |
| Department of Justice, total | 19.8 | 17.4 | 17.5 | 19.9 | 21.1 | 20.3 | 25.6 | 25.9 | 25.8 | 27.2 | 35.2 |
| Bureau of Prisons ¹⁴ | 2.2 | 2.1 | 2.1 | 1.8 | 1.9 | 2.5 | 2.5 | 2.1 | 3.2 | 1.9 | 1.9 |
| Drug Enforcement Admin | .7 | .6 | .5 | .4 | .9 | .1 | - | .1 | .0 | - | .1 |
| Immigration & Naturalization Service | .2 | .3 | .1 | .4 | .4 | .4 | .4 | .4 | .4 | .4 | .4 |
| Office of Justice Programs | 16.7 | 14.4 | 14.8 | 17.3 | 17.9 | 17.3 | 22.7 | 23.3 | 22.2 | 24.9 | 32.9 |
| Office of Legal Policy | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Department of Labor, total | 20.4 | 26.7 | 22.2 | 21.6 | 24.3 | 23.8 | 19.0 | 19.6 | 28.2 | 24.7 | 23.8 |
| Bureau of Labor Statistics | 6.5 | 7.0 | 7.0 | 7.3 | 7.5 | 7.6 | 6.9 | 7.1 | 13.1 | 13.3 | 12.6 |
| Employment Standards Admin | 1.0 | .1 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Employment & Training Admin | 5.4 | 6.8 | 6.1 | 6.0 | 6.6 | 5.6 | 3.5 | 3.1 | 4.2 | 3.0 | 2.4 |
| Labor-Management Relations & Cooperative Programs | .3 | .4 | .3 | NA | NA | NA | NA | NA | NA | NA | NA |
| Occupational Safety & Health Administration | 4.1 | 4.2 | 4.5 | 2.5 | 2.6 | 3.1 | 2.5 | 3.3 | 4.4 | 3.2 | 3.5 |
| Office of the Secretary | 1.8 | 5.2 | 2.5 | 3.3 | 4.7 | 4.1 | 2.9 | 3.1 | 2.9 | 2.9 | 2.9 |
| Pension Benefit Guaranty Corp | .3 | .3 | .3 | .3 | .4 | .8 | .7 | .3 | .1 | .1 | .1 |
| Pension & Welfare Benefits Administration | 1.0 | 2.7 | 1.4 | 2.1 | 2.5 | 2.6 | 2.6 | 2.7 | 3.6 | 2.3 | 2.3 |
| Department of State ¹⁵ | 3.0 | 4.2 | 4.7 | 4.7 | 5.9 | 5.6 | 5.3 | 8.2 | 5.0 | 4.3 | 4.3 |

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

**Table C-96a. Federal obligations for research, by selected agency:
fiscal years 1987-97**

[Dollars in millions]

| Selected agency | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | Preliminary | |
|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------------|---------|
| | | | | | | | | | | 1996 | 1997 |
| Dept of Transportation, total | 68.8 | 91.2 | 120.5 | 119.2 | 114.6 | 156.9 | 226.1 | 273.4 | 370.7 | 334.0 | 394.3 |
| Coast Guard | 3.7 | 5.4 | 4.6 | 5.1 | 6.4 | 5.0 | 8.2 | 5.6 | 4.9 | 5.0 | 4.9 |
| Federal Aviation Admin | 11.1 | 13.3 | 23.6 | 26.1 | 24.0 | 30.1 | 59.8 | 79.5 | 83.3 | 60.4 | 67.6 |
| Federal Highway Admin | 20.7 | 43.7 | 56.6 | 57.6 | 46.1 | 73.2 | 91.7 | 134.2 | 203.1 | 198.1 | 235.4 |
| Federal Railroad Admin | 10.4 | 8.2 | 7.5 | 8.5 | 13.2 | 18.9 | 20.9 | 16.1 | 22.5 | 19.9 | 23.5 |
| Federal Transit Admin ¹⁶ | .0 | .0 | .0 | .0 | .0 | .0 | 10.9 | 7.8 | 10.9 | 5.5 | 5.8 |
| Maritime Administration | 3.3 | .5 | .0 | .9 | 1.7 | 1.8 | 1.7 | 1.7 | 2.5 | .0 | 2.0 |
| National Highway Traffic Safety Administration | 18.9 | 19.1 | 26.2 | 16.9 | 21.4 | 25.8 | 31.6 | 25.3 | 39.7 | 38.2 | 45.7 |
| Office of the Secretary | .4 | .7 | 1.3 | 1.7 | .6 | .7 | .6 | .6 | .6 | .0 | .0 |
| Rsch & Special Programs Administration | .2 | .4 | .7 | 2.4 | 1.4 | 1.4 | .5 | 2.6 | 3.2 | 6.9 | 9.5 |
| Dept of the Treasury, total | 17.4 | 15.9 | 16.3 | 18.7 | 24.1 | 20.8 | 11.1 | 9.2 | 48.9 | 50.3 | 53.9 |
| Bureau of Engraving & Printing | 2.8 | 1.2 | 1.4 | 1.4 | 2.7 | 1.8 | 3.2 | 1.6 | 1.3 | 1.3 | 1.2 |
| Internal Revenue Svc ^{17 18} | 14.1 | 13.7 | 14.1 | 16.5 | 17.5 | 17.5 | 6.5 | 6.1 | 45.8 | 47.2 | 50.8 |
| Off of Thrift Supervision ¹⁹ | NA | NA | NA | .0 | 3.0 | .8 | .7 | .5 | .6 | .5 | .6 |
| United States Customs Svc | .2 | .7 | .4 | .4 | .5 | .2 | .1 | .5 | .7 | .7 | .7 |
| US Secret Service ²⁰ | .2 | .4 | .4 | .5 | .4 | .5 | .6 | .5 | .5 | .6 | .6 |
| Department of Veterans Affairs | 190.3 | 196.1 | 213.7 | 215.6 | 193.8 | 200.9 | 207.4 | 223.5 | 218.8 | 253.8 | 236.2 |
| Other agencies: | | | | | | | | | | | |
| Advisory Commission on Intergovernmental Relations | 1.9 | 1.8 | 1.1 | 1.5 | 1.7 | 1.7 | 2.1 | 1.4 | 1.4 | 1.4 | .0 |
| Appalachian Regional Comm | .1 | .2 | .8 | .4 | .7 | 1.9 | .9 | .9 | .9 | .9 | .9 |
| Consumer Product Safety Comm | .6 | .1 | .5 | .4 | .9 | .8 | .8 | .1 | .0 | .0 | .0 |
| Environmental Protection Agcy | 277.2 | 267.9 | 273.3 | 315.2 | 353.1 | 404.3 | 361.5 | 402.3 | 401.6 | 352.2 | 410.6 |
| Federal Communications Comm | 1.0 | 1.2 | 1.1 | 1.3 | 1.4 | 1.6 | 1.6 | 1.7 | 2.3 | 2.8 | 2.7 |
| Federal Trade Commission | .5 | .4 | .4 | .5 | 1.0 | 1.3 | .9 | .7 | .6 | 1.0 | 1.0 |
| General Services Admin | 1.6 | 2.3 | .5 | .7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| International Development Cooperation Agcy, total | 154.0 | 135.1 | 219.1 | 305.2 | 357.4 | 300.1 | 359.2 | 216.2 | 272.7 | 226.7 | 172.7 |
| Agcy for Internat'l Dvlpmt ¹⁵ | 154.0 | 135.1 | 219.1 | 305.2 | 357.4 | 300.1 | 359.2 | 216.2 | 272.7 | 226.7 | 172.7 |
| Library of Congress | 1.5 | 1.6 | 1.6 | 1.5 | 1.7 | 1.8 | 1.8 | 1.9 | 2.1 | 1.8 | 1.9 |
| National Aeronautics & Space Administration | 2,269.2 | 2,331.6 | 2,878.8 | 3,060.7 | 3,371.2 | 3,229.3 | 3,548.7 | 3,840.6 | 4,046.1 | 4,281.6 | 4,240.5 |
| Nat'l Archives & Records Admin | .7 | .5 | .2 | .3 | .6 | .6 | .3 | .3 | .1 | .1 | .1 |
| National Science Foundation | 1,470.5 | 1,532.8 | 1,670.4 | 1,689.5 | 1,785.2 | 1,868.4 | 1,881.9 | 2,040.4 | 2,149.3 | 2,141.7 | 2,278.9 |
| Nuclear Regulatory Commission | 122.5 | 108.5 | 114.8 | 108.8 | 108.8 | 119.0 | 119.8 | 90.7 | 88.2 | 59.2 | 59.0 |
| Office of Thrift Supervision ¹⁹ | 3.4 | 3.4 | 4.1 | 4.1 | NA | NA | NA | NA | NA | NA | NA |
| Smithsonian Institution | 71.5 | 75.1 | 80.2 | 84.0 | 98.0 | 98.0 | 102.0 | 124.2 | 124.0 | 125.4 | 136.8 |
| Social Security Admin ¹ | NA | NA | NA | NA | NA | NA | NA | NA | NA | 8.3 | 27.7 |

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

**Table C-96a. Federal obligations for research, by selected agency:
fiscal years 1987-97**

[Dollars in millions]

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| Selected agency | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | Preliminary | |
|--|------|------|------|------|------|------|------|------|------|-------------|------|
| | | | | | | | | | | 1996 | 1997 |
| Tennessee Valley Authority | 17.7 | 18.5 | 14.6 | 21.7 | 18.8 | 24.4 | 27.9 | 25.9 | 26.4 | 31.1 | 14.2 |
| United States Arms Control & Disarmament Agency ²¹ | .4 | .8 | 1.2 | .2 | .4 | 2.1 | 1.5 | 1.3 | 1.1 | .5 | 1.0 |
| US Information Agency | .0 | .1 | .0 | .5 | .1 | .0 | 1.1 | .6 | .3 | .2 | .1 |
| US Internat'l Trade Comm | 7.2 | 8.1 | 8.7 | 9.1 | 9.9 | 12.3 | 12.2 | 9.4 | 12.2 | 12.7 | 12.5 |

- 1 Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.
- 2 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 3 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.
- 4 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.
- 5 The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.
- 6 This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.
- 7 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.
- 8 Obligations reported for the Administration for Children & Families may be incomplete for fiscal year 1992 due to unavailability of data.
- 9 In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.
- 10 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.
- 11 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.
- 12 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.
- 13 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.
- 14 The Bureau of Prisons was formerly listed as the Federal Prison System.
- 15 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.
- 16 The name of this agency changed from the Urban Mass Transit Administration to the Federal Transit Administration on Dec. 18, 1991.
- 17 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.
- 18 Large changes in obligations reported by the Internal Revenue Service for Vol. 44 are due to shifts in research funding.
- 19 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.
- 20 The United States Secret Service was formerly listed as the Office of Protective Research.
- 21 Fiscal year 1994 figures for the United States Arms Control & Disarmament Agency are estimates based on the agency's Vol. 43 submission.

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.

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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

**Table C-97. Federal obligations for basic research, by selected agency:
fiscal years 1976-86**

[Dollars in millions]

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| Selected agency | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Total, all agencies | 2,767.5 | 3,258.6 | 3,698.6 | 4,192.7 | 4,674.2 | 5,041.3 | 5,481.6 | 6,260.1 | 7,067.4 | 7,818.7 | 8,153.1 |
| Departments: | | | | | | | | | | | |
| Dept of Agriculture, total | 171.4 | 204.5 | 242.7 | 256.4 | 275.7 | 314.1 | 330.8 | 362.0 | 392.6 | 445.4 | 432.9 |
| Agricultural Research Svc | NA | NA | NA | NA | NA | 186.4 | 192.9 | 215.3 | 240.6 | 250.2 | 247.7 |
| Cooperative State Rsch, Ed, & Extension Service | NA | NA | NA | NA | NA | 83.9 | 91.3 | 98.8 | 99.6 | 141.5 | 131.7 |
| Economic Research Service | NA | NA | NA | NA | NA | 3.6 | 3.9 | 3.9 | 4.4 | 4.6 | 4.5 |
| Economics, Statistics, & Cooperative Svc, total ¹ | 4.0 | 3.8 | 3.9 | 6.4 | NA | NA | NA | NA | NA | NA | NA |
| Economic Research Service | 3.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Statistical Reporting Svc | .4 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Economics & Statistics Svc ² | NA | NA | NA | NA | 6.6 | NA | NA | NA | NA | NA | NA |
| Forest Service | 22.6 | 26.7 | 30.8 | 31.4 | 33.7 | 38.1 | 38.7 | 38.8 | 41.2 | 44.1 | 42.2 |
| National Agricultural Statistics Service | .0 | NA | NA | NA | NA | .0 | 2.3 | 2.5 | 2.7 | 2.8 | 2.6 |
| Office of International Cooperation & Development | NA | NA | NA | .0 | 2.3 | 1.7 | 1.1 | 2.3 | 3.6 | 1.5 | 3.7 |
| Office of Transportation | NA | NA | NA | .0 | .0 | .5 | .5 | .5 | .6 | .6 | .5 |
| Science & Ed Admin, total | 144.8 | 174.0 | 207.9 | 218.6 | 233.0 | NA | NA | NA | NA | NA | NA |
| Agricultural Research Svc | 101.7 | 125.6 | 142.4 | 148.2 | 157.8 | NA | NA | NA | NA | NA | NA |
| Cooperative State Rsch Svc | 43.1 | 48.4 | 65.6 | 70.5 | 75.2 | NA | NA | NA | NA | NA | NA |
| Department of Commerce, total | 11.0 | 12.3 | 11.8 | 11.9 | 15.9 | 16.2 | 16.9 | 19.2 | 20.6 | 23.2 | 26.5 |
| Bureau of the Census | .2 | .2 | .5 | .6 | .5 | .4 | .3 | .3 | .4 | .4 | .5 |
| Economic Development Admin | 1.7 | 1.0 | 2.7 | .5 | .3 | .2 | .0 | .5 | .0 | .0 | .0 |
| Maritime Administration ³ | 1.2 | 1.2 | 2.7 | 2.0 | 2.0 | NA | NA | NA | NA | NA | NA |
| Minority Business Dvlpmt Agcy | .0 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| National Fire Prevention & Control Administration ⁴ | 2.1 | 2.7 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| National Institute of Standards & Technology | 5.8 | 6.9 | 5.9 | 8.8 | 12.8 | 15.6 | 16.5 | 18.4 | 20.2 | 22.1 | 25.7 |
| National Telecommunications & Information Administration | NA | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Office of the Secretary | .0 | .0 | .0 | .0 | .3 | .0 | .0 | .0 | .0 | .8 | .3 |
| Office of Telecommunications | .1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Department of Defense, total | 326.9 | 373.3 | 410.4 | 471.5 | 540.3 | 604.3 | 686.7 | 785.6 | 847.9 | 861.4 | 923.9 |
| Department of the Army | 81.4 | 99.0 | 104.1 | 115.0 | 132.2 | 148.1 | 187.7 | 208.3 | 222.1 | 240.8 | 248.5 |
| Department of the Navy | 129.7 | 153.8 | 172.1 | 192.1 | 214.9 | 238.0 | 280.3 | 305.4 | 315.8 | 343.1 | 337.3 |
| Department of the Air Force | 83.9 | 84.8 | 95.1 | 105.0 | 108.2 | 125.8 | 145.8 | 164.2 | 192.4 | 198.3 | 216.5 |
| Defense Agencies | 31.9 | 35.6 | 39.1 | 59.3 | 85.1 | 92.4 | 72.9 | 107.7 | 117.6 | 79.2 | 121.7 |
| Department of Education ⁵ | NA | NA | NA | 20.6 | 17.6 | .0 | 14.2 | 14.2 | 12.2 | 14.6 | 4.5 |
| Department of Energy ^{6 7} | NA | 389.5 | 440.5 | 463.0 | 523.1 | 586.3 | 642.2 | 767.7 | 830.4 | 942.6 | 959.7 |
| Department of Health, Education, & Welfare, total | 986.2 | 1,119.5 | 1,292.3 | NA | NA | NA | NA | NA | NA | NA | NA |
| Alcohol, Drug Abuse, & Mental Health Administration | 52.6 | 62.7 | 79.9 | NA | NA | NA | NA | NA | NA | NA | NA |
| Health Resources Admin | 3.1 | .0 | .0 | NA | NA | NA | NA | NA | NA | NA | NA |
| Health Services Admin | .3 | 2.0 | .6 | NA | NA | NA | NA | NA | NA | NA | NA |
| National Inst of Education | 5.1 | 11.9 | 18.3 | NA | NA | NA | NA | NA | NA | NA | NA |
| National Insts of Health | 920.3 | 1,032.8 | 1,181.1 | NA | NA | NA | NA | NA | NA | NA | NA |
| Office of Assistant Secretary for Health | .0 | 4.0 | 5.1 | NA | NA | NA | NA | NA | NA | NA | NA |
| Office of Human Dvlpmt Svcs | .0 | 2.2 | 2.2 | NA | NA | NA | NA | NA | NA | NA | NA |
| Office of the Secretary | 4.9 | 4.0 | 5.1 | NA | NA | NA | NA | NA | NA | NA | NA |

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

**Table C-97. Federal obligations for basic research, by selected agency:
fiscal years 1976-86**

[Dollars in millions]

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| Selected agency | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
|--|-------|------|------|---------|---------|---------|---------|---------|---------|---------|---------|
| Department of Health & Human Services, total | NA | NA | NA | 1,576.0 | 1,762.7 | 1,900.4 | 2,144.7 | 2,475.4 | 2,814.5 | 3,232.5 | 3,338.8 |
| Alcohol, Drug Abuse, & Mental Health Administration | NA | NA | NA | 94.6 | 104.7 | 116.3 | 117.3 | 145.0 | 170.8 | 196.8 | 203.4 |
| Hlth Resources & Svcs Admin | NA | NA | NA | NA | NA | NA | .6 | .8 | .8 | .9 | 1.0 |
| Health Services Admin | NA | NA | NA | 2.0 | 2.0 | 3.8 | NA | NA | NA | NA | NA |
| Human Development Services | NA | NA | NA | .0 | .0 | .4 | .4 | .0 | .0 | .0 | .0 |
| National Insts of Health | NA | NA | NA | 1,463.7 | 1,642.3 | 1,766.8 | 2,020.7 | 2,313.0 | 2,624.8 | 3,018.0 | 3,118.6 |
| Office of the Assistant Secretary for Health | NA | NA | NA | 13.6 | 11.6 | 12.4 | 5.7 | 16.6 | 18.1 | 16.9 | 15.8 |
| Office of the Secretary | NA | NA | NA | 2.1 | 2.0 | .6 | .0 | .0 | .0 | .0 | .0 |
| Dept of the Interior, total | 54.3 | 63.6 | 65.9 | 72.5 | 71.6 | 80.7 | 76.5 | 103.0 | 125.9 | 138.3 | 133.0 |
| Bonneville Power Admin ⁷ | .0 | .0 | .0 | .0 | .0 | .4 | NA | NA | NA | NA | NA |
| Bureau of Mines | .8 | 4.0 | 8.6 | 13.7 | 11.5 | 13.6 | 15.9 | 23.5 | 40.5 | 49.9 | 44.9 |
| Bureau of Reclamation | .1 | .1 | .2 | .1 | .2 | .1 | .1 | .1 | .1 | .3 | .1 |
| Geological Survey ⁸ | 39.5 | 40.3 | 46.3 | 49.0 | 47.3 | 53.5 | 52.6 | 64.7 | 78.9 | 80.5 | 83.4 |
| National Park Service | .6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Office of the Secretary | 1.0 | 3.2 | 1.7 | 1.4 | 2.2 | 1.5 | .5 | 7.4 | .1 | 1.9 | 1.0 |
| Office of Water Rsch & Tech ⁸ | 3.6 | 2.9 | 4.6 | 4.6 | 6.6 | 7.6 | 3.3 | .5 | .4 | NA | NA |
| US Fish & Wildlife Svc | 8.8 | 13.1 | 4.5 | 3.7 | 3.8 | 3.9 | 4.1 | 6.9 | 5.9 | 5.7 | 3.6 |
| Department of Justice, total | 4.5 | 5.1 | 14.7 | 7.9 | 9.5 | 4.6 | 3.1 | 3.6 | 4.7 | 4.2 | 5.3 |
| Office of Justice Programs | 4.5 | 5.1 | 14.7 | 7.9 | 9.5 | 4.6 | 3.1 | 3.6 | 4.7 | 4.2 | 5.3 |
| Department of Labor, total | 1.0 | .7 | 3.7 | 2.3 | 3.9 | 3.7 | 6.5 | 5.3 | 5.0 | 3.3 | .9 |
| Employment & Training Admin | .6 | .6 | 3.5 | 1.8 | 3.9 | 3.7 | 6.5 | 5.3 | 5.0 | 3.3 | .9 |
| Labor-Management Services Administration ⁹ | .3 | .1 | .2 | .5 | .0 | .0 | .0 | .0 | NA | NA | NA |
| Department of State, total ¹⁰ | .0 | .0 | .0 | - | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Departmental Funds | .0 | .0 | .0 | - | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Dept of Transportation, total | .0 | .0 | .0 | .0 | .0 | 1.2 | 1.0 | .9 | 3.5 | 1.1 | .6 |
| Coast Guard | .0 | .0 | .0 | .0 | .0 | .3 | .0 | .4 | .0 | .0 | .0 |
| Maritime Administration ³ | NA | NA | NA | NA | NA | .7 | 1.0 | .5 | 3.5 | 1.1 | .6 |
| Rsch & Special Programs Administration | NA | .0 | .0 | .0 | .0 | .3 | .0 | .0 | .0 | .0 | .0 |
| Dept of the Treasury, total | .0 | .0 | .0 | .2 | 1.7 | 2.3 | 2.2 | 3.5 | 4.0 | 4.8 | 5.1 |
| Bureau of Engraving & Printing | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .6 | .8 | .3 | .4 |
| Internal Revenue Service | .0 | .0 | .0 | .2 | 1.7 | 2.3 | 2.2 | 2.9 | 3.2 | 4.4 | 4.5 |
| United States Secret Service | NA | NA | NA | NA | .0 | .0 | .0 | .0 | .0 | .0 | .2 |
| Department of Veterans Affairs | 8.9 | 9.1 | 8.9 | 9.5 | 14.3 | 15.0 | 12.9 | 14.1 | 15.8 | 15.4 | 14.8 |
| Other agencies: | | | | | | | | | | | |
| ACTION | - | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Civil Service Commission | .3 | .4 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Consumer Product Safety Comm | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 | .0 | .0 | .0 |
| Energy Rsch & Dvlpmt Admin ⁶ | 345.8 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Environmental Protection Agcy | 13.7 | 8.3 | 6.0 | 10.1 | 13.6 | 10.5 | 32.7 | 22.2 | 29.6 | 38.6 | 38.5 |
| Federal Emergency Management Agency, total ¹¹ | NA | NA | 2.8 | 3.0 | 2.6 | 2.6 | 1.4 | .0 | .0 | .0 | .0 |
| National Fire Prevention & Control Administration ⁴ | NA | NA | 2.8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Federal Trade Commission | .3 | .4 | .5 | .4 | 1.5 | .9 | 1.0 | 1.2 | 1.3 | 1.5 | 1.6 |
| Foundation for Educational Assistance ⁵ | NA | NA | NA | NA | NA | 20.6 | NA | NA | NA | NA | NA |
| General Services Admin ¹² | .1 | .1 | 1.8 | - | .0 | .0 | .0 | .0 | .1 | .1 | .0 |

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

**Table C-97. Federal obligations for basic research, by selected agency:
fiscal years 1976-86**

[Dollars in millions]

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| Selected agency | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
|--|-------|-------|-------|-------|-------|-------|-------|-------|---------|---------|---------|
| International Development | | | | | | | | | | | |
| Cooperation Agcy, total ¹⁰ | NA | NA | NA | .0 | .0 | .0 | .0 | 4.1 | 3.0 | 1.7 | 4.3 |
| Agcy for Internat'l Dvlpmnt ¹⁰ | NA | NA | NA | .0 | .0 | .0 | .0 | 4.1 | 3.0 | 1.7 | 4.3 |
| Library of Congress | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | .3 | .6 | .6 | .4 |
| National Aeronautics & Space Administration | 293.2 | 413.8 | 479.7 | 512.8 | 559.1 | 531.1 | 535.7 | 617.0 | 754.5 | 750.9 | 916.7 |
| National Archives & Records Administration ¹² | NA | NA | NA | NA | NA | NA | NA | NA | NA | .1 | .0 |
| National Science Foundation | 523.6 | 624.9 | 678.0 | 733.3 | 815.2 | 896.6 | 916.1 | 999.1 | 1,132.3 | 1,261.8 | 1,275.2 |
| Office of Telecommunications Policy | .4 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Smithsonian Institution | 25.7 | 29.7 | 34.9 | 36.9 | 41.0 | 44.9 | 52.4 | 56.0 | 63.6 | 71.1 | 63.3 |
| Tennessee Valley Authority | .0 | 3.5 | 3.8 | 4.1 | 4.6 | 4.8 | 4.6 | 5.6 | 5.1 | 5.5 | 7.3 |
| US Information Agency ¹³ | .0 | .0 | .0 | .0 | .0 | .1 | .0 | .0 | .0 | .0 | .0 |

- 1 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 1977-79.
- 2 Data reported for the Economics & Statistics Service include programs of the Economic Research Service and the Statistical Reporting Service for fiscal year 1980.
- 3 In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.
- 4 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.
- 5 The 1983 Budget of the United States Government proposed that the Department of Education be replaced by the Foundation for Educational Assistance.
- 6 In 1977 the Energy Research & Development Administration became part of the Department of Energy.
- 7 In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.
- 8 As of 1985 the Office of Water Research & Technology has been combined with the Geological Survey.
- 9 In 1984 the Labor-Management Services Administration was replaced by Labor-Management Relations & Cooperative Programs.
- 10 The Agency for International Development transferred from the Department of State to the International Development Cooperative Agency on Oct. 1, 1979.
- 11 Functions for the Defense Civil Preparedness Agency transferred from the Department of Defense to the Federal Emergency Management Agency on July 20, 1979.
- 12 As of 1985 the National Archives & Records Administration is separate from the General Services Administration.
- 13 Data reported for the United States Information Agency include funds for the former International Communication Agency for fiscal years 1977-81.

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.

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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

**Table C-97a. Federal obligations for basic research, by selected agency:
fiscal years 1987-97**

[Dollars in millions]

Page 1 of 2

| Selected agency | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | Preliminary | |
|---|---------|---------|----------|----------|----------|----------|----------|----------|----------|-------------|----------|
| | | | | | | | | | | 1996 | 1997 |
| Total, all agencies | 8,942.4 | 9,473.6 | 10,602.0 | 11,285.6 | 12,170.8 | 12,489.9 | 13,399.1 | 13,552.9 | 13,895.5 | 14,482.1 | 14,732.3 |
| Departments: | | | | | | | | | | | |
| Dept of Agriculture, total | 445.5 | 480.6 | 484.9 | 519.2 | 557.6 | 595.2 | 615.9 | 606.3 | 594.9 | 586.3 | 607.8 |
| Agricultural Marketing Svc ¹ | .0 | .0 | .0 | .5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Agricultural Research Svc ² | 253.4 | 271.1 | 282.7 | 294.0 | 309.7 | 326.1 | 341.0 | 366.5 | 369.0 | 367.7 | 376.2 |
| Cooperative State Rsch, Ed, & Extension Service ³ | 132.8 | 145.8 | 142.6 | 153.7 | 170.4 | 189.6 | 192.5 | 194.7 | 186.0 | 180.7 | 193.2 |
| Economic Research Service | 6.3 | 6.7 | 6.9 | 7.1 | 7.6 | 8.2 | 10.6 | 9.9 | 5.4 | 5.3 | 5.5 |
| Foreign Agricultural Svc ⁴ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .6 | .3 | 1.1 | 1.1 |
| Forest Service | 49.4 | 51.6 | 50.0 | 60.3 | 66.6 | 68.9 | 69.4 | 33.3 | 32.9 | 30.3 | 30.6 |
| National Agricultural Statistics Service | 1.1 | 1.2 | 1.0 | .9 | 1.1 | 1.2 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| Office of International Cooperation & Dvlprmt ⁴ | 1.9 | 3.6 | 1.7 | 2.6 | 2.2 | 1.2 | 1.2 | .0 | NA | NA | NA |
| Office of Transportation | .5 | .5 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Department of Commerce, total | 25.8 | 30.9 | 29.1 | 31.4 | 34.3 | 34.5 | 37.2 | 40.1 | 39.3 | 37.5 | 38.8 |
| Bureau of the Census | .7 | 1.3 | 1.2 | 2.8 | 2.4 | .9 | .4 | .3 | .3 | .3 | .3 |
| National Institute of Standards & Technology | 25.1 | 26.3 | 27.9 | 28.6 | 31.9 | 33.6 | 36.5 | 39.8 | 38.9 | 37.2 | 38.5 |
| National Oceanic & Atmospheric Administration | .0 | 3.2 | .0 | .0 | .0 | .0 | .3 | .0 | .0 | .0 | .0 |
| Department of Defense, total | 907.6 | 876.9 | 947.9 | 947.6 | 994.2 | 1,098.9 | 1,268.2 | 1,222.3 | 1,264.1 | 1,134.2 | 1,145.8 |
| Department of the Army | 217.0 | 165.7 | 187.2 | 185.1 | 188.6 | 204.9 | 215.7 | 213.3 | 218.8 | 190.4 | 204.8 |
| Department of the Navy | 354.3 | 341.8 | 354.0 | 365.0 | 388.0 | 393.8 | 422.0 | 400.1 | 409.4 | 373.2 | 386.8 |
| Department of the Air Force | 221.6 | 196.4 | 202.8 | 197.0 | 209.2 | 205.8 | 218.7 | 242.4 | 206.8 | 233.8 | 234.0 |
| Defense Agencies | 114.8 | 173.0 | 203.9 | 200.5 | 208.3 | 294.4 | 411.8 | 366.5 | 429.1 | 336.8 | 320.2 |
| Department of Education | 3.1 | 4.4 | 4.4 | 4.9 | 8.6 | 7.5 | 5.3 | 5.5 | 5.5 | 3.5 | 2.9 |
| Department of Energy | 1,068.5 | 1,184.8 | 1,410.9 | 1,504.8 | 1,686.5 | 1,736.4 | 1,754.8 | 1,603.2 | 1,634.4 | 1,956.6 | 2,034.6 |
| Department of Health & Human Services, total | 3,827.9 | 4,081.4 | 4,388.0 | 4,649.0 | 5,050.1 | 5,058.7 | 5,696.7 | 5,884.0 | 6,061.1 | 6,441.5 | 6,558.3 |
| Administration on Aging ⁵ | NA | NA | NA | NA | .0 | .0 | .0 | .0 | .0 | .2 | .0 |
| Agency for Health Care Policy & Research ⁶ | NA | NA | NA | .0 | .0 | .0 | .0 | .8 | .0 | .0 | .0 |
| Alcohol, Drug Abuse, & Mental Health Administration ⁷ | 232.2 | 265.8 | 308.0 | 386.2 | 459.1 | NA | NA | NA | NA | NA | NA |
| Hlth Resources & Svcs Admin | 1.3 | 1.1 | 1.2 | 1.2 | 1.5 | 1.3 | 1.1 | .8 | 1.0 | .8 | .8 |
| National Insts of Health ⁷ | 3,575.5 | 3,795.1 | 4,053.3 | 4,261.7 | 4,589.5 | 5,057.4 | 5,695.6 | 5,882.4 | 6,060.0 | 6,440.5 | 6,557.5 |
| Office of the Assistant Secretary for Health ⁶ | 18.9 | 19.4 | 25.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Dept of the Interior, total | 134.9 | 126.5 | 188.9 | 205.4 | 229.3 | 230.9 | 230.3 | 83.2 | 55.2 | 55.9 | 56.9 |
| Bureau of Land Management | .0 | .0 | .0 | .0 | 1.1 | .6 | .6 | .0 | .0 | .0 | .0 |
| Bureau of Mines | 45.6 | 32.1 | 43.9 | 40.6 | 42.8 | 43.7 | 44.6 | 25.4 | .0 | NA | NA |
| Bureau of Reclamation | .1 | .1 | - | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 |
| Geological Survey ⁸ | 84.9 | 89.5 | 140.2 | 159.1 | 179.1 | 180.1 | 178.0 | 43.5 | 41.6 | 55.5 | 56.3 |
| Nat'l Biological Svc ^{9 8} | NA | NA | NA | NA | NA | NA | .0 | 13.7 | 13.0 | NA | NA |
| National Park Service ⁹ | .0 | .0 | .0 | .0 | .0 | .0 | .6 | .7 | .5 | .4 | .6 |
| US Fish & Wildlife Svc ⁹ | 4.3 | 4.8 | 4.8 | 5.6 | 6.2 | 6.4 | 6.4 | .0 | .0 | .0 | .0 |
| Department of Justice, total | 8.1 | 7.6 | 6.8 | 8.8 | 6.4 | 5.3 | 5.0 | 5.9 | 8.1 | 8.3 | 12.4 |
| Office of Justice Programs | 8.1 | 7.6 | 6.8 | 8.8 | 6.4 | 5.3 | 5.0 | 5.9 | 8.1 | 8.3 | 12.4 |
| Department of Labor, total | 1.4 | .4 | .3 | .3 | .3 | .2 | 5.6 | 5.8 | 11.6 | 11.5 | 11.3 |
| Bureau of Labor Statistics | .0 | .0 | .0 | .0 | .0 | .0 | 5.4 | 5.6 | 11.6 | 11.5 | 11.3 |
| Employment & Training Admin | 1.4 | .4 | .3 | .3 | .3 | .2 | .2 | .2 | .0 | .0 | .0 |
| Pension Benefit Guaranty Corp | .0 | .0 | .0 | .0 | .0 | - | .0 | .0 | .0 | .0 | .0 |
| Department of State ¹⁰ | 2.6 | 3.1 | 3.4 | 3.5 | 4.6 | 4.9 | 4.8 | 7.8 | 4.5 | 3.8 | 3.8 |

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

**Table C-97a. Federal obligations for basic research, by selected agency:
fiscal years 1987-97**

[Dollars in millions]

| Selected agency | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | Preliminary | |
|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------------|---------|
| | | | | | | | | | | 1996 | 1997 |
| Dept of Transportation, total | 0.2 | .0 | .0 | .0 | .0 | 1.2 | 1.7 | 3.0 | 46.9 | 45.7 | 54.3 |
| Federal Highway Admin | .0 | .0 | .0 | .0 | .0 | 1.2 | 1.7 | 3.0 | 46.9 | 45.7 | 54.3 |
| Maritime Administration | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Dept of the Treasury, total | 4.7 | 4.8 | 3.4 | 3.4 | 3.6 | 3.6 | 6.5 | - | - | .1 | - |
| Bureau of Engraving & Printing | .1 | .1 | .5 | .0 | .0 | .0 | .0 | - | - | .1 | - |
| Internal Revenue Svc ^{1 12} | 4.4 | 4.7 | 2.9 | 3.4 | 3.6 | 3.6 | 6.5 | .0 | .0 | .0 | .0 |
| US Secret Service ¹³ | .2 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Department of Veterans Affairs | 17.2 | 17.3 | 16.6 | 16.2 | 16.1 | 15.7 | 13.3 | 14.4 | 12.4 | 14.4 | 13.7 |
| Other agencies: | | | | | | | | | | | |
| Environmental Protection Agcy | 31.1 | 27.2 | 50.7 | 73.6 | 91.2 | 110.4 | 89.1 | 101.4 | 70.3 | 65.9 | 75.1 |
| International Development Cooperation Agcy, total | 2.8 | 3.0 | 3.1 | 5.0 | 5.7 | 5.8 | 8.4 | 1.8 | 2.3 | 2.4 | 4.9 |
| Agcy for Internat'l Dvlpm ¹⁰ | 2.8 | 3.0 | 3.1 | 5.0 | 5.7 | 5.8 | 8.4 | 1.8 | 2.3 | 2.4 | 4.9 |
| Library of Congress | .4 | .4 | .4 | .3 | .4 | .4 | .3 | .4 | .5 | .4 | .5 |
| National Aeronautics & Space Administration | 1,013.7 | 1,112.7 | 1,417.4 | 1,636.9 | 1,705.6 | 1,738.2 | 1,800.1 | 1,963.9 | 1,978.2 | 2,009.2 | 1,885.0 |
| Nat'l Archives & Records Admin | .5 | .2 | .1 | .2 | .4 | .5 | .2 | .2 | .0 | .0 | .0 |
| National Science Foundation | 1,371.2 | 1,433.2 | 1,562.6 | 1,586.3 | 1,676.2 | 1,741.5 | 1,743.8 | 1,870.7 | 1,973.3 | 1,967.7 | 2,089.6 |
| Smithsonian Institution | 71.5 | 75.1 | 80.2 | 84.0 | 98.0 | 98.0 | 102.0 | 124.2 | 124.0 | 125.4 | 136.8 |
| Tennessee Valley Authority | 3.9 | 3.2 | 2.9 | 4.7 | 1.9 | 2.1 | 9.9 | 8.9 | 9.0 | 11.8 | .0 |

- 1 Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.
- 2 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 3 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.
- 4 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.
- 5 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.
- 6 In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.
- 7 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.
- 8 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.
- 9 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.
- 10 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.
- 11 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.
- 12 Large changes in obligations reported by the Internal Revenue Service for Vol. 44 are due to shifts in research funding.
- 13 The United States Secret Service was formerly listed as the Office of Protective Research.

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.

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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

**Table C-98. Federal obligations for applied research, by selected agency:
fiscal years 1976-86**

[Dollars in millions]

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| Selected agency | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
|---|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Total, all agencies | 4,851.9 | 5,255.5 | 5,908.2 | 6,342.3 | 6,923.2 | 7,171.5 | 7,540.6 | 7,993.4 | 7,911.4 | 8,314.7 | 8,349.1 |
| Departments: | | | | | | | | | | | |
| Dept of Agriculture, total | 270.9 | 319.6 | 351.8 | 375.5 | 381.8 | 426.9 | 435.7 | 455.5 | 442.2 | 465.6 | 463.5 |
| Agricultural Cooperative Svc | NA | NA | NA | NA | 1.6 | 1.7 | 1.7 | 2.1 | 2.2 | 2.9 | 2.6 |
| Agricultural Marketing Svc ¹ | .0 | .0 | .0 | .4 | 1.0 | .9 | 1.0 | 1.1 | 1.2 | 1.3 | 1.3 |
| Agricultural Research Svc | NA | NA | NA | NA | NA | 181.5 | 186.2 | 202.6 | 183.7 | 191.8 | 188.3 |
| Animal & Plant Health Inspection Service | NA | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 4.2 |
| Cooperative State Rsch, Ed, & Extension Service | NA | NA | NA | NA | NA | 115.5 | 127.7 | 133.5 | 136.2 | 142.8 | 137.4 |
| Economic Research Service | NA | NA | NA | NA | NA | 35.8 | 35.3 | 34.9 | 39.3 | 41.7 | 40.1 |
| Economics, Statistics, & Cooperative Svc, total ² | 22.7 | 25.9 | 28.8 | 29.1 | NA | NA | NA | NA | NA | NA | NA |
| Economic Research Service ... | 20.4 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Farmer Cooperative Service ... | 1.2 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Statistical Reporting Svc | 1.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Economics & Statistics Svc ³ | NA | NA | NA | NA | 24.5 | NA | NA | NA | NA | NA | NA |
| Forest Service | 51.9 | 59.4 | 69.8 | 71.1 | 72.3 | 81.8 | 69.0 | 65.1 | 63.9 | 65.7 | 67.5 |
| Grain Inspection Packers & Stockyards Administration | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .8 | .6 |
| Human Nutrition Information Service | NA | NA | NA | NA | NA | .0 | 8.5 | 8.2 | 6.0 | 6.7 | 12.8 |
| National Agricultural Statistics Service | .0 | NA | NA | NA | NA | 7.5 | 4.7 | 5.1 | 5.5 | 5.6 | 5.4 |
| Office of International Cooperation & Development ... | NA | NA | NA | .0 | 2.6 | 1.9 | 1.2 | 2.5 | 3.9 | 5.8 | 2.9 |
| Office of Transportation | NA | NA | NA | .0 | .0 | .3 | .3 | .3 | .3 | .5 | .4 |
| Science & Ed Admin, total | 196.2 | 234.3 | 253.2 | 274.8 | 279.8 | NA | NA | NA | NA | NA | NA |
| Agricultural Research Svc | 125.9 | 155.4 | 161.3 | 172.7 | 170.8 | NA | NA | NA | NA | NA | NA |
| Cooperative State Rsch Svc ... | 70.3 | 78.9 | 91.9 | 102.1 | 109.0 | NA | NA | NA | NA | NA | NA |
| Nat'l Agricultural Library | - | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Department of Commerce, total | 144.7 | 163.8 | 181.0 | 207.6 | 238.5 | 233.2 | 259.2 | 265.6 | 276.1 | 301.0 | 312.9 |
| Bureau of the Census | 2.0 | 1.8 | 1.8 | 1.2 | 1.4 | 2.6 | 1.6 | 1.9 | 2.0 | 2.1 | 2.1 |
| Economic Development Admin ... | .4 | 1.5 | 3.2 | 8.0 | 2.2 | 1.6 | 1.6 | 4.8 | 5.1 | 2.0 | 2.3 |
| Maritime Administration ⁴ | 3.8 | 2.5 | 4.3 | 10.2 | 10.1 | NA | NA | NA | NA | NA | NA |
| Minority Business Dvlpmt Agcy ... | .4 | .5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| National Fire Prevention & Control Administration ⁵ | 1.1 | 1.8 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| National Institute of Standards & Technology | 31.7 | 38.0 | 42.6 | 43.0 | 46.1 | 50.6 | 57.4 | 63.1 | 63.5 | 64.5 | 63.5 |
| National Oceanic & Atmospheric Administration ... | 104.9 | 115.8 | 127.9 | 142.7 | 168.8 | 168.5 | 188.5 | 188.9 | 197.7 | 224.4 | 237.5 |
| National Telecommunications & Information Administration | NA | 1.9 | 1.1 | 2.4 | 9.6 | 9.9 | 10.1 | 6.9 | 7.7 | 7.9 | 7.6 |
| Office of the Secretary | .0 | .0 | .0 | .1 | .2 | .0 | .0 | .0 | .0 | .1 | .0 |
| Office of Telecommunications | .2 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Patent & Trademark Office | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Department of Defense, total | 1,200.6 | 1,342.6 | 1,413.6 | 1,542.6 | 1,721.4 | 1,996.6 | 2,266.1 | 2,437.0 | 2,200.7 | 2,306.9 | 2,303.3 |
| Department of the Army | 281.0 | 299.0 | 305.7 | 333.6 | 347.1 | 388.4 | 451.6 | 485.3 | 486.7 | 582.6 | 578.8 |
| Department of the Navy | 308.3 | 343.6 | 354.2 | 375.2 | 396.2 | 460.0 | 498.4 | 521.6 | 449.6 | 448.2 | 447.1 |
| Department of the Air Force | 298.4 | 341.0 | 353.6 | 387.2 | 429.1 | 491.5 | 488.1 | 524.2 | 547.7 | 538.4 | 542.5 |
| Defense Agencies | 312.2 | 357.8 | 392.5 | 446.6 | 549.1 | 656.7 | 828.1 | 905.9 | 716.6 | 737.7 | 735.0 |
| Defense Civil Preparedness Agency ⁶ | .7 | 1.3 | 7.5 | NA | NA | NA | NA | NA | NA | NA | NA |

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

**Table C-98. Federal obligations for applied research, by selected agency:
fiscal years 1976-86**

[Dollars in millions]

| Selected agency | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Department of Education ⁷ | NA | NA | NA | 72.8 | 70.0 | .0 | 56.3 | 61.9 | 68.7 | 77.3 | 91.3 |
| Department of Energy ^{8 9} | NA | 501.8 | 661.7 | 668.9 | 754.2 | 827.3 | 1,053.9 | 1,193.4 | 1,194.5 | 1,198.4 | 1,080.7 |
| Department of Health, Education, & Welfare, total | 1,164.6 | 1,294.8 | 1,448.4 | NA | NA | NA | NA | NA | NA | NA | NA |
| Alcohol, Drug Abuse, & Mental Health Administration | 84.1 | 89.3 | 98.8 | NA | NA | NA | NA | NA | NA | NA | NA |
| Center for Disease Control | 49.6 | 55.3 | 60.1 | NA | NA | NA | NA | NA | NA | NA | NA |
| Food & Drug Administration | 37.1 | 42.9 | 64.1 | NA | NA | NA | NA | NA | NA | NA | NA |
| Health Care Financing Admin | NA | 30.0 | 19.4 | NA | NA | NA | NA | NA | NA | NA | NA |
| Health Resources Admin | 27.9 | 7.4 | 5.0 | NA | NA | NA | NA | NA | NA | NA | NA |
| Health Services Admin | 9.2 | 7.5 | 10.0 | NA | NA | NA | NA | NA | NA | NA | NA |
| National Inst of Education | 5.7 | 15.2 | 16.3 | NA | NA | NA | NA | NA | NA | NA | NA |
| National Insts of Health | 847.4 | 935.9 | 1,051.5 | NA | NA | NA | NA | NA | NA | NA | NA |
| Office of Assistant Secretary for Education | 1.0 | 1.0 | 1.3 | NA | NA | NA | NA | NA | NA | NA | NA |
| Office of Assistant Secretary for Health | .0 | 24.6 | 27.5 | NA | NA | NA | NA | NA | NA | NA | NA |
| Office of Education | 21.4 | 11.9 | 13.3 | NA | NA | NA | NA | NA | NA | NA | NA |
| Office of Human Dvlpmnt Svcs | 34.6 | 46.5 | 42.9 | NA | NA | NA | NA | NA | NA | NA | NA |
| Office of the Secretary | 18.8 | 16.0 | 25.1 | NA | NA | NA | NA | NA | NA | NA | NA |
| Social & Rehabilitation Svc | 18.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Social Security Admin | 9.1 | 11.2 | 12.9 | NA | NA | NA | NA | NA | NA | NA | NA |
| Department of Health & Human Services, total | NA | NA | NA | 1,439.7 | 1,570.1 | 1,591.9 | 1,460.9 | 1,545.4 | 1,651.5 | 1,795.8 | 1,850.8 |
| Alcohol, Drug Abuse, & Mental Health Administration | NA | NA | NA | 118.9 | 128.8 | 121.4 | 128.7 | 155.4 | 165.2 | 179.7 | 191.5 |
| Centers for Disease Control & Prevention | NA | NA | NA | 76.3 | 87.3 | 74.8 | 75.0 | 78.2 | 46.3 | 47.6 | 52.2 |
| Food & Drug Administration | NA | NA | NA | 61.0 | 75.4 | 71.4 | 73.0 | 74.2 | 77.8 | 82.1 | 79.4 |
| Health Care Financing Admin | NA | NA | NA | 31.8 | 45.7 | 38.6 | 29.1 | 30.2 | 33.1 | 33.5 | 29.0 |
| Health Resources Admin | NA | NA | NA | 4.9 | 5.1 | 5.0 | NA | NA | NA | NA | NA |
| Hlth Resources & Svcs Admin | NA | NA | NA | NA | NA | NA | 6.1 | 10.2 | 15.4 | 17.3 | 11.2 |
| Health Services Admin | NA | NA | NA | 8.2 | 6.0 | 6.4 | NA | NA | NA | NA | NA |
| Human Development Services | NA | NA | NA | 14.9 | 19.1 | 39.5 | 8.3 | 6.9 | 4.5 | 5.8 | 6.8 |
| National Insts of Health | NA | NA | NA | 1,066.4 | 1,145.1 | 1,181.5 | 1,103.8 | 1,165.2 | 1,285.6 | 1,410.1 | 1,469.0 |
| Office of the Assistant Secretary for Health | NA | NA | NA | 16.3 | 14.1 | 16.3 | 8.2 | .0 | .0 | .0 | .0 |
| Office of the Secretary | NA | NA | NA | 22.6 | 22.0 | 18.9 | 13.1 | 14.4 | 10.0 | 9.4 | 6.1 |
| Social Security Admin | NA | NA | NA | 18.3 | 21.4 | 18.0 | 15.5 | 10.8 | 13.5 | 10.4 | 5.6 |
| Dept of Housing & Urban Dvlpmnt ... | 36.9 | 32.7 | 30.5 | 23.8 | 19.6 | 16.7 | 10.3 | 11.3 | 6.3 | 6.5 | 5.3 |
| Dept of the Interior, total | 205.1 | 192.4 | 217.6 | 266.9 | 282.8 | 289.2 | 275.0 | 254.7 | 254.3 | 231.0 | 234.9 |
| Bonneville Power Admin ⁹ | .5 | .0 | .0 | .0 | .0 | 6.1 | NA | NA | NA | NA | NA |
| Bureau of Land Management | .7 | .8 | 1.0 | 1.1 | 1.3 | 1.5 | 2.4 | 2.0 | 1.8 | 2.8 | 2.1 |
| Bureau of Mines | 72.5 | 48.3 | 48.4 | 65.4 | 71.3 | 54.4 | 65.2 | 55.9 | 56.7 | 36.7 | 36.6 |
| Bureau of Reclamation | 7.9 | 9.2 | 10.4 | 11.3 | 12.7 | 13.3 | 8.9 | 8.7 | 8.8 | 10.9 | 9.6 |
| Geological Survey ¹⁰ | 70.8 | 77.2 | 87.4 | 96.1 | 98.5 | 115.8 | 99.4 | 89.9 | 125.1 | 130.0 | 127.8 |
| Heritage Conservation & Recreation Service | - | - | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Minerals Management Service ... | NA | NA | NA | NA | NA | NA | .0 | 1.5 | 1.5 | 1.4 | 1.1 |
| National Park Service | 8.7 | 7.5 | 7.7 | 8.9 | 8.2 | 10.4 | 11.2 | 13.7 | 14.0 | 15.0 | 17.3 |
| Office of the Secretary | .1 | 1.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Office of Surface Mining Reclamation & Enforcement ... | NA | .0 | 2.2 | 5.0 | 7.5 | 5.8 | 1.5 | 1.5 | .8 | 2.0 | 2.3 |
| Office of Water Rsch & Tech ¹⁰ | 10.4 | 9.4 | 10.8 | 13.2 | 11.8 | 8.2 | 6.8 | .8 | 3.2 | NA | NA |
| US Fish & Wildlife Svc | 33.7 | 38.6 | 49.7 | 65.9 | 71.4 | 73.9 | 79.6 | 80.6 | 42.3 | 32.2 | 38.1 |
| Department of Justice, total | 13.8 | 12.5 | 31.0 | 20.9 | 19.2 | 14.9 | 13.2 | 17.1 | 13.2 | 15.1 | 17.0 |
| Bureau of Prisons | .0 | .1 | .7 | .5 | .9 | 1.7 | .9 | 1.3 | 1.2 | 1.1 | 2.7 |
| Drug Enforcement Admin | .5 | .9 | .5 | .7 | .8 | .4 | 1.3 | .9 | .7 | .5 | .8 |
| Immigration & Naturalization Service | .1 | .1 | .2 | .1 | .2 | .1 | .3 | .3 | .3 | .2 | .2 |
| Office of Justice Programs | 13.2 | 11.3 | 28.6 | 18.0 | 16.1 | 12.0 | 10.3 | 14.4 | 11.0 | 13.0 | 13.2 |
| Office of Legal Policy | .0 | .0 | 1.1 | 1.6 | 1.3 | .7 | .4 | .2 | .0 | .3 | .2 |

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

**Table C-98. Federal obligations for applied research, by selected agency:
fiscal years 1976-86**

[Dollars in millions]

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| Selected agency | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Department of Labor, total | 17.0 | 18.0 | 22.0 | 39.8 | 32.6 | 54.5 | 10.6 | 12.7 | 11.2 | 9.1 | 8.7 |
| Bureau of Labor Statistics | .8 | .9 | .8 | .9 | .9 | .3 | .3 | .7 | .5 | .6 | .6 |
| Employment Standards Admin | 4.3 | 4.4 | 3.7 | 5.3 | 4.9 | 3.2 | 1.4 | 1.4 | .9 | - | .0 |
| Employment & Training Admin | 6.9 | 5.8 | 11.4 | 24.2 | 16.2 | 45.1 | 2.1 | 2.6 | 1.0 | .3 | 2.6 |
| Labor-Management Relations & Cooperative Programs ¹ | NA | NA | NA | NA | NA | NA | NA | NA | .3 | .3 | .2 |
| Labor-Management Services Administration ¹ | .4 | 3.2 | 2.6 | 2.7 | 2.8 | 1.8 | .7 | .9 | NA | NA | NA |
| Occupational Safety & Health Administration | 2.9 | 3.4 | 1.3 | 5.1 | 6.3 | 3.0 | 4.9 | 5.3 | 5.1 | 4.5 | 3.6 |
| Office of the Secretary | 1.8 | .2 | 2.2 | 1.6 | 1.4 | 1.1 | .9 | 1.5 | 1.9 | 1.7 | 1.3 |
| Pension Benefit Guaranty Corp .. | NA | NA | NA | NA | NA | .1 | .3 | .3 | .3 | .2 | .1 |
| Pension & Welfare Benefits Administration | NA | NA | NA | NA | NA | NA | NA | NA | 1.2 | 1.6 | .3 |
| Department of State, total ² | 25.1 | 38.3 | 49.1 | 2.6 | 2.0 | 1.6 | 1.5 | 1.5 | 1.6 | 1.5 | 1.5 |
| Agcy for Internat'l Dvlpmt ² | 24.0 | 36.2 | 46.6 | NA | NA | NA | NA | NA | NA | NA | NA |
| Departmental Funds | 1.1 | 2.1 | 2.5 | 2.6 | 2.0 | 1.6 | .0 | .0 | .0 | .0 | .0 |
| Dept of Transportation, total | 31.1 | 51.8 | 66.5 | 67.0 | 82.4 | 87.4 | 65.7 | 71.7 | 74.2 | 70.2 | 67.6 |
| Coast Guard | 2.6 | 2.5 | 2.3 | 10.9 | 8.1 | 14.7 | 1.7 | .8 | 7.2 | 5.4 | 3.5 |
| Federal Aviation Admin | 3.6 | 4.7 | 6.8 | 7.5 | 8.2 | 8.2 | 7.0 | 12.5 | 15.0 | 17.3 | 14.0 |
| Federal Highway Admin | 1.9 | 5.3 | 4.9 | 4.4 | 4.6 | 5.1 | 5.3 | 7.3 | 6.1 | 6.3 | 14.7 |
| Federal Railroad Admin | 8.6 | 6.6 | 9.2 | 7.5 | 7.9 | 6.2 | 3.1 | 2.8 | 12.3 | 11.4 | 12.5 |
| Federal Transit Admin | .6 | 1.0 | 1.1 | 1.1 | 8.9 | 9.3 | 19.4 | 18.3 | 1.0 | .5 | .0 |
| Maritime Administration ⁴ | NA | NA | NA | NA | NA | 8.9 | 5.6 | 5.7 | 5.1 | 7.0 | 6.2 |
| National Highway Traffic Safety Administration | 9.9 | 27.5 | 38.0 | 30.0 | 38.6 | 29.4 | 21.3 | 21.4 | 24.7 | 20.9 | 16.1 |
| Office of the Secretary | 3.9 | 4.2 | 4.1 | .6 | .6 | .7 | .3 | .3 | .9 | .9 | .4 |
| Rsch & Special Programs Administration | NA | .0 | .1 | 5.0 | 5.5 | 4.9 | 2.1 | 2.6 | 1.8 | .5 | .3 |
| Dept of the Treasury, total | 1.5 | 2.1 | 4.1 | 4.5 | 4.0 | 2.9 | 5.9 | 6.7 | 6.6 | 13.6 | 12.7 |
| Bureau of Alcohol, Tobacco, & Firearms | .0 | .4 | .4 | .7 | .3 | .1 | NA | NA | NA | NA | NA |
| Bureau of Engraving & Printing | 1.5 | 1.7 | 1.9 | .6 | 1.3 | .9 | 2.8 | 1.4 | 1.4 | 3.1 | 2.7 |
| Internal Revenue Service | .0 | .0 | 1.8 | 3.3 | 2.2 | 1.8 | 3.1 | 5.0 | 4.9 | 10.2 | 9.5 |
| United States Customs Svc | .0 | .0 | .0 | .0 | .1 | .1 | - | .0 | .1 | .1 | .2 |
| United States Secret Service | NA | NA | NA | NA | .0 | .0 | .0 | .3 | .1 | .2 | .2 |
| Department of Veterans Affairs | 76.2 | 83.2 | 90.5 | 101.8 | 103.6 | 112.7 | 110.1 | 132.0 | 156.1 | 193.7 | 155.1 |
| Other agencies: | | | | | | | | | | | |
| ACTION | - | - | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Advisory Commission on Intergovernmental Relations | 1.0 | 1.5 | 1.7 | 1.7 | 2.2 | 2.2 | 2.0 | 2.1 | 2.1 | 2.4 | 2.1 |
| Appalachian Regional Comm | .7 | .6 | .3 | .7 | .6 | .3 | .3 | .2 | .4 | .2 | .2 |
| Civil Service Commission | .8 | .7 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Community Services Admin | .0 | 1.0 | 2.0 | 1.8 | 1.3 | 1.9 | NA | NA | NA | NA | NA |
| Consumer Product Safety Comm .. | 3.5 | 3.7 | .9 | 1.8 | 1.6 | .2 | .1 | .3 | 1.1 | 1.4 | 1.1 |
| Energy Rsch & Dvlpmt Admin ³ | 400.7 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Environmental Protection Agcy | 141.7 | 197.0 | 246.7 | 248.9 | 231.5 | 207.8 | 210.7 | 152.4 | 142.3 | 176.0 | 179.3 |
| Federal Communications Comm | 1.5 | 2.0 | 2.4 | 2.9 | 3.4 | 1.8 | 1.2 | 1.3 | .9 | 1.2 | .9 |
| Federal Emergency Management Agency, total ^{6 5} | NA | NA | 1.9 | 6.7 | 6.7 | 6.4 | 7.8 | 3.3 | 6.1 | 2.9 | .0 |
| National Fire Prevention & Control Administration ⁵ | NA | NA | 1.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Federal Energy Administration | 1.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Federal Trade Commission | .6 | .8 | .9 | 1.1 | 1.5 | .2 | .2 | .2 | .2 | .3 | .3 |
| Foundation for Educational Assistance ⁷ | NA | NA | NA | NA | NA | 33.2 | NA | NA | NA | NA | NA |
| General Services Admin ¹³ | .3 | .3 | .4 | .1 | .1 | .4 | .5 | .2 | .4 | .3 | .9 |

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

**Table C-98. Federal obligations for applied research, by selected agency:
fiscal years 1976-86**

[Dollars in millions]

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| Selected agency | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
|--|-------|-------|-------|-------|---------|-------|-------|-------|-------|---------|---------|
| International Development Cooperation Agcy, total ² | NA | NA | NA | 66.9 | 79.7 | 86.4 | 127.9 | 152.6 | 164.0 | 158.1 | 180.7 |
| Agcy for Internat'l Dvlpmt ² | NA | NA | NA | 66.9 | 79.7 | 86.4 | 127.9 | 152.6 | 164.0 | 158.1 | 180.7 |
| Interstate Commerce Comm | 0.1 | 0.1 | 0.3 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | .0 |
| Library of Congress | .3 | .3 | .4 | .5 | .5 | .7 | .7 | 1.0 | 1.5 | 1.5 | 1.1 |
| National Aeronautics & Space Administration | 929.6 | 792.3 | 865.4 | 938.4 | 1,050.5 | 876.0 | 871.4 | 927.8 | 954.7 | 1,032.7 | 1,152.3 |
| National Archives & Records Administration ³ | NA | NA | NA | NA | NA | NA | NA | NA | NA | .1 | .0 |
| National Science Foundation | 72.1 | 63.4 | 65.5 | 66.8 | 58.4 | 58.9 | 57.1 | 62.9 | 70.5 | 83.8 | 78.1 |
| Nuclear Regulatory Commission | 88.4 | 112.3 | 133.9 | 148.8 | 182.7 | 219.7 | 220.3 | 207.3 | 190.7 | 150.0 | 123.8 |
| Office of Personnel Management | NA | NA | 1.0 | 1.4 | 2.6 | 3.4 | .0 | .0 | .0 | .0 | .0 |
| Office of Telecommunications Policy | 1.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Office of Thrift Supervision | .8 | 1.7 | 1.0 | .9 | 1.2 | 1.0 | 2.7 | 3.0 | 2.6 | 2.8 | 3.3 |
| Small Business Administration | .1 | .5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Tennessee Valley Authority | 16.5 | 19.3 | 9.7 | 12.4 | 11.2 | 9.4 | 8.1 | 6.7 | 9.2 | 8.9 | 10.5 |
| United States Arms Control & Disarmament Agency | 1.4 | 1.8 | 2.5 | 2.7 | 3.0 | 1.6 | 1.3 | .8 | 1.2 | 1.1 | .9 |
| US Information Agency ⁴ | .1 | .1 | .1 | .1 | .1 | 1.0 | .0 | - | 1.4 | .1 | 1.6 |
| US Internat'l Trade Comm | 1.5 | 2.6 | 3.1 | 3.4 | 2.1 | 3.4 | 3.8 | 4.7 | 5.0 | 5.8 | 6.9 |

- 1 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.
- 2 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 1977-79.
- 3 Data reported for the Economics & Statistics Service include programs of the Economic Research Service and the Statistical Reporting Service for fiscal year 1980.
- 4 In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.
- 5 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.
- 6 Functions for the Defense Civil Preparedness Agency transferred from the Department of Defense to the Federal Emergency Management Agency on July 20, 1979.
- 7 The 1983 Budget of the United States Government proposed that the Department of Education be replaced by the Foundation for Educational Assistance.
- 8 In 1977 the Energy Research & Development Administration became part of the Department of Energy.
- 9 In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.
- 10 As of 1985 the Office of Water Research & Technology has been combined with the Geological Survey.
- 11 In 1984 the Labor-Management Services Administration was replaced by Labor-Management Relations & Cooperative Programs.
- 12 The Agency for International Development transferred from the Department of State to the International Development Cooperative Agency on Oct. 1, 1979.
- 13 As of 1985 the National Archives & Records Administration is separate from the General Services Administration.
- 14 Data reported for the United States Information Agency include funds for the former International Communication Agency for fiscal years 1977-81.

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.

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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

**Table C-98a. Federal obligations for applied research, by selected agency:
fiscal years 1987-97**

[Dollars in millions]

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| Selected agency | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | Preliminary | |
|--|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | | | | | | | | | | 1996 | 1997 |
| Total, all agencies | 8,998.1 | 9,176.5 | 10,163.5 | 10,336.8 | 11,797.6 | 12,000.7 | 13,491.4 | 13,887.5 | 14,677.9 | 14,095.7 | 14,441.3 |
| Departments: | | | | | | | | | | | |
| Dept of Agriculture, total | 473.4 | 504.6 | 517.3 | 542.1 | 617.9 | 665.8 | 635.8 | 715.9 | 704.6 | 685.8 | 678.4 |
| Agricultural Cooperative Svc | 2.7 | 2.7 | 2.8 | 2.7 | 2.8 | 3.4 | 2.9 | 3.7 | NA | NA | NA |
| Agricultural Marketing Svc ¹ | 1.2 | 1.3 | 1.3 | 1.7 | 3.7 | 4.1 | 4.1 | 4.2 | 4.2 | 4.2 | 4.3 |
| Agricultural Research Svc ² | 201.1 | 208.2 | 209.4 | 218.2 | 241.1 | 257.1 | 233.3 | 257.9 | 259.6 | 258.7 | 264.7 |
| Animal & Plant Health Inspection Service | 4.9 | 5.6 | 7.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Cooperative State Rsch, Ed, & Extension Service ³ | 138.0 | 152.6 | 164.7 | 170.5 | 206.4 | 228.6 | 226.2 | 234.3 | 231.7 | 225.4 | 208.9 |
| Economic Research Service | 38.5 | 41.4 | 42.6 | 43.5 | 46.8 | 50.6 | 48.3 | 45.3 | 48.4 | 47.8 | 49.5 |
| Foreign Agricultural Svc ⁴ | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | .1 | .4 | .4 |
| Forest Service | 73.5 | 79.9 | 77.5 | 93.5 | 103.6 | 106.9 | 107.8 | 156.5 | 154.8 | 142.4 | 143.8 |
| Grain Inspection Packers & Stockyards Administration ⁵ | .7 | .6 | .8 | .2 | .7 | 1.5 | 1.8 | 1.8 | 1.5 | 2.8 | 2.8 |
| Human Nutrition Information Service ² | 6.8 | 8.2 | 8.4 | 9.0 | 9.9 | 10.7 | 8.4 | 7.0 | NA | NA | NA |
| National Agricultural Statistics Service | 2.3 | 2.4 | 1.9 | 1.9 | 2.2 | 2.4 | 2.6 | 2.6 | 2.7 | 2.6 | 2.6 |
| Office of International Cooperation & Dvlpmt ⁴ | 3.3 | 1.2 | .6 | .9 | .7 | .4 | .4 | .0 | NA | NA | NA |
| Office of Transportation | .4 | .4 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Rural Business-Cooperative Service ⁶ | NA | NA | NA | NA | NA | NA | NA | 2.4 | 1.6 | 1.4 | 1.4 |
| Department of Commerce, total | 312.8 | 311.5 | 321.9 | 345.6 | 415.4 | 561.4 | 544.9 | 678.2 | 853.1 | 860.5 | 829.8 |
| Bureau of the Census | 2.1 | 2.4 | 1.8 | 2.1 | 2.3 | 2.4 | 2.9 | 2.5 | 2.6 | 2.6 | 2.6 |
| Economic Development Admin | 5.0 | 4.2 | 1.0 | 1.2 | 1.4 | .5 | .0 | .6 | .5 | .5 | 1.5 |
| National Institute of Standards & Technology | 64.3 | 72.6 | 77.6 | 83.2 | 92.5 | 115.8 | 136.4 | 167.5 | 333.1 | 371.8 | 327.8 |
| National Oceanic & Atmospheric Administration | 234.4 | 225.0 | 234.6 | 252.4 | 315.6 | 438.7 | 401.4 | 502.7 | 510.4 | 481.2 | 493.1 |
| National Telecommunications & Information Administration | 7.0 | 7.3 | 6.9 | 6.8 | 3.6 | 4.0 | 4.2 | 4.8 | 6.4 | 4.5 | 4.7 |
| Office of the Secretary | - | .0 | .0 | .0 | .0 | .0 | .0 | .0 | - | - | .0 |
| Department of Defense, total | 2,440.0 | 2,362.2 | 2,708.2 | 2,581.6 | 2,723.8 | 2,974.5 | 3,515.2 | 3,040.0 | 3,069.8 | 2,814.3 | 2,715.8 |
| Department of the Army | 692.9 | 588.0 | 636.3 | 595.2 | 671.9 | 727.8 | 802.8 | 639.3 | 633.3 | 458.6 | 467.3 |
| Department of the Navy | 432.5 | 406.0 | 429.2 | 442.6 | 486.0 | 499.0 | 574.1 | 447.0 | 470.5 | 568.3 | 467.0 |
| Department of the Air Force | 563.2 | 576.7 | 604.6 | 579.3 | 621.2 | 584.7 | 669.1 | 571.9 | 627.7 | 648.1 | 638.6 |
| Defense Agencies | 751.3 | 791.5 | 1,038.1 | 964.6 | 944.7 | 1,162.9 | 1,469.2 | 1,381.7 | 1,338.3 | 1,139.2 | 1,142.9 |
| Department of Education | 103.8 | 106.6 | 117.5 | 125.3 | 123.1 | 119.5 | 128.3 | 131.2 | 132.8 | 138.2 | 139.8 |
| Department of Energy | 1,029.4 | 1,050.6 | 1,020.8 | 1,065.7 | 1,587.2 | 1,676.1 | 1,685.4 | 1,679.2 | 1,825.6 | 1,342.8 | 1,540.6 |

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

**Table C-98a. Federal obligations for applied research, by selected agency:
fiscal years 1987-97**

[Dollars in millions]

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| Selected agency | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | Preliminary | |
|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------------|---------|
| | | | | | | | | | | 1996 | 1997 |
| Department of Health & Human Services, total | 2,194.0 | 2,415.6 | 2,700.4 | 2,818.1 | 3,112.4 | 2,886.8 | 3,495.9 | 3,852.5 | 4,014.9 | 4,083.1 | 4,209.9 |
| Administration on Aging ⁷ | NA | NA | NA | NA | 2.9 | 2.5 | 2.7 | 3.5 | 3.0 | .0 | .0 |
| Administration for Children & Families ^{8 7} | NA | NA | NA | NA | 13.5 | 34.3 | 18.5 | 10.4 | 11.2 | 8.3 | 17.5 |
| Agency for Health Care Policy & Research ⁹ | NA | NA | NA | 44.2 | 93.0 | 97.8 | 105.6 | 141.2 | 124.0 | 59.0 | 77.0 |
| Alcohol, Drug Abuse, & Mental Health Administration ¹⁰ | 241.1 | 286.6 | 384.7 | 415.0 | 463.9 | NA | NA | NA | NA | NA | NA |
| Centers for Disease Control & Prevention | 66.2 | 88.7 | 117.8 | 95.6 | 113.4 | 146.9 | 162.5 | 206.8 | 317.4 | 323.2 | 361.2 |
| Food & Drug Administration | 85.0 | 91.0 | 99.0 | 99.0 | 125.0 | 135.7 | 154.5 | 169.4 | 170.5 | 170.5 | 170.5 |
| Health Care Financing Admin | 27.3 | 28.2 | 49.1 | 49.1 | 69.1 | 75.5 | 68.2 | 80.0 | 74.5 | 54.5 | 55.3 |
| Hlth Resources & Svcs Admin | 8.0 | 9.0 | 9.3 | 10.7 | 9.5 | 8.8 | 8.5 | 9.8 | 11.2 | 11.0 | 10.9 |
| Human Development Svcs ⁷ | 9.4 | 7.1 | 8.5 | 7.7 | NA | NA | NA | NA | NA | NA | NA |
| National Insts of Health ¹⁰ | 1,739.1 | 1,885.6 | 2,008.5 | 2,074.1 | 2,193.5 | 2,341.3 | 2,942.9 | 3,197.4 | 3,273.6 | 3,447.7 | 3,508.5 |
| Office of the Assistant Secretary for Health ⁹ | .0 | .0 | .0 | 5.8 | 9.6 | 6.0 | .0 | .0 | .0 | .0 | .0 |
| Office of the Secretary | 8.2 | 4.7 | 7.8 | 5.0 | 8.8 | 5.0 | 8.0 | 11.7 | 9.1 | 9.0 | 9.0 |
| Social Security Admin ¹¹ | 9.8 | 14.7 | 15.8 | 11.8 | 10.2 | 33.0 | 24.5 | 22.2 | 20.4 | NA | NA |
| Dept of Housing & Urban Dvlpmt ... | 5.5 | 6.3 | 6.1 | 6.6 | 9.4 | 8.8 | 8.1 | 13.7 | 14.2 | 12.2 | 16.7 |
| Dept of the Interior, total | 247.3 | 266.0 | 253.0 | 269.8 | 324.1 | 339.7 | 349.8 | 566.9 | 477.3 | 483.7 | 489.2 |
| Bureau of Land Management | 2.1 | 2.2 | 2.0 | 2.1 | 4.8 | 5.3 | 7.4 | .0 | .0 | .0 | .0 |
| Bureau of Mines | 39.6 | 54.1 | 49.3 | 49.3 | 56.2 | 59.2 | 60.4 | 70.0 | .0 | NA | NA |
| Bureau of Reclamation | 10.1 | 3.6 | 3.5 | 5.2 | 7.7 | 10.7 | 7.4 | 5.5 | 6.0 | 4.5 | 5.7 |
| Geological Survey ¹² | 131.7 | 135.8 | 126.8 | 134.2 | 159.3 | 164.3 | 165.9 | 311.9 | 306.2 | 439.1 | 442.6 |
| Minerals Management Service ... | 1.0 | 1.2 | 2.2 | 1.9 | 2.7 | 3.8 | 5.8 | 20.6 | 20.0 | 20.8 | 20.6 |
| Nat'l Biological Svc ^{13 12} | NA | NA | NA | NA | NA | NA | .0 | 135.4 | 125.8 | NA | NA |
| National Park Service ¹³ | 18.5 | 19.4 | 19.4 | 20.1 | 27.5 | 31.1 | 37.5 | 23.6 | 19.2 | 19.4 | 20.3 |
| Office of the Secretary | .0 | .1 | .0 | .0 | .1 | .2 | .2 | .0 | .0 | .0 | .0 |
| Office of Surface Mining Reclamation & Enforcement ... | 1.0 | 1.0 | .7 | .7 | 1.0 | .3 | .5 | .0 | .0 | .0 | .0 |
| US Fish & Wildlife Svc ¹³ | 43.3 | 48.7 | 49.1 | 56.4 | 64.8 | 64.8 | 64.8 | .0 | .0 | .0 | .0 |
| Department of Justice, total | 11.8 | 9.8 | 10.7 | 11.1 | 14.7 | 15.0 | 20.5 | 20.0 | 17.7 | 18.9 | 22.8 |
| Bureau of Prisons ¹⁴ | 2.2 | 2.1 | 2.1 | 1.8 | 1.9 | 2.5 | 2.5 | 2.1 | 3.2 | 1.9 | 1.9 |
| Drug Enforcement Admin | .7 | .6 | .5 | .4 | .9 | .1 | .1 | .1 | .0 | .1 | .1 |
| Immigration & Naturalization Service | .2 | .3 | .1 | .4 | .4 | .4 | .4 | .4 | .4 | .4 | .4 |
| Office of Justice Programs | 8.6 | 6.8 | 8.0 | 8.5 | 11.5 | 12.0 | 17.6 | 17.4 | 14.1 | 16.6 | 20.5 |
| Office of Legal Policy | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Department of Labor, total | 19.0 | 26.4 | 21.8 | 21.3 | 24.0 | 23.6 | 13.4 | 13.7 | 16.6 | 13.2 | 12.5 |
| Bureau of Labor Statistics | 6.5 | 7.0 | 7.0 | 7.3 | 7.5 | 7.6 | 1.5 | 1.5 | 1.5 | 1.8 | 1.3 |
| Employment Standards Admin | 1.0 | .1 | .1 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Employment & Training Admin | 4.0 | 6.5 | 5.7 | 5.7 | 6.3 | 5.4 | 3.3 | 2.9 | 4.2 | 3.0 | 2.4 |
| Labor-Management Relations & Cooperative Programs | .3 | .4 | .3 | NA | NA | NA | NA | NA | NA | NA | NA |
| Occupational Safety & Health Administration | 4.1 | 4.2 | 4.5 | 2.5 | 2.6 | 3.1 | 2.5 | 3.3 | 4.4 | 3.2 | 3.5 |
| Office of the Secretary | 1.8 | 5.2 | 2.5 | 3.3 | 4.7 | 4.1 | 2.9 | 3.1 | 2.9 | 2.9 | 2.9 |
| Pension Benefit Guaranty Corp .. | .3 | .3 | .3 | .3 | .4 | .8 | .7 | .3 | .1 | .1 | .1 |
| Pension & Welfare Benefits Administration | 1.0 | 2.7 | 1.4 | 2.1 | 2.5 | 2.6 | 2.6 | 2.7 | 3.6 | 2.3 | 2.3 |
| Department of State ¹⁵ | .3 | 1.0 | 1.3 | 1.2 | 1.3 | .7 | .5 | .4 | .5 | .5 | .5 |

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

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**Table C-98a. Federal obligations for applied research, by selected agency:
fiscal years 1987-97**

[Dollars in millions]

| Selected agency | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | Preliminary | |
|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------------|---------|
| | | | | | | | | | | 1996 | 1997 |
| Dept of Transportation, total | 68.6 | 91.2 | 120.5 | 119.2 | 114.6 | 155.7 | 224.4 | 270.4 | 323.9 | 288.3 | 340.0 |
| Coast Guard | 3.7 | 5.4 | 4.6 | 5.1 | 6.4 | 5.0 | 8.2 | 5.6 | 4.9 | 5.0 | 4.9 |
| Federal Aviation Admin | 11.1 | 13.3 | 23.6 | 26.1 | 24.0 | 30.1 | 59.8 | 79.5 | 83.3 | 60.4 | 67.6 |
| Federal Highway Admin | 20.7 | 43.7 | 56.6 | 57.6 | 46.1 | 72.0 | 90.1 | 131.2 | 156.3 | 152.4 | 181.0 |
| Federal Railroad Admin | 10.4 | 8.2 | 7.5 | 8.5 | 13.2 | 18.9 | 20.9 | 16.1 | 22.5 | 19.9 | 23.5 |
| Federal Transit Admin ¹⁶ | .0 | .0 | .0 | .0 | .0 | .0 | 10.9 | 7.8 | 10.9 | 5.5 | 5.8 |
| Maritime Administration | 3.1 | .5 | .0 | .9 | 1.7 | 1.8 | 1.7 | 1.7 | 2.5 | .0 | 2.0 |
| National Highway Traffic Safety Administration | 18.9 | 19.1 | 26.2 | 16.9 | 21.4 | 25.8 | 31.6 | 25.3 | 39.7 | 38.2 | 45.7 |
| Office of the Secretary Rsch & Special Programs Administration | .4 | .7 | 1.3 | 1.7 | .6 | .7 | .6 | .6 | .6 | .0 | .0 |
| Administration | .2 | .4 | .7 | 2.4 | 1.4 | 1.4 | .5 | 2.6 | 3.2 | 6.9 | 9.5 |
| Dept of the Treasury, total | 12.7 | 11.1 | 13.0 | 15.3 | 20.6 | 17.2 | 4.6 | 9.2 | 48.9 | 50.2 | 53.9 |
| Bureau of Engraving & Printing | 2.7 | 1.1 | .9 | 1.4 | 2.7 | 1.8 | 3.2 | 1.6 | 1.3 | 1.2 | 1.1 |
| Internal Revenue Svc ^{17 18} | 9.7 | 9.0 | 11.3 | 13.1 | 13.9 | 13.9 | .0 | 6.1 | 45.8 | 47.2 | 50.8 |
| Off of Thrift Supervision ¹⁹ | NA | NA | NA | .0 | 3.0 | .8 | .7 | .5 | .6 | .5 | .6 |
| United States Customs Svc | .2 | .7 | .4 | .4 | .5 | .2 | .1 | .5 | .7 | .7 | .7 |
| US Secret Service ²⁰ | .1 | .3 | .4 | .5 | .4 | .5 | .6 | .5 | .5 | .6 | .6 |
| Department of Veterans Affairs | 173.1 | 178.8 | 197.1 | 199.4 | 177.7 | 185.2 | 194.1 | 209.1 | 206.4 | 239.4 | 222.5 |
| Other agencies: | | | | | | | | | | | |
| Advisory Commission on Intergovernmental Relations | 1.9 | 1.8 | 1.1 | 1.5 | 1.7 | 1.7 | 2.1 | 1.4 | 1.4 | 1.4 | .0 |
| Appalachian Regional Comm | .1 | .2 | .8 | .4 | .7 | 1.9 | .9 | .9 | .9 | .9 | .9 |
| Consumer Product Safety Comm ... | .6 | .1 | .5 | .4 | .9 | .8 | .8 | .1 | .0 | .0 | .0 |
| Environmental Protection Agcy | 246.1 | 240.7 | 222.6 | 241.6 | 261.9 | 293.9 | 272.4 | 301.0 | 331.3 | 286.3 | 335.5 |
| Federal Communications Comm | 1.0 | 1.2 | 1.1 | 1.3 | 1.4 | 1.6 | 1.6 | 1.7 | 2.3 | 2.8 | 2.7 |
| Federal Trade Commission | .5 | .4 | .4 | .5 | 1.0 | 1.3 | .9 | .7 | .6 | 1.0 | 1.0 |
| General Services Admin | 1.6 | 2.3 | .5 | .7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| International Development Cooperation Agcy, total | 151.2 | 132.1 | 216.0 | 300.2 | 351.7 | 294.2 | 350.8 | 214.4 | 270.4 | 224.3 | 167.9 |
| Agcy for Internat'l Dvlpmt ¹⁵ | 151.2 | 132.1 | 216.0 | 300.2 | 351.7 | 294.2 | 350.8 | 214.4 | 270.4 | 224.3 | 167.9 |
| Library of Congress | 1.1 | 1.2 | 1.2 | 1.2 | 1.3 | 1.4 | 1.4 | 1.5 | 1.6 | 1.4 | 1.4 |
| National Aeronautics & Space Administration | 1,255.5 | 1,218.9 | 1,461.4 | 1,423.8 | 1,665.6 | 1,491.1 | 1,748.6 | 1,876.7 | 2,067.9 | 2,272.3 | 2,355.6 |
| Nat'l Archives & Records Admin | .3 | .3 | .1 | .1 | .3 | .1 | .1 | .1 | .1 | .1 | .1 |
| National Science Foundation | 99.3 | 99.6 | 107.8 | 103.3 | 109.0 | 126.9 | 138.1 | 169.7 | 176.0 | 174.0 | 189.3 |
| Nuclear Regulatory Commission | 122.5 | 108.5 | 114.8 | 108.8 | 108.8 | 119.0 | 119.8 | 90.7 | 88.2 | 59.2 | 59.0 |
| Office of Thrift Supervision ¹⁹ | 3.4 | 3.4 | 4.1 | 4.1 | NA | NA | NA | NA | NA | NA | NA |
| Social Security Admin ¹¹ | NA | NA | NA | NA | NA | NA | NA | NA | NA | 8.3 | 27.7 |

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

**Table C-98a. Federal obligations for applied research, by selected agency:
fiscal years 1987-97**

[Dollars in millions]

| Selected agency | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | Preliminary | |
|--|------|------|------|------|------|------|------|------|------|-------------|------|
| | | | | | | | | | | 1996 | 1997 |
| Tennessee Valley Authority | 13.8 | 15.3 | 11.7 | 17.0 | 16.9 | 22.2 | 18.1 | 17.0 | 17.4 | 19.3 | 14.2 |
| United States Arms Control & Disarmament Agency ²¹ | .4 | .8 | 1.2 | .2 | .4 | 2.1 | 1.5 | 1.3 | 1.1 | .5 | 1.0 |
| US Information Agency | .0 | .1 | .0 | .5 | .1 | .0 | 1.1 | .6 | .3 | .2 | .1 |
| US Internat'l Trade Comm | 7.2 | 8.1 | 8.7 | 9.1 | 9.9 | 12.3 | 12.2 | 9.4 | 12.2 | 12.7 | 12.5 |

- 1 Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.
- 2 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 3 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.
- 4 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.
- 5 The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.
- 6 This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.
- 7 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.
- 8 Obligations reported for the Administration for Children & Families may be incomplete for fiscal year 1992 due to unavailability of data.
- 9 In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.
- 10 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.
- 11 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.
- 12 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.
- 13 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.
- 14 The Bureau of Prisons was formerly listed as the Federal Prison System.
- 15 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.
- 16 The name of this agency changed from the Urban Mass Transit Administration to the Federal Transit Administration on Dec. 18, 1991.
- 17 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.
- 18 Large changes in obligations reported by the Internal Revenue Service for Vol. 44 are due to shifts in research funding.
- 19 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.
- 20 The United States Secret Service was formerly listed as the Office of Protective Research.
- 21 Fiscal year 1994 figures for the United States Arms Control & Disarmament Agency are estimates based on the agency's Vol. 43 submission.

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.

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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

**Table C-99. Federal obligations for development, by selected agency:
fiscal years 1976-86**

[Dollars in millions]

| Selected agency | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
|---|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Total, all agencies | 13,160.3 | 14,936.3 | 16,238.4 | 17,610.1 | 18,233.1 | 20,891.1 | 23,410.4 | 24,458.0 | 27,246.1 | 32,226.1 | 34,910.2 |
| Departments: | | | | | | | | | | | |
| Dept of Agriculture, total | 20.2 | 22.9 | 26.8 | 31.1 | 30.2 | 33.0 | 30.8 | 30.0 | 31.3 | 32.0 | 32.1 |
| Agricultural Marketing Svc ¹ | .0 | .0 | .0 | .5 | .3 | .2 | .2 | .3 | .3 | .3 | .3 |
| Agricultural Research Svc | NA | NA | NA | NA | NA | 26.2 | 25.8 | 25.5 | 27.0 | 27.7 | 27.4 |
| Economics, Statistics, & Cooperative Svc, total ² | .3 | .8 | .0 | .0 | NA | NA | NA | NA | NA | NA | NA |
| Statistical Reporting Svc | .3 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Forest Service | 5.4 | 4.2 | 5.0 | 5.0 | 5.5 | 6.2 | 4.5 | 3.8 | 3.3 | 3.3 | 3.6 |
| Grain Inspection Packers & Stockyards Administration | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .2 | .3 |
| Office of International Cooperation & Development | NA | NA | NA | .0 | .4 | .3 | .2 | .4 | .7 | .4 | .3 |
| Office of Transportation | NA | NA | NA | .7 | .8 | .1 | .1 | .1 | .1 | .2 | .1 |
| Science & Ed Admin, total | 14.5 | 18.0 | 21.8 | 24.9 | 23.3 | NA | NA | NA | NA | NA | NA |
| Agricultural Research Svc | 14.5 | 18.0 | 21.8 | 24.9 | 23.3 | NA | NA | NA | NA | NA | NA |
| Department of Commerce, total | 73.1 | 68.6 | 90.9 | 89.9 | 88.1 | 78.6 | 60.2 | 50.2 | 61.5 | 74.6 | 59.7 |
| Bureau of the Census | .4 | .6 | 1.1 | 1.2 | 1.2 | .9 | 1.9 | 2.1 | 2.1 | 2.4 | 2.1 |
| Economic Development Admin | 13.0 | 12.5 | 32.6 | 34.6 | 29.8 | 26.3 | 8.0 | .0 | .0 | 11.0 | 8.0 |
| Maritime Administration ³ | 14.0 | 11.1 | 12.6 | 7.4 | 7.3 | NA | NA | NA | NA | NA | NA |
| Minority Business Dvlpmt Agcy | 1.6 | 2.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| National Fire Prevention & Control Administration ⁴ | 3.2 | 2.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| National Institute of Standards & Technology | 9.9 | 8.3 | 9.8 | 16.0 | 17.3 | 16.3 | 14.9 | 13.6 | 11.8 | 14.0 | 11.6 |
| National Oceanic & Atmospheric Administration | 30.2 | 29.9 | 33.5 | 28.5 | 30.9 | 32.9 | 33.5 | 33.1 | 46.6 | 45.4 | 37.2 |
| National Telecommunications & Information Administration | NA | .9 | .7 | 1.7 | 1.1 | 1.1 | 1.2 | 1.4 | .9 | 1.2 | .8 |
| Office of the Secretary | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .1 | .6 | .0 |
| Office of Telecommunications Patent & Trademark Office | .5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Patent & Trademark Office | .2 | .5 | .5 | .5 | .5 | 1.1 | .7 | .0 | .0 | .0 | .0 |
| Department of Defense, total | 8,127.2 | 9,247.5 | 9,729.6 | 10,492.1 | 11,719.2 | 13,907.7 | 17,669.8 | 19,770.1 | 22,324.3 | 26,623.2 | 29,710.7 |
| Department of the Army | 1,651.3 | 2,043.9 | 2,139.1 | 2,320.1 | 2,500.7 | 2,707.7 | 3,121.3 | 3,304.5 | 3,516.8 | 3,747.4 | 3,982.1 |
| Department of the Navy | 2,890.1 | 3,320.0 | 3,472.1 | 3,767.7 | 4,095.0 | 4,308.0 | 5,066.4 | 5,241.2 | 6,840.2 | 8,336.1 | 8,865.9 |
| Department of the Air Force | 3,344.3 | 3,605.3 | 3,813.6 | 4,033.4 | 4,673.7 | 6,351.9 | 8,724.0 | 10,124.2 | 11,351.5 | 12,524.3 | 12,834.8 |
| Defense Agencies | 217.5 | 248.0 | 276.2 | 341.7 | 411.9 | 499.1 | 717.1 | 1,038.7 | 557.3 | 1,964.8 | 3,910.7 |
| Test & Evaluation, Deputy Under Secretary of Defense | 24.1 | 30.2 | 28.6 | 29.3 | 37.9 | 41.1 | 41.0 | 61.6 | 58.6 | 50.6 | 117.1 |
| Department of Education ⁵ | NA | NA | NA | 72.9 | 51.8 | .0 | 57.5 | 35.6 | 34.8 | 33.0 | 25.5 |
| Department of Energy ^{6 7} | NA | 2,645.0 | 3,142.6 | 3,506.9 | 3,476.4 | 3,504.6 | 3,012.1 | 2,575.6 | 2,648.7 | 2,825.0 | 2,648.0 |
| Department of Health, Education, & Welfare, total | 432.8 | 409.0 | 466.5 | NA | NA | NA | NA | NA | NA | NA | NA |
| Alcohol, Drug Abuse, & Mental Health Administration | 2.8 | 1.0 | 1.4 | NA | NA | NA | NA | NA | NA | NA | NA |
| Health Resources Admin | 7.2 | .0 | .5 | NA | NA | NA | NA | NA | NA | NA | NA |
| Health Services Admin | 8.0 | 8.1 | 7.6 | NA | NA | NA | NA | NA | NA | NA | NA |
| National Inst of Education | 52.9 | 37.8 | 54.9 | NA | NA | NA | NA | NA | NA | NA | NA |
| National Insts of Health | 292.6 | 311.2 | 348.3 | NA | NA | NA | NA | NA | NA | NA | NA |
| Office of Assistant Secretary for Health | .0 | 3.6 | 3.6 | NA | NA | NA | NA | NA | NA | NA | NA |
| Office of Education | 36.8 | 19.2 | 19.6 | NA | NA | NA | NA | NA | NA | NA | NA |
| Office of Human Dvlpmt Svcs | 27.3 | 28.1 | 30.7 | NA | NA | NA | NA | NA | NA | NA | NA |
| Social Security Admin | 5.3 | .0 | .0 | NA | NA | NA | NA | NA | NA | NA | NA |

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

**Table C-99. Federal obligations for development, by selected agency:
fiscal years 1976-86**

[Dollars in millions]

| Selected agency | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Department of Health & Human Services, total | NA | NA | NA | 489.2 | 447.4 | 434.9 | 335.2 | 331.7 | 364.7 | 422.7 | 468.0 |
| Alcohol, Drug Abuse, & Mental Health Administration | NA | NA | NA | .7 | .0 | 1.8 | 2.1 | 1.8 | 1.2 | 1.1 | 1.2 |
| Hlth Resources & Svcs Admin | NA | NA | NA | NA | NA | NA | 3.4 | 2.3 | 2.3 | 1.5 | .0 |
| Health Services Admin | NA | NA | NA | 18.5 | 18.7 | 10.1 | NA | NA | NA | NA | NA |
| Human Development Services | NA | NA | NA | 42.2 | 30.1 | 33.8 | 18.5 | 16.6 | 13.8 | 18.5 | 47.8 |
| National Insts of Health | NA | NA | NA | 423.0 | 394.4 | 384.9 | 308.7 | 311.0 | 347.0 | 399.6 | 417.5 |
| Office of the Assistant Secretary for Health | NA | NA | NA | 4.7 | 4.2 | 4.3 | 2.2 | .0 | .0 | 1.7 | 1.5 |
| Office of the Secretary | NA | NA | NA | .0 | .0 | .0 | .3 | .0 | .4 | .2 | .0 |
| Dept of Housing & Urban Dvlpmnt | 30.6 | 19.4 | 39.2 | 44.1 | 36.4 | 31.4 | 18.5 | 20.8 | 11.9 | 12.0 | 10.1 |
| Dept of the Interior, total | 73.7 | 58.7 | 75.5 | 66.3 | 56.8 | 57.3 | 29.6 | 24.8 | 30.7 | 22.4 | 17.3 |
| Bonneville Power Admin ⁷ | 6.5 | .0 | .0 | .0 | .0 | 7.7 | NA | NA | NA | NA | NA |
| Bureau of Land Management | .1 | .1 | .2 | .2 | .3 | .4 | 2.9 | 1.9 | 2.0 | 1.6 | 1.3 |
| Bureau of Mines | 58.0 | 49.6 | 57.0 | 41.9 | 30.6 | 28.7 | 13.6 | 9.2 | 11.6 | 3.3 | 2.8 |
| Bureau of Reclamation | .4 | .6 | .6 | .8 | 1.2 | .9 | 1.1 | 1.2 | 1.4 | 2.0 | .5 |
| Geological Survey ⁸ | .0 | .0 | .0 | .5 | .5 | .5 | .5 | 2.3 | 4.9 | 4.4 | 7.4 |
| National Park Service | .0 | .3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Office of Water Rsch & Tech ⁸ | 5.1 | 2.8 | 12.0 | 9.4 | 10.9 | 5.3 | 1.3 | 1.0 | .0 | NA | NA |
| US Fish & Wildlife Svc | 3.7 | 5.4 | 5.7 | 13.5 | 13.4 | 13.7 | 10.3 | 9.2 | 10.8 | 11.1 | 5.3 |
| Department of Justice, total | 15.5 | 10.1 | 15.2 | 14.1 | 12.7 | 7.0 | 10.4 | 10.7 | 6.6 | 16.7 | 14.1 |
| Bureau of Prisons | .8 | 1.0 | 2.9 | 2.9 | 1.3 | .9 | .7 | .4 | .4 | .4 | .3 |
| Drug Enforcement Admin | 2.0 | 2.1 | 1.4 | 1.7 | 1.9 | .9 | 1.9 | 1.6 | 1.2 | 1.1 | 1.7 |
| Federal Bureau of Investigation | 1.2 | 1.4 | 1.8 | 3.1 | 1.4 | .7 | 2.7 | 2.5 | 1.0 | 9.5 | 7.2 |
| Immigration & Naturalization Service | .0 | .1 | .2 | .1 | .2 | .1 | .4 | .3 | .3 | .2 | .2 |
| Office of Justice Programs | 11.5 | 5.4 | 8.3 | 6.3 | 7.5 | 4.4 | 4.6 | 5.8 | 3.8 | 5.5 | 4.7 |
| Office of Legal Policy | .0 | .0 | .6 | - | .5 | .1 | - | .1 | .0 | .0 | .0 |
| Department of Labor, total | 10.5 | 10.8 | 72.1 | 94.9 | 101.6 | 4.0 | 8.3 | 1.9 | .0 | .9 | .9 |
| Bureau of Labor Statistics | .5 | .5 | .5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Employment & Training Admin | 10.0 | 10.4 | 71.7 | 94.9 | 101.6 | 3.6 | 7.4 | 1.1 | .0 | .0 | .0 |
| Office of the Secretary | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .9 | .9 |
| Pension Benefit Guaranty Corp | NA | NA | NA | NA | NA | .4 | .8 | .8 | .0 | .0 | .0 |
| Department of State, total ⁹ | 14.2 | 23.1 | 36.1 | .5 | .3 | .2 | .0 | .0 | .0 | .0 | .0 |
| Agy for Internat'l Dvlpmnt ⁹ | 13.8 | 22.9 | 35.7 | NA | NA | NA | NA | NA | NA | NA | NA |
| Departmental Funds | .5 | .2 | .4 | .5 | .3 | .2 | .0 | .0 | .0 | .0 | .0 |
| Dept of Transportation, total | 263.4 | 302.8 | 341.8 | 303.1 | 278.8 | 327.0 | 243.4 | 275.1 | 370.6 | 357.6 | 317.3 |
| Coast Guard | 9.8 | 16.4 | 21.4 | 10.2 | 9.9 | 11.3 | 18.3 | 18.4 | 12.2 | 13.6 | 13.4 |
| Federal Aviation Admin | 94.5 | 98.7 | 103.7 | 103.0 | 94.9 | 111.8 | 87.3 | 113.7 | 251.2 | 269.0 | 246.6 |
| Federal Highway Admin | 27.0 | 50.2 | 46.8 | 48.5 | 46.5 | 46.1 | 35.0 | 43.1 | 40.3 | 42.6 | 30.8 |
| Federal Railroad Admin | 41.8 | 35.3 | 44.7 | 36.7 | 38.3 | 30.4 | 15.1 | 13.7 | 6.9 | 3.6 | 2.9 |
| Federal Transit Admin | 46.9 | 58.9 | 68.5 | 56.9 | 45.5 | 68.9 | 42.0 | 38.6 | 19.1 | 9.7 | 8.2 |
| Maritime Administration ³ | NA | NA | NA | NA | NA | 4.7 | 4.5 | 8.8 | 1.3 | 5.9 | 2.6 |
| National Highway Traffic Safety Administration | 21.5 | 19.5 | 28.3 | 26.6 | 24.9 | 36.5 | 34.1 | 30.6 | 32.2 | 7.2 | 6.3 |
| Office of the Secretary Rsch & Special Programs Administration | 21.9 | 23.8 | 27.6 | 11.1 | 10.2 | 9.4 | 3.0 | 4.6 | 4.0 | 3.9 | 4.7 |
| Administration | NA | .0 | .8 | 10.0 | 8.5 | 7.9 | 4.0 | 3.6 | 3.5 | 2.2 | 1.7 |
| Dept of the Treasury, total | 2.3 | 2.7 | 5.8 | 4.8 | 6.3 | 6.1 | 5.2 | 5.4 | 3.3 | 6.0 | 6.3 |
| Bureau of Alcohol, Tobacco, & Firearms | .0 | .7 | 1.6 | 1.9 | 1.2 | .2 | NA | NA | NA | NA | NA |
| Bureau of Engraving & Printing | 1.3 | .8 | 1.8 | 1.5 | 1.0 | 1.8 | 2.0 | 1.9 | 1.3 | 1.6 | 1.1 |
| Internal Revenue Service | .0 | .0 | .6 | .1 | .1 | - | .1 | .1 | .2 | 1.3 | .2 |
| United States Customs Svc | 1.0 | 1.2 | 1.8 | 1.3 | 3.7 | 3.4 | 3.1 | 3.3 | 1.7 | 2.1 | 4.6 |
| United States Mint | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .6 | .3 |
| United States Secret Service | NA | NA | NA | NA | .4 | .6 | .0 | - | .1 | .5 | - |
| Department of Veterans Affairs | 12.6 | 14.7 | 14.6 | 15.6 | 15.5 | 16.7 | 14.3 | 15.3 | 18.4 | 17.5 | 16.3 |

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

**Table C-99. Federal obligations for development, by selected agency:
fiscal years 1976-86**

[Dollars in millions]

| Selected agency | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Other agencies: | | | | | | | | | | | |
| ACTION | .0 | .4 | 1.4 | 1.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Appalachian Regional Comm | .0 | .1 | .1 | .2 | .2 | .1 | .1 | .0 | .1 | .0 | .0 |
| Civil Service Commission | 2.9 | 2.8 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Community Services Admin | 10.2 | 23.0 | 22.3 | 18.9 | 29.1 | 16.4 | NA | NA | NA | NA | NA |
| Consumer Product Safety Comm ... | 2.1 | 3.0 | 2.9 | 2.1 | 1.9 | .3 | .1 | .2 | .2 | 1.0 | .9 |
| Energy Rsch & Dvlpmt Admin ⁶ | 1,717.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Environmental Protection Agcy | 103.7 | 90.2 | 132.0 | 151.1 | 99.9 | 107.4 | 91.7 | 66.1 | 89.2 | 105.8 | 99.5 |
| Federal Emergency Management Agency, total ^{10 4} | NA | NA | 2.2 | 2.9 | 2.5 | 2.5 | .0 | .0 | 5.4 | 1.2 | .0 |
| National Fire Prevention & Control Administration ⁴ | NA | NA | 2.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Federal Energy Administration | 1.9 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Foundation for Educational Assistance ⁵ | NA | NA | NA | NA | NA | 51.1 | NA | NA | NA | NA | NA |
| General Services Admin ¹¹ | .7 | .5 | .5 | .3 | .1 | .2 | .5 | .3 | 2.0 | .0 | .3 |
| International Development Cooperation Agcy, total ⁹ | NA | NA | NA | 39.6 | 69.7 | 47.8 | 72.0 | 70.6 | 70.3 | 60.5 | 66.2 |
| Agcy for Internat'l Dvlpmt ⁹ | NA | NA | NA | 39.6 | 69.7 | 47.8 | 72.0 | 70.6 | 70.3 | 60.5 | 66.2 |
| Library of Congress | 2.5 | 3.4 | 4.4 | 5.3 | 6.3 | 4.0 | 4.9 | 6.0 | 5.4 | 5.0 | 5.0 |
| National Aeronautics & Space Administration | 2,224.0 | 1,964.7 | 1,988.1 | 2,127.2 | 1,624.4 | 2,186.0 | 1,670.7 | 1,116.8 | 1,112.7 | 1,543.6 | 1,350.8 |
| National Archives & Records Administration ¹¹ | NA | NA | NA | NA | NA | NA | NA | NA | NA | .3 | 1.0 |
| National Science Foundation | 13.5 | 8.7 | 5.3 | 7.9 | 8.1 | 6.1 | 2.2 | .0 | .0 | .0 | .0 |
| Office of Personnel Management ... | NA | NA | 3.5 | 4.6 | 4.2 | 5.0 | .0 | .0 | .0 | .0 | .0 |
| Office of Telecommunications Policy | 2.7 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Tennessee Valley Authority | 2.2 | 3.6 | 18.0 | 21.9 | 64.3 | 54.7 | 72.3 | 50.7 | 53.8 | 65.1 | 59.8 |
| United States Arms Control & Disarmament Agency | - | .4 | 1.2 | .8 | .8 | .8 | .6 | .1 | .2 | .0 | .1 |
| US Information Agency ¹² | - | - | - | - | - | .3 | .1 | .0 | .0 | .0 | .4 |

- 1 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.
- 2 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 1977-79.
- 3 In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.
- 4 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.
- 5 The 1983 Budget of the United States Government proposed that the Department of Education be replaced by the Foundation for Educational Assistance.
- 6 In 1977 the Energy Research & Development Administration became part of the Department of Energy.
- 7 In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.
- 8 As of 1985 the Office of Water Research & Technology has been combined with the Geological Survey.
- 9 The Agency for International Development transferred from the Department of State to the International Development Cooperative Agency on Oct. 1, 1979.
- 10 Functions for the Defense Civil Preparedness Agency transferred from the Department of Defense to the Federal Emergency Management Agency on July 20, 1979.
- 11 As of 1985 the National Archives & Records Administration is separate from the General Services Administration.
- 12 Data reported for the United States Information Agency include funds for the former International Communication Agency for fiscal years 1977-81.

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.

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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

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**Table C-99a. Federal obligations for development, by selected agency:
fiscal years 1987-97**

[Dollars in millions]

| Selected agency | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | Preliminary | |
|--|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | | | | | | | | | | 1996 | 1997 |
| Total, all agencies | 37,313.2 | 38,119.3 | 40,641.0 | 41,937.1 | 37,326.8 | 41,102.0 | 40,423.5 | 39,815.4 | 40,181.4 | 40,499.2 | 38,890.2 |
| Departments: | | | | | | | | | | | |
| Dept of Agriculture, total | 29.0 | 31.4 | 36.1 | 47.1 | 61.2 | 66.1 | 76.1 | 77.4 | 80.2 | 80.2 | 82.3 |
| Agricultural Marketing Svc ¹ | .3 | .3 | .3 | .4 | .5 | .6 | .6 | .6 | .6 | .6 | .6 |
| Agricultural Research Svc ² | 24.0 | 26.3 | 31.4 | 33.3 | 40.2 | 43.9 | 52.8 | 54.3 | 54.7 | 54.5 | 55.7 |
| Animal & Plant Health Inspection Service | .0 | .0 | .0 | 8.0 | 15.7 | 16.7 | 17.1 | 19.2 | 19.1 | 19.7 | 20.6 |
| Forest Service | 3.8 | 4.0 | 3.9 | 4.8 | 4.5 | 4.9 | 5.5 | 3.3 | 5.8 | 5.3 | 5.4 |
| Grain Inspection Packers & Stockyards Administration ³ | .5 | .4 | .3 | .4 | .1 | .0 | .0 | .0 | .0 | .0 | .0 |
| Office of International Cooperation & Dvlpmnt ⁴ | .3 | .2 | .1 | .2 | .2 | .0 | .0 | .0 | NA | NA | NA |
| Office of Transportation | .1 | .1 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Department of Commerce, total | 63.7 | 46.6 | 46.9 | 61.2 | 39.9 | 55.3 | 74.2 | 107.8 | 243.7 | 274.6 | 227.3 |
| Bureau of the Census | 1.9 | 1.9 | 2.0 | 2.0 | 1.9 | 2.0 | 2.1 | 2.0 | 1.9 | 4.2 | 4.2 |
| National Institute of Standards & Technology | 9.3 | 9.1 | 10.0 | 10.5 | 15.6 | 29.6 | 34.3 | 45.9 | 191.2 | 222.7 | 175.4 |
| National Oceanic & Atmospheric Administration | 51.7 | 34.8 | 34.1 | 47.7 | 22.4 | 23.7 | 37.8 | 59.9 | 50.6 | 47.7 | 47.6 |
| National Telecommunications & Information Administration | .8 | .8 | .9 | .9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Department of Defense, total | 31,884.0 | 32,009.7 | 33,920.8 | 33,738.9 | 28,416.9 | 32,056.1 | 31,065.7 | 30,303.8 | 30,028.1 | 30,335.9 | 29,102.8 |
| Department of the Army | 4,109.6 | 4,052.3 | 4,835.9 | 4,903.8 | 5,221.0 | 5,921.5 | 5,190.5 | 4,721.5 | 4,567.2 | 4,184.3 | 3,701.2 |
| Department of the Navy | 8,721.1 | 8,766.2 | 8,882.9 | 8,778.6 | 6,932.0 | 7,138.0 | 8,106.8 | 8,081.9 | 8,083.3 | 7,862.5 | 6,727.8 |
| Department of the Air Force | 14,562.9 | 14,094.2 | 14,430.0 | 14,055.1 | 10,107.1 | 12,636.6 | 11,747.5 | 11,713.1 | 10,963.4 | 11,214.3 | 12,487.2 |
| Defense Agencies | 4,353.5 | 4,868.4 | 5,616.8 | 5,780.2 | 5,919.4 | 6,114.4 | 5,766.0 | 5,544.3 | 6,161.5 | 6,823.9 | 5,913.5 |
| Operational Test & Evaluation, Director | 8.4 | 68.2 | 14.4 | 32.6 | 13.6 | 12.4 | 12.3 | 11.2 | 21.7 | 23.0 | 22.0 |
| Test & Evaluation, Deputy Under Secretary of Defense | 128.5 | 160.3 | 140.7 | 188.7 | 223.7 | 233.2 | 242.5 | 231.8 | 231.0 | 227.8 | 251.0 |
| Department of Education | 25.6 | 29.7 | 37.2 | 39.7 | 39.4 | 41.5 | 44.1 | 39.9 | 39.3 | 40.1 | 45.4 |
| Department of Energy | 2,659.4 | 2,801.0 | 2,760.9 | 3,060.1 | 2,709.5 | 2,759.7 | 2,821.9 | 2,765.5 | 2,685.0 | 2,376.4 | 2,320.1 |
| Department of Health & Human Services, total | 584.3 | 661.1 | 814.4 | 938.5 | 1,593.5 | 1,042.3 | 1,156.6 | 1,285.1 | 1,379.3 | 1,389.6 | 1,416.7 |
| Administration on Aging ⁵ | NA | NA | NA | NA | 17.7 | 17.8 | 18.2 | 15.6 | 17.7 | 3.5 | 3.2 |
| Administration for Children & Families ⁶ ⁵ | NA | NA | NA | NA | 115.5 | 4.8 | 1.4 | .9 | .8 | .7 | 1.5 |
| Agency for Health Care Policy & Research ⁷ | NA | NA | NA | 5.5 | 8.1 | 8.5 | 9.2 | 12.4 | 11.3 | 6.2 | 7.0 |
| Alcohol, Drug Abuse, & Mental Health Administration ⁸ | 2.2 | 2.4 | 3.0 | 41.5 | 537.6 | NA | NA | NA | NA | NA | NA |
| Hlth Resources & Svcs Admin | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 5.8 | 1.0 | 1.3 | .0 |
| Human Development Svcs ⁵ | 43.6 | 46.8 | 93.2 | 87.7 | NA | NA | NA | NA | NA | NA | NA |
| National Insts of Health ⁸ | 536.2 | 610.2 | 716.5 | 800.7 | 912.5 | 1,010.5 | 1,126.6 | 1,249.6 | 1,348.2 | 1,377.4 | 1,404.5 |
| Office of the Assistant Secretary for Health ⁷ | 2.3 | 1.6 | 1.7 | 1.1 | .4 | .7 | 1.2 | .8 | .3 | .5 | .6 |
| Social Security Admin ⁹ | .0 | .0 | .0 | 2.1 | 1.7 | .0 | .0 | .0 | .0 | NA | NA |

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

**Table C-99a. Federal obligations for development, by selected agency:
fiscal years 1987-97**

[Dollars in millions]

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| Selected agency | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | Preliminary | |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------|-------|
| | | | | | | | | | | 1996 | 1997 |
| Dept of Housing & Urban Dvlpmnt ... | 10.8 | 12.1 | 11.9 | 12.7 | 18.4 | 16.3 | 15.5 | 25.9 | 27.7 | 22.8 | 28.8 |
| Dept of the Interior, total | 21.7 | 24.3 | 27.1 | 33.3 | 39.5 | 38.6 | 39.0 | 43.9 | 29.2 | 25.5 | 27.4 |
| Bureau of Land Management | 1.6 | 1.5 | 1.0 | .7 | 2.8 | .4 | .9 | .0 | .0 | .0 | .0 |
| Bureau of Mines | 3.6 | 5.2 | 5.4 | 9.4 | 7.1 | 4.2 | 6.9 | 12.5 | .0 | NA | NA |
| Bureau of Reclamation | .5 | .7 | .6 | .5 | .9 | 2.5 | 2.8 | 1.8 | 2.0 | 1.5 | 1.9 |
| Geological Survey ¹⁰ | 10.3 | 10.9 | 12.9 | 15.1 | 18.2 | 16.9 | 12.8 | 15.7 | 14.1 | 24.0 | 25.4 |
| Nat'l Biological Svc ^{11 10} | NA | NA | NA | NA | NA | NA | .0 | 13.8 | 13.0 | NA | NA |
| Office of the Secretary | .0 | .3 | .4 | .2 | .5 | .7 | .2 | .1 | - | - | .0 |
| US Fish & Wildlife Svc ¹¹ | 5.7 | 5.7 | 6.7 | 7.4 | 10.0 | 13.9 | 15.3 | .0 | .0 | .0 | .0 |
| Department of Justice, total | 22.5 | 25.7 | 20.6 | 20.6 | 27.8 | 27.7 | 23.3 | 19.2 | 32.1 | 53.7 | 58.5 |
| Bureau of Prisons ¹² | 4.9 | 3.9 | 3.0 | 2.7 | 3.3 | 3.4 | 3.6 | 3.3 | 2.5 | 2.8 | 2.8 |
| Drug Enforcement Admin | 1.5 | 1.9 | 2.2 | 2.0 | 1.8 | 1.3 | .8 | .8 | .4 | 1.2 | .5 |
| Federal Bureau of Investigation | 8.0 | 12.7 | 7.7 | 8.2 | 10.8 | 10.9 | 11.3 | 7.0 | 10.9 | 36.8 | 34.8 |
| Immigration & Naturalization Service | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Office of Justice Programs | 7.9 | 7.1 | 7.8 | 7.7 | 11.9 | 12.1 | 7.5 | 8.1 | 18.3 | 12.9 | 20.4 |
| Department of Labor, total | 1.2 | 8.9 | 13.3 | 51.4 | 19.7 | 27.9 | 36.1 | 40.1 | 25.5 | 21.9 | 19.2 |
| Employment & Training Admin | .3 | 8.0 | 9.7 | 47.4 | 15.5 | 26.1 | 32.5 | 36.9 | 21.4 | 17.8 | 14.9 |
| Office of the Secretary | .9 | .9 | 3.6 | 3.8 | 4.0 | 1.7 | 3.0 | 2.2 | 3.4 | 3.5 | 3.6 |
| Pension Benefit Guaranty Corp .. | .0 | .0 | .0 | .2 | .2 | .1 | .6 | 1.0 | .7 | .6 | .6 |
| Dept of Transportation, total | 256.2 | 213.4 | 182.9 | 247.4 | 265.3 | 288.1 | 319.3 | 347.4 | 356.2 | 307.4 | 311.4 |
| Coast Guard | 13.3 | 15.7 | 13.3 | 15.2 | 19.2 | 15.0 | 24.7 | 16.7 | 14.8 | 15.0 | 14.8 |
| Federal Aviation Admin | 156.2 | 147.3 | 123.2 | 189.9 | 196.2 | 206.1 | 189.1 | 206.1 | 205.1 | 157.3 | 156.1 |
| Federal Highway Admin | 56.0 | 30.4 | 34.4 | 33.8 | 40.8 | 57.0 | 83.1 | 101.5 | 109.4 | 106.7 | 126.7 |
| Federal Railroad Admin | .8 | 1.8 | 1.5 | 1.7 | 2.7 | 3.9 | 4.3 | 3.4 | 4.0 | 10.4 | .7 |
| Federal Transit Admin ¹³ | 12.6 | 2.3 | 1.4 | 1.6 | 1.7 | 1.7 | 13.3 | 12.1 | 17.9 | 10.5 | 8.8 |
| Maritime Administration | 2.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| National Highway Traffic Safety Administration | 9.0 | 9.2 | 3.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Office of the Secretary | 4.1 | 5.0 | 4.2 | 5.1 | 3.7 | 3.4 | 3.9 | 4.9 | 3.3 | 2.9 | 2.8 |
| Rsch & Special Programs Administration | 1.8 | 1.7 | 1.3 | .0 | 1.0 | 1.1 | .8 | 2.7 | 1.8 | 4.6 | 1.4 |
| Dept of the Treasury, total | 9.5 | 10.2 | 9.3 | 6.9 | 6.7 | 3.8 | 5.5 | 9.8 | 12.4 | 13.4 | 10.5 |
| Bureau of Engraving & Printing | 1.7 | .8 | .3 | .7 | .8 | .2 | .0 | .1 | .5 | .9 | .8 |
| Financial Crimes Enforcement Network | .0 | .0 | .0 | .0 | 2.3 | 1.2 | 1.5 | .0 | .0 | .0 | .0 |
| Internal Revenue Svc ^{14 15} | .4 | .7 | .3 | .3 | .4 | .4 | .0 | 5.2 | 3.9 | 3.4 | 3.5 |
| United States Customs Svc | 6.8 | 8.5 | 6.4 | 5.8 | 3.2 | 2.0 | 3.9 | 4.0 | 7.7 | 8.8 | 5.7 |
| United States Mint | .2 | .1 | 2.0 | .1 | .1 | .0 | .1 | .5 | .3 | .2 | .4 |
| US Secret Service ¹⁶ | .3 | .0 | .2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Department of Veterans Affairs | 19.2 | 19.2 | 21.0 | 22.1 | 22.8 | 23.0 | 28.7 | 24.5 | 19.1 | 22.4 | 21.8 |

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

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**Table C-99a. Federal obligations for development, by selected agency:
fiscal years 1987-97**

[Dollars in millions]

| Selected agency | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | Preliminary | |
|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | | | | | | | | | | 1996 | 1997 |
| Other agencies: | | | | | | | | | | | |
| Consumer Product Safety Comm ... | 1.6 | .9 | .8 | .7 | .4 | .3 | .4 | .2 | .4 | - | .0 |
| Environmental Protection Agcy | 71.0 | 79.5 | 107.0 | 104.5 | 79.5 | 79.6 | 133.7 | 151.2 | 149.9 | 104.9 | 170.4 |
| International Development Cooperation Agcy, total | 63.5 | 69.3 | 60.0 | 29.3 | 20.4 | 65.9 | 23.0 | 38.1 | 29.8 | 19.8 | 14.1 |
| Agcy for Internat'l Dvlpmnt ⁷ | 63.5 | 69.3 | 60.0 | 29.3 | 20.4 | 65.9 | 23.0 | 38.1 | 29.8 | 19.8 | 14.1 |
| Library of Congress | 5.0 | 5.5 | 6.4 | 7.0 | 7.3 | 8.5 | 8.7 | 8.1 | 8.0 | 6.5 | 7.2 |
| National Aeronautics & Space Administration | 1,517.8 | 1,998.8 | 2,514.7 | 3,472.6 | 3,909.1 | 4,428.3 | 4,471.1 | 4,455.7 | 4,968.9 | 5,332.1 | 4,963.6 |
| Nat'l Archives & Records Admin | .4 | .2 | .1 | .1 | .1 | .1 | - | .0 | .0 | .0 | .0 |
| Tennessee Valley Authority | 60.2 | 68.8 | 48.0 | 43.2 | 49.5 | 72.9 | 80.6 | 71.9 | 66.7 | 72.2 | 62.8 |
| United States Arms Control & Disarmament Agency ¹⁸ | 3.2 | 2.6 | 1.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| US Information Agency | 3.5 | .3 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |

- 1 Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.
- 2 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 3 The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.
- 4 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.
- 5 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.
- 6 Obligations reported for the Administration for Children & Families may be incomplete for fiscal year 1992 due to unavailability of data.
- 7 In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.
- 8 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 in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.
- 9 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.
- 10 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.
- 11 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.
- 12 The Bureau of Prisons was formerly listed as the Federal Prison System.
- 13 The name of this agency changed from the Urban Mass Transit Administration to the Federal Transit Administration on Dec. 18, 1991.
- 14 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.
- 15 Large changes in obligations reported by the Internal Revenue Service for Vol. 44 are due to shifts in research funding.
- 16 The United States Secret Service was formerly listed as the Office of Protective Research.
- 17 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.
- 18 Fiscal year 1994 figures for the United States Arms Control & Disarmament Agency are estimates based on the agency's Vol. 43 submission.

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.

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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

**Table C-100. Federal obligations for research and development, by performer:
fiscal years 1976-86**

[Dollars in millions]

Page 1 of 1

| Performer | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
|---|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Total | 20,779.7 | 23,450.4 | 25,845.1 | 28,145.1 | 29,830.4 | 33,103.9 | 36,432.6 | 38,711.5 | 42,224.9 | 48,359.6 | 51,412.4 |
| Intramural ¹ | 5,768.7 | 6,011.7 | 6,810.4 | 7,417.5 | 7,632.3 | 8,425.7 | 9,141.0 | 10,581.9 | 11,572.3 | 12,945.4 | 13,534.9 |
| Industrial firms excluding FFRDCs | 9,340.3 | 10,717.2 | 11,400.0 | 12,172.4 | 12,969.1 | 14,867.9 | 17,192.2 | 17,019.7 | 18,610.4 | 21,704.9 | 24,201.2 |
| FFRDCs administered by industrial firms | 813.8 | 1,112.7 | 1,242.5 | 1,318.1 | 1,408.1 | 1,413.9 | 1,506.4 | 1,501.2 | 1,608.4 | 1,790.8 | 1,697.0 |
| Universities & colleges excluding FFRDCs | 2,551.8 | 2,905.5 | 3,374.6 | 3,888.8 | 4,263.4 | 4,465.8 | 4,605.5 | 4,966.4 | 5,546.9 | 6,339.7 | 6,558.8 |
| FFRDCs administered by universities ² | 1,061.1 | 1,313.1 | 1,311.9 | 1,488.3 | 1,533.3 | 1,791.0 | 1,976.7 | 2,393.9 | 2,485.8 | 2,816.4 | 2,767.7 |
| Nonprofit institutions excluding FFRDCs | 708.6 | 800.0 | 998.2 | 1,026.5 | 1,105.6 | 1,068.8 | 1,091.7 | 1,241.6 | 1,497.3 | 1,699.2 | 1,677.0 |
| FFRDCs administered by nonprofit institutions ² | 231.0 | 263.9 | 315.9 | 368.7 | 441.8 | 525.2 | 520.6 | 581.3 | 597.1 | 689.2 | 551.2 |
| State and local governments | 231.2 | 238.0 | 268.4 | 310.1 | 265.5 | 222.2 | 184.3 | 186.0 | 130.9 | 129.4 | 128.4 |
| Foreign | 73.1 | 88.2 | 123.2 | 154.7 | 211.2 | 323.4 | 214.3 | 239.5 | 175.8 | 244.5 | 296.3 |

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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

**Table C-100a. Federal obligations for research and development, by performer:
fiscal years 1987-97**

[Dollars in millions]

| Performer | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | Preliminary | |
|---|----------|----------|----------|----------|----------|----------|----------|----------|----------|-------------|----------|
| | | | | | | | | | | 1996 | 1997 |
| Total | 55,253.7 | 56,769.4 | 61,406.5 | 63,559.5 | 61,295.2 | 65,592.6 | 67,314.0 | 67,255.8 | 68,754.9 | 69,076.9 | 68,063.7 |
| Intramural ¹ | 13,413.1 | 14,114.6 | 15,024.6 | 15,848.9 | 15,138.2 | 15,582.8 | 16,663.3 | 16,139.1 | 17,342.7 | 16,897.0 | 16,403.7 |
| Industrial firms excluding FFRDCs | 26,768.2 | 26,719.2 | 28,547.9 | 29,370.0 | 26,420.6 | 29,744.8 | 30,219.0 | 30,454.4 | 30,468.7 | 31,267.6 | 30,712.6 |
| FFRDCs administered by industrial firms | 1,860.0 | 1,911.3 | 2,056.3 | 2,326.8 | 2,168.3 | 2,117.0 | 1,451.3 | 1,293.5 | 1,203.9 | 1,231.3 | 1,339.5 |
| Universities & colleges excluding FFRDCs | 7,337.3 | 7,827.7 | 8,672.0 | 9,137.5 | 10,168.5 | 10,271.2 | 11,208.4 | 11,828.7 | 11,933.0 | 12,251.2 | 12,362.2 |
| FFRDCs administered by universities ² | 3,209.6 | 3,473.9 | 3,497.1 | 3,449.8 | 3,603.8 | 3,855.5 | 3,614.2 | 3,292.9 | 3,574.3 | 3,302.2 | 3,230.6 |
| Nonprofit institutions excluding FFRDCs | 1,711.4 | 1,683.2 | 1,999.9 | 2,248.2 | 2,637.4 | 2,803.6 | 2,811.9 | 2,929.7 | 2,806.5 | 2,866.6 | 2,883.6 |
| FFRDCs administered by nonprofit institutions ² | 510.6 | 505.6 | 522.0 | 621.6 | 679.4 | 745.6 | 753.4 | 735.5 | 831.4 | 721.2 | 644.1 |
| State and local governments | 148.2 | 142.1 | 167.4 | 213.9 | 215.1 | 184.1 | 320.3 | 325.4 | 316.5 | 273.8 | 281.6 |
| Foreign | 295.3 | 391.8 | 919.4 | 342.6 | 263.9 | 287.9 | 272.2 | 256.6 | 277.8 | 266.0 | 205.9 |

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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

**Table C-101. Federal obligations for research, by performer:
fiscal years 1976-86**

[Dollars in millions]

Page 1 of 1

| Performer | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
|---|---------|---------|---------|----------|----------|----------|----------|----------|----------|----------|----------|
| Total | 7,619.3 | 8,514.1 | 9,606.8 | 10,535.0 | 11,597.4 | 12,212.8 | 13,022.2 | 14,253.5 | 14,978.8 | 16,133.4 | 16,502.2 |
| Intramural ¹ | 2,879.2 | 2,957.7 | 3,220.8 | 3,481.2 | 3,666.3 | 4,034.2 | 4,194.2 | 4,710.3 | 4,764.7 | 5,056.1 | 5,160.3 |
| Industrial firms excluding FFRDCs | 1,103.0 | 1,367.3 | 1,651.4 | 1,762.0 | 2,077.6 | 1,958.3 | 2,156.6 | 2,114.2 | 2,137.4 | 2,074.4 | 2,280.5 |
| FFRDCs administered by industrial firms | 176.5 | 192.2 | 235.2 | 245.0 | 311.0 | 351.3 | 487.3 | 522.6 | 496.5 | 485.9 | 482.1 |
| Universities & colleges excluding FFRDCs | 2,249.7 | 2,583.5 | 2,928.0 | 3,333.4 | 3,699.1 | 3,920.1 | 4,045.4 | 4,467.9 | 5,029.7 | 5,726.3 | 5,883.4 |
| FFRDCs administered by universities ² | 548.3 | 670.3 | 714.9 | 800.6 | 851.2 | 940.6 | 1,056.7 | 1,250.1 | 1,335.9 | 1,421.3 | 1,291.7 |
| Nonprofit institutions excluding FFRDCs | 435.4 | 512.2 | 590.9 | 622.6 | 678.4 | 705.2 | 743.5 | 836.9 | 922.6 | 1,045.1 | 1,062.9 |
| FFRDCs administered by nonprofit institutions ² | 57.5 | 55.6 | 66.9 | 73.4 | 71.7 | 67.7 | 104.2 | 85.2 | 87.3 | 97.0 | 87.9 |
| State and local governments | 119.4 | 115.2 | 128.8 | 139.5 | 150.9 | 129.3 | 125.9 | 136.7 | 88.2 | 89.5 | 91.0 |
| Foreign | 50.4 | 60.3 | 69.9 | 77.4 | 91.1 | 106.0 | 108.3 | 129.6 | 116.5 | 137.9 | 162.4 |

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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

**Table C-101a. Federal obligations for research, by performer:
fiscal years 1987-97**

[Dollars in millions]

Page 1 of 1

| Performer | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | Preliminary | |
|---|----------|----------|----------|----------|----------|----------|----------|----------|----------|-------------|----------|
| | | | | | | | | | | 1996 | 1997 |
| Total | 17,940.5 | 18,650.1 | 20,765.5 | 21,622.4 | 23,968.4 | 24,490.6 | 26,890.5 | 27,440.4 | 28,573.4 | 28,577.8 | 29,173.5 |
| Intramural ¹ | 5,437.7 | 5,338.4 | 5,897.0 | 5,809.8 | 6,454.4 | 6,523.3 | 7,451.8 | 7,488.2 | 7,787.8 | 7,404.3 | 7,696.1 |
| Industrial firms excluding FFRDCs | 2,448.6 | 2,642.5 | 2,875.0 | 3,191.6 | 3,406.5 | 3,451.2 | 3,923.8 | 4,063.5 | 4,727.9 | 4,672.8 | 4,799.7 |
| FFRDCs administered by industrial firms | 433.5 | 455.2 | 604.3 | 614.3 | 709.6 | 684.9 | 799.3 | 737.2 | 818.0 | 877.7 | 1,005.5 |
| Universities & colleges excluding FFRDCs | 6,640.2 | 7,022.9 | 7,793.1 | 8,136.5 | 8,867.5 | 9,060.7 | 9,892.3 | 10,323.5 | 10,371.6 | 10,919.9 | 10,823.3 |
| FFRDCs administered by universities ² | 1,471.0 | 1,564.8 | 1,703.4 | 1,791.5 | 2,160.9 | 2,351.8 | 2,299.4 | 2,181.1 | 2,235.6 | 2,085.7 | 2,131.1 |
| Nonprofit institutions excluding FFRDCs | 1,207.5 | 1,300.0 | 1,519.8 | 1,660.0 | 1,925.9 | 2,049.6 | 2,041.3 | 2,094.9 | 2,056.1 | 2,101.0 | 2,199.9 |
| FFRDCs administered by nonprofit institutions ² | 89.8 | 82.9 | 109.5 | 137.6 | 170.9 | 139.9 | 173.4 | 178.0 | 210.1 | 183.7 | 191.6 |
| State and local governments | 90.2 | 103.1 | 121.2 | 126.4 | 129.3 | 109.3 | 211.8 | 230.8 | 221.4 | 198.9 | 207.0 |
| Foreign | 121.9 | 140.4 | 142.1 | 154.5 | 143.4 | 120.0 | 97.4 | 143.3 | 144.8 | 133.9 | 119.3 |

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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

**Table C-102. Federal obligations for basic research, by performer:
fiscal years 1976-86**

[Dollars in millions]

Page 1 of 1

| Performer | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Total | 2,767.5 | 3,258.6 | 3,698.6 | 4,192.7 | 4,674.2 | 5,041.3 | 5,481.6 | 6,260.1 | 7,067.4 | 7,818.7 | 8,153.1 |
| Intramural ¹ | 786.0 | 914.1 | 1,029.3 | 1,089.1 | 1,182.5 | 1,301.8 | 1,465.5 | 1,689.8 | 1,861.1 | 1,923.4 | 2,018.9 |
| Industrial firms excluding FFRDCs | 131.1 | 208.1 | 247.7 | 277.1 | 325.3 | 292.9 | 270.9 | 292.9 | 377.9 | 380.1 | 511.6 |
| FFRDCs administered by industrial firms | 59.8 | 53.1 | 65.4 | 66.6 | 70.4 | 73.3 | 87.4 | 83.0 | 91.1 | 122.6 | 117.6 |
| Universities & colleges excluding FFRDCs | 1,341.7 | 1,555.1 | 1,759.2 | 2,079.9 | 2,320.3 | 2,503.2 | 2,727.1 | 3,112.3 | 3,530.8 | 4,038.7 | 4,132.1 |
| FFRDCs administered by universities ² | 284.9 | 324.1 | 356.8 | 393.6 | 436.8 | 490.6 | 516.7 | 604.0 | 668.9 | 724.2 | 724.1 |
| Nonprofit institutions excluding FFRDCs | 126.5 | 162.5 | 192.8 | 240.3 | 279.5 | 313.1 | 355.6 | 409.6 | 473.6 | 555.8 | 572.1 |
| FFRDCs administered by nonprofit institutions ² | 7.9 | 5.6 | 5.8 | 6.7 | 7.5 | 8.6 | 9.0 | 8.0 | 8.2 | 12.4 | 13.0 |
| State and local governments | 12.9 | 15.6 | 17.1 | 19.8 | 23.9 | 26.5 | 24.5 | 32.1 | 28.1 | 30.5 | 30.9 |
| Foreign | 16.6 | 20.4 | 24.6 | 19.5 | 28.1 | 31.2 | 24.9 | 28.5 | 27.7 | 30.9 | 32.7 |

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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

**Table C-102a. Federal obligations for basic research, by performer:
fiscal years 1987-97**

[Dollars in millions]

Page 1 of 1

| Performer | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | Preliminary | |
|---|---------|---------|----------|----------|----------|----------|----------|----------|----------|-------------|----------|
| | | | | | | | | | | 1996 | 1997 |
| Total | 8,942.4 | 9,473.6 | 10,602.0 | 11,285.6 | 12,170.8 | 12,489.9 | 13,399.1 | 13,552.9 | 13,895.5 | 14,482.1 | 14,732.3 |
| Intramural ¹ | 2,046.2 | 2,050.3 | 2,313.4 | 2,294.6 | 2,391.6 | 2,337.6 | 2,661.8 | 2,505.0 | 2,712.9 | 2,413.9 | 2,667.8 |
| Industrial firms excluding FFRDCs | 467.0 | 596.9 | 773.2 | 887.5 | 949.9 | 920.3 | 896.3 | 1,109.1 | 1,221.2 | 1,225.7 | 1,279.1 |
| FFRDCs administered by industrial firms | 119.9 | 133.0 | 223.9 | 246.8 | 264.0 | 247.2 | 243.6 | 237.6 | 239.1 | 339.9 | 368.3 |
| Universities & colleges excluding FFRDCs | 4,665.6 | 4,868.3 | 5,221.4 | 5,548.2 | 6,064.5 | 6,331.8 | 6,833.7 | 7,024.2 | 6,951.3 | 7,753.6 | 7,405.5 |
| FFRDCs administered by universities ² | 906.7 | 989.8 | 1,098.1 | 1,227.3 | 1,306.2 | 1,394.1 | 1,402.7 | 1,336.0 | 1,438.3 | 1,503.5 | 1,519.7 |
| Nonprofit institutions excluding FFRDCs | 657.7 | 728.6 | 838.9 | 924.1 | 1,015.5 | 1,097.2 | 1,164.9 | 1,125.7 | 1,134.2 | 1,062.1 | 1,270.2 |
| FFRDCs administered by nonprofit institutions ² | 13.3 | 17.7 | 42.2 | 59.2 | 80.8 | 65.5 | 71.3 | 73.9 | 75.2 | 71.6 | 82.9 |
| State and local governments | 37.5 | 42.7 | 43.6 | 50.4 | 49.1 | 42.4 | 71.7 | 75.2 | 78.7 | 70.4 | 92.3 |
| Foreign | 28.5 | 46.3 | 47.4 | 47.6 | 49.1 | 53.8 | 53.3 | 66.1 | 44.5 | 41.3 | 46.5 |

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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

**Table C-103. Federal obligations for applied research, by performer:
fiscal years 1976-86**

[Dollars in millions]

Page 1 of 1

| Performer | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Total | 4,851.9 | 5,255.5 | 5,908.2 | 6,342.3 | 6,923.2 | 7,171.5 | 7,540.6 | 7,993.4 | 7,911.4 | 8,314.7 | 8,349.1 |
| Intramural ¹ | 2,093.1 | 2,043.6 | 2,191.5 | 2,392.1 | 2,483.8 | 2,732.4 | 2,728.7 | 3,020.4 | 2,903.6 | 3,132.7 | 3,141.5 |
| Industrial firms excluding FFRDCs | 971.9 | 1,159.1 | 1,403.7 | 1,484.9 | 1,752.3 | 1,665.4 | 1,885.7 | 1,821.3 | 1,759.5 | 1,694.3 | 1,768.8 |
| FFRDCs administered by industrial firms | 116.7 | 139.1 | 169.8 | 178.3 | 240.7 | 278.1 | 400.0 | 439.7 | 405.4 | 363.3 | 364.5 |
| Universities & colleges excluding FFRDCs | 908.0 | 1,028.4 | 1,168.8 | 1,253.5 | 1,378.8 | 1,416.9 | 1,318.3 | 1,355.6 | 1,498.9 | 1,687.6 | 1,751.4 |
| FFRDCs administered by universities ² | 263.4 | 346.2 | 358.1 | 407.0 | 414.3 | 450.0 | 540.0 | 646.1 | 667.0 | 697.1 | 567.6 |
| Nonprofit institutions excluding FFRDCs | 308.9 | 349.6 | 398.1 | 382.3 | 398.9 | 392.1 | 387.9 | 427.3 | 449.0 | 489.3 | 490.8 |
| FFRDCs administered by nonprofit institutions ² | 49.6 | 49.9 | 61.2 | 66.7 | 64.2 | 59.1 | 95.2 | 77.1 | 79.1 | 84.6 | 74.9 |
| State and local governments | 106.5 | 99.6 | 111.8 | 119.7 | 127.1 | 102.8 | 101.4 | 104.7 | 60.0 | 58.9 | 60.0 |
| Foreign | 33.8 | 39.9 | 45.3 | 57.9 | 63.0 | 74.8 | 83.4 | 101.1 | 88.8 | 107.0 | 129.7 |

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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

**Table C-103a. Federal obligations for applied research, by performer:
fiscal years 1987-97**

[Dollars in millions]

Page 1 of 1

| Performer | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | Preliminary | |
|---|---------|---------|----------|----------|----------|----------|----------|----------|----------|-------------|----------|
| | | | | | | | | | | 1996 | 1997 |
| Total | 8,998.1 | 9,176.5 | 10,163.5 | 10,336.8 | 11,797.6 | 12,000.7 | 13,491.4 | 13,887.5 | 14,677.9 | 14,095.7 | 14,441.3 |
| Intramural ¹ | 3,391.5 | 3,288.1 | 3,583.5 | 3,515.2 | 4,062.8 | 4,185.7 | 4,790.0 | 4,983.2 | 5,074.9 | 4,990.4 | 5,028.3 |
| Industrial firms excluding FFRDCs | 1,981.6 | 2,045.6 | 2,101.8 | 2,304.2 | 2,456.6 | 2,530.9 | 3,027.5 | 2,954.4 | 3,506.7 | 3,447.1 | 3,520.6 |
| FFRDCs administered by industrial firms | 313.6 | 322.2 | 380.5 | 367.5 | 445.6 | 437.6 | 555.6 | 499.6 | 578.9 | 537.7 | 637.2 |
| Universities & colleges excluding FFRDCs | 1,974.6 | 2,154.6 | 2,571.8 | 2,588.4 | 2,803.0 | 2,728.9 | 3,058.6 | 3,299.3 | 3,420.3 | 3,166.3 | 3,417.8 |
| FFRDCs administered by universities ² | 564.3 | 575.0 | 605.4 | 564.3 | 854.7 | 957.6 | 896.8 | 845.1 | 797.3 | 582.2 | 611.4 |
| Nonprofit institutions excluding FFRDCs | 549.8 | 571.3 | 681.0 | 735.9 | 910.4 | 952.5 | 876.4 | 969.2 | 921.9 | 1,038.9 | 929.7 |
| FFRDCs administered by nonprofit institutions ² | 76.5 | 65.2 | 67.3 | 78.4 | 90.1 | 74.5 | 102.2 | 104.0 | 134.9 | 112.1 | 108.7 |
| State and local governments | 52.7 | 60.4 | 77.6 | 76.1 | 80.2 | 66.9 | 140.1 | 155.5 | 142.7 | 128.5 | 114.7 |
| Foreign | 93.4 | 94.1 | 94.6 | 106.9 | 94.3 | 66.2 | 44.1 | 77.2 | 100.3 | 92.6 | 72.8 |

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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

**Table C-104. Federal obligations for development, by performer:
fiscal years 1976-86**

[Dollars in millions]

Page 1 of 1

| Performer | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
|---|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Total | 13,160.3 | 14,936.3 | 16,238.4 | 17,610.1 | 18,233.1 | 20,891.1 | 23,410.4 | 24,458.0 | 27,246.1 | 32,226.1 | 34,910.2 |
| Intramural ¹ | 2,889.6 | 3,054.0 | 3,589.7 | 3,936.3 | 3,966.1 | 4,391.5 | 4,946.8 | 5,871.7 | 6,807.6 | 7,889.3 | 8,374.6 |
| Industrial firms excluding FFRDCs | 8,237.3 | 9,350.0 | 9,748.6 | 10,410.5 | 10,891.5 | 12,909.6 | 15,035.6 | 14,905.5 | 16,472.9 | 19,630.5 | 21,920.7 |
| FFRDCs administered by industrial firms | 637.3 | 920.6 | 1,007.3 | 1,073.1 | 1,097.0 | 1,062.6 | 1,019.1 | 978.5 | 1,112.0 | 1,304.9 | 1,215.0 |
| Universities & colleges excluding FFRDCs | 302.1 | 322.0 | 446.6 | 555.5 | 564.4 | 545.6 | 560.0 | 498.5 | 517.2 | 613.5 | 675.4 |
| FFRDCs administered by universities ² | 512.8 | 642.8 | 597.1 | 687.7 | 682.2 | 850.4 | 920.0 | 1,143.8 | 1,149.9 | 1,395.1 | 1,476.0 |
| Nonprofit institutions excluding FFRDCs | 273.1 | 287.9 | 407.3 | 403.8 | 427.1 | 363.6 | 348.1 | 404.7 | 574.6 | 654.1 | 614.1 |
| FFRDCs administered by nonprofit institutions ² | 173.5 | 208.3 | 249.0 | 295.4 | 370.1 | 457.5 | 416.4 | 496.1 | 509.8 | 592.2 | 463.3 |
| State and local governments | 111.8 | 122.9 | 139.6 | 170.7 | 114.6 | 92.9 | 58.4 | 49.3 | 42.8 | 39.9 | 37.4 |
| Foreign | 22.7 | 27.9 | 53.2 | 77.3 | 120.1 | 217.5 | 106.0 | 109.9 | 59.2 | 106.7 | 133.9 |

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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

**Table C-104a. Federal obligations for development, by performer:
fiscal years 1987-97**

[Dollars in millions]

| Performer | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | Preliminary | |
|---|----------|----------|----------|----------|----------|----------|----------|----------|----------|-------------|----------|
| | | | | | | | | | | 1996 | 1997 |
| Total | 37,313.2 | 38,119.3 | 40,641.0 | 41,937.1 | 37,326.8 | 41,102.0 | 40,423.5 | 39,815.4 | 40,181.4 | 40,499.2 | 38,890.2 |
| Intramural ¹ | 7,975.3 | 8,776.2 | 9,127.6 | 10,039.1 | 8,683.8 | 9,059.6 | 9,211.6 | 8,650.9 | 9,554.9 | 9,492.8 | 8,707.6 |
| Industrial firms excluding FFRDCs | 24,319.6 | 24,076.7 | 25,672.9 | 26,178.4 | 23,014.1 | 26,293.6 | 26,295.2 | 26,390.9 | 25,740.7 | 26,594.8 | 25,912.9 |
| FFRDCs administered by industrial firms | 1,426.4 | 1,456.1 | 1,452.0 | 1,712.5 | 1,458.7 | 1,432.2 | 652.1 | 556.3 | 385.9 | 353.6 | 334.0 |
| Universities & colleges excluding FFRDCs | 697.0 | 804.8 | 878.8 | 1,001.0 | 1,301.0 | 1,210.6 | 1,316.1 | 1,505.2 | 1,561.4 | 1,331.3 | 1,538.9 |
| FFRDCs administered by universities ² | 1,738.6 | 1,909.1 | 1,793.6 | 1,658.3 | 1,442.9 | 1,503.7 | 1,314.8 | 1,111.8 | 1,338.7 | 1,216.5 | 1,099.5 |
| Nonprofit institutions excluding FFRDCs | 503.9 | 383.2 | 480.0 | 588.2 | 711.5 | 753.9 | 770.6 | 834.8 | 750.4 | 765.6 | 683.7 |
| FFRDCs administered by nonprofit institutions ² | 420.8 | 422.7 | 412.4 | 484.0 | 508.5 | 605.7 | 580.0 | 557.6 | 621.3 | 537.5 | 452.5 |
| State and local governments | 58.0 | 39.0 | 46.3 | 87.5 | 85.8 | 74.8 | 108.5 | 94.7 | 95.1 | 74.9 | 74.6 |
| Foreign | 173.4 | 251.4 | 777.3 | 188.1 | 120.5 | 167.9 | 174.8 | 113.3 | 133.0 | 132.2 | 86.5 |

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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

**Table C-105. Federal obligations for total research, by detailed field of science and engineering:
fiscal years 1976-86**

[Dollars in millions]

Page 1 of 1

| Field of science and engineering | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
|-------------------------------------|---------|---------|---------|----------|----------|----------|----------|----------|----------|----------|----------|
| Total, all fields | 7,619.3 | 8,514.1 | 9,606.8 | 10,535.0 | 11,597.4 | 12,212.8 | 13,022.2 | 14,253.5 | 14,978.8 | 16,133.4 | 16,502.2 |
| Life sciences, total | 2,649.7 | 3,007.7 | 3,427.1 | 3,848.3 | 4,192.3 | 4,435.6 | 4,745.5 | 5,177.9 | 5,635.9 | 6,362.5 | 6,464.3 |
| Biol & agricultural, total | 1,535.8 | 1,777.6 | 2,024.0 | 2,320.3 | 2,507.6 | 2,711.8 | 2,811.8 | 3,064.4 | 3,325.0 | 3,755.3 | 3,861.3 |
| Biol (excl environmental) | NA | NA | 1,488.5 | 1,702.2 | 1,830.6 | 1,996.6 | 2,079.3 | 2,305.5 | 2,563.1 | 2,885.7 | 2,993.4 |
| Environmental biology | NA | NA | 184.9 | 216.6 | 229.7 | 220.3 | 183.5 | 193.6 | 250.0 | 260.3 | 264.1 |
| Agricultural | NA | NA | 350.7 | 401.5 | 447.2 | 494.8 | 549.0 | 565.2 | 512.0 | 609.3 | 603.8 |
| Medical sciences, total | 1,042.9 | 1,138.8 | 1,287.4 | 1,380.6 | 1,536.9 | 1,609.9 | 1,773.0 | 1,927.5 | 2,112.8 | 2,368.5 | 2,360.4 |
| Clinical medical | 586.7 | 634.4 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Other medical | 456.3 | 504.4 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Life sciences, n.e.c. | 71.0 | 91.4 | 115.7 | 147.3 | 147.9 | 113.9 | 160.7 | 186.1 | 198.1 | 238.7 | 242.6 |
| Psychology, total | 144.0 | 156.2 | 176.7 | 197.4 | 199.0 | 208.9 | 218.4 | 240.9 | 266.7 | 327.1 | 334.0 |
| Biological aspects | 43.8 | 57.6 | 53.4 | 56.8 | 59.9 | 57.5 | 59.6 | 63.2 | 80.8 | 91.2 | 90.1 |
| Social aspects | 54.9 | 54.5 | 65.4 | 83.6 | 94.8 | 93.5 | 98.1 | 104.7 | 107.8 | 142.9 | 143.5 |
| Psychological sci. n.e.c. | 45.3 | 44.1 | 57.9 | 57.0 | 44.3 | 57.9 | 60.7 | 73.0 | 78.1 | 93.1 | 100.4 |
| Physical sciences, total | 1,258.9 | 1,530.2 | 1,645.6 | 1,792.6 | 2,000.6 | 2,220.5 | 2,500.4 | 2,891.4 | 2,969.0 | 3,046.0 | 3,069.1 |
| Astronomy | 163.1 | 197.3 | 213.6 | 284.4 | 285.7 | 281.0 | 275.8 | 357.4 | 382.3 | 414.7 | 468.2 |
| Chemistry | 328.4 | 370.7 | 405.0 | 443.6 | 454.5 | 486.9 | 481.2 | 520.3 | 606.4 | 650.4 | 662.4 |
| Physics | 709.3 | 866.3 | 942.4 | 1,022.7 | 1,182.5 | 1,345.6 | 1,610.5 | 1,854.6 | 1,836.4 | 1,816.0 | 1,805.9 |
| Physical sciences, n.e.c. | 58.1 | 95.9 | 84.6 | 41.8 | 77.9 | 107.0 | 132.9 | 159.2 | 143.9 | 164.8 | 132.6 |
| Environmental sciences, total | 769.3 | 906.0 | 1,024.6 | 1,101.0 | 1,261.0 | 1,121.1 | 1,148.3 | 1,251.2 | 1,275.9 | 1,403.7 | 1,481.7 |
| Atmospheric sciences | 289.3 | 318.4 | 319.2 | 348.7 | 409.5 | 373.4 | 425.8 | 460.7 | 434.1 | 486.0 | 521.3 |
| Geological sciences | 227.2 | 269.4 | 316.4 | 358.7 | 401.8 | 396.1 | 357.6 | 333.5 | 359.0 | 429.0 | 443.9 |
| Oceanography | 164.0 | 195.9 | 223.8 | 220.5 | 262.1 | 261.7 | 261.3 | 343.5 | 363.5 | 398.5 | 429.7 |
| Environmental sci, n.e.c. | 88.8 | 122.3 | 165.2 | 173.1 | 187.6 | 89.9 | 103.6 | 113.5 | 119.3 | 90.2 | 86.8 |
| Math & computer sci, total | 157.8 | 195.9 | 216.3 | 210.3 | 240.9 | 278.9 | 350.1 | 419.4 | 440.3 | 574.9 | 615.4 |
| Mathematics | 69.9 | 96.4 | 93.4 | 84.2 | 90.9 | 117.7 | 128.1 | 133.5 | 151.0 | 183.6 | 184.5 |
| Computer sciences | 73.6 | 89.4 | 107.3 | 106.3 | 128.6 | 121.5 | 170.9 | 214.6 | 214.5 | 280.3 | 302.4 |
| Math & computer sci, n.e.c. | 14.3 | 10.1 | 15.7 | 19.9 | 21.4 | 39.7 | 51.0 | 71.4 | 74.8 | 111.0 | 128.5 |
| Engineering, total | 2,068.7 | 2,112.9 | 2,421.2 | 2,571.6 | 2,830.1 | 3,071.5 | 3,386.5 | 3,517.0 | 3,624.1 | 3,617.6 | 3,738.9 |
| Aeronautical | 526.8 | 408.8 | 482.9 | 624.9 | 708.1 | 709.6 | 741.2 | 820.6 | 860.4 | 738.0 | 775.6 |
| Astronautical | 179.4 | 159.0 | 165.1 | 251.1 | 302.3 | 303.9 | 290.7 | 321.5 | 396.8 | 424.7 | 526.9 |
| Chemical | 88.3 | 104.8 | 149.4 | 114.3 | 96.3 | 147.6 | 95.1 | 145.0 | 144.5 | 254.3 | 245.8 |
| Civil | 105.9 | 117.4 | 142.4 | 125.0 | 158.8 | 159.1 | 201.9 | 188.5 | 202.8 | 216.6 | 202.9 |
| Electrical | 297.7 | 382.7 | 432.6 | 417.9 | 517.1 | 556.7 | 612.2 | 614.9 | 630.0 | 626.8 | 674.4 |
| Mechanical | 185.7 | 199.2 | 234.1 | 195.9 | 208.0 | 204.6 | 201.2 | 266.4 | 190.5 | 267.0 | 236.5 |
| Metallurgy & materials | 274.9 | 293.8 | 286.0 | 249.3 | 236.2 | 256.0 | 309.1 | 332.5 | 341.1 | 439.2 | 445.0 |
| Engineering, n.e.c. | 410.0 | 447.2 | 528.6 | 593.2 | 603.3 | 733.9 | 935.1 | 827.6 | 858.0 | 651.0 | 631.7 |
| Social sciences, total | 392.5 | 426.1 | 489.5 | 527.3 | 523.8 | 497.4 | 385.9 | 435.3 | 436.3 | 460.0 | 415.5 |
| Anthropology | 13.6 | 12.4 | 19.5 | 17.3 | 17.2 | 14.5 | 14.6 | 12.8 | 18.6 | 18.0 | 13.6 |
| Economics | 137.6 | 142.9 | 163.2 | 181.9 | 192.8 | 206.7 | 157.1 | 165.6 | 147.3 | 159.7 | 131.3 |
| Political science | 7.2 | 8.5 | 8.8 | 13.9 | 12.2 | 10.8 | 7.5 | 11.1 | 10.8 | 14.6 | 11.6 |
| Sociology | 53.6 | 52.2 | 60.3 | 64.5 | 71.4 | 65.0 | 52.0 | 67.8 | 70.2 | 66.5 | 67.0 |
| Social sciences, n.e.c. | 180.4 | 210.3 | 237.6 | 249.6 | 230.3 | 200.4 | 154.7 | 178.0 | 189.5 | 201.3 | 192.0 |
| Other sciences, n.e.c. | 178.6 | 179.1 | 205.8 | 286.6 | 349.6 | 378.8 | 287.0 | 320.4 | 330.5 | 341.6 | 383.3 |

NOTE: 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)
n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

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Table C-105a. Federal obligations for total research, by detailed field of science and engineering: fiscal years 1987-97

[Dollars in millions]

| Field of science and engineering | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | Preliminary | |
|-------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-------------|----------|
| | | | | | | | | | | 1996 | 1997 |
| Total, all fields | 17,940.5 | 18,650.1 | 20,765.5 | 21,622.4 | 23,968.4 | 24,490.6 | 26,890.5 | 27,440.4 | 28,573.4 | 28,577.8 | 29,173.5 |
| Life sciences, total | 7,341.4 | 7,724.5 | 8,495.1 | 8,829.8 | 9,622.0 | 9,910.5 | 10,772.1 | 11,290.6 | 11,869.4 | 12,150.1 | 12,299.6 |
| Biol & agricultural, total | 4,358.5 | 4,573.4 | 5,020.0 | 5,178.4 | 5,597.9 | 5,633.6 | 6,059.3 | 6,080.7 | 6,428.6 | NA | NA |
| Biol (excl environmental) | 3,502.0 | 3,681.7 | 3,983.2 | 4,144.6 | 4,411.9 | 4,380.3 | 4,730.6 | 4,682.6 | 4,803.9 | NA | NA |
| Environmental biology | 289.6 | 301.0 | 367.8 | 342.3 | 459.7 | 511.0 | 556.5 | 609.5 | 891.5 | NA | NA |
| Agricultural | 566.9 | 590.7 | 669.0 | 691.4 | 726.2 | 742.3 | 772.2 | 788.6 | 733.2 | NA | NA |
| Medical sciences | 2,664.8 | 2,941.0 | 3,222.5 | 3,382.4 | 3,460.3 | 3,909.9 | 4,404.4 | 4,846.5 | 5,004.6 | NA | NA |
| Life sciences, n.e.c. | 318.2 | 210.1 | 252.6 | 269.1 | 563.8 | 367.0 | 308.3 | 363.5 | 436.3 | NA | NA |
| Psychology, total | 369.5 | 389.8 | 421.7 | 448.6 | 482.4 | 298.1 | 550.7 | 549.8 | 620.8 | 641.3 | 650.2 |
| Biological aspects | 98.3 | 105.3 | 121.8 | 130.6 | 140.2 | 34.6 | 37.2 | 46.9 | 57.0 | NA | NA |
| Social aspects | 154.5 | 149.4 | 149.9 | 177.5 | 197.5 | 100.9 | 134.7 | 116.8 | 156.3 | NA | NA |
| Psychological sci, n.e.c. | 116.7 | 135.2 | 149.9 | 140.5 | 144.8 | 162.6 | 378.7 | 386.1 | 407.5 | NA | NA |
| Physical sciences, total | 3,252.6 | 3,317.3 | 3,705.2 | 3,808.7 | 4,235.3 | 4,439.2 | 4,427.0 | 4,258.1 | 4,281.6 | 4,322.4 | 4,398.2 |
| Astronomy | 522.2 | 470.8 | 541.9 | 597.2 | 631.7 | 739.1 | 686.3 | 747.1 | 764.9 | NA | NA |
| Chemistry | 680.3 | 703.1 | 782.6 | 761.7 | 828.4 | 896.2 | 843.2 | 872.3 | 866.2 | NA | NA |
| Physics | 1,853.6 | 1,975.3 | 2,190.8 | 2,254.9 | 2,460.9 | 2,578.2 | 2,638.4 | 2,436.0 | 2,451.3 | NA | NA |
| Physical sciences, n.e.c. | 196.6 | 168.1 | 189.9 | 195.0 | 314.3 | 225.7 | 259.2 | 202.7 | 199.2 | NA | NA |
| Environmental sciences, total | 1,511.6 | 1,607.0 | 1,773.2 | 2,174.1 | 2,149.8 | 2,207.6 | 2,608.5 | 2,827.6 | 2,947.4 | 2,924.1 | 2,955.1 |
| Atmospheric sciences | 552.9 | 587.8 | 588.0 | 773.4 | 802.7 | 767.3 | 984.1 | 1,088.1 | 1,176.1 | NA | NA |
| Geological sciences | 441.7 | 441.6 | 542.8 | 661.1 | 728.7 | 735.7 | 797.9 | 835.2 | 864.2 | NA | NA |
| Oceanography | 427.4 | 460.4 | 491.9 | 520.1 | 398.6 | 458.9 | 467.4 | 487.3 | 424.0 | NA | NA |
| Environmental sci, n.e.c. | 89.5 | 117.1 | 150.5 | 219.5 | 219.8 | 245.8 | 359.2 | 417.1 | 483.0 | NA | NA |
| Math & computer sci, total | 640.6 | 642.9 | 735.4 | 840.7 | 903.7 | 1,160.3 | 1,225.4 | 1,291.5 | 1,530.9 | 1,508.3 | 1,545.8 |
| Mathematics | 204.5 | 217.9 | 236.1 | 241.3 | 227.6 | 318.7 | 290.8 | 339.1 | 359.2 | NA | NA |
| Computer sciences | 297.8 | 292.7 | 364.6 | 562.1 | 584.9 | 771.8 | 826.1 | 811.0 | 961.9 | NA | NA |
| Math & computer sci, n.e.c. | 138.3 | 132.3 | 134.8 | 37.3 | 91.1 | 69.9 | 108.5 | 141.4 | 209.8 | NA | NA |
| Engineering, total | 3,906.3 | 3,956.4 | 4,442.2 | 4,226.6 | 4,944.5 | 4,977.0 | 5,499.4 | 5,509.0 | 5,740.1 | 5,508.5 | 5,707.7 |
| Aeronautical | 810.4 | 801.8 | 986.8 | 927.1 | 1,016.2 | 874.6 | 1,193.0 | 1,236.2 | 1,248.6 | NA | NA |
| Astronautical | 624.6 | 575.4 | 677.4 | 580.8 | 653.1 | 630.4 | 494.0 | 499.1 | 545.1 | NA | NA |
| Chemical | 215.8 | 258.1 | 142.2 | 241.9 | 304.3 | 297.5 | 245.5 | 234.8 | 250.4 | NA | NA |
| Civil | 204.4 | 214.9 | 229.8 | 317.7 | 305.0 | 330.2 | 252.0 | 296.4 | 340.4 | NA | NA |
| Electrical | 786.3 | 731.1 | 843.1 | 640.0 | 729.9 | 759.0 | 881.5 | 713.0 | 765.9 | NA | NA |
| Mechanical | 233.5 | 240.8 | 257.4 | 268.3 | 335.5 | 337.2 | 466.9 | 366.0 | 418.1 | NA | NA |
| Metallurgy & materials | 362.0 | 456.7 | 521.0 | 554.5 | 710.7 | 727.2 | 695.7 | 839.1 | 793.3 | NA | NA |
| Engineering, n.e.c. | 669.3 | 677.8 | 784.5 | 696.3 | 889.8 | 1,020.8 | 1,270.9 | 1,324.5 | 1,378.3 | NA | NA |
| Social sciences, total | 480.0 | 485.8 | 551.0 | 630.0 | 727.3 | 689.7 | 674.9 | 655.2 | 681.5 | 669.4 | 727.6 |
| Anthropology | 15.2 | 14.3 | 13.9 | 14.4 | 16.0 | 14.1 | 13.7 | 16.9 | 22.1 | NA | NA |
| Economics | 148.5 | 159.5 | 166.8 | 197.2 | 187.4 | 211.6 | 204.7 | 195.3 | 205.9 | NA | NA |
| Political science | 11.3 | 12.2 | 13.5 | 13.1 | 17.0 | 22.6 | 29.2 | 28.5 | 24.1 | NA | NA |
| Sociology | 74.0 | 81.8 | 94.1 | 116.2 | 184.0 | 80.7 | 76.7 | 69.3 | 48.5 | NA | NA |
| Social sciences, n.e.c. | 231.0 | 218.0 | 262.8 | 289.1 | 322.9 | 360.8 | 350.5 | 345.3 | 380.9 | NA | NA |
| Other sciences, n.e.c. | 438.3 | 526.5 | 641.6 | 663.7 | 903.4 | 808.3 | 1,132.5 | 1,058.4 | 901.8 | 853.5 | 889.3 |

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

The National Aeronautics and Space Administration has made a statistical adjustment to the 1994, 1995, 1996, and 1997 field of science and engineering values to diminish a computational error introduced by its software.

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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

**Table C-106. Federal obligations for basic research, by detailed field of science and engineering:
fiscal years 1976-86**

[Dollars in millions]

| Field of science and engineering | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
|-------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Total, all fields | 2,767.5 | 3,258.6 | 3,698.6 | 4,192.7 | 4,674.2 | 5,041.3 | 5,481.6 | 6,260.1 | 7,067.4 | 7,818.7 | 8,153.1 |
| Life sciences, total | 1,222.0 | 1,383.4 | 1,588.4 | 1,891.8 | 2,054.4 | 2,223.8 | 2,526.0 | 2,891.3 | 3,287.6 | 3,786.6 | 3,858.8 |
| Biol & agricultural, total | 818.4 | 933.6 | 1,078.7 | 1,279.3 | 1,339.4 | 1,462.4 | 1,674.8 | 1,928.8 | 2,174.7 | 2,515.5 | 2,543.0 |
| Biol (excl environmental) | NA | NA | 874.5 | 1,055.5 | 1,099.9 | 1,201.7 | 1,401.2 | 1,621.9 | 1,835.8 | 2,106.3 | 2,151.5 |
| Environmental biology | NA | NA | 64.3 | 90.8 | 86.1 | 83.3 | 83.2 | 92.7 | 120.8 | 125.7 | 125.7 |
| Agricultural | NA | NA | 139.8 | 133.0 | 153.5 | 177.4 | 190.4 | 214.2 | 218.1 | 283.5 | 265.7 |
| Medical sciences, total | 374.4 | 414.8 | 467.7 | 560.1 | 657.0 | 706.2 | 793.4 | 878.9 | 1,015.3 | 1,145.4 | 1,196.6 |
| Clinical medical | 41.6 | 39.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Other medical | 332.8 | 375.2 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Life sciences, n.e.c. | 29.2 | 35.0 | 42.0 | 52.4 | 58.0 | 55.3 | 57.8 | 83.6 | 97.7 | 125.7 | 119.2 |
| Psychology, total | 45.5 | 55.7 | 67.5 | 75.1 | 84.2 | 91.0 | 89.9 | 92.9 | 107.9 | 132.8 | 133.0 |
| Biological aspects | 18.5 | 22.5 | 23.5 | 26.4 | 30.2 | 30.5 | 32.9 | 31.4 | 43.7 | 48.0 | 47.0 |
| Social aspects | 16.1 | 20.0 | 25.3 | 34.0 | 31.3 | 30.2 | 33.7 | 32.8 | 33.4 | 46.9 | 45.3 |
| Psychological sci, n.e.c. | 11.0 | 13.1 | 18.7 | 14.7 | 22.8 | 30.2 | 23.3 | 28.7 | 30.8 | 38.0 | 40.7 |
| Physical sciences, total | 721.4 | 890.0 | 941.4 | 1,050.0 | 1,220.6 | 1,324.9 | 1,393.8 | 1,587.2 | 1,728.0 | 1,815.2 | 1,914.4 |
| Astronomy | 160.0 | 193.3 | 209.8 | 280.6 | 279.4 | 274.2 | 271.1 | 354.5 | 379.6 | 400.7 | 453.1 |
| Chemistry | 168.3 | 208.7 | 203.3 | 224.8 | 256.9 | 298.2 | 312.0 | 362.2 | 403.4 | 425.0 | 433.4 |
| Physics | 388.4 | 467.4 | 518.8 | 535.6 | 668.2 | 735.4 | 790.7 | 855.1 | 921.4 | 959.9 | 1,003.4 |
| Physical sciences, n.e.c. | 4.8 | 20.6 | 9.5 | 8.9 | 16.1 | 17.1 | 20.0 | 15.4 | 23.6 | 29.7 | 24.7 |
| Environmental sciences, total | 294.3 | 387.5 | 451.3 | 457.3 | 522.4 | 532.8 | 520.0 | 580.1 | 656.7 | 699.7 | 749.1 |
| Atmospheric sciences | 114.0 | 143.5 | 163.3 | 169.2 | 179.0 | 173.8 | 163.2 | 172.6 | 192.2 | 209.2 | 240.4 |
| Geological sciences | 95.7 | 128.7 | 145.1 | 157.6 | 198.3 | 194.2 | 177.5 | 178.3 | 198.0 | 250.0 | 265.5 |
| Oceanography | 76.6 | 104.6 | 120.7 | 119.1 | 130.7 | 143.3 | 154.5 | 195.6 | 220.1 | 219.3 | 224.3 |
| Environmental sci, n.e.c. | 8.0 | 10.7 | 22.2 | 11.4 | 14.3 | 21.5 | 24.9 | 33.5 | 46.4 | 21.2 | 18.9 |
| Math & computer sci, total | 81.8 | 83.4 | 97.7 | 104.2 | 116.3 | 140.4 | 165.1 | 208.1 | 240.8 | 260.0 | 293.4 |
| Mathematics | 43.2 | 52.1 | 55.9 | 60.0 | 66.8 | 79.2 | 90.9 | 100.9 | 113.9 | 130.3 | 142.4 |
| Computer sciences | 26.6 | 31.0 | 40.3 | 43.0 | 46.2 | 52.2 | 67.4 | 90.4 | 104.8 | 116.1 | 131.4 |
| Math & computer sci, n.e.c. | 12.0 | .3 | 1.6 | 1.2 | 3.2 | 9.0 | 6.8 | 16.8 | 22.2 | 13.6 | 19.6 |
| Engineering, total | 272.8 | 337.7 | 392.6 | 434.7 | 465.2 | 526.0 | 610.5 | 689.5 | 845.0 | 884.2 | 968.5 |
| Aeronautical | 32.0 | 49.5 | 82.8 | 88.4 | 104.2 | 113.3 | 126.5 | 140.7 | 225.5 | 191.5 | 226.3 |
| Astronautical | 11.9 | 10.2 | 14.9 | 25.2 | 27.2 | 33.2 | 44.8 | 50.4 | 52.4 | 41.6 | 52.5 |
| Chemical | 18.4 | 24.0 | 24.1 | 24.6 | 26.1 | 31.3 | 35.2 | 50.4 | 55.5 | 74.4 | 73.0 |
| Civil | 7.8 | 10.4 | 10.8 | 14.2 | 22.0 | 23.4 | 32.0 | 32.4 | 41.9 | 43.6 | 45.2 |
| Electrical | 53.1 | 55.1 | 57.4 | 62.0 | 70.6 | 78.5 | 93.6 | 95.8 | 130.4 | 144.9 | 156.3 |
| Mechanical | 20.1 | 29.6 | 29.5 | 35.9 | 42.2 | 47.4 | 53.1 | 60.7 | 64.1 | 88.2 | 83.6 |
| Metallurgy & materials | 103.3 | 124.9 | 134.5 | 151.1 | 121.3 | 138.5 | 155.9 | 182.9 | 187.3 | 211.9 | 228.5 |
| Engineering, n.e.c. | 26.3 | 33.9 | 38.4 | 33.2 | 51.6 | 60.5 | 69.4 | 76.2 | 87.9 | 88.2 | 103.2 |
| Social sciences, total | 86.4 | 95.5 | 124.3 | 129.7 | 147.2 | 137.0 | 120.2 | 137.7 | 132.6 | 140.7 | 113.5 |
| Anthropology | 6.4 | 8.0 | 12.0 | 12.5 | 14.2 | 13.1 | 13.1 | 11.2 | 16.8 | 15.8 | 11.2 |
| Economics | 25.6 | 29.1 | 33.6 | 32.7 | 40.0 | 34.1 | 39.0 | 41.0 | 29.7 | 34.3 | 26.3 |
| Political science | 3.0 | 2.5 | 3.2 | 4.1 | 7.4 | 6.3 | 4.4 | 4.6 | 4.1 | 5.8 | 4.1 |
| Sociology | 16.6 | 15.9 | 18.6 | 18.4 | 25.4 | 22.6 | 18.7 | 32.8 | 33.9 | 32.4 | 30.0 |
| Social sciences, n.e.c. | 34.8 | 39.9 | 57.0 | 62.0 | 60.2 | 60.9 | 45.1 | 48.2 | 48.1 | 52.4 | 41.9 |
| Other sciences, n.e.c. | 43.1 | 25.5 | 35.4 | 50.0 | 63.9 | 65.4 | 56.1 | 73.3 | 68.8 | 99.4 | 122.5 |

NOTE: 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)
n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

**Table C-106a. Federal obligations for basic research, by detailed field of science and engineering:
fiscal years 1987-97**

[Dollars in millions]

Page 1 of 1

| Field of science and engineering | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | Preliminary | |
|-------------------------------------|---------|---------|----------|----------|----------|----------|----------|----------|----------|-------------|----------|
| | | | | | | | | | | 1996 | 1997 |
| Total, all fields | 8,942.4 | 9,473.6 | 10,602.0 | 11,285.6 | 12,170.8 | 12,489.9 | 13,399.1 | 13,552.9 | 13,895.5 | 14,482.1 | 14,732.3 |
| Life sciences, total | 4,361.9 | 4,501.8 | 4,915.7 | 5,177.5 | 5,433.6 | 5,841.7 | 6,288.8 | 6,478.6 | 6,645.3 | 6,896.1 | 7,043.4 |
| Biol & agricultural, total | 2,870.4 | 2,855.3 | 3,102.9 | 3,219.0 | 3,374.9 | 3,517.6 | 3,787.8 | 3,729.8 | 3,855.8 | NA | NA |
| Biol (excl environmental) | 2,461.5 | 2,414.9 | 2,647.2 | 2,742.2 | 2,868.5 | 2,981.8 | 3,222.5 | 3,137.7 | 3,198.6 | NA | NA |
| Environmental biology | 141.0 | 146.8 | 157.3 | 168.3 | 186.9 | 201.6 | 223.2 | 221.6 | 289.8 | NA | NA |
| Agricultural | 267.9 | 293.7 | 298.4 | 308.5 | 319.4 | 334.2 | 342.2 | 370.5 | 367.4 | NA | NA |
| Medical sciences | 1,341.0 | 1,573.2 | 1,708.4 | 1,849.6 | 1,857.7 | 2,131.0 | 2,380.9 | 2,594.6 | 2,640.6 | NA | NA |
| Life sciences, n.e.c. | 150.6 | 73.2 | 104.4 | 108.9 | 201.0 | 193.1 | 120.1 | 154.2 | 148.9 | NA | NA |
| Psychology, total | 147.1 | 177.8 | 187.1 | 215.1 | 225.5 | 122.6 | 246.8 | 247.5 | 275.5 | 288.6 | 294.4 |
| Biological aspects | 49.3 | 52.4 | 61.0 | 65.3 | 68.2 | 14.3 | 18.1 | 23.6 | 28.9 | NA | NA |
| Social aspects | 45.5 | 40.9 | 38.1 | 60.9 | 69.2 | 16.9 | 16.0 | 16.3 | 22.2 | NA | NA |
| Psychological sci, n.e.c. | 52.3 | 84.5 | 88.0 | 88.8 | 88.1 | 91.4 | 212.7 | 207.7 | 224.4 | NA | NA |
| Physical sciences, total | 2,096.0 | 2,199.6 | 2,506.5 | 2,661.5 | 2,881.5 | 2,951.4 | 2,907.1 | 2,831.6 | 2,863.0 | 3,160.7 | 3,185.6 |
| Astronomy | 504.5 | 458.5 | 524.6 | 579.9 | 612.3 | 729.7 | 663.4 | 724.4 | 732.0 | NA | NA |
| Chemistry | 445.1 | 470.8 | 504.6 | 502.1 | 538.7 | 556.6 | 543.7 | 538.2 | 557.1 | NA | NA |
| Physics | 1,072.3 | 1,205.5 | 1,395.3 | 1,474.3 | 1,644.9 | 1,607.5 | 1,600.6 | 1,495.1 | 1,507.5 | NA | NA |
| Physical sciences, n.e.c. | 74.2 | 64.8 | 81.9 | 105.1 | 85.5 | 57.6 | 99.4 | 74.0 | 66.4 | NA | NA |
| Environmental sciences, total | 781.0 | 872.7 | 1,016.9 | 1,274.8 | 1,263.5 | 1,303.6 | 1,533.5 | 1,505.9 | 1,473.2 | 1,512.7 | 1,496.0 |
| Atmospheric sciences | 243.8 | 280.7 | 316.4 | 443.7 | 449.0 | 435.2 | 635.1 | 691.4 | 694.1 | NA | NA |
| Geological sciences | 266.2 | 267.3 | 334.9 | 439.7 | 499.0 | 526.5 | 555.3 | 485.0 | 453.7 | NA | NA |
| Oceanography | 249.8 | 269.4 | 293.5 | 299.7 | 197.5 | 210.0 | 207.2 | 180.7 | 185.9 | NA | NA |
| Environmental sci, n.e.c. | 21.2 | 55.2 | 72.1 | 91.6 | 118.0 | 131.9 | 135.9 | 148.8 | 139.6 | NA | NA |
| Math & computer sci, total | 306.4 | 313.2 | 345.8 | 406.9 | 426.1 | 481.4 | 511.3 | 511.6 | 554.0 | 597.8 | 604.3 |
| Mathematics | 158.4 | 165.4 | 167.8 | 176.3 | 164.4 | 228.2 | 221.8 | 244.5 | 264.6 | NA | NA |
| Computer sciences | 128.5 | 125.5 | 159.5 | 225.2 | 223.5 | 247.7 | 284.3 | 243.1 | 264.3 | NA | NA |
| Math & computer sci, n.e.c. | 19.5 | 22.4 | 18.4 | 5.3 | 38.2 | 5.5 | 5.1 | 24.1 | 25.1 | NA | NA |
| Engineering, total | 989.5 | 1,006.2 | 1,183.7 | 1,101.5 | 1,233.7 | 1,249.8 | 1,207.4 | 1,320.0 | 1,468.1 | 1,392.5 | 1,453.2 |
| Aeronautical | 237.4 | 231.0 | 327.9 | 269.6 | 256.2 | 245.1 | 246.2 | 289.3 | 270.9 | NA | NA |
| Astronautical | 48.8 | 48.4 | 58.9 | 62.3 | 69.7 | 94.4 | 53.6 | 59.8 | 64.7 | NA | NA |
| Chemical | 77.5 | 88.6 | 50.1 | 75.8 | 101.7 | 105.0 | 72.8 | 67.5 | 65.5 | NA | NA |
| Civil | 45.7 | 46.1 | 51.7 | 47.3 | 59.3 | 53.4 | 38.7 | 56.6 | 71.1 | NA | NA |
| Electrical | 175.4 | 154.0 | 173.8 | 146.9 | 142.5 | 165.4 | 203.1 | 176.9 | 213.6 | NA | NA |
| Mechanical | 87.2 | 83.5 | 100.8 | 91.4 | 115.6 | 113.9 | 142.6 | 129.5 | 169.9 | NA | NA |
| Metallurgy & materials | 209.8 | 230.1 | 254.8 | 260.2 | 294.6 | 273.6 | 241.3 | 317.8 | 346.1 | NA | NA |
| Engineering, n.e.c. | 107.8 | 124.4 | 165.7 | 147.9 | 194.3 | 199.2 | 209.1 | 222.5 | 266.2 | NA | NA |
| Social sciences, total | 129.5 | 146.8 | 154.6 | 146.0 | 161.3 | 139.9 | 194.1 | 191.9 | 209.5 | 214.5 | 226.7 |
| Anthropology | 12.3 | 12.1 | 12.1 | 12.5 | 12.7 | 11.0 | 10.0 | 10.3 | 15.5 | NA | NA |
| Economics | 29.0 | 34.7 | 37.7 | 37.1 | 37.3 | 39.3 | 46.0 | 40.3 | 44.1 | NA | NA |
| Political science | 5.5 | 5.1 | 5.4 | 6.4 | 7.1 | 6.4 | 6.4 | 7.9 | 8.9 | NA | NA |
| Sociology | 34.3 | 36.8 | 38.2 | 24.2 | 28.2 | 10.2 | 11.1 | 14.3 | 15.0 | NA | NA |
| Social sciences, n.e.c. | 48.4 | 58.1 | 61.2 | 65.8 | 75.9 | 72.9 | 120.6 | 119.1 | 126.0 | NA | NA |
| Other sciences, n.e.c. | 130.9 | 255.5 | 291.7 | 302.3 | 545.6 | 399.4 | 510.1 | 465.6 | 406.9 | 419.0 | 428.5 |

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

The National Aeronautics and Space Administration has made a statistical adjustment to the 1994, 1995, 1996, and 1997 field of science and engineering values to diminish a computational error introduced by its software.

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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

**Table C-107. Federal obligations for applied research, by detailed field of science and engineering:
fiscal years 1976-86**

[Dollars in millions]

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| Field of science and engineering | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
|-------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Total, all fields | 4,851.9 | 5,255.5 | 5,908.2 | 6,342.3 | 6,923.2 | 7,171.5 | 7,540.6 | 7,993.4 | 7,911.4 | 8,314.7 | 8,349.1 |
| Life sciences, total | 1,427.7 | 1,624.4 | 1,838.7 | 1,956.5 | 2,137.9 | 2,211.8 | 2,219.5 | 2,286.6 | 2,348.3 | 2,575.9 | 2,605.5 |
| Biol & agricultural, total | 717.4 | 844.0 | 945.3 | 1,041.0 | 1,168.1 | 1,249.4 | 1,137.0 | 1,135.6 | 1,150.3 | 1,239.8 | 1,318.4 |
| Biol (excl environmental) | NA | NA | 614.0 | 646.7 | 730.8 | 794.9 | 678.1 | 683.7 | 727.3 | 779.3 | 841.9 |
| Environmental biology | NA | NA | 120.5 | 125.8 | 143.6 | 137.0 | 100.4 | 101.0 | 129.2 | 134.6 | 138.3 |
| Agricultural | NA | NA | 210.8 | 268.6 | 293.7 | 317.4 | 358.6 | 351.0 | 293.8 | 325.8 | 338.1 |
| Medical sciences, total | 668.6 | 724.0 | 819.8 | 820.5 | 879.9 | 903.7 | 979.6 | 1,048.5 | 1,097.5 | 1,223.1 | 1,163.8 |
| Clinical medical | 545.1 | 594.8 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Other medical | 123.5 | 129.2 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Life sciences, n.e.c. | 41.7 | 56.4 | 73.6 | 95.0 | 89.9 | 58.7 | 102.9 | 102.4 | 100.4 | 113.0 | 123.3 |
| Psychology, total | 98.5 | 100.5 | 109.2 | 122.3 | 114.8 | 117.9 | 128.5 | 147.9 | 158.8 | 194.3 | 201.0 |
| Biological aspects | 25.3 | 35.1 | 29.9 | 30.4 | 29.7 | 27.0 | 26.7 | 31.8 | 37.1 | 43.2 | 43.1 |
| Social aspects | 38.8 | 34.5 | 40.1 | 49.6 | 63.5 | 63.3 | 64.4 | 71.8 | 74.3 | 96.0 | 98.3 |
| Psychological sci, n.e.c. | 34.3 | 30.9 | 39.1 | 42.3 | 21.5 | 27.7 | 37.4 | 44.3 | 47.4 | 55.1 | 59.7 |
| Physical sciences, total | 537.5 | 640.2 | 704.2 | 742.6 | 780.0 | 895.6 | 1,106.5 | 1,304.3 | 1,241.0 | 1,230.8 | 1,154.6 |
| Astronomy | 3.1 | 4.0 | 3.8 | 3.8 | 6.3 | 6.8 | 4.7 | 3.0 | 2.7 | 14.1 | 15.1 |
| Chemistry | 160.2 | 162.0 | 201.7 | 218.8 | 197.6 | 188.7 | 169.2 | 158.1 | 203.0 | 225.4 | 229.0 |
| Physics | 320.8 | 398.8 | 423.6 | 487.1 | 514.4 | 610.2 | 819.8 | 999.5 | 915.0 | 856.1 | 802.6 |
| Physical sciences, n.e.c. | 53.3 | 75.3 | 75.1 | 32.8 | 61.8 | 89.9 | 112.9 | 143.7 | 120.3 | 135.2 | 107.9 |
| Environmental sciences, total | 475.0 | 518.5 | 573.3 | 643.7 | 738.6 | 588.2 | 628.3 | 671.2 | 619.2 | 704.0 | 732.6 |
| Atmospheric sciences | 175.3 | 174.9 | 155.9 | 179.5 | 230.5 | 199.6 | 262.6 | 288.1 | 242.0 | 276.8 | 280.9 |
| Geological sciences | 131.5 | 140.7 | 171.2 | 201.1 | 203.4 | 201.9 | 180.1 | 155.2 | 161.0 | 179.0 | 178.4 |
| Oceanography | 87.4 | 91.3 | 103.1 | 101.4 | 131.4 | 118.4 | 106.8 | 147.9 | 143.4 | 179.3 | 205.4 |
| Environmental sci, n.e.c. | 80.8 | 111.6 | 143.0 | 161.7 | 173.3 | 68.4 | 78.7 | 80.0 | 72.9 | 69.0 | 67.9 |
| Math & computer sci, total | 76.0 | 112.5 | 118.5 | 106.1 | 124.7 | 138.6 | 185.0 | 211.3 | 199.5 | 314.9 | 322.0 |
| Mathematics | 26.7 | 44.3 | 37.5 | 24.2 | 24.1 | 38.6 | 37.3 | 32.6 | 37.1 | 53.4 | 42.1 |
| Computer sciences | 47.0 | 58.3 | 67.0 | 63.3 | 82.4 | 69.3 | 103.5 | 124.1 | 109.7 | 164.2 | 171.0 |
| Math & computer sci, n.e.c. | 2.3 | 9.9 | 14.1 | 18.6 | 18.2 | 30.7 | 44.3 | 54.6 | 52.7 | 97.3 | 108.9 |
| Engineering, total | 1,795.9 | 1,775.2 | 2,028.6 | 2,137.0 | 2,364.9 | 2,545.4 | 2,776.1 | 2,827.5 | 2,779.1 | 2,733.4 | 2,770.4 |
| Aeronautical | 494.8 | 359.3 | 400.0 | 536.5 | 604.0 | 596.3 | 614.7 | 679.9 | 634.9 | 546.5 | 549.3 |
| Astronautical | 167.5 | 148.8 | 150.2 | 226.0 | 275.1 | 270.8 | 245.9 | 271.1 | 344.4 | 383.2 | 474.4 |
| Chemical | 69.8 | 80.8 | 125.3 | 89.7 | 70.2 | 116.3 | 59.9 | 94.6 | 88.9 | 179.9 | 172.8 |
| Civil | 98.1 | 107.0 | 131.6 | 110.8 | 136.8 | 135.8 | 169.9 | 156.0 | 161.0 | 173.0 | 157.8 |
| Electrical | 244.6 | 327.6 | 375.2 | 355.8 | 446.6 | 478.2 | 518.6 | 519.1 | 499.7 | 481.9 | 518.1 |
| Mechanical | 165.6 | 169.5 | 204.7 | 160.0 | 165.8 | 157.3 | 148.1 | 205.7 | 126.3 | 178.8 | 153.0 |
| Metallurgy & materials | 171.6 | 168.9 | 151.4 | 98.2 | 114.8 | 117.5 | 153.2 | 149.6 | 153.7 | 227.4 | 216.6 |
| Engineering, n.e.c. | 383.7 | 413.3 | 490.2 | 560.0 | 551.6 | 673.4 | 865.7 | 751.4 | 770.1 | 562.8 | 528.5 |
| Social sciences, total | 306.0 | 330.6 | 365.1 | 397.6 | 376.6 | 360.5 | 265.7 | 297.5 | 303.8 | 319.3 | 302.0 |
| Anthropology | 7.2 | 4.3 | 7.6 | 4.9 | 2.9 | 1.5 | 1.5 | 1.6 | 1.7 | 2.1 | 2.4 |
| Economics | 111.9 | 113.8 | 129.6 | 149.2 | 152.8 | 172.6 | 118.2 | 124.6 | 117.6 | 125.4 | 105.0 |
| Political science | 4.2 | 5.9 | 5.6 | 9.8 | 4.8 | 4.5 | 3.2 | 6.6 | 6.7 | 8.9 | 7.5 |
| Sociology | 37.0 | 36.2 | 41.7 | 46.1 | 46.1 | 42.4 | 33.3 | 35.0 | 36.3 | 34.0 | 37.0 |
| Social sciences, n.e.c. | 145.6 | 170.3 | 180.6 | 187.6 | 170.1 | 139.5 | 109.6 | 129.8 | 141.4 | 148.9 | 150.2 |
| Other sciences, n.e.c. | 135.4 | 153.6 | 170.4 | 236.6 | 285.7 | 313.5 | 231.0 | 247.1 | 261.7 | 242.2 | 260.9 |

NOTE: 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)
n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table C-107a. Federal obligations for applied research, by detailed field of science and engineering: fiscal years 1987-97

[Dollars in millions]

| Field of science and engineering | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | Preliminary | |
|----------------------------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | | | | | | | | | | 1996 | 1997 |
| Total, all fields | 8,998.1 | 9,176.5 | 10,163.5 | 10,336.8 | 11,797.6 | 12,000.7 | 13,491.4 | 13,887.5 | 14,677.9 | 14,095.7 | 14,441.3 |
| Life sciences, total | 2,979.5 | 3,222.7 | 3,579.4 | 3,652.3 | 4,188.4 | 4,068.8 | 4,483.3 | 4,812.0 | 5,224.1 | 5,254.0 | 5,256.2 |
| Biol & agricultural, total | 1,488.1 | 1,718.0 | 1,917.2 | 1,959.4 | 2,223.0 | 2,116.0 | 2,271.5 | 2,350.8 | 2,572.7 | NA | NA |
| Biol (excl environmental) | 1,040.5 | 1,266.8 | 1,336.0 | 1,402.5 | 1,543.4 | 1,398.4 | 1,508.1 | 1,545.0 | 1,605.2 | NA | NA |
| Environmental biology | 148.6 | 154.2 | 210.5 | 174.0 | 272.8 | 309.4 | 333.3 | 387.8 | 601.7 | NA | NA |
| Agricultural | 299.1 | 297.0 | 370.7 | 382.9 | 406.8 | 408.2 | 430.1 | 418.1 | 365.8 | NA | NA |
| Medical sciences | 1,323.8 | 1,367.8 | 1,514.1 | 1,532.7 | 1,602.6 | 1,778.9 | 2,023.5 | 2,251.8 | 2,364.0 | NA | NA |
| Life sciences, n.e.c. | 167.6 | 136.9 | 148.1 | 160.2 | 362.9 | 173.9 | 188.2 | 209.3 | 287.4 | NA | NA |
| Psychology, total | 222.4 | 212.0 | 234.5 | 233.5 | 256.9 | 175.6 | 303.9 | 302.2 | 345.2 | 352.7 | 355.9 |
| Biological aspects | 49.1 | 52.9 | 60.8 | 65.3 | 72.0 | 20.3 | 19.1 | 23.3 | 28.1 | NA | NA |
| Social aspects | 108.9 | 108.4 | 111.8 | 116.5 | 128.2 | 84.1 | 118.7 | 100.5 | 134.1 | NA | NA |
| Psychological sci, n.e.c. | 64.4 | 50.7 | 61.9 | 51.7 | 56.7 | 71.2 | 166.1 | 178.4 | 183.1 | NA | NA |
| Physical sciences, total | 1,156.6 | 1,117.7 | 1,198.8 | 1,147.2 | 1,353.9 | 1,487.7 | 1,519.8 | 1,426.5 | 1,418.5 | 1,161.7 | 1,212.6 |
| Astronomy | 17.7 | 12.3 | 17.3 | 17.2 | 19.3 | 9.4 | 22.8 | 22.8 | 32.9 | NA | NA |
| Chemistry | 235.2 | 232.3 | 278.0 | 259.6 | 289.7 | 339.6 | 299.5 | 334.2 | 309.1 | NA | NA |
| Physics | 781.4 | 769.8 | 795.5 | 780.6 | 816.0 | 970.7 | 1,037.7 | 940.9 | 943.8 | NA | NA |
| Physical sciences, n.e.c. | 122.4 | 103.3 | 108.0 | 89.8 | 228.9 | 168.1 | 159.8 | 128.7 | 132.7 | NA | NA |
| Environmental sciences, total | 730.6 | 734.3 | 756.3 | 899.3 | 886.3 | 904.0 | 1,075.0 | 1,321.7 | 1,474.2 | 1,411.4 | 1,459.1 |
| Atmospheric sciences | 309.1 | 307.1 | 271.6 | 329.7 | 353.7 | 332.0 | 349.0 | 396.7 | 482.1 | NA | NA |
| Geological sciences | 175.6 | 174.3 | 207.8 | 221.4 | 229.7 | 209.2 | 242.6 | 350.1 | 410.5 | NA | NA |
| Oceanography | 177.6 | 190.9 | 198.4 | 220.4 | 201.0 | 248.9 | 260.2 | 306.6 | 238.1 | NA | NA |
| Environmental sci, n.e.c. | 68.3 | 61.9 | 78.5 | 127.8 | 101.7 | 113.8 | 223.3 | 268.3 | 343.5 | NA | NA |
| Math & computer sci, total | 334.3 | 329.6 | 389.7 | 433.9 | 477.6 | 678.9 | 714.1 | 779.9 | 976.9 | 910.5 | 941.5 |
| Mathematics | 46.1 | 52.5 | 68.3 | 65.0 | 63.2 | 90.5 | 68.9 | 94.7 | 94.6 | NA | NA |
| Computer sciences | 169.3 | 167.2 | 205.1 | 336.9 | 361.4 | 524.0 | 541.8 | 567.9 | 697.6 | NA | NA |
| Math & computer sci, n.e.c. | 118.9 | 109.9 | 116.3 | 31.9 | 52.9 | 64.3 | 103.4 | 117.3 | 184.7 | NA | NA |
| Engineering, total | 2,916.8 | 2,950.2 | 3,258.4 | 3,125.1 | 3,710.8 | 3,727.1 | 4,292.0 | 4,189.0 | 4,272.0 | 4,116.0 | 4,254.5 |
| Aeronautical | 573.0 | 570.8 | 658.9 | 657.5 | 760.0 | 629.5 | 946.8 | 946.8 | 977.6 | NA | NA |
| Astronautical | 575.9 | 526.9 | 618.5 | 518.5 | 583.4 | 536.0 | 440.4 | 439.3 | 480.4 | NA | NA |
| Chemical | 138.3 | 169.5 | 92.2 | 166.0 | 202.6 | 192.5 | 172.7 | 167.3 | 184.9 | NA | NA |
| Civil | 158.7 | 168.7 | 178.1 | 270.4 | 245.7 | 276.9 | 213.3 | 239.8 | 269.3 | NA | NA |
| Electrical | 610.9 | 577.1 | 669.3 | 493.1 | 587.4 | 593.6 | 678.4 | 536.1 | 552.3 | NA | NA |
| Mechanical | 146.2 | 157.2 | 156.5 | 176.9 | 220.0 | 223.4 | 324.3 | 236.5 | 248.2 | NA | NA |
| Metallurgy & materials | 152.2 | 226.6 | 266.2 | 294.3 | 416.1 | 453.6 | 454.3 | 521.2 | 447.3 | NA | NA |
| Engineering, n.e.c. | 561.6 | 553.3 | 618.8 | 548.4 | 695.4 | 821.6 | 1,061.7 | 1,102.0 | 1,112.1 | NA | NA |
| Social sciences, total | 350.5 | 339.0 | 396.4 | 484.0 | 566.0 | 549.8 | 480.8 | 463.3 | 472.0 | 454.8 | 500.9 |
| Anthropology | 2.9 | 2.2 | 1.8 | 1.9 | 3.3 | 3.1 | 3.7 | 6.6 | 6.6 | NA | NA |
| Economics | 119.6 | 124.8 | 129.1 | 160.1 | 150.1 | 172.3 | 158.7 | 154.9 | 161.8 | NA | NA |
| Political science | 5.8 | 7.1 | 8.1 | 6.8 | 10.0 | 16.1 | 22.8 | 20.6 | 15.2 | NA | NA |
| Sociology | 39.6 | 45.0 | 55.9 | 92.0 | 155.7 | 70.5 | 65.6 | 55.0 | 33.5 | NA | NA |
| Social sciences, n.e.c. | 182.6 | 159.9 | 201.6 | 223.3 | 246.9 | 287.9 | 229.9 | 226.2 | 254.9 | NA | NA |
| Other sciences, n.e.c. | 307.4 | 271.0 | 350.0 | 361.5 | 357.8 | 408.8 | 622.4 | 592.8 | 494.9 | 434.5 | 460.7 |

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

The National Aeronautics and Space Administration has made a statistical adjustment to the 1994, 1995, 1996, and 1997 field of science and engineering values to diminish a computational error introduced by its software.

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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

**Table C-108. Federal obligations for research and development, by State:
fiscal years 1976-86**

[Dollars in millions]

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| State | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
|----------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Total | 20,247.4 | 22,841.1 | 25,077.7 | 27,084.2 | 28,627.3 | 31,929.6 | 35,361.6 | 37,627.8 | 41,148.5 | 47,214.8 | 50,310.2 |
| Alabama | 374.4 | 414.7 | 432.0 | 516.9 | 455.7 | 493.5 | 561.5 | 671.7 | 792.6 | 896.6 | 1,188.2 |
| Alaska | 37.6 | 38.1 | 48.7 | 45.9 | 42.5 | 51.8 | 40.0 | 40.4 | 47.7 | 51.5 | 49.4 |
| Arizona | 122.5 | 142.5 | 163.4 | 201.4 | 334.6 | 367.7 | 264.5 | 469.3 | 383.9 | 458.2 | 398.1 |
| Arkansas | 26.5 | 24.3 | 42.4 | 37.3 | 30.0 | 31.2 | 43.5 | 31.4 | 35.0 | 39.7 | 40.5 |
| California | 5,496.1 | 5,785.5 | 5,839.2 | 6,338.6 | 6,097.7 | 7,049.7 | 8,888.3 | 8,194.9 | 8,995.8 | 10,771.8 | 11,512.3 |
| Colorado | 248.6 | 324.2 | 393.2 | 442.2 | 573.7 | 632.8 | 556.6 | 436.2 | 531.6 | 629.2 | 1,636.4 |
| Connecticut | 239.4 | 291.8 | 299.8 | 328.4 | 470.3 | 485.0 | 439.6 | 743.3 | 675.9 | 742.8 | 577.3 |
| Delaware | 8.0 | 15.3 | 11.1 | 14.4 | 20.8 | 25.9 | 34.6 | 20.4 | 63.7 | 34.7 | 30.2 |
| District of Columbia | 570.3 | 728.1 | 790.2 | 768.4 | 807.0 | 921.0 | 954.6 | 1,196.1 | 1,796.0 | 2,077.7 | 2,324.0 |
| Florida | 788.3 | 872.5 | 890.1 | 913.1 | 1,120.8 | 1,373.7 | 1,776.4 | 1,276.0 | 1,138.1 | 1,205.2 | 1,448.0 |
| Georgia | 92.3 | 111.2 | 155.7 | 184.4 | 169.8 | 195.0 | 217.3 | 237.2 | 245.5 | 291.8 | 250.5 |
| Hawaii | 45.5 | 36.9 | 44.6 | 40.8 | 42.6 | 49.9 | 44.5 | 71.4 | 52.9 | 58.2 | 54.7 |
| Idaho | 72.7 | 119.8 | 107.0 | 147.1 | 147.7 | 119.5 | 127.0 | 223.4 | 195.2 | 259.7 | 266.6 |
| Illinois | 414.3 | 517.2 | 564.3 | 547.2 | 599.9 | 572.6 | 543.0 | 567.5 | 675.6 | 772.8 | 745.0 |
| Indiana | 92.4 | 102.8 | 108.1 | 122.0 | 162.4 | 170.1 | 186.2 | 213.6 | 236.0 | 227.7 | 295.1 |
| Iowa | 48.5 | 60.1 | 68.3 | 84.9 | 121.7 | 147.4 | 136.3 | 95.2 | 134.5 | 150.3 | 224.3 |
| Kansas | 32.1 | 36.3 | 106.6 | 136.3 | 353.6 | 471.0 | 637.7 | 97.4 | 101.9 | 138.1 | 112.7 |
| Kentucky | 51.0 | 56.6 | 62.1 | 43.0 | 107.9 | 101.0 | 97.2 | 93.1 | 56.5 | 69.2 | 59.1 |
| Louisiana | 126.1 | 156.5 | 162.7 | 209.1 | 196.3 | 331.8 | 236.8 | 186.6 | 129.7 | 118.8 | 92.4 |
| Maine | 15.6 | 18.3 | 25.4 | 23.1 | 25.9 | 24.4 | 23.9 | 29.3 | 38.1 | 36.7 | 35.6 |
| Maryland | 1,811.2 | 1,991.4 | 2,091.0 | 2,299.8 | 2,465.0 | 2,585.1 | 2,850.2 | 3,412.4 | 3,917.9 | 4,371.6 | 4,512.5 |
| Massachusetts | 1,284.9 | 1,472.0 | 1,689.3 | 2,055.6 | 2,047.7 | 2,407.1 | 2,775.2 | 2,559.3 | 2,882.6 | 3,276.7 | 3,240.3 |
| Michigan | 222.2 | 316.6 | 367.8 | 264.4 | 377.5 | 357.2 | 376.7 | 412.5 | 479.4 | 502.1 | 460.5 |
| Minnesota | 153.3 | 186.5 | 177.7 | 202.8 | 261.6 | 309.0 | 378.6 | 448.2 | 636.8 | 718.7 | 515.4 |
| Mississippi | 71.6 | 95.4 | 87.1 | 100.7 | 109.3 | 125.5 | 125.7 | 185.8 | 145.5 | 172.4 | 143.4 |
| Missouri | 404.3 | 639.6 | 827.3 | 778.9 | 801.6 | 820.4 | 911.3 | 576.8 | 659.5 | 694.2 | 677.8 |
| Montana | 29.8 | 47.8 | 27.5 | 41.6 | 45.7 | 45.4 | 42.7 | 35.0 | 26.6 | 26.0 | 26.4 |
| Nebraska | 21.4 | 24.5 | 33.5 | 31.3 | 31.6 | 31.7 | 32.0 | 42.3 | 33.0 | 34.6 | 41.1 |
| Nevada | 179.7 | 184.3 | 196.7 | 222.1 | 214.5 | 263.0 | 376.3 | 647.1 | 440.5 | 490.4 | 462.6 |
| New Hampshire | 34.7 | 32.6 | 68.7 | 94.1 | 50.2 | 54.8 | 50.8 | 76.8 | 116.4 | 130.3 | 136.0 |
| New Jersey | 495.7 | 566.3 | 522.5 | 649.3 | 729.4 | 775.4 | 887.9 | 1,293.4 | 1,550.0 | 1,791.8 | 1,781.4 |
| New Mexico | 626.3 | 751.4 | 987.4 | 955.5 | 954.2 | 1,224.1 | 1,322.6 | 1,804.9 | 2,104.8 | 2,368.6 | 2,500.0 |
| New York | 1,107.4 | 1,203.8 | 1,284.1 | 1,362.2 | 1,468.8 | 1,557.7 | 1,692.5 | 2,523.2 | 2,493.4 | 3,128.4 | 3,163.5 |
| North Carolina | 139.1 | 154.7 | 192.3 | 220.9 | 227.7 | 259.8 | 272.7 | 312.5 | 378.3 | 485.7 | 497.7 |
| North Dakota | 14.8 | 19.3 | 28.3 | 33.4 | 38.7 | 40.1 | 36.5 | 27.2 | 37.8 | 32.7 | 27.2 |
| Ohio | 627.8 | 694.8 | 858.3 | 1,053.2 | 1,054.7 | 1,117.2 | 1,024.8 | 1,170.1 | 1,366.5 | 1,520.5 | 1,591.7 |
| Oklahoma | 32.1 | 48.2 | 105.0 | 70.1 | 94.5 | 82.4 | 65.6 | 67.9 | 65.5 | 81.3 | 69.8 |
| Oregon | 84.6 | 84.9 | 95.3 | 100.1 | 97.9 | 105.6 | 106.3 | 108.0 | 137.8 | 151.6 | 127.6 |
| Pennsylvania | 836.0 | 837.5 | 995.7 | 1,099.9 | 1,059.4 | 1,082.9 | 1,131.5 | 1,173.3 | 1,142.2 | 1,329.6 | 1,301.3 |
| Rhode Island | 101.8 | 110.1 | 120.3 | 140.7 | 149.9 | 182.5 | 242.1 | 267.5 | 306.1 | 334.3 | 392.7 |
| South Carolina | 30.8 | 67.2 | 118.3 | 114.3 | 87.5 | 96.1 | 98.7 | 104.6 | 119.8 | 119.9 | 122.5 |
| South Dakota | 7.3 | 8.5 | 9.1 | 10.2 | 9.9 | 10.2 | 19.0 | 12.4 | 14.0 | 14.4 | 14.6 |
| Tennessee | 388.2 | 546.3 | 644.3 | 644.1 | 722.9 | 883.6 | 702.3 | 435.5 | 546.7 | 556.3 | 591.3 |
| Texas | 837.2 | 819.4 | 1,003.8 | 1,000.1 | 908.6 | 1,031.7 | 1,054.3 | 1,412.6 | 1,473.8 | 1,664.6 | 1,912.0 |
| Utah | 101.5 | 133.2 | 161.8 | 211.6 | 243.9 | 305.7 | 287.9 | 268.9 | 232.4 | 250.9 | 274.6 |
| Vermont | 39.7 | 36.6 | 23.7 | 16.7 | 36.6 | 18.7 | 35.7 | 23.7 | 33.8 | 36.1 | 41.1 |
| Virginia | 751.5 | 780.2 | 857.1 | 945.1 | 1,059.3 | 1,066.4 | 1,268.1 | 2,286.1 | 2,247.2 | 2,472.4 | 2,810.0 |
| Washington | 705.6 | 879.1 | 878.3 | 864.7 | 951.8 | 1,047.5 | 1,038.9 | 709.3 | 881.8 | 1,036.5 | 1,153.9 |
| West Virginia | 37.2 | 50.6 | 73.3 | 107.2 | 152.0 | 151.2 | 91.0 | 82.5 | 73.3 | 66.5 | 88.7 |
| Wisconsin | 82.8 | 94.8 | 111.9 | 111.0 | 121.7 | 132.2 | 129.4 | 142.4 | 166.0 | 200.8 | 181.9 |
| Wyoming | 19.4 | 24.2 | 40.8 | 41.0 | 53.9 | 58.2 | 25.4 | 28.4 | 34.0 | 25.1 | 14.5 |
| Outlying areas | 22.4 | 47.8 | 38.7 | 39.4 | 45.3 | 38.9 | 40.7 | 32.0 | 44.9 | 62.8 | 36.8 |
| Offices abroad | 43.0 | 38.6 | 45.9 | 57.7 | 73.5 | 47.2 | 59.0 | 51.0 | 34.6 | 35.9 | 59.2 |

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.

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

**Table C-108a. Federal obligations for research and development, by State:
fiscal years 1987-95**

[Dollars in millions]

Page 1 of 1

| State | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|----------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Total | 54,067.4 | 55,471.0 | 59,485.0 | 62,105.2 | 59,865.4 | 64,089.7 | 65,743.8 | 65,842.9 | 67,246.8 |
| Alabama | 1,346.4 | 1,363.7 | 1,646.7 | 1,805.4 | 1,863.2 | 2,151.7 | 2,149.4 | 1,818.4 | 2,016.3 |
| Alaska | 48.8 | 50.5 | 71.3 | 90.7 | 102.7 | 93.0 | 92.7 | 157.3 | 96.9 |
| Arizona | 414.9 | 369.4 | 501.2 | 591.7 | 516.8 | 638.2 | 535.3 | 795.1 | 915.1 |
| Arkansas | 52.3 | 56.4 | 57.0 | 85.7 | 85.9 | 68.8 | 79.2 | 88.9 | 97.7 |
| California | 13,672.2 | 14,895.9 | 15,919.4 | 16,249.3 | 14,488.3 | 15,999.1 | 14,883.7 | 11,279.9 | 12,703.6 |
| Colorado | 1,516.3 | 1,408.4 | 1,618.1 | 1,888.3 | 2,694.2 | 1,479.2 | 1,343.4 | 1,353.4 | 965.1 |
| Connecticut | 672.2 | 619.5 | 596.7 | 509.8 | 672.7 | 578.3 | 522.2 | 733.5 | 902.3 |
| Delaware | 32.3 | 36.0 | 31.9 | 28.3 | 41.8 | 43.1 | 56.2 | 50.4 | 56.4 |
| District of Columbia | 2,209.2 | 2,925.3 | 1,914.9 | 1,593.1 | 1,943.7 | 2,185.2 | 2,488.8 | 2,474.8 | 2,805.1 |
| Florida | 2,297.3 | 2,133.4 | 2,269.8 | 2,343.4 | 2,181.1 | 2,832.3 | 2,775.3 | 2,906.3 | 2,403.9 |
| Georgia | 352.1 | 350.4 | 392.5 | 364.1 | 466.5 | 2,512.6 | 3,035.3 | 5,544.4 | 4,365.8 |
| Hawaii | 63.9 | 82.2 | 97.4 | 100.0 | 112.6 | 150.7 | 113.0 | 140.3 | 480.4 |
| Idaho | 232.7 | 250.1 | 195.9 | 326.1 | 279.1 | 299.5 | 303.7 | 227.8 | 211.1 |
| Illinois | 827.3 | 850.7 | 909.1 | 957.2 | 959.4 | 921.9 | 963.8 | 1,080.0 | 1,116.1 |
| Indiana | 339.4 | 312.1 | 392.5 | 363.6 | 378.7 | 367.0 | 513.6 | 403.6 | 426.2 |
| Iowa | 162.4 | 197.1 | 190.9 | 186.7 | 209.8 | 194.7 | 215.8 | 223.8 | 214.3 |
| Kansas | 94.2 | 126.7 | 128.8 | 116.4 | 83.6 | 91.2 | 87.9 | 84.8 | 120.8 |
| Kentucky | 61.9 | 68.5 | 73.0 | 96.5 | 122.4 | 71.7 | 86.7 | 88.6 | 75.7 |
| Louisiana | 107.4 | 101.3 | 179.6 | 121.2 | 163.6 | 169.6 | 152.6 | 205.1 | 176.3 |
| Maine | 178.6 | 39.8 | 67.7 | 39.7 | 57.1 | 60.6 | 65.2 | 80.9 | 54.5 |
| Maryland | 4,036.3 | 4,355.3 | 4,849.0 | 5,332.1 | 5,569.0 | 5,779.7 | 7,238.5 | 6,653.0 | 7,039.2 |
| Massachusetts | 3,910.8 | 2,702.0 | 2,882.5 | 2,982.8 | 3,146.8 | 3,227.9 | 3,551.7 | 3,234.1 | 3,339.5 |
| Michigan | 463.3 | 417.5 | 686.2 | 810.8 | 772.6 | 876.3 | 878.0 | 770.2 | 688.4 |
| Minnesota | 506.6 | 576.8 | 597.3 | 529.8 | 455.7 | 456.4 | 445.5 | 474.4 | 571.1 |
| Mississippi | 184.4 | 185.1 | 198.7 | 471.7 | 230.6 | 255.7 | 259.8 | 255.7 | 212.7 |
| Missouri | 614.7 | 637.6 | 1,241.9 | 1,064.3 | 587.9 | 733.5 | 726.3 | 2,271.7 | 1,613.3 |
| Montana | 30.1 | 35.5 | 36.2 | 30.9 | 45.8 | 71.5 | 69.1 | 56.4 | 64.8 |
| Nebraska | 48.9 | 52.1 | 51.2 | 76.4 | 76.1 | 71.1 | 78.5 | 85.2 | 86.8 |
| Nevada | 462.0 | 443.3 | 427.5 | 484.7 | 496.0 | 465.8 | 406.2 | 347.7 | 372.6 |
| New Hampshire | 83.6 | 60.8 | 98.0 | 145.1 | 196.3 | 156.1 | 237.6 | 218.9 | 213.6 |
| New Jersey | 1,114.9 | 1,209.3 | 1,320.4 | 1,601.6 | 1,698.3 | 1,646.8 | 1,422.8 | 1,391.9 | 1,325.9 |
| New Mexico | 1,998.2 | 2,296.1 | 2,220.4 | 2,311.3 | 2,018.7 | 2,211.3 | 2,309.6 | 1,894.1 | 1,987.1 |
| New York | 2,941.8 | 2,688.7 | 2,904.1 | 2,960.8 | 3,086.6 | 3,058.7 | 2,538.0 | 2,698.7 | 2,581.4 |
| North Carolina | 583.8 | 625.0 | 562.8 | 618.6 | 673.8 | 700.7 | 719.1 | 734.3 | 825.4 |
| North Dakota | 29.4 | 32.5 | 33.3 | 53.1 | 43.7 | 54.2 | 50.3 | 49.6 | 47.3 |
| Ohio | 1,862.9 | 1,865.2 | 1,938.8 | 2,088.5 | 1,729.9 | 1,863.4 | 1,921.7 | 1,734.4 | 1,811.4 |
| Oklahoma | 99.4 | 103.7 | 117.6 | 162.6 | 131.5 | 126.1 | 117.9 | 141.5 | 159.4 |
| Oregon | 133.9 | 170.3 | 168.4 | 175.6 | 216.5 | 226.5 | 229.4 | 279.2 | 277.2 |
| Pennsylvania | 1,681.9 | 1,731.6 | 1,961.9 | 2,074.6 | 2,125.8 | 1,794.4 | 2,566.5 | 1,980.5 | 2,414.3 |
| Rhode Island | 365.4 | 335.6 | 314.1 | 391.1 | 433.8 | 386.3 | 495.6 | 433.5 | 515.4 |
| South Carolina | 123.7 | 148.7 | 222.6 | 230.9 | 250.4 | 172.1 | 173.2 | 198.5 | 178.0 |
| South Dakota | 12.8 | 13.1 | 15.0 | 15.7 | 22.5 | 23.9 | 26.9 | 26.5 | 26.5 |
| Tennessee | 732.0 | 567.2 | 576.0 | 825.0 | 732.2 | 666.0 | 674.4 | 675.6 | 582.0 |
| Texas | 2,261.3 | 2,514.9 | 3,189.2 | 3,496.8 | 2,321.4 | 2,873.0 | 2,546.2 | 3,658.3 | 4,062.2 |
| Utah | 427.3 | 462.0 | 517.8 | 437.7 | 429.1 | 314.0 | 298.8 | 325.7 | 371.2 |
| Vermont | 39.6 | 55.9 | 60.1 | 42.5 | 56.1 | 51.3 | 62.1 | 47.9 | 53.6 |
| Virginia | 2,292.5 | 2,729.1 | 2,778.0 | 2,733.5 | 2,909.0 | 3,231.3 | 3,402.6 | 3,729.7 | 3,603.0 |
| Washington | 1,878.8 | 1,765.6 | 1,766.2 | 1,567.0 | 1,241.1 | 900.5 | 878.1 | 950.2 | 1,127.8 |
| West Virginia | 115.8 | 113.4 | 104.0 | 116.6 | 177.9 | 166.4 | 206.2 | 212.9 | 296.3 |
| Wisconsin | 204.8 | 223.2 | 263.5 | 271.7 | 294.5 | 307.7 | 350.8 | 349.6 | 347.1 |
| Wyoming | 23.5 | 29.0 | 38.5 | 57.4 | 29.8 | 41.4 | 48.2 | 36.6 | 35.2 |
| Outlying areas | 42.9 | 33.0 | 45.7 | 54.9 | 221.7 | 246.9 | 332.7 | 166.3 | 165.7 |
| Puerto Rico | NA | NA | NA | NA | NA | NA | NA | 50.5 | 46.7 |
| Other Areas | NA | NA | NA | NA | NA | NA | NA | 115.8 | 119.0 |
| Offices abroad | 78.2 | 54.2 | 43.4 | 31.7 | 21.0 | 24.4 | 17.8 | 23.1 | 48.0 |

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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

**Table C-109. Federal obligations for R&D plant, by State:
fiscal years 1976-86**

[Dollars in millions]

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| State | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
|----------------------------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Total | 799.2 | 1,334.0 | 1,262.0 | 1,393.8 | 1,533.1 | 1,454.4 | 1,380.1 | 1,280.9 | 1,770.6 | 1,774.7 | 1,482.5 |
| Alabama | 12.3 | 5.3 | 6.5 | 2.6 | 47.9 | 16.5 | 5.8 | 6.0 | 26.4 | 41.4 | 41.2 |
| Alaska | .8 | .6 | .7 | .8 | .1 | - | - | 21.3 | .1 | 12.9 | .0 |
| Arizona | 2.7 | 1.6 | 33.9 | 35.3 | 1.8 | .4 | .4 | 5.4 | 3.6 | 2.9 | 1.7 |
| Arkansas | .9 | 2.8 | .9 | .2 | .7 | .7 | 1.0 | 1.5 | .5 | .5 | .9 |
| California | 147.3 | 303.3 | 259.5 | 400.2 | 377.4 | 355.4 | 334.6 | 368.4 | 316.8 | 404.2 | 323.5 |
| Colorado | 12.0 | 12.7 | 11.6 | 9.7 | 35.6 | 26.9 | 16.6 | 43.9 | 52.3 | 32.4 | 16.3 |
| Connecticut | 1.9 | 3.9 | 2.3 | 12.3 | 1.0 | 9.2 | 25.1 | 5.5 | 5.2 | 8.4 | 1.2 |
| Delaware | .0 | - | - | .0 | .7 | 1.6 | .1 | .4 | .6 | .4 | .4 |
| District of Columbia | 21.4 | 11.3 | 11.1 | 22.0 | 14.3 | 31.7 | 33.6 | 24.6 | 62.4 | 92.5 | 28.0 |
| Florida | 76.3 | 155.2 | 81.1 | 46.0 | 46.7 | 25.5 | 31.8 | 37.2 | 91.2 | 42.8 | 53.2 |
| Georgia | .2 | 1.2 | 1.8 | 1.0 | .6 | 1.6 | 1.5 | 2.1 | 3.8 | 2.6 | 15.6 |
| Hawaii | 2.8 | .5 | .7 | .5 | .2 | .7 | .1 | 1.6 | .6 | .9 | .6 |
| Idaho | 19.7 | 26.1 | 35.6 | 41.8 | 45.1 | 11.9 | 21.4 | 19.7 | 11.9 | 8.3 | 24.7 |
| Illinois | 45.2 | 52.0 | 72.9 | 61.9 | 71.5 | 74.1 | 74.3 | 80.3 | 81.2 | 110.1 | 96.6 |
| Indiana | .8 | .6 | .4 | .7 | .7 | .9 | .6 | 1.3 | 2.8 | 4.5 | .5 |
| Iowa | 1.1 | 1.5 | 2.3 | 2.2 | 2.9 | 2.1 | 2.2 | 2.7 | 3.5 | 1.4 | 3.3 |
| Kansas | .1 | .1 | .2 | - | .1 | .1 | .1 | .2 | .3 | 2.3 | 41.0 |
| Kentucky | .0 | .0 | - | 2.9 | - | 4.3 | 1.4 | .4 | .3 | .3 | .3 |
| Louisiana | 2.3 | 3.6 | 20.9 | 16.7 | 12.6 | 14.1 | 22.2 | 2.4 | 2.6 | 2.0 | 2.2 |
| Maine | - | .1 | .1 | .1 | - | - | - | - | - | - | - |
| Maryland | 36.7 | 80.4 | 82.7 | 64.3 | 53.3 | 52.3 | 82.2 | 80.8 | 180.1 | 145.4 | 78.6 |
| Massachusetts | 14.0 | 24.4 | 28.7 | 36.9 | 20.4 | 35.7 | 23.3 | 29.4 | 62.8 | 66.1 | 17.7 |
| Michigan | 2.0 | 1.1 | 1.9 | 3.0 | 8.3 | 9.5 | 7.8 | 1.1 | 6.4 | 5.1 | 1.2 |
| Minnesota | .5 | .4 | 1.2 | .8 | .3 | .5 | .4 | .8 | 3.1 | .8 | 1.1 |
| Mississippi | 4.1 | 11.5 | 6.0 | 3.8 | 6.6 | 3.4 | 5.9 | 6.4 | 13.7 | 12.6 | 13.5 |
| Missouri | .5 | .9 | 1.2 | 5.6 | 40.9 | 1.8 | 5.7 | 6.0 | 3.9 | 3.7 | 4.7 |
| Montana | .1 | .8 | - | 1.2 | 3.7 | .1 | .1 | .2 | .2 | .2 | .2 |
| Nebraska | 1.0 | .2 | .3 | .8 | 2.1 | .6 | .7 | .5 | .7 | .4 | 7.3 |
| Nevada | 11.7 | 14.8 | 18.5 | 24.2 | 22.4 | 82.9 | 30.0 | 33.0 | 108.4 | 155.2 | 69.9 |
| New Hampshire | 2.0 | 2.4 | 1.3 | 5.4 | - | 7.7 | .1 | .7 | .1 | .4 | .3 |
| New Jersey | 22.1 | 64.8 | 96.7 | 64.8 | 60.5 | 55.7 | 57.0 | 42.0 | 52.7 | 40.1 | 37.6 |
| New Mexico | 76.6 | 137.9 | 101.7 | 138.6 | 169.5 | 119.3 | 196.6 | 191.8 | 102.3 | 243.7 | 192.0 |
| New York | 37.5 | 61.0 | 63.8 | 69.4 | 91.4 | 85.1 | 65.0 | 77.0 | 175.0 | 75.3 | 105.0 |
| North Carolina | .6 | 66.8 | 3.5 | 3.9 | 8.2 | 1.2 | 1.4 | 4.1 | 3.6 | 10.4 | 2.2 |
| North Dakota | .5 | .6 | 2.3 | 1.4 | 4.1 | 1.4 | 1.2 | .9 | .9 | 1.3 | 8.8 |
| Ohio | 13.6 | 60.4 | 23.9 | 28.0 | 40.3 | 65.2 | 23.7 | 7.5 | 49.6 | 46.5 | 19.2 |
| Oklahoma | .2 | .4 | 1.0 | .6 | 3.2 | 2.7 | 1.2 | 1.3 | .9 | 1.7 | 2.3 |
| Oregon | 2.0 | - | 2.6 | .9 | 3.9 | 1.0 | .1 | .2 | 3.4 | 1.2 | 12.0 |
| Pennsylvania | 11.0 | 8.1 | 28.8 | 46.5 | 35.5 | 95.2 | 51.1 | 19.2 | 20.1 | 18.7 | 19.0 |
| Rhode Island | 4.5 | 5.3 | 2.4 | 3.5 | 2.6 | 1.6 | 2.1 | 1.9 | .7 | 31.6 | 5.5 |
| South Carolina | 3.3 | 2.2 | 6.9 | 9.7 | 3.1 | 18.8 | 65.2 | 49.6 | 146.4 | 7.5 | 5.7 |
| South Dakota | .0 | - | .1 | 1.6 | 3.1 | .7 | .9 | .2 | .1 | .1 | - |
| Tennessee | 60.5 | 37.8 | 43.4 | 55.8 | 80.1 | 85.5 | 65.2 | 27.3 | 69.9 | 33.8 | 30.8 |
| Texas | 7.8 | 10.4 | 11.8 | 9.7 | 14.2 | 13.9 | 10.2 | 4.7 | 9.6 | 19.4 | 79.7 |
| Utah | .8 | 1.5 | 8.0 | 2.9 | 1.9 | 1.5 | 3.1 | .5 | 2.0 | 2.4 | 13.6 |
| Vermont | .0 | .0 | .0 | - | .0 | - | .0 | .0 | .0 | .0 | .0 |
| Virginia | 11.6 | 24.7 | 29.3 | 42.0 | 41.5 | 33.9 | 21.1 | 29.4 | 52.2 | 26.7 | 45.5 |
| Washington | 103.1 | 113.4 | 118.3 | 86.8 | 128.2 | 89.0 | 80.8 | 12.0 | 13.6 | 32.7 | 26.4 |
| West Virginia | 16.7 | 16.7 | 17.0 | 13.1 | 12.9 | 3.7 | 1.1 | 23.3 | 4.8 | 11.4 | 10.2 |
| Wisconsin | 4.9 | .5 | 9.6 | 2.9 | 2.5 | 3.0 | 1.0 | 1.9 | 10.2 | 5.6 | 2.7 |
| Wyoming | .2 | .3 | .9 | 1.2 | 4.3 | 2.0 | 1.2 | .1 | .3 | .1 | .1 |
| Outlying areas | .3 | .1 | 1.7 | .5 | 2.9 | .7 | .5 | .2 | 3.3 | 1.4 | 13.9 |
| Offices abroad | 1.0 | 1.9 | 3.9 | 7.1 | 1.1 | 1.3 | 1.4 | 1.7 | 3.5 | 2.3 | 4.5 |

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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

**Table C-109a. Federal obligations for R&D plant, by State:
fiscal years 1987-95**

[Dollars in millions]

Page 1 of 1

| State | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Total | 1,793.8 | 2,025.1 | 2,144.3 | 2,230.1 | 2,807.0 | 2,962.9 | 3,054.5 | 2,152.0 | 2,215.6 |
| Alabama | 42.8 | 51.8 | 47.2 | 109.7 | 165.0 | 346.1 | 368.2 | 94.1 | 44.1 |
| Alaska | .0 | 6.4 | .0 | 11.1 | .2 | .8 | 1.0 | 88.0 | 1.4 |
| Arizona | 19.6 | 21.8 | 18.1 | 2.5 | 16.4 | 7.9 | 16.9 | 20.8 | 42.7 |
| Arkansas | .5 | .4 | 3.1 | 2.2 | 5.3 | 4.4 | 3.3 | 3.9 | 3.9 |
| California | 290.7 | 429.0 | 446.7 | 459.0 | 377.8 | 356.1 | 469.6 | 209.5 | 414.8 |
| Colorado | 12.8 | 53.5 | 62.5 | 32.3 | 50.7 | 55.6 | 30.0 | 36.9 | 31.2 |
| Connecticut | .4 | 1.0 | 1.4 | 1.8 | 2.6 | 2.6 | 14.4 | 3.8 | 5.2 |
| Delaware | .4 | 1.3 | .2 | - | - | .1 | 2.1 | 1.1 | 1.9 |
| District of Columbia | 24.1 | 15.4 | 17.1 | 7.4 | 16.3 | 17.8 | 13.3 | 11.2 | 3.0 |
| Florida | 64.6 | 86.0 | 100.0 | 68.3 | 132.1 | 143.1 | 73.5 | 101.7 | 41.5 |
| Georgia | 23.1 | 2.7 | 10.8 | 3.6 | 6.0 | 6.4 | 3.5 | 5.3 | 12.4 |
| Hawaii | .6 | 6.9 | .4 | 1.4 | 9.2 | 6.5 | 19.3 | 14.3 | .5 |
| Idaho | 17.8 | 39.6 | 12.0 | 30.3 | 46.0 | 39.6 | 27.4 | 12.5 | 8.9 |
| Illinois | 94.3 | 76.7 | 94.9 | 116.3 | 319.7 | 183.9 | 201.6 | 208.5 | 190.2 |
| Indiana | 5.8 | 1.9 | 1.5 | 1.3 | 5.0 | 8.4 | 22.6 | 4.1 | 4.8 |
| Iowa | 22.7 | 3.8 | 6.2 | 10.4 | 26.1 | 5.2 | 7.9 | 10.1 | 15.5 |
| Kansas | 49.8 | .1 | 1.6 | 3.1 | 5.2 | 2.5 | 10.1 | 10.6 | 1.2 |
| Kentucky | 1.7 | .1 | .5 | .7 | 1.6 | .0 | .0 | 3.9 | 4.7 |
| Louisiana | 2.5 | 31.9 | 47.2 | 33.6 | 26.1 | 26.2 | 29.5 | 21.0 | 21.6 |
| Maine | - | .3 | .1 | .7 | .7 | 1.5 | 1.0 | 1.9 | .7 |
| Maryland | 109.8 | 79.2 | 120.1 | 178.9 | 235.9 | 229.7 | 264.6 | 196.2 | 390.4 |
| Massachusetts | 36.3 | 94.2 | 54.7 | 78.2 | 32.5 | 20.2 | 22.3 | 15.8 | 23.1 |
| Michigan | 1.4 | 4.4 | 4.6 | 6.6 | 3.0 | 9.1 | 21.7 | 4.5 | 4.6 |
| Minnesota | .4 | .7 | 1.8 | 1.1 | 2.1 | 2.5 | 3.0 | 2.2 | 5.1 |
| Mississippi | 39.1 | 19.1 | 41.1 | 47.4 | 50.8 | 41.6 | 42.2 | 31.9 | 36.6 |
| Missouri | 4.8 | 2.7 | 3.7 | 1.9 | 6.5 | 1.7 | 1.5 | 4.7 | 4.6 |
| Montana | .2 | .2 | .2 | .5 | 1.6 | 2.7 | 1.6 | 3.6 | 4.9 |
| Nebraska | 1.4 | 4.1 | 2.8 | 4.1 | 6.0 | 5.7 | 1.0 | 1.0 | 2.3 |
| Nevada | 87.0 | 103.3 | 69.3 | 61.1 | 57.7 | 59.7 | 50.2 | 26.9 | 38.5 |
| New Hampshire | .2 | - | .2 | .3 | .3 | 4.0 | .8 | .3 | - |
| New Jersey | 39.8 | 52.6 | 46.8 | 51.3 | 30.0 | 39.0 | 53.2 | 45.3 | 35.3 |
| New Mexico | 256.6 | 231.4 | 239.6 | 197.9 | 175.5 | 164.7 | 181.4 | 152.6 | 133.8 |
| New York | 113.4 | 115.3 | 101.6 | 100.6 | 107.2 | 194.5 | 177.7 | 183.1 | 159.1 |
| North Carolina | 3.4 | .9 | 4.3 | 3.4 | 7.4 | 6.8 | 36.6 | 40.0 | 25.8 |
| North Dakota | .8 | 9.2 | 6.0 | 7.4 | 9.0 | 7.4 | 5.5 | 5.8 | 4.9 |
| Ohio | 58.1 | 68.5 | 69.8 | 56.3 | 115.4 | 122.2 | 64.1 | 124.1 | 147.6 |
| Oklahoma | .9 | 10.7 | 4.5 | 1.5 | 3.3 | 4.1 | 1.0 | 1.9 | 2.8 |
| Oregon | 24.7 | 8.6 | 30.1 | 12.3 | 3.3 | 1.8 | 13.8 | 6.5 | 5.2 |
| Pennsylvania | 41.4 | 56.3 | 79.0 | 36.0 | 89.5 | 52.0 | 95.7 | 65.0 | 35.4 |
| Rhode Island | 6.4 | 2.0 | 1.6 | .8 | 14.3 | 1.9 | .6 | .6 | 7.3 |
| South Carolina | 19.6 | 8.2 | 8.9 | 3.7 | 31.9 | 4.1 | 4.9 | 14.7 | 2.7 |
| South Dakota | .1 | .6 | .3 | 1.7 | 2.0 | 1.5 | 1.0 | 5.6 | 4.3 |
| Tennessee | 29.3 | 57.2 | 58.8 | 62.4 | 63.2 | 48.1 | 29.5 | 77.4 | 37.1 |
| Texas | 75.1 | 40.7 | 97.6 | 210.6 | 218.0 | 465.7 | 429.1 | 56.6 | 84.3 |
| Utah | 14.2 | 6.8 | 12.1 | 2.5 | 3.5 | 1.5 | 3.5 | 6.7 | 5.3 |
| Vermont | 1.0 | 8.0 | 1.4 | .4 | .8 | .0 | .1 | .6 | - |
| Virginia | 89.4 | 105.5 | 127.4 | 128.7 | 175.5 | 172.4 | 131.0 | 126.6 | 81.2 |
| Washington | 24.8 | 31.2 | 35.5 | 44.2 | 34.5 | 54.3 | 71.6 | 71.5 | 64.3 |
| West Virginia | 16.5 | 23.2 | 26.7 | 12.4 | 89.4 | 9.7 | 8.4 | 4.8 | 5.4 |
| Wisconsin | 4.0 | 2.0 | 4.0 | 4.4 | 13.0 | 10.2 | 8.0 | 9.6 | 9.6 |
| Wyoming | .3 | .2 | .1 | .2 | .7 | 1.8 | .6 | 1.8 | 1.5 |
| Outlying areas | 18.2 | 46.5 | 1.5 | 14.9 | 11.0 | 6.9 | 13.1 | .5 | 1.4 |
| Puerto Rico | NA | NA | NA | NA | NA | NA | NA | .4 | .3 |
| Other Areas | NA | NA | NA | NA | NA | NA | NA | - | 1.1 |
| Offices abroad | 1.0 | .9 | 16.8 | .3 | .5 | .6 | .6 | .7 | 1.3 |

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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

APPENDIX A.

AGENCIES INCLUDED IN THIS SURVEY,
VOLUMES 26 TO 45

**Table A-1. Agencies included in the Survey of Federal Funds for
Research and Development: Volumes 26-35**

| Agency | Vol 26 | Vol 27 | Vol 28 | Vol 29 | Vol 30 | Vol 31 | Vol 32 | Vol 33 | Vol 34 | Vol 35 |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Department of Agriculture | T | T | T | T | T | T | T | T | T | T |
| Agricultural Cooperative Service | N | N | N | N | X | X | X | X | X | X |
| Agricultural Marketing Service | 0 | 0 | 0 | X | X | X | X | X | X | X |
| Agricultural Research Service | N | N | N | N | N | X | X | X | X | X |
| Animal & Plant Health Inspection Service | N | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cooperative State Research, Education, & Extension Service | N | N | N | N | N | X | X | X | X | X |
| Economic Research Service | N | N | N | N | N | X | X | X | X | X |
| Economics, Statistics, & Cooperative Service | T | X | X | X | N | N | N | N | N | N |
| Economic Research Service | X | N | N | N | N | N | N | N | N | N |
| Farmer Cooperative Service | X | N | N | N | N | N | N | N | N | N |
| Statistical Reporting Service | X | N | N | N | N | N | N | N | N | N |
| Economics & Statistics Service | N | N | N | N | X | N | N | N | N | N |
| Foreign Agricultural Service | N | N | N | N | N | N | N | N | 0 | 0 |
| Forest Service | X | X | X | X | X | X | X | X | X | X |
| Grain Inspection Packers & Stockyards Administration | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | X |
| Human Nutrition Information Service | N | N | N | N | N | X | X | X | X | X |
| National Agricultural Statistics Service | 0 | N | N | N | N | X | X | X | X | X |
| Office of International Cooperation & Development | N | N | N | X | X | X | X | X | X | X |
| Office of Transportation | N | N | N | X | X | X | X | X | X | X |
| Rural Business-Cooperative Service | N | N | N | N | N | N | N | N | N | N |
| Science & Education Administration | T | T | T | T | T | N | N | N | N | N |
| Agricultural Research Service | X | X | X | X | X | N | N | N | N | N |
| Cooperative State Research Service | X | X | X | X | X | N | N | N | N | N |
| National Agricultural Library | X | 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 |
| Maritime Administration | X | X | X | X | X | N | N | N | N | N |
| Minority Business Development Agency | X | X | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Fire Prevention & Control Administration | X | X | 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 | X | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Telecommunications & Information Administration | N | X | X | X | X | X | X | X | X | X |
| Office of Telecommunications | X | N | N | N | N | N | N | N | N | N |
| Office of the Secretary | 0 | 0 | 0 | X | X | X | X | X | X | X |
| Patent & Trademark Office | X | X | X | X | X | X | X | 0 | 0 | 0 |
| Department of Defense | 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 |
| Military Construction | X | X | X | X | X | X | X | X | X | X |
| Pay & Allowances of Military Personnel in R&D | X | X | X | X | X | X | X | X | X | X |
| RDT&E Appropriation | X | X | X | X | X | X | X | X | X | X |
| Special Foreign Currency Program | 0 | 0 | 0 | 0 | 0 | 0 | 0 | X | X | X |
| Department of the Navy | X | X | X | X | X | X | X | X | X | X |
| Military Construction | X | X | X | X | X | X | X | X | X | X |
| Pay & Allowances of Military Personnel in R&D | X | X | X | X | X | X | X | X | X | X |
| RDT&E Appropriation | X | X | X | X | X | X | X | X | X | X |
| Special Foreign Currency Program | X | X | X | X | X | X | X | X | X | X |
| Department of the Air Force | X | X | X | X | X | X | X | X | X | X |
| Military Construction | X | X | X | X | X | X | X | X | X | X |
| Pay & Allowances of Military Personnel in R&D | 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 26–35

| Agency | Vol 26 | Vol 27 | Vol 28 | Vol 29 | Vol 30 | Vol 31 | Vol 32 | Vol 33 | Vol 34 | Vol 35 |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| RDT&E Appropriation..... | X | X | X | X | X | X | X | X | X | X |
| Defense Agencies..... | X | X | X | X | X | X | X | X | X | X |
| Ballistic Missile Defense Organization..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Defense Advanced Research Projects Agency..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Defense Information Systems Agency..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Defense Logistics Agency..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Defense Mapping Agency..... | 0 | 0 | X | X | X | X | X | 0 | X | X |
| Defense Nuclear Agency..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Joint Staff..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Special Operations Command..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | X | X | X |
| Uniformed Services University of the Health Sciences..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Washington Headquarters Services..... | X | X | X | X | X | X | X | X | X | X |
| Defense Civil Preparedness Agency..... | X | X | X | 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 | N | N | N |
| Test & Evaluation, Deputy Under Secretary of Defense..... | X | X | X | X | X | X | X | X | X | X |
| Department of Education..... | N | N | N | X | X | 0 | X | X | X | X |
| Department of Energy..... | N | X | X | X | X | X | X | X | X | X |
| Department of Health, Education, & Welfare..... | T | T | T | N | N | N | N | N | N | N |
| Alcohol, Drug Abuse, & Mental Health Administration..... | X | X | X | N | N | N | N | N | N | N |
| Center for Disease Control..... | X | X | X | N | N | N | N | N | N | N |
| Food & Drug Administration..... | X | X | X | N | N | N | N | N | N | N |
| Health Care Financing Administration..... | N | X | X | N | N | N | N | N | N | N |
| Health Resources Administration..... | X | X | X | N | N | N | N | N | N | N |
| Health Services Administration..... | X | X | X | N | N | N | N | N | N | N |
| National Institute of Education..... | X | X | X | N | N | N | N | N | N | N |
| National Institutes of Health..... | X | X | X | N | N | N | N | N | N | N |
| Office of Assistant Secretary for Education..... | X | X | X | N | N | N | N | N | N | N |
| Office of Assistant Secretary for Health..... | 0 | X | X | N | N | N | N | N | N | N |
| Office of Education..... | X | X | X | N | N | N | N | N | N | N |
| Office of Human Development Services..... | X | X | X | N | N | N | N | N | N | N |
| Office of the Secretary..... | X | X | X | N | N | N | N | N | N | N |
| Social & Rehabilitation Service..... | X | N | N | N | N | N | N | N | N | N |
| Social Security Administration..... | X | X | X | N | N | N | N | N | N | N |
| Department of Health & Human Services..... | N | N | N | 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..... | N | N | N | X | X | X | X | X | X | X |
| Centers for Disease Control & Prevention..... | N | N | N | X | X | X | X | X | X | X |
| Food & Drug Administration..... | N | N | N | X | X | X | X | X | X | X |
| Health Care Financing Administration..... | N | N | N | X | X | X | X | X | X | X |
| Health Resources Administration..... | N | N | N | X | X | X | N | N | N | N |
| Health Resources & Services Administration..... | N | N | N | N | N | N | X | X | X | X |
| Health Services Administration..... | N | N | N | X | X | X | N | N | N | N |
| Human Development Services..... | N | N | N | X | X | X | X | X | X | X |
| National Institutes of Health..... | N | N | N | X | X | X | X | X | X | X |
| Office of the Assistant Secretary for Health..... | N | N | N | X | X | X | X | X | X | X |
| Office of the Secretary..... | N | N | N | X | X | X | X | X | X | X |
| Social Security Administration..... | N | N | N | X | X | X | X | X | X | X |
| Department of Housing & Urban Development..... | 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 26–35

| Agency | Vol 26 | Vol 27 | Vol 28 | Vol 29 | Vol 30 | Vol 31 | Vol 32 | Vol 33 | Vol 34 | Vol 35 |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Department of the Interior | T | T | T | T | T | T | T | T | T | T |
| Bonneville Power Administration | X | 0 | 0 | 0 | 0 | X | 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 |
| Geological Survey | X | X | X | X | X | X | X | X | X | X |
| Heritage Conservation & Recreation Service | X | X | N | N | N | N | N | N | N | N |
| Minerals Management Service | N | N | N | N | N | N | 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 | X | 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 | N | X | X | X | X | X | X | X | X | X |
| Office of Water Research & Technology | X | X | X | X | X | X | X | X | X | N |
| United States Fish & Wildlife Service | X | X | X | X | X | X | X | X | X | X |
| 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 | X |
| Department of Labor | T | T | T | T | T | T | T | T | T | T |
| 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 | N | N | N | X | X |
| Labor-Management Services Administration | X | X | X | X | X | X | X | X | 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 | N | N | N | X | X | X | X | X |
| Pension & Welfare Benefits Administration | N | N | N | N | N | N | N | N | X | X |
| Department of State | T | T | T | T | T | T | X | X | X | X |
| Agency for International Development | X | X | X | N | N | N | N | N | N | N |
| Departmental Funds | X | X | X | X | X | X | 0 | 0 | 0 | 0 |
| 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 | N | N | N | X | X | X | X | X |
| Materials Transportation Bureau | X | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 | N | 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 | X | X | X | N | N | N | N |
| Bureau of Engraving & Printing | X | X | X | X | X | X | X | X | X | X |
| Financial Crimes Enforcement Network | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Internal Revenue Service | 0 | 0 | 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 26-35

| Agency | Vol 26 | Vol 27 | Vol 28 | Vol 29 | Vol 30 | Vol 31 | Vol 32 | Vol 33 | Vol 34 | Vol 35 |
|---|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 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..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | X | X |
| United States Secret Service | N | N | N | N | X | X | X | X | X | X |
| Department of Veterans Affairs..... | X | X | X | X | X | X | X | X | X | X |
| Other agencies | | | | | | | | | | |
| ACTION | X | X | X | X | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| Civil Service Commission..... | X | X | N | N | N | N | N | N | N | N |
| Community Services Administration..... | X | X | X | X | X | X | N | N | N | N |
| Consumer Product Safety Commission..... | X | X | X | X | X | X | X | X | X | X |
| Energy Research & Development Administration..... | X | N | N | N | N | N | N | N | N | N |
| Energy Security Trust Fund..... | N | N | N | X | 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..... | N | N | T | X | X | X | X | X | X | X |
| Defense Civil Preparedness Agency | N | N | N | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Fire Prevention & Control Administration..... | N | N | X | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Federal Energy Administration | X | N | N | N | N | N | N | N | N | N |
| Federal Trade Commission | X | X | X | X | X | X | X | X | X | X |
| Foundation for Educational Assistance | N | N | N | N | N | X | N | N | N | N |
| General Services Administration | X | X | X | X | X | X | X | X | X | X |
| International Development Cooperation Agency..... | N | N | N | T | T | T | T | T | T | T |
| Agency for International Development..... | N | N | N | X | X | X | X | X | X | X |
| Institute for Scientific & Technological Cooperation..... | 0 | 0 | 0 | X | 0 | 0 | 0 | 0 | 0 | 0 |
| Interstate Commerce Commission | X | X | X | X | X | 0 | 0 | 0 | 0 | 0 |
| 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 | N | N | N | 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 Personnel Management..... | N | N | X | X | X | X | 0 | 0 | 0 | 0 |
| Office of Telecommunications Policy | X | N | N | N | N | N | N | N | N | N |
| Office of Thrift Supervision..... | X | X | X | X | X | X | X | X | X | X |
| Small Business Administration..... | X | X | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| 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 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 45 (see table A-2), for example, actual data were collected for FY 1995 and estimates were collected for FY 1996 and FY 1997.

KEY: N = The agency did not exist as such; therefore no data are available.
 0 = 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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

Table A-2. Agencies included in the Survey of Federal Funds for Research and Development: Volumes 36-45

| Agency | Vol 36 | Vol 37 | Vol 38 | Vol 39 | Vol 40 | Vol 41 | Vol 42 | Vol 43 | Vol 44 | Vol 45 |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Department of Agriculture | T | T | T | T | T | T | T | T | T | T |
| Agricultural Cooperative Service | X | X | X | X | X | X | X | X | X | 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 |
| 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 |
| Foreign Agricultural Service | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | X | X | X | N |
| National Agricultural Statistics Service | X | X | X | X | X | X | X | X | X | X |
| Office of International Cooperation & Development | X | X | X | X | X | X | X | X | X | N |
| Office of Transportation | X | X | X | N | N | N | N | N | N | N |
| Rural Business-Cooperative Service | N | N | N | N | N | N | N | N | X | X |
| 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 |
| Maritime Administration | N | N | N | N | N | N | N | N | N | N |
| Minority Business Development Agency | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Telecommunications & Information Administration | X | X | X | X | X | X | X | X | X | X |
| Office of Telecommunications | N | N | N | N | N | N | N | N | N | N |
| Office of the Secretary | X | X | X | X | X | X | X | X | X | X |
| Patent & Trademark Office | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Defense | 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 |
| Military Construction | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pay & Allowances of Military Personnel in R&D | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| RDT&E Appropriation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Special Foreign Currency Program | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of the Navy | X | X | X | X | X | X | X | X | X | X |
| Military Construction | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pay & Allowances of Military Personnel in R&D | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| RDT&E Appropriation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Special Foreign Currency Program | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of the Air Force | X | X | X | X | X | X | X | X | X | X |
| Military Construction | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pay & Allowances of Military Personnel in R&D | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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 36-45

| Agency | Vol 36 | Vol 37 | Vol 38 | Vol 39 | Vol 40 | Vol 41 | Vol 42 | Vol 43 | Vol 44 | Vol 45 |
|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| RDT&E Appropriation..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Defense Agencies..... | X | T | T | T | T | T | T | T | T | T |
| Ballistic Missile Defense Organization..... | 0 | 0 | 0 | 0 | X | X | X | X | X | X |
| Defense Advanced Research Projects Agency..... | 0 | 0 | 0 | 0 | X | X | X | X | X | X |
| Defense Information Systems Agency..... | 0 | 0 | 0 | 0 | X | X | X | X | X | X |
| Defense Logistics Agency..... | 0 | 0 | 0 | 0 | X | X | X | X | X | X |
| Defense Mapping Agency..... | 0 | 0 | 0 | 0 | X | X | X | X | X | X |
| Defense Nuclear Agency..... | 0 | 0 | 0 | 0 | X | X | X | X | X | X |
| Joint Staff..... | 0 | 0 | 0 | 0 | X | X | X | X | X | X |
| Special Operations Command..... | 0 | 0 | 0 | 0 | X | X | X | X | X | X |
| Uniformed Services University of the Health Sciences..... | 0 | 0 | 0 | 0 | X | X | X | X | X | N |
| Washington Headquarters Services..... | 0 | 0 | 0 | 0 | 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 | N | N | N | X | 0 | 0 | 0 | 0 |
| 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 |
| 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 |
| 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 Assistant Secretary for Health..... | 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 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 | X | X | X | X | X |
| Administration for Children & Families..... | N | N | N | N | N | X | X | X | X | X |
| Agency for Health Care Policy & Research..... | N | N | N | N | X | X | X | X | X | X |
| Alcohol, Drug Abuse, & Mental Health Administration..... | X | X | X | X | X | X | 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 |
| 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 | X | X | X | 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 | X | X | X |
| Office of the Secretary..... | X | X | X | X | X | X | X | X | X | X |
| Social Security Administration..... | X | X | X | X | X | X | X | X | X | X |
| Department of Housing & Urban Development..... | 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 36-45

| Agency | Vol 36 | Vol 37 | Vol 38 | Vol 39 | Vol 40 | Vol 41 | Vol 42 | Vol 43 | Vol 44 | Vol 45 |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 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 | X | X | X | 0 | 0 |
| Bureau of Mines | X | X | X | X | X | X | X | X | X | 0 |
| Bureau of Reclamation | X | X | X | X | X | X | X | X | X | X |
| 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 | N | N | N | N | X | X |
| 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 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 | 0 |
| Office of Water Research & Technology | N | N | N | N | N | N | N | N | N | N |
| United States Fish & Wildlife Service | X | X | X | X | X | X | X | X | 0 | 0 |
| 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Labor | T | T | T | T | T | T | T | T | T | T |
| Bureau of Labor Statistics | X | X | X | X | X | X | X | X | X | X |
| Employment Standards Administration | X | X | X | X | X | 0 | 0 | 0 | 0 | 0 |
| Employment & Training Administration | X | X | X | X | X | X | X | X | X | X |
| Labor-Management Relations & Cooperative Programs | X | X | X | X | 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 |
| 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 |
| Departmental Funds | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 | X | N |
| Maritime Administration | X | X | X | 0 | X | X | X | X | X | X |
| Materials Transportation Bureau | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 | 0 | 0 | 0 | 0 | 0 | X | X | X | 0 | 0 |
| Internal Revenue Service | 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 36-45

| Agency | Vol 36 | Vol 37 | Vol 38 | Vol 39 | Vol 40 | Vol 41 | Vol 42 | Vol 43 | Vol 44 | Vol 45 |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Office of Thrift Supervision | N | N | N | N | 0 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| 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..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Defense Civil Preparedness Agency | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Fire Prevention & Control Administration..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Federal Energy Administration..... | N | N | N | N | N | N | N | N | N | N |
| Federal Trade Commission..... | X | X | X | X | X | X | X | X | X | X |
| Foundation for Educational Assistance | N | N | N | N | N | N | N | N | N | N |
| General Services Administration | X | X | X | X | X | X | X | X | X | X |
| International Development Cooperation Agency..... | T | T | T | T | T | T | T | T | T | T |
| Agency for International Development..... | X | X | X | X | X | X | X | X | X | X |
| Institute for Scientific & Technological Cooperation..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Interstate Commerce Commission..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 Personnel Management..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Office of Telecommunications Policy | N | N | N | N | N | N | N | N | N | N |
| Office of Thrift Supervision..... | X | X | X | X | X | N | N | N | N | N |
| Small Business Administration..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Smithsonian Institution..... | X | X | X | X | X | X | X | X | X | X |
| Social Security Administration..... | N | N | N | N | N | N | N | N | N | X |
| 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 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 45 (see table A-2), for example, actual data were collected for FY 1995 and estimates were collected for FY 1996 and FY 1997.

KEY: N = The agency did not exist as such; therefore no data are available.
 0 = 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/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997



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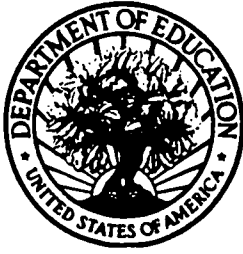
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