

DOCUMENT RESUME

ED 386 104

HE 028 512

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 TITLE Selected Data on Federal Support to Universities and Colleges, Fiscal Year 1993. Selected Data Tables.  
 INSTITUTION National Science Foundation, Arlington, VA. Div. of Science Resources Studies.  
 REPORT NO NSF-95-320  
 PUB DATE 95  
 NOTE 60p.; For the 1992 data, see ED 373 679. Replaces NSF-94-4.  
 AVAILABLE FROM Division of Science Resources Studies, National Science Foundation, Arlington, VA 22230 (first copy free; send e-mail request to pubs@nsf.gov.  
 PUB TYPE Statistical Data (110) -- Reports - Descriptive (141)  
 EDRS PRICE MF01/PC03 Plus Postage.  
 DESCRIPTORS Colleges; Comparative Analysis; Educational Equipment; Educational Facilities; \*Educational Finance; Engineering; \*Federal Aid; Government School Relationship; Grants; Higher Education; Institutional Characteristics; \*Research and Development; \*Resource Allocation; Revenue Sharing; Science Activities; Surveys; Tables (Data); Universities

ABSTRACT

This report presents survey data from the Survey of Federal Support to Universities, Colleges, and Nonprofit Institutions for Fiscal Year 1993. This is a survey of the 15 federal agencies that provide virtually all of the federal funding for science and engineering research and development (R&D) at universities and colleges. Data tables list federal obligations to universities and colleges by type of activity for the fiscal years (FYs) 1963-93. Data present federal obligations for science and engineering R&D, first by geographic divisions and state, for FYs 1986-93; second, by the 100 universities and colleges receiving the largest amounts, ranked by total amount received, by agency for FY 1993; and, third, by state, institution, and agency for FY 1993. Statistical data also show federal obligations to universities and colleges by: (1) type of activity and agency for FYs 1963-93; (2) geographic division and state for FYs 1986-93; (3) agency and type of activity for FY 1993; (4) geographic division, state, and agency for FY 1993; and (5) the 100 schools receiving the largest amounts, ranked by total amount received and type of activity for FY 1993. (MDM)

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# Selected Data on Federal Support to Universities and Colleges

Fiscal Year 1993

## Selected Data Tables

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

**National Science Foundation**



NSF 95-320

# **Selected Data on Federal Support to Universities and Colleges**

**Fiscal Year 1993**

Statistical Data Tables

Richard Bennof, Project Officer

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

**National Science Foundation**



NSF 95-320

## Suggested Citation

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## Contributors

Data collection, preparation, and tabulations were performed by Quantum Research Corp. for the National Science Foundation. The Project Officer for this report was Richard J. Bennof.

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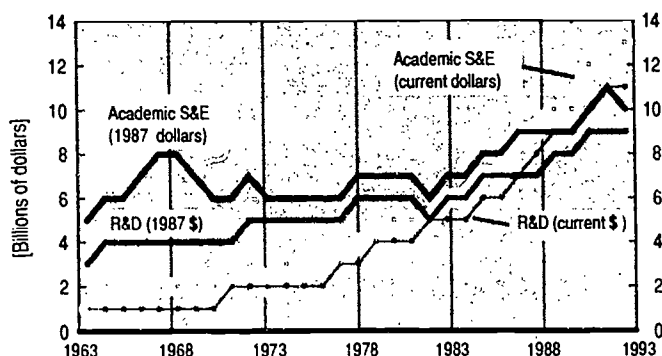
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# OVERVIEW

Federal obligations for academic science and engineering (S&E) activities totaled \$12.7 billion in fiscal year (FY) 1993, representing a very slight decline (one-tenth of 1 percent) from FY 1992, or more than a 2-percent decrease after adjustment for inflation. A reflection of the budgetary constraints facing all Federal programs, the current-dollar decrease in academic S&E funding was the first in 21 years (chart A). Between FYs 1973 and 1992 academic S&E support rose at an average annual rate of 9 percent (3 percent when adjusted for inflation).

Chart A. Federal academic S&E and R&D obligations:  
Fiscal years 1963-93



SOURCE: National Science Foundation/SRS, Survey of Federal Support to Universities, Colleges, and Nonprofit Institutions, Fiscal Year 1993

## CATEGORIES OF SUPPORT

Academic S&E includes the following six funding categories: (1) research and development (R&D); (2) fellowships, traineeships, and training grants (FTTG); (3) R&D plant; (4) facilities and equipment for instruction; (5) general support for S&E; and (6) other S&E activities. The R&D portion, which represented \$6 of every \$7 of academic S&E, totaled \$10.9 billion in FY 1993, representing an increase of 0.7 percent from the R&D obligated the previous year. When adjusted for inflation, the 1.6-percent decrease was the first for academic R&D programs in 12 years. About one-half (\$5.6 billion) of all academic R&D funds were from the Department of Health and Human Services (HHS) in FY 1993 with the National Science Foundation (NSF) and the Department of Defense (DOD) responsible for three-fifths of the remainder (\$1.61 billion and \$1.59 billion, respectively).

Only two of the other five academic S&E categories (R&D plant and FTTG) showed increased levels of support, both increasing at rates higher than the 2.4-percent inflation rate. R&D plant funding rose by 27 percent in current dollars to a new high of \$259 million. Nearly all of the gain came from increases in Department of Energy (DOE) programs, which accounted for nearly one-half of the Federal R&D plant total. NSF and the Department of Agriculture (USDA) provided most of the remainder of academic R&D plant support. FTTG obligations rose by 3 percent in current dollars, to \$525 million. Most of the FTTG increase was from HHS, the source of nearly two-thirds of the FTTG total. Over five-sixths of HHS' FTTG obligations were from National Institutes of Health projects. Federal obligations for facilities and equipment for instruction totaled \$32 million in FY 1993 (down by 16 percent); general S&E support dropped by nearly 59 percent in current dollars to \$66 million, mostly as a result of sharp reductions from HHS and the Department of Education; and other S&E activities totaled \$902 million, down by 7 percent.

## AGENCY SOURCES

Of the six agencies responsible for the largest amounts of academic S&E obligations in FY 1993 (accounting for 95 percent of the Federal total), four (DOD, the National Aeronautics and Space Administration (NASA), NSF, and the DOE) reported current-dollar increases (table A). However, the only agencies that showed increases exceeding the rate of inflation were DOD and NASA (19 percent and 6 percent, respectively, in real terms). More than five-sixths of the DOD increase and two-fifths of the NASA increase were for R&D programs. In current dollars, academic S&E funding from HHS fell by 3 percent, and S&E funding declined by a fraction of 1 percent from USDA. Part of the decrease from HHS may have been related to reporting changes by the agency's Alcohol, Drug Abuse, and Mental Health Administration.

## UNIVERSITY SHARES

Federal academic S&E obligations—not surprisingly—are highly concentrated among doctorate-granting institutions in general and major research universities in particular. Although less than one-third of all

universities and colleges receiving Federal S&E funds granted doctorates in FY 1993, nearly all (97 percent) academic S&E support was obligated to these doctorate-granting institutions. The leading 100 academic S&E recipients in FY 1993 (out of 1,091 institutions, excluding 35 system offices) accounted for 81 percent of the total. The Johns Hopkins University (including its Applied Physics Laboratory, which received over three-fifths of the Johns Hopkins University's total) was the top recipient of Federal academic S&E support, nearly all of it from DOD and HHS. Eighteen of the top twenty academic S&E recipients in FY 1993 were also among the leading 20 in FY 1992. The new entrants were Duke University (now 19th) and the University of Texas at Austin (20th).

**Table A. Federal academic science and engineering support, by agency: FY 1992-93**

| Agency         | FY 1992               | FY 1993  | Percent change |             |
|----------------|-----------------------|----------|----------------|-------------|
|                | [Millions of dollars] |          | Current \$     | Constant \$ |
| Total.....     | \$12,739              | \$12,725 | -0.1           | -2.5        |
| HHS.....       | 6,210                 | 6,023    | -3.0           | -5.3        |
| NSF.....       | 1,830                 | 1,853    | 1.5            | -0.9        |
| DOD.....       | 1,510                 | 1,334    | 21.5           | 18.6        |
| USDA.....      | 942                   | 941      | -0.1           | -2.5        |
| NASA.....      | 680                   | 737      | 8.4            | 5.9         |
| DOE.....       | 705                   | 716      | 1.5            | -0.8        |
| All other..... | 862                   | 615      | -28.6          | -30.3       |

SOURCE: National Science Foundation/SRS, Survey of Federal Support to Universities, Colleges, and Nonprofit Institutions. Fiscal Year 1993

In FY 1983, the leading 100 performers accounted for 84 percent of the total; in FY 1973 the proportion was 83 percent. When the survey series began in FY 1963, the top 100 universities received 87 percent (out of 813 institutions). Of the leading 100 academic S&E recipients in FY 1993, 92 were among the top 100 S&E performers in FY 1983. Again reflecting the stability in obligation shares, these 92 institutions accounted for 78 percent of the FY 1993 total and 81 percent of the FY 1983 total.

## GEOGRAPHIC DISTRIBUTION

Over three-fifths of all Federal S&E support to universities and colleges in FY 1993 was concentrated among 11 States, each of which received \$300 million or more in academic S&E support. These States were located predominantly

along the Atlantic and Pacific coasts and within the East North Central (i.e. Great Lakes) Region. Outside of those regions, the only recipient of more than \$300 million in academic S&E support was Texas. Academic institutions in California and New York received the largest amounts of Federal academic S&E obligations; together, they accounted for 21 percent of the total (table B).

**Table B. Federal academic science and engineering support to states receiving at least \$300 million, fiscal year 1993**

| State                 | S&E support           | Share of total S&E |
|-----------------------|-----------------------|--------------------|
|                       | [Millions of dollars] | [Percent]          |
| Total S&E.....        | \$12,725              | 100.0              |
| California.....       | 1,638                 | 12.9               |
| New York.....         | 1,063                 | 8.4                |
| Maryland.....         | 862                   | 6.8                |
| Massachusetts.....    | 854                   | 6.7                |
| Pennsylvania.....     | 787                   | 6.2                |
| Texas.....            | 696                   | 5.5                |
| Illinois.....         | 457                   | 3.6                |
| North Carolina.....   | 446                   | 3.5                |
| Michigan.....         | 427                   | 3.4                |
| Ohio.....             | 349                   | 2.7                |
| Washington.....       | 330                   | 2.6                |
| All other States..... | 4,816                 | 37.8               |

SOURCE: National Science Foundation/SRS, Survey of Federal Support to Universities, Colleges, and Nonprofit Institutions, Fiscal Year 1993

## HISTORICALLY BLACK COLLEGES AND UNIVERSITIES (HBCUs)

S&E support for 76 HBCUs totaled \$232 million in FY 1993, a decline of 5 percent in current dollars from FY 1992 levels. R&D programs accounted for 60 percent of the HBCU total in contrast to their 86-percent proportion among all universities. Howard University was the leading HBCU recipient in terms of both R&D support and total S&E support at \$18 million and \$25 million, respectively. Among all universities, however, Howard University ranked 122nd in the Nation in S&E support.

Federal sources of R&D funding are somewhat broader for HBCUs than for all universities in

general. Five Federal agencies accounted for almost 90 percent of the R&D obligated to HBCUs, with no agency accounting for more than 25 percent of the R&D total. The funding shares of those five agencies ranged from 14 percent from NSF to 25 percent from USDA.

## INDEPENDENT NONPROFIT INSTITUTIONS

In FY 1993, Federal obligations for S&E R&D and R&D plant to 1,030 independent nonprofit institutions (excluding obligations to Federally Funded Research and Development Centers administered by nonprofit organizations) totaled \$3.2 billion, 1 percent below FY 1992 levels in current dollars. Over three-fifths of all nonprofit support was to research institutes, even though they accounted for less than one-fourth of all recipient nonprofit institutions (which also include voluntary hospitals and other independent organizations such as private foundations and trade associations). Of the 10 leading nonprofit institutions ranked by levels of obligations in FY 1993 (table C), six were research institutes, as were the top three: Universities Research Association for Superconducting Super Collider (URA SSC) Lab (\$495 million), the Mitre Corp. (\$246 million), and Sematech, Inc. (\$93 million).

The URA SSC Lab—which began to be phased out in FY 1994—received all of its support from DOE. DOD was the source of all support for Sematech, Inc., and nearly all of the Mitre Corp.'s funding. Of the Federal total, DOD provided about one-fourth of

all obligations to nonprofit institutions, with nearly \$7 of each \$8 from DOD going to research institutes. HHS supplied over one-third of all Federal nonprofit support and nearly all Federal support to voluntary hospitals. The three largest voluntary hospital recipients were among the top 10 nonprofit organizations: the Massachusetts General Hospital (\$89 million), the Brigham and Women's Hospital (\$86 million), and the Scripps Clinic & Research Foundation (\$73 million).

**Table C. Federal R&D and R&D plant obligations to the leading 10 independent nonprofit institutions ranked by total amount received in fiscal year 1993**

[Millions of dollars]

| Institution and ranking                | FY 1993 | FY 1992 |
|--|---------|---------|
| Total, all nonprofit institutions..... | \$3,178 | \$3,208 |
| 1. U Rsch Assc Super Conduc.....       | 495     | 468     |
| 2. Mitre Corp.....                     | 246     | 248     |
| 3. Sematech Inc.....                   | 93      | 98      |
| 4. MA General Hospital.....            | 89      | 91      |
| 5. Brigham and Womens Hosp.....        | 86      | 82      |
| 6. Battelle Memorial Inst.....         | 79      | 63      |
| 7. Natl Academy of Sciences.....       | 76      | 77      |
| 8. Scripps Clinic & Rsch Fdn.....      | 73      | 69      |
| 9. SRI International.....              | 64      | 63      |
| 10. Draper Laboratories.....           | 64      | 41      |

SOURCE: National Science Foundation/SRS, Survey of Federal Support to Universities, Colleges, and Nonprofit Institutions, Fiscal Year 1993

# INTRODUCTION

The data presented in this summary are derived from the Survey of Federal Support to Universities, Colleges, and Nonprofit Institutions: Fiscal Year 1993 (hereinafter referred to as the Federal Support Survey) and are being released in advance of the publication that contains more comprehensive detailed statistical tables. Among the available data excluded from this summary are academic totals by type of institutional control, by highest degree granted, and by field of science and engineering (S&E) discipline; data on historically black colleges and universities; data on nonprofit institutions; and data on university and nonprofit-administered federally funded research and development centers.

## SURVEY COVERAGE

The 15 Federal agencies surveyed in this report provided virtually all of the Federal funding for S&E research and development (R&D) at universities and colleges. The data presented in these tables are for all categories of direct Federal S&E obligations to institutions of higher education in the United States. Therefore, amounts that are subcontracted to other institutions are included, but funds that are received by academic institutions through subcontract arrangements from prime contractors are excluded.

## ACRONYMS AND ABBREVIATIONS

The fiscal year (FY) 1993 data shown in this report were submitted by the following Federal agencies, listed by the acronyms and abbreviated references under which data are reported for them:

|     |   |   |
|-----|---|---|
| AID | - | Agency for International Development    |
| Com | - | Department of Commerce                  |
| DoD | - | Department of Defense                   |
| DOT | - | Department of Transportation            |
| Ed  | - | Department of Education                 |
| EPA | - | Environmental Protection Agency         |
| DOE | - | Department of Energy                    |
| HHS | - | Department of Health and Human Services |

|        |   |   |
|--------|---|---|
| ACF    | - | Administration for Children and Families                  |
| AHCPR  | - | Agency for Health Care Policy and Research                |
| AoA    | - | Administration on Aging                                   |
| ATSDR  | - | Agency for Toxic Substances and Disease Registry          |
| CDC    | - | Centers for Disease Control and Prevention                |
| FDA    | - | Food and Drug Administration                              |
| HCFA   | - | Health Care Financing Administration                      |
| HRSA   | - | Health Resources and Services Administration              |
| IHS    | - | Indian Health Service                                     |
| NIH    | - | National Institutes of Health                             |
| OASH   | - | Office of the Assistant Secretary for Health              |
| SAMHSA | - | Substance Abuse and Mental Health Services Administration |
| SSA    | - | Social Security Administration                            |

|       |   |   |
|-------|---|---|
| HUD   | - | Department of Housing and Urban Development   |
| Int   | - | Department of the Interior                    |
| Labor | - | Department of Labor                           |
| NASA  | - | National Aeronautics and Space Administration |
| NRC   | - | Nuclear Regulatory Commission                 |
| NSF   | - | National Science Foundation                   |
| USDA  | - | Department of Agriculture                     |

The following abbreviated references are used throughout the report:

|        |   |  |
|--------|---|--|
| FFRDCs | - | federally funded research and development centers (not published in this report) |
| FTTGs  | - | fellowships, traineeships, and training grants                                   |
| FY     | - | fiscal year  |
| NA     | - | not available  |
| n.e.c. | - | not elsewhere classified   |
| R&D    | - | research and development   |
| S&E    | - | science and engineering  |
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## DEFINITIONS

**Obligations** are 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. Obligations differ from expenditures in that funds allocated by Federal agencies during one fiscal year may be expended by the recipient institution either partially or entirely during one or more subsequent years.

### Type of Institution

**Universities and colleges** are those institutions of higher education in the United States that offer at least 1 year of college-level study leading toward a degree. A university or college comprises all parts of an academic institution, such as colleges of liberal arts, professional schools, hospitals, schools of agriculture, and agricultural experiment stations, including bureaus, offices, and research centers (excluding FFRDCs), whether located on or off the main campus and branch campuses controlled directly by the parent institution. The universe of academic institutions that is the foundation of this survey is derived from the higher education institutions' portion of the Department of Education's Integrated Postsecondary Education Data System (IPEDS), sponsored by the National Center for Education Statistics, and the *1994 Higher Education Directory*, published by Higher Education Publications, Inc. Institutions included are those that received Federal support during FY 1993 and possessed a significant degree of academic and administrative autonomy. Institutions within a system (group of institutions having a collective legal status and generally recognized by a State government, a board of education, or other relevant organization) in which a significant degree of autonomy remains at the individual institution level are presented separately; obligations to branch campuses are included in the totals for their parent institutions. The study excludes all obligations to the service academies and to the USDA Graduate School.

### Categories of Support

**Academic science and engineering** includes all obligations for the following activities: R&D; R&D plant; facilities and equipment for S&E instruction; fellowships, traineeships, and training grants; general

support for science and engineering; and other S&E activities. These activities are defined as follows:

**Research and development** includes all research activities, both basic and applied, and all development activities that are supported at universities and colleges. Demonstration projects conducted to discover whether a technology or method is workable are considered to be within the scope of R&D if their objective is to produce new information within a specific time period.

"Research" is defined as systematic study directed toward fuller scientific knowledge or understanding of the subject studied. Research can be classified as basic or applied, although data reported here are not separated into these categories. In basic research the investigation is oriented toward gaining a better 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 investigation is aimed at gaining the knowledge or understanding necessary for determining the means by which a recognized and specific need may be met.

"Development" is the systematic use of knowledge and understanding gained from research directed toward the production of useful materials, devices, systems, or methods, including design and development of prototypes and processes. Research and development excludes topographic mapping and surveys, collection of general-purpose statistics, and activities concerned primarily with the dissemination of scientific information. Also excluded are routine product testing, quality control, and R&D facilities and fixed equipment.

"Research equipment" is included as part of R&D. It includes any item (or interrelated collection of items constituting a system) of nonexpendable tangible property or software having a useful life of more than 2 years and an acquisition cost of \$500 or more that is used wholly or in part for research.

**R&D plant** includes all costs—direct, indirect, and related—of all projects whose main objective is to provide support for the construction, acquisition, renovation, modification, repair, or rental of facilities, land, works, or equipment for use in scientific or engineering R&D. A facility is interpreted broadly to

be any physical resource important to the conduct of R&D. Excluded are expendable research equipment and office furniture and equipment.

**Facilities and equipment** for S&E instruction include all programs in which the main purpose is to provide support for the construction, acquisition, renovation, modification, repair, or rental of facilities, land, works, or equipment for use in instruction in science and engineering.

**Fellowships, traineeships, and training grants** include graduate programs in support of the development and maintenance of S&E personnel resources. The total amounts pertaining to such awards (stipends and cost-of-education allowances) are reported on the basis of the institution chosen by the recipient. Excluded are programs that support research and education institutes, seminars, and conferences such as teacher-training activities provided through teacher institutes, short courses, research participation, and in-service seminars; activities aimed at the development of education techniques and materials for use in S&E training; and programs that provide special opportunities for increasing the scientific knowledge and experience of precollege and undergraduate students. These activities are included in "Other S&E" if they are S&E oriented.

**General support for science and engineering** includes programs that support nonspecific or generalized purposes related to scientific research and education. Such projects are generally oriented toward academic departments, institutes, or institutions as a whole and embody varying types of support—ranging from that provided without any specification of purpose other than that the funds be used for scientific projects to that provided for activities within a specified field of science and engineering without a specific purpose. NIH's Biomedical Research Support Grants and Minority Biomedical Support Grants are examples of these types of programs.

**Other science and engineering activities** include all academic S&E activities that cannot meaningfully be assigned to one of the preceding five categories. Types of activities included are obligations in support of technical conferences, teacher institutes, and activities aimed at increasing the scientific knowledge of precollege and undergraduate students.

## DATA LIMITATIONS AND RELATIONSHIP BETWEEN SURVEYS

Data presented in this report on R&D and R&D plant by agency sometimes conflict significantly with such data presented in the annual NSF Survey of Federal Funds for Research and Development (referred to hereinafter as the Federal Funds Survey). The treatment of interagency transfers explains much of the difference in the totals. Interagency transfers of funds obligated to an academic or nonprofit institution are reported in the Federal Support Survey by the agency that actually obligates the funds to the receiving institution. In the Federal Funds Survey, however, obligations are reported by the initiating agency. Each of several agencies utilizes personnel from separate internal offices to respond to the two individual surveys, and each frequently collects data from different sources. Data for the Federal Support Survey, for example, are generally processed from award files, whereas Federal Funds Survey data are usually derived from agency budget documents.

Respondents from the separate internal offices that participate in the two surveys also frequently differ in their interpretation of the survey questions. The National Institutes of Health, for example, reports its Biomedical Research Support Grants under "General support for science & engineering" in the Federal Support Survey but under "Research and development" in the Federal Funds Survey.

Regarding the structure of the surveys themselves, the data presented in this report differ in several ways from those presented in the report on the Federal Funds Survey:

1. The two surveys differ in number of agencies involved. In the Federal Support Survey, the 15 Federal agencies that obligate virtually all of Federal support to academic R&D collect data on all Federal S&E obligations to institutions of higher education. For the Federal Funds Survey, data are gathered on budgets for R&D and R&D plant from all 32 Federal agencies that conduct such programs.
2. The scope of information gathered differs between the two surveys: Data collected in the Federal Support Survey pertain to individual academic institutions, whereas

those collected in the Federal Funds Survey relate to all types of performers and to character of work (basic research, applied research, and development).

For further information concerning the availability of Federal Support Survey data and the technical aspects of this survey, please contact Richard J. Bennof, Project Officer, Research and Development Statistics Program, at the following address:

Division of Science Resources Studies  
National Science Foundation  
4201 Wilson Blvd., Suite 965  
Arlington, VA 22230

Telephone: (703) 306-1772, ext. 6938  
Internet: [rbennof@nsf.gov](mailto:rbennof@nsf.gov)



# INFORMATION SOURCES

## DATA TAPES

Public-use tapes from the Integrated Academic Science and Engineering Data Base are available for purchase and will normally be shipped within 3 working days from receipt of order. Data tapes from the most recent surveys (1993) are currently available. Individuals interested in obtaining data tapes from the National Science Foundation (NSF) Surveys of Academic Science and Engineering should request a copy of the *Guide to the Data Files from the National Science Foundation's Annual Surveys of Academic Science and Engineering*, which contains order forms and detailed information about the tapes. This document may be obtained by calling the Division of Science Resources Studies (SRS) Science and Engineering Activities Program at (703) 306-1772.

## INSTITUTIONAL PROFILES

Selected data items for individual doctorate-granting institutions and schools with science and engineering departments that grant a master's degree are available on computer-generated institutional profiles. An institutional profile consists of data not only from the Federal Support Survey, but also from NSF's other two academic S&E surveys: the Survey of Scientific and Engineering Expenditures at Universities and Colleges (R&D expenditures survey) and the Survey of Graduate Students and Postdoctorates in Science and Engineering (graduate student survey). For information on obtaining one or a limited group of institutional profiles, please call Richard J. Bennof at (703) 306-1772.

## CASPAR

Institutional planners are now able to acquire data from several academic S&E resources on CD-ROM. The compact disk contains the Computer-Aided Science Policy Analysis and Research (CASPAR) database system, which is an easy-to-use tool for retrieval and analysis of statistical data on academic S&E resources. CASPAR provides the analyst with an extensive and growing data library with multiyear statistics on the state of higher education in general and on academic S&E resources specifically. This data library is developed from multiple sources by using standardized institutional names and fields of S&E definitions. The CASPAR program includes built-in help capabilities to facilitate the use and interpretation of the data.

CASPAR data are drawn from a number of sources. All data are available by individual institutions, by State, and at the national level. Longitudinal data from surveys of universities and colleges conducted by SRS include the Federal Support Survey and R&D expenditures survey in addition to the graduate student survey. Data from the surveys of universities and colleges conducted by the National Center for Education Statistics include earned degrees, opening fall enrollment, faculty salaries, tenure and fringe benefits, and financial statistics. Data from other sources include the National Research Council Doctorate Programs Ratings.

For additional information on CASPAR write or fax your request to the address below:

Quantum Research Corp.  
Attn: CASPAR  
7315 Wisconsin Avenue, Suite 631W  
Bethesda, MD 20814

Fax: (301) 657-3862

**Table 1. Federal obligations for science and engineering (S&E) to universities and colleges, by type of activity: fiscal years 1963-93**

[Dollars in thousands]

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| Fiscal year | Total academic S&E | Research and development | R&D plant | Facilities for instruction in S&E | Fellowships, traineeships, and training grants | General support for S&E | Other S&E activities |
|-------------|--------------------|--------------------------|-----------|-----------------------------------|--|-------------------------|----------------------|
| 1963        | 1,328,511          | 829,524                  | 105,896   | (1)                               | (1)  | (1)                     | 393,091              |
| 1964        | 1,528,604          | 975,597                  | 100,837   | (1)                               | (1)  | (1)                     | 452,170              |
| 1965        | 1,816,171          | 1,094,963                | 126,196   | (1)                               | (1)  | (1)                     | 595,012              |
| 1966        | 2,163,504          | 1,252,146                | 114,767   | (1)                               | 365,560  | (1)                     | 431,031              |
| 1967        | 2,323,795          | 1,301,242                | 111,309   | (1)                               | 447,236  | (1)                     | 464,008              |
| 1968        | 2,349,817          | 1,398,305                | 96,148    | (1)                               | 440,895  | (1)                     | 414,469              |
| 1969        | 2,361,399          | 1,474,681                | 54,516    | (1)                               | 436,270  | (1)                     | 395,932              |
| 1970        | 2,187,579          | 1,446,618                | 44,778    | (1)                               | 429,408  | (1)                     | 266,775              |
| 1971        | 2,343,129          | 1,551,391                | 29,942    | 28,729                            | 421,029  | 99,669                  | 212,369              |
| 1972        | 2,599,111          | 1,853,085                | 36,917    | 26,341                            | 387,888  | 83,288                  | 211,592              |
| 1973        | 2,464,362          | 1,870,690                | 43,338    | 13,372                            | 287,210  | 38,964                  | 210,788              |
| 1974        | 2,736,984          | 2,085,204                | 29,009    | 3,506                             | 326,600  | 86,974                  | 205,691              |
| 1975        | 2,305,877          | 2,246,182                | 44,787    | 5,026                             | 201,273  | 46,353                  | 262,256              |
| 1976        | 2,959,656          | 2,430,970                | 23,899    | 3,210                             | 174,871  | 74,483                  | 252,223              |
| 1977        | 3,351,337          | 2,803,017                | 36,471    | 3,282                             | 184,671  | 75,928                  | 247,968              |
| 1978        | 3,962,500          | 3,388,438                | 34,328    | 4,906                             | 205,925  | 74,398                  | 254,505              |
| 1979        | 4,473,529          | 3,874,384                | 32,068    | 6,743                             | 204,866  | 92,483                  | 262,985              |
| 1980        | 4,790,972          | 4,160,543                | 37,780    | 3,776                             | 210,121  | 91,541                  | 287,211              |
| 1981        | 5,062,856          | 4,410,931                | 27,694    | 4,563                             | 205,448  | 92,721                  | 321,499              |
| 1982        | 5,179,610          | 4,554,475                | 31,200    | 829                               | 176,582  | 80,137                  | 336,387              |
| 1983        | 5,680,631          | 5,024,330                | 37,547    | 2,522                             | 189,616  | 94,847                  | 331,769              |
| 1984        | 6,308,014          | 5,448,821                | 49,764    | 1,889                             | 194,895  | 112,588                 | 500,057              |
| 1985        | 7,257,862          | 6,246,181                | 113,932   | 4,947                             | 253,082  | 119,171                 | 520,549              |
| 1986        | 7,430,872          | 6,456,743                | 105,827   | 4,990                             | 246,196  | 111,130                 | 505,986              |
| 1987        | 8,567,284          | 7,241,001                | 229,875   | 13,722                            | 290,942  | 236,933                 | 554,811              |
| 1988        | 9,136,202          | 7,719,162                | 202,907   | 13,345                            | 309,348  | 171,826                 | 719,614              |
| 1989        | 10,074,620         | 8,522,555                | 237,010   | 16,911                            | 340,458  | 197,745                 | 759,941              |
| 1990        | 10,443,105         | 9,005,771                | 124,841   | 19,241                            | 393,820  | 143,917                 | 755,515              |
| 1991        | 11,831,388         | 10,027,270               | 151,808   | 32,792                            | 469,297  | 192,823                 | 957,398              |
| 1992        | 12,739,476         | 10,859,207               | 204,722   | 38,504                            | 509,774  | 159,244                 | 968,025              |
| 1993        | 12,724,675         | 10,940,124               | 259,421   | 32,228                            | 524,786  | 66,087                  | 902,029              |

<sup>1</sup> Not separately identified but included under "Other S&E activities."

**NOTE:** Some trend shifts are related to institutional reclassification. As of 1978 two laboratories that were formerly considered academically administered federally funded research and development centers became part of their respective institutions: Applied Physics Laboratory (Johns Hopkins University) and Applied Research Laboratory (Pennsylvania State University). Data for these laboratories are thus included in the academic figures for 1978-93 but are excluded for prior years. Similarly, Draper Laboratories separated from the Massachusetts Institute of Technology as of fiscal year 1974 to become an independent nonprofit institution; academic data shown for 1963-73 include Draper Laboratories, whereas those for 1974-93 do not.

**SOURCE:** National Science Foundation/SRS, Survey of Federal Support to Universities, Colleges, and Nonprofit Institutions, Fiscal Year 1993

**Table 2. Federal obligations for science and engineering research and development to universities and colleges, by geographic division and State: fiscal years 1986-93**

[Dollars in thousands]

| Geographic division and State | 1986      | 1987      | 1988      | 1989      | 1990      | 1991       | 1992       | 1993       |
|-------------------------------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| United States, total          | 6,456,743 | 7,241,001 | 7,719,162 | 8,522,555 | 9,005,771 | 10,027,270 | 10,859,207 | 10,940,124 |
| New England, total            | 757,600   | 819,318   | 840,017   | 941,872   | 971,467   | 1,055,261  | 1,133,513  | 1,164,002  |
| Connecticut                   | 146,545   | 174,433   | 175,972   | 188,744   | 189,462   | 198,672    | 220,981    | 216,542    |
| Maine                         | 6,449     | 8,518     | 6,618     | 9,090     | 10,152    | 9,740      | 10,363     | 13,572     |
| Massachusetts                 | 508,166   | 536,955   | 545,068   | 629,070   | 635,952   | 698,233    | 750,045    | 782,288    |
| New Hampshire                 | 30,564    | 34,573    | 36,766    | 37,007    | 52,386    | 55,501     | 62,852     | 62,959     |
| Rhode Island                  | 43,646    | 40,731    | 47,349    | 49,525    | 51,828    | 55,243     | 56,281     | 52,785     |
| Vermont                       | 22,230    | 24,108    | 28,244    | 28,436    | 31,687    | 37,872     | 32,991     | 35,856     |
| Middle Atlantic, total        | 1,131,083 | 1,268,422 | 1,352,552 | 1,449,106 | 1,527,674 | 1,718,740  | 1,811,457  | 1,836,838  |
| New Jersey                    | 86,000    | 97,785    | 104,853   | 120,932   | 139,264   | 150,569    | 162,478    | 187,236    |
| New York                      | 671,899   | 752,897   | 795,186   | 843,497   | 851,970   | 917,093    | 977,850    | 941,509    |
| Pennsylvania                  | 373,184   | 417,740   | 452,513   | 484,677   | 536,440   | 651,078    | 671,129    | 708,093    |
| East North Central, total     | 873,105   | 980,913   | 1,017,478 | 1,138,247 | 1,195,813 | 1,342,300  | 1,453,857  | 1,486,387  |
| Illinois                      | 262,640   | 297,266   | 301,297   | 324,405   | 335,877   | 362,336    | 376,199    | 402,096    |
| Indiana                       | 100,144   | 111,184   | 111,779   | 131,315   | 137,754   | 155,882    | 178,443    | 172,670    |
| Michigan                      | 183,814   | 213,474   | 233,121   | 259,265   | 274,026   | 313,736    | 358,620    | 368,972    |
| Ohio                          | 179,050   | 199,011   | 210,593   | 238,131   | 250,885   | 291,113    | 305,189    | 307,347    |
| Wisconsin                     | 147,457   | 159,978   | 160,688   | 185,131   | 197,271   | 219,233    | 235,406    | 235,302    |
| West North Central, total     | 360,139   | 410,069   | 428,857   | 472,065   | 519,933   | 598,788    | 642,100    | 635,670    |
| Iowa                          | 74,279    | 81,722    | 89,074    | 103,214   | 106,735   | 124,814    | 128,927    | 132,338    |
| Kansas                        | 33,239    | 35,863    | 37,228    | 39,105    | 44,005    | 50,895     | 59,542     | 62,468     |
| Minnesota                     | 102,293   | 121,588   | 123,621   | 133,439   | 141,711   | 172,991    | 179,822    | 171,428    |
| Missouri                      | 111,289   | 129,483   | 137,276   | 150,269   | 169,883   | 181,893    | 204,247    | 197,385    |
| Nebraska                      | 24,524    | 28,464    | 25,763    | 27,462    | 29,379    | 42,824     | 40,864     | 41,077     |
| North Dakota                  | 9,479     | 8,109     | 11,044    | 11,715    | 22,429    | 18,666     | 21,393     | 20,995     |
| South Dakota                  | 5,036     | 4,840     | 4,851     | 6,861     | 5,791     | 6,705      | 7,305      | 9,979      |
| South Atlantic, total         | 1,067,279 | 1,218,784 | 1,387,350 | 1,480,512 | 1,578,357 | 1,756,029  | 1,913,703  | 1,942,988  |
| Delaware                      | 12,863    | 12,067    | 15,261    | 16,333    | 17,922    | 19,688     | 26,712     | 24,421     |
| District of Columbia          | 49,955    | 61,057    | 72,668    | 71,761    | 78,658    | 91,879     | 87,079     | 109,857    |
| Florida                       | 121,231   | 148,757   | 185,626   | 196,397   | 180,487   | 217,377    | 242,438    | 230,017    |
| Georgia                       | 128,772   | 145,144   | 168,371   | 183,963   | 176,210   | 193,805    | 217,915    | 207,633    |
| Maryland                      | 415,943   | 460,057   | 522,341   | 514,747   | 588,465   | 622,221    | 670,737    | 687,277    |
| North Carolina                | 194,999   | 228,096   | 246,688   | 287,838   | 305,690   | 340,513    | 384,413    | 385,188    |
| South Carolina                | 32,726    | 33,516    | 35,595    | 38,927    | 42,668    | 54,996     | 60,296     | 56,957     |
| Virginia                      | 101,082   | 118,161   | 126,596   | 155,454   | 166,017   | 181,839    | 195,471    | 200,585    |
| West Virginia                 | 9,708     | 11,929    | 14,204    | 15,092    | 22,240    | 33,711     | 28,642     | 41,053     |
| East South Central, total     | 219,146   | 270,537   | 290,579   | 312,589   | 337,519   | 393,861    | 424,616    | 423,725    |
| Alabama                       | 79,921    | 100,553   | 106,502   | 123,373   | 129,563   | 155,818    | 165,504    | 160,742    |
| Kentucky                      | 27,974    | 30,721    | 31,965    | 37,620    | 38,098    | 46,190     | 56,160     | 58,818     |
| Mississippi                   | 22,979    | 31,825    | 37,891    | 36,227    | 36,134    | 42,970     | 43,614     | 51,309     |
| Tennessee                     | 88,272    | 107,438   | 114,221   | 115,369   | 133,724   | 148,883    | 159,338    | 152,856    |
| West South Central, total     | 434,494   | 485,424   | 517,088   | 590,849   | 593,853   | 677,292    | 780,022    | 780,203    |
| Arkansas                      | 14,527    | 15,487    | 15,599    | 19,643    | 23,537    | 25,785     | 29,492     | 32,467     |
| Louisiana                     | 47,715    | 59,619    | 61,456    | 100,418   | 68,774    | 101,680    | 105,391    | 96,200     |
| Oklahoma                      | 29,468    | 32,215    | 25,495    | 30,968    | 35,607    | 33,148     | 53,102     | 45,077     |
| Texas                         | 342,784   | 378,103   | 414,538   | 439,820   | 465,935   | 516,679    | 592,037    | 606,459    |

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

**Table 2. Federal obligations for science and engineering research and development to universities and colleges, by geographic division and State: fiscal years 1986-93**

[Dollars in thousands]

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| Geographic division and State         | 1986             | 1987             | 1988             | 1989             | 1990             | 1991             | 1992             | 1993             |
|---------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| <b>Mountain, total</b> .....          | <b>366,578</b>   | <b>392,342</b>   | <b>412,334</b>   | <b>480,246</b>   | <b>533,676</b>   | <b>590,747</b>   | <b>643,843</b>   | <b>671,285</b>   |
| Arizona .....                         | 65,808           | 80,345           | 83,490           | 103,319          | 115,683          | 126,362          | 137,154          | 144,422          |
| Colorado .....                        | 108,473          | 129,826          | 145,900          | 147,301          | 168,905          | 185,613          | 213,474          | 208,487          |
| Idaho .....                           | 5,296            | 6,998            | 8,647            | 10,424           | 10,381           | 13,694           | 14,904           | 16,545           |
| Montana .....                         | 8,015            | 8,766            | 8,554            | 10,414           | 13,041           | 16,216           | 18,824           | 24,358           |
| Nevada .....                          | 10,895           | 14,955           | 13,856           | 16,188           | 23,022           | 21,909           | 25,062           | 24,865           |
| New Mexico .....                      | 79,466           | 55,058           | 56,163           | 74,134           | 70,006           | 86,483           | 88,916           | 112,115          |
| Utah .....                            | 81,627           | 86,950           | 86,648           | 108,117          | 122,907          | 129,584          | 132,803          | 123,154          |
| Wyoming .....                         | 6,998            | 9,444            | 9,076            | 10,349           | 9,731            | 10,886           | 12,706           | 17,339           |
| <b>Pacific, total</b> .....           | <b>1,234,207</b> | <b>1,379,461</b> | <b>1,457,359</b> | <b>1,637,196</b> | <b>1,725,685</b> | <b>1,868,719</b> | <b>2,026,715</b> | <b>1,969,861</b> |
| Alaska .....                          | 14,645           | 15,373           | 15,928           | 15,111           | 25,060           | 25,441           | 27,805           | 34,217           |
| California .....                      | 953,989          | 1,057,440        | 1,109,851        | 1,258,906        | 1,316,685        | 1,398,653        | 1,547,289        | 1,466,549        |
| Hawaii .....                          | 29,196           | 39,410           | 39,651           | 47,913           | 48,231           | 47,291           | 49,740           | 53,488           |
| Oregon .....                          | 71,764           | 84,038           | 91,133           | 90,801           | 95,927           | 124,579          | 123,692          | 130,083          |
| Washington .....                      | 164,613          | 183,200          | 200,796          | 224,465          | 239,782          | 272,755          | 278,189          | 285,524          |
| <b>Outlying Areas, total</b> .....    | <b>13,112</b>    | <b>15,731</b>    | <b>15,548</b>    | <b>19,873</b>    | <b>21,794</b>    | <b>25,533</b>    | <b>29,381</b>    | <b>29,165</b>    |
| Guam .....                            | 1,165            | 1,107            | 1,096            | 1,193            | 1,320            | 1,325            | 1,656            | 1,438            |
| Puerto Rico .....                     | 10,268           | 12,678           | 12,354           | 16,561           | 18,000           | 21,650           | 25,099           | 24,864           |
| American Samoa .....                  | 290              | 340              | 365              | 290              | 592              | 657              | 680              | 679              |
| Virgin Islands .....                  | 916              | 1,026            | 1,091            | 1,052            | 1,053            | 1,048            | 1,167            | 1,210            |
| Trust Territory Pacific Islands ..... | 473              | 580              | 642              | 777              | 829              | 853              | 779              | 974              |

SOURCE: National Science Foundation/SRS. Survey of Federal Support to Universities, Colleges, and Nonprofit Institutions. Fiscal Year 1993

**Table 3. Federal obligations for science and engineering research and development to the 100 universities and colleges receiving the largest amounts, ranked by total amount received, by agency: fiscal year 1993**

[Dollars in thousands]

| Institution and ranking     | Total      | USDA    | Com    | DoD re-search <sup>1</sup> | DoD development <sup>1</sup> | Ed     | DOE     | EPA     | HHS       | NASA    | NSF       | Other <sup>2</sup> |
|-----------------------------|------------|---------|--------|----------------------------|------------------------------|--------|---------|---------|-----------|---------|-----------|--------------------|
| Total, all institutions     | 10,940,124 | 462,464 | 58,434 | 1,129,998                  | 456,866                      | 94,811 | 582,110 | 142,606 | 5,610,296 | 631,139 | 1,605,937 | 165,463            |
| 1 Johns Hopkins University  | 543,873    | 170     | 230    | 17,033                     | 274,750                      | 1,906  | 5,442   | 377     | 223,725   | 9,802   | 10,438    | 0                  |
| 2 MA Inst of Technology     | 251,845    | 597     | 1,535  | 58,148                     | 50                           | 180    | 56,291  | 1,926   | 51,403    | 38,437  | 40,864    | 2,414              |
| 3 Stanford University       | 249,575    | 90      | 50     | 35,467                     | 732                          | 0      | 7,340   | 5,003   | 119,882   | 54,441  | 24,661    | 1,909              |
| 4 University of Washington  | 246,013    | 5,433   | 2,211  | 20,886                     | 4,500                        | 657    | 13,070  | 855     | 152,495   | 8,798   | 35,080    | 2,028              |
| 5 University of Michigan    | 214,612    | 580     | 643    | 18,492                     | 1,726                        | 235    | 8,114   | 4,474   | 137,236   | 10,763  | 29,027    | 3,322              |
| 6 U CA San Diego            | 204,063    | 1,150   | 75     | 23,438                     | 664                          | 0      | 10,330  | 0       | 115,063   | 16,244  | 35,926    | 1,173              |
| 7 U CA Los Angeles          | 195,788    | 363     | 0      | 11,852                     | 1,403                        | 2,931  | 21,665  | 360     | 129,321   | 8,974   | 18,438    | 481                |
| 8 Columbia U City New York  | 194,910    | 10      | 1,377  | 9,272                      | 0                            | 0      | 15,589  | 10,091  | 120,682   | 6,446   | 30,549    | 894                |
| 9 U WI Madison              | 190,469    | 10,875  | 106    | 10,257                     | 604                          | 3,129  | 18,528  | 1,172   | 95,652    | 10,838  | 38,678    | 630                |
| 10 University of PA         | 186,002    | 697     | 46     | 19,819                     | 2,102                        | 2,976  | 6,620   | 75      | 136,570   | 343     | 16,747    | 7                  |
| Total 1st 10 institutions   | 2,477,150  | 19,965  | 6,273  | 224,664                    | 286,531                      | 12,014 | 162,989 | 24,333  | 1,282,029 | 165,086 | 280,408   | 12,858             |
| 11 U CA San Francisco       | 175,388    | 0       | 0      | 871                        | 1,837                        | 135    | 3,181   | 50      | 165,993   | 1,039   | 2,282     | 0                  |
| 12 Cornell University       | 174,226    | 13,009  | 108    | 17,201                     | 455                          | 0      | 4,727   | 245     | 77,280    | 7,300   | 53,066    | 835                |
| 13 Pennsylvania State U     | 173,070    | 11,595  | 58     | 46,994                     | 30,045                       | 1,364  | 5,866   | 1,300   | 36,663    | 12,939  | 18,215    | 8,031              |
| 14 Harvard University       | 169,173    | 127     | 0      | 10,000                     | 0                            | 0      | 5,252   | 2,509   | 125,405   | 6,200   | 19,438    | 242                |
| 15 Yale University          | 169,151    | 509     | 0      | 7,705                      | 0                            | 0      | 10,203  | 0       | 138,730   | 1,235   | 10,769    | 0                  |
| 16 University of Minnesota  | 168,675    | 9,701   | 80     | 15,378                     | 200                          | 3,914  | 6,158   | 2,170   | 101,014   | 3,022   | 25,433    | 1,605              |
| 17 University of Colorado   | 145,497    | 295     | 9,199  | 7,343                      | 426                          | 255    | 4,340   | 1,224   | 81,213    | 15,823  | 24,949    | 430                |
| 18 Duke University          | 138,839    | 745     | 0      | 6,131                      | 630                          | 0      | 5,015   | 1,967   | 110,720   | 552     | 12,689    | 390                |
| 19 University of Pittsburgh | 136,780    | 75      | 0      | 5,103                      | 1,578                        | 2,841  | 1,500   | 225     | 115,470   | 990     | 8,998     | 0                  |
| 20 U CA Berkeley            | 133,232    | 11,324  | 68     | 5,625                      | 177                          | 1,229  | 3,068   | 313     | 53,076    | 22,348  | 34,683    | 1,321              |
| Total 1st 20 institutions   | 4,061,181  | 67,345  | 15,786 | 347,015                    | 321,879                      | 21,752 | 212,299 | 34,336  | 2,287,593 | 236,534 | 490,930   | 25,712             |
| 21 Washington University    | 133,210    | 112     | 0      | 3,125                      | 0                            | 0      | 2,022   | 50      | 117,410   | 3,862   | 6,541     | 88                 |
| 22 U NC Chapel Hill         | 129,071    | 796     | 41     | 3,598                      | 0                            | 1,289  | 1,381   | 5,146   | 107,472   | 2,669   | 8,751     | 328                |
| 23 U Southern California    | 125,297    | 0       | 281    | 25,035                     | 6,356                        | 1,490  | 1,767   | 100     | 73,294    | 3,369   | 12,207    | 1,398              |
| 24 U TX Austin              | 117,225    | 403     | 198    | 31,545                     | 26,131                       | 184    | 14,548  | 772     | 16,622    | 7,765   | 18,553    | 504                |
| 25 U IL Urbana Champaign    | 116,116    | 8,611   | 25     | 13,064                     | 397                          | 1,407  | 11,951  | 45      | 21,016    | 3,074   | 56,260    | 266                |
| 26 University of Arizona    | 107,819    | 4,096   | 180    | 7,438                      | 1,432                        | 875    | 3,279   | 1,204   | 48,141    | 20,833  | 18,187    | 2,154              |
| 27 Boston University        | 102,642    | 50      | 0      | 32,349                     | 3,721                        | 2,830  | 3,119   | 609     | 48,617    | 1,593   | 9,705     | 49                 |
| 28 University of Chicago    | 99,378     | 107     | 108    | 3,212                      | 30                           | 180    | 4,351   | 0       | 65,607    | 6,075   | 19,708    | 0                  |
| 29 University of Rochester  | 98,935     | 53      | 0      | 3,996                      | 250                          | 0      | 20,192  | 0       | 64,882    | 1,542   | 8,020     | 0                  |
| 30 U Alabama Birmingham     | 90,737     | 655     | 99     | 2,094                      | 143                          | 720    | 309     | 622     | 76,299    | 4,535   | 5,261     | 0                  |
| Total 1st 30 institutions   | 5,181,611  | 82,228  | 16,718 | 472,471                    | 360,339                      | 30,727 | 275,218 | 42,884  | 2,926,953 | 289,451 | 654,123   | 30,499             |
| 31 Case Western Reserve U   | 89,608     | 252     | 0      | 4,192                      | 250                          | 88     | 602     | 0       | 72,040    | 6,441   | 5,683     | 60                 |
| 32 Baylor Col of Medicine   | 88,276     | 9,000   | 0      | 441                        | 70                           | 0      | 1,375   | 169     | 76,310    | 911     | 0         | 0                  |
| 33 University of Iowa       | 87,875     | 475     | 187    | 2,722                      | 660                          | 987    | 679     | 60      | 69,162    | 5,407   | 6,094     | 1,442              |
| 34 California Inst of Tech  | 87,702     | 0       | 119    | 20,753                     | 0                            | 0      | 9,571   | 262     | 15,893    | 13,224  | 26,607    | 1,273              |
| 35 U CA Davis               | 84,495     | 6,547   | 0      | 1,408                      | 0                            | 325    | 14,807  | 1,969   | 44,557    | 1,644   | 12,763    | 475                |
| 36 Ohio State University    | 84,121     | 9,745   | 891    | 5,836                      | 70                           | 0      | 4,351   | 276     | 36,459    | 4,495   | 16,110    | 5,886              |
| 37 Northwestern University  | 82,636     | 50      | 0      | 11,414                     | 50                           | 1,396  | 3,546   | 0       | 44,625    | 1,442   | 18,821    | 1,292              |
| 38 Vanderbilt University    | 82,091     | 110     | 0      | 5,655                      | 0                            | 900    | 1,279   | 0       | 67,719    | 2,162   | 4,216     | 50                 |
| 39 Indiana University       | 81,374     | 264     | 530    | 2,655                      | 0                            | 301    | 3,436   | 282     | 53,548    | 812     | 18,723    | 823                |
| 40 University of Virginia   | 79,221     | 3       | 206    | 4,482                      | 1,172                        | 0      | 3,140   | 320     | 48,389    | 7,946   | 12,190    | 1,373              |
| Total 1st 40 institutions   | 6,029,010  | 108,674 | 18,651 | 532,031                    | 362,611                      | 34,724 | 318,004 | 46,222  | 3,455,655 | 333,935 | 775,330   | 43,173             |

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

**Table 3. Federal obligations for science and engineering research and development to the 100 universities and colleges receiving the largest amounts, ranked by total amount received, by agency: fiscal year 1993**

[Dollars in thousands]

| Institution and ranking      | Total     | USDA    | Com    | DoD re-<br>search <sup>1</sup> | DoD devel-<br>op-<br>ment <sup>1</sup> | Ed     | DOE     | EPA    | HHS       | NASA    | NSF       | Other <sup>2</sup> |
|------------------------------|-----------|---------|--------|--------------------------------|--|--------|---------|--------|-----------|---------|-----------|--------------------|
| 41 New York University       | 77,694    | 70      | 0      | 4,778                          | 0                                      | 150    | 3,799   | 1,018  | 62,606    | 359     | 4,914     | 0                  |
| 42 University of Utah        | 77,407    | 300     | 195    | 8,220                          | 100                                    | 0      | 4,347   | 2,000  | 48,894    | 631     | 10,858    | 1,862              |
| 43 University of Florida     | 77,341    | 9,798   | 618    | 9,677                          | 557                                    | 1,344  | 3,123   | 930    | 38,179    | 2,784   | 8,912     | 1,419              |
| 44 U MD College Park         | 76,300    | 5,413   | 3,583  | 10,335                         | 1,040                                  | 165    | 7,355   | 1,995  | 7,009     | 16,861  | 22,245    | 299                |
| 45 Purdue University         | 74,920    | 11,321  | 161    | 7,148                          | 217                                    | 10     | 10,882  | 262    | 21,472    | 2,632   | 19,265    | 1,550              |
| 46 Carnegie Mellon U         | 73,474    | 0       | 25     | 28,685                         | 2,009                                  | 0      | 6,488   | 422    | 9,459     | 3,813   | 20,697    | 1,876              |
| 47 Rutgers the St U of NJ    | 70,059    | 4,704   | 861    | 14,063                         | 433                                    | 1,503  | 3,611   | 679    | 22,452    | 1,692   | 13,350    | 6,711              |
| 48 Michigan State University | 67,666    | 14,452  | 0      | 1,439                          | 104                                    | 1,488  | 5,227   | 587    | 20,845    | 218     | 23,099    | 207                |
| 49 University of Miami       | 67,315    | 0       | 270    | 5,758                          | 0                                      | 619    | 388     | 223    | 49,120    | 2,585   | 8,349     | 3                  |
| 50 Texas A&M University      | 65,174    | 13,732  | 1,063  | 6,629                          | 100                                    | 0      | 4,143   | 1,614  | 14,042    | 3,753   | 18,684    | 1,414              |
| Total 1st 50 institutions    | 6,756,360 | 168,464 | 25,427 | 628,763                        | 367,171                                | 40,003 | 367,367 | 55,952 | 3,749,733 | 369,263 | 925,703   | 58,514             |
| 51 Yeshiva University NY     | 64,627    | 0       | 0      | 317                            | 0                                      | 0      | 0       | 0      | 63,752    | 0       | 558       | 0                  |
| 52 Emory Un.versity          | 64,526    | 79      | 0      | 1,031                          | 0                                      | 345    | 317     | 0      | 61,249    | 63      | 1,442     | 0                  |
| 53 U CA Irvine               | 61,567    | 0       | 0      | 6,029                          | 0                                      | 0      | 4,700   | 185    | 37,396    | 1,862   | 11,395    | 0                  |
| 54 Woods Hole Oceanographic  | 61,399    | 0       | 1,117  | 23,757                         | 3,477                                  | 0      | 1,528   | 0      | 120       | 817     | 29,999    | 584                |
| 55 U TX SW Med Ctr Dallas    | 61,269    | 237     | 0      | 52                             | 0                                      | 0      | 0       | 0      | 58,319    | 2,194   | 467       | 0                  |
| 56 Princeton University      | 59,871    | 0       | 296    | 14,280                         | 40                                     | 0      | 6,866   | 155    | 14,626    | 4,305   | 19,208    | 95                 |
| 57 SUNY at Stony Brook       | 58,590    | 14      | 0      | 3,437                          | 0                                      | 0      | 5,362   | 145    | 32,222    | 2,205   | 15,185    | 20                 |
| 58 Louisiana State U         | 58,197    | 5,622   | 637    | 14,801                         | 0                                      | 0      | 2,703   | 3,620  | 23,198    | 1,250   | 5,060     | 1,306              |
| 59 Georgetown University     | 56,523    | 54      | 28     | 8,802                          | 0                                      | 556    | 0       | 50     | 32,634    | 0       | 933       | 13,466             |
| 60 University of New Mexico  | 55,827    | 0       | 0      | 28,190                         | 2,935                                  | 37     | 1,639   | 140    | 13,348    | 2,962   | 6,505     | 71                 |
| Total 1st 60 institutions    | 7,358,756 | 174,470 | 27,505 | 729,459                        | 373,623                                | 40,941 | 390,482 | 60,247 | 4,086,597 | 384,921 | 1,016,455 | 74,056             |
| 61 U IL Chicago              | 55,202    | 248     | 1,653  | 2,686                          | 1,151                                  | 525    | 1,235   | 157    | 41,435    | 310     | 5,802     | 0                  |
| 62 Oregon State University   | 53,999    | 13,274  | 912    | 6,686                          | 28                                     | 0      | 1,311   | 2,856  | 7,066     | 3,085   | 15,267    | 3,514              |
| 63 University of Cincinnati  | 51,936    | 0       | 0      | 3,523                          | 210                                    | 0      | 637     | 3,684  | 38,841    | 2,171   | 2,870     | 0                  |
| 64 University of Georgia     | 51,903    | 11,603  | 443    | 1,450                          | 0                                      | 1,622  | 13,863  | 1,344  | 10,984    | 142     | 10,452    | 0                  |
| 65 U CA Santa Barbara        | 51,459    | 298     | 621    | 12,447                         | 0                                      | 212    | 3,380   | 681    | 6,260     | 3,947   | 22,779    | 834                |
| 66 Georgia Institute of Tech | 50,805    | 0       | 140    | 19,559                         | 15,934                                 | 0      | 1,107   | 3,480  | 2,528     | 6,822   | 0         | 1,235              |
| 67 NC State U Raleigh        | 50,661    | 10,692  | 1,292  | 6,665                          | 158                                    | 655    | 2,497   | 3,343  | 6,074     | 3,203   | 14,826    | 1,256              |
| 68 U MD Baltimore            | 49,992    | 0       | 75     | 1,177                          | 888                                    | 0      | 0       | 590    | 46,641    | 0       | 621       | 0                  |
| 69 New Mexico State U        | 47,265    | 3,552   | 59     | 4,755                          | 6,576                                  | 0      | 4,973   | 62     | 2,135     | 21,210  | 3,208     | 735                |
| 70 University of Kentucky    | 46,594    | 6,822   | 56     | 597                            | 0                                      | 0      | 4,831   | 669    | 25,985    | 266     | 7,028     | 340                |
| Total 1st 70 institutions    | 7,868,572 | 220,959 | 32,756 | 789,004                        | 398,568                                | 43,955 | 424,316 | 77,113 | 4,274,546 | 426,077 | 1,099,308 | 81,970             |
| 71 Colorado State University | 46,360    | 7,823   | 0      | 3,968                          | 66                                     | 119    | 2,635   | 628    | 16,895    | 2,352   | 9,024     | 2,850              |
| 72 Tufts University          | 45,015    | 11,910  | 0      | 1,195                          | 45                                     | 187    | 1,159   | 3,400  | 25,074    | 231     | 1,814     | 0                  |
| 73 U TX Hlth Sci Ctr S Anto  | 44,987    | 0       | 0      | 449                            | 0                                      | 0      | 0       | 0      | 43,723    | 209     | 606       | 0                  |
| 74 U Hawaii Manoa            | 44,660    | 5,404   | 0      | 3,438                          | 0                                      | 1,147  | 258     | 35     | 12,848    | 7,859   | 13,275    | 396                |
| 75 CUNY Mt Sinai Schl of Med | 43,638    | 0       | 0      | 0                              | 0                                      | 0      | 95      | 0      | 42,977    | 384     | 182       | 0                  |
| 76 University of Connecticut | 42,992    | 2,474   | 1,423  | 1,830                          | 87                                     | 1,920  | 665     | 1,764  | 27,582    | 217     | 4,929     | 101                |
| 77 U TX MD Anderson Cancer   | 42,602    | 212     | 0      | 151                            | 0                                      | 0      | 0       | 64     | 41,895    | 100     | 180       | 0                  |
| 78 U Med & Dent of NJ        | 41,788    | 0       | 0      | 81                             | 0                                      | 199    | 65      | 340    | 39,416    | 362     | 1,325     | 0                  |
| 79 Iowa State University     | 41,468    | 14,550  | 440    | 1,705                          | 0                                      | 400    | 5,350   | 1,063  | 5,150     | 958     | 6,619     | 5,233              |
| 80 Dartmouth College         | 41,349    | 321     | 317    | 3,065                          | 0                                      | 0      | 742     | 223    | 30,363    | 872     | 5,436     | 10                 |
| Total 1st 80 institutions    | 8,303,431 | 263,653 | 34,936 | 804,886                        | 398,766                                | 47,927 | 435,285 | 84,630 | 4,560,469 | 439,621 | 1,142,698 | 90,560             |

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



**Table 3. Federal obligations for science and engineering research and development to the 100 universities and colleges receiving the largest amounts, ranked by total amount received, by agency: fiscal year 1993**

[Dollars in thousands]

Page 3 of 3

| Institution and ranking           | Total     | USDA    | Com    | DoD re-<br>search <sup>1</sup> | DoD devel-<br>opment <sup>1</sup> | Ed     | DOE     | EPA    | HHS       | NASA    | NSF       | Other <sup>2</sup> |
|-----------------------------------|-----------|---------|--------|--------------------------------|-----------------------------------|--------|---------|--------|-----------|---------|-----------|--------------------|
| 81 Virginia Commonwealth U .....  | 40,568    | 124     | 0      | 711                            | 160                               | 372    | 234     | 42     | 37,535    | 531     | 809       | 50                 |
| 82 Wayne State University .....   | 40,172    | 0       | 64     | 1,959                          | 0                                 | 498    | 525     | 0      | 33,701    | 499     | 2,926     | 0                  |
| 83 Utah State University .....    | 38,841    | 2,936   | 85     | 6,147                          | 18,476                            | 756    | 21      | 53     | 4,526     | 1,577   | 2,181     | 2,083              |
| 84 Thomas Jefferson U .....       | 38,180    | 0       | 0      | 306                            | 0                                 | 362    | 261     | 261    | 36,663    | 0       | 327       | 0                  |
| 85 Oregon Hlth Sciences U .....   | 37,898    | 150     | 0      | 77                             | 0                                 | 0      | 0       | 119    | 36,945    | 0       | 607       | 0                  |
| 86 Wake Forest University .....   | 37,768    | 0       | 221    | 65                             | 0                                 | 0      | 0       | 0      | 37,017    | 60      | 405       | 0                  |
| 87 U TX Hlth Sci Ctr Houstn ..... | 37,465    | 212     | 0      | 446                            | 0                                 | 0      | 376     | 479    | 34,686    | 535     | 731       | 0                  |
| 88 University of Dayton .....     | 37,065    | 0       | 0      | 26,072                         | 9,979                             | 0      | 0       | 370    | 87        | 338     | 219       | 0                  |
| 89 VA Polytech Inst & St U .....  | 36,841    | 6,784   | 168    | 7,475                          | 0                                 | 0      | 3,031   | 949    | 2,729     | 4,043   | 9,019     | 2,643              |
| 90 West Virginia U Morgantwn ...  | 35,439    | 4,398   | 0      | 10,807                         | 31                                | 0      | 5,573   | 2,500  | 6,993     | 648     | 2,569     | 1,920              |
| Total 1st 90 institutions .....   | 8,683,668 | 278,257 | 35,474 | 858,951                        | 427,412                           | 49,915 | 445,306 | 89,403 | 4,791,351 | 447,852 | 1,162,491 | 97,256             |
| 91 U MA Amherst .....             | 35,227    | 4,742   | 0      | 8,227                          | 1,403                             | 0      | 1,028   | 103    | 5,635     | 1,416   | 12,542    | 131                |
| 92 Rockefeller University .....   | 35,184    | 0       | 0      | 364                            | 56                                | 0      | 1,101   | 120    | 32,720    | 41      | 782       | 0                  |
| 93 U MA Worcester .....           | 34,574    | 248     | 0      | 315                            | 202                               | 0      | 0       | 0      | 32,846    | 0       | 963       | 0                  |
| 94 Brown University .....         | 34,483    | 150     | 41     | 8,058                          | 0                                 | 0      | 2,216   | 0      | 12,607    | 1,858   | 9,378     | 175                |
| 95 University of Vermont .....    | 33,915    | 4,478   | 0      | 296                            | 0                                 | 263    | 539     | 411    | 26,327    | 20      | 1,266     | 315                |
| 96 University of Kansas .....     | 33,522    | 134     | 0      | 1,614                          | 0                                 | 1,628  | 832     | 206    | 22,710    | 921     | 5,344     | 133                |
| 97 U Alaska Fairbanks .....       | 31,738    | 1,421   | 1,129  | 707                            | 0                                 | 0      | 472     | 395    | 523       | 12,901  | 12,422    | 1,768              |
| 98 SUNY at Buffalo .....          | 31,355    | 351     | 0      | 557                            | 0                                 | 0      | 730     | 545    | 23,697    | 384     | 5,091     | 0                  |
| 99 Washington State U .....       | 29,541    | 8,566   | 180    | 2,799                          | 157                               | 157    | 2,636   | 448    | 7,857     | 279     | 5,424     | 1,038              |
| 100 U Tennessee Knoxville .....   | 28,833    | 6,058   | 0      | 2,907                          | 0                                 | 0      | 9,927   | 406    | 4,092     | 592     | 4,750     | 101                |
| Total 1st 100 institutions .....  | 9,012,040 | 304,405 | 36,824 | 884,795                        | 429,230                           | 51,963 | 464,787 | 92,037 | 4,960,365 | 466,264 | 1,220,453 | 100,917            |

<sup>1</sup> In this table 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 university-affiliated laboratories that are separate from the academic departments.

<sup>2</sup> Includes Department of Transportation, Agency for International Development, Department of Housing and Urban Development, Department of Labor, Nuclear Regulatory Commission, and Department of the Interior

**NOTE:** Does not include R&D obligations to university-administered federally funded research and development centers

**KEY:** Com = Department of Commerce  
 DoD = Department of Defense  
 DOE = Department of Energy  
 Ed = Department of Education  
 EPA = Environmental Protection Agency  
 HHS = Department of Health and Human Services  
 NASA = National Aeronautics and Space Administration  
 NSF = National Science Foundation  
 USDA = U.S. Department of Agriculture

**SOURCE:** National Science Foundation/SRS. Survey of Federal Support to Universities, Colleges, and Nonprofit Institutions, Fiscal Year 1993

**Table 4. Federal obligations for science and engineering research and development to universities and colleges, by State, institution, and agency: fiscal year 1993**

[Dollars in thousands]

| State and institution           | Total      | USDA    | Com    | DoD re-search 1 | DoD devel-op-ment 1 | Ed     | DOE     | EPA     | HHS       | NASA    | NSF       | Other 2 |
|---------------------------------|------------|---------|--------|-----------------|---------------------|--------|---------|---------|-----------|---------|-----------|---------|
| United States. total .....      | 10,940,124 | 462,464 | 58,434 | 1,129,998       | 456,866             | 94,811 | 582,110 | 142,606 | 5,610,296 | 631,139 | 1,605,937 | 165,463 |
| Alabama. total .....            | 160,742    | 11,457  | 348    | 13,425          | 2,431               | 1,873  | 2,808   | 1,442   | 88,388    | 23,401  | 12,612    | 2,557   |
| Alabama A & M University .....  | 6,444      | 2,344   | 0      | 1,392           | 351                 | 165    | 0       | 0       | 0         | 790     | 1,109     | 293     |
| Alabama State University .....  | 12         | 0       | 0      | 0               | 0                   | 0      | 0       | 0       | 0         | 0       | 12        | 0       |
| Auburn University .....         | 18,483     | 6,242   | 45     | 2,662           | 100                 | 0      | 730     | 307     | 1,491     | 3,660   | 1,823     | 1,423   |
| Faulkner University .....       | 137        | 0       | 0      | 0               | 0                   | 137    | 0       | 0       | 0         | 0       | 0         | 0       |
| Gadsden State Cmty Col .....    | 297        | 0       | 0      | 0               | 0                   | 0      | 0       | 0       | 0         | 0       | 0         | 297     |
| Jacksonville State U .....      | 434        | 0       | 0      | 0               | 0                   | 0      | 0       | 0       | 0         | 0       | 434       | 0       |
| Selma University .....          | 127        | 0       | 0      | 0               | 0                   | 0      | 127     | 0       | 0         | 0       | 0         | 0       |
| Stillman College .....          | 25         | 0       | 0      | 0               | 0                   | 25     | 0       | 0       | 0         | 0       | 0         | 0       |
| Talladega College .....         | 239        | 0       | 0      | 0               | 0                   | 36     | 0       | 0       | 0         | 0       | 203       | 0       |
| Trenholm St Tech Col .....      | 24         | 0       | 0      | 0               | 0                   | 24     | 0       | 0       | 0         | 0       | 0         | 0       |
| Troy St U Main .....            | 33         | 0       | 0      | 8               | 0                   | 0      | 0       | 0       | 0         | 0       | 25        | 0       |
| Tuskegee University .....       | 6,993      | 2,216   | 0      | 2,328           | 50                  | 0      | 38      | 0       | 270       | 1,562   | 529       | 0       |
| U Alabama Birmingham .....      | 90,737     | 655     | 99     | 2,094           | 143                 | 720    | 309     | 622     | 76,299    | 4,535   | 5,261     | 0       |
| U Alabama Huntsville .....      | 19,879     | 0       | 102    | 3,473           | 1,690               | 0      | 190     | 453     | 193       | 12,514  | 1,264     | 0       |
| U Alabama Sys Off .....         | 1,161      | 0       | 0      | 1,074           | 0                   | 0      | 0       | 0       | 87        | 0       | 0         | 0       |
| U South Alabama .....           | 8,339      | 0       | 102    | 98              | 0                   | 75     | 44      | 0       | 7,447     | 59      | 514       | 0       |
| University of Alabama .....     | 7,378      | 0       | 0      | 296             | 97                  | 691    | 1,370   | 60      | 2,601     | 281     | 1,438     | 544     |
| Alaska. total .....             | 34,217     | 1,569   | 1,448  | 815             | 0                   | 200    | 552     | 514     | 1,914     | 12,901  | 12,486    | 1,818   |
| Alaska Pacific University ..... | 152        | 0       | 0      | 108             | 0                   | 0      | 0       | 0       | 0         | 0       | 44        | 0       |
| U Alaska Anchorage .....        | 1,899      | 0       | 319    | 0               | 0                   | 0      | 0       | 119     | 1,391     | 0       | 20        | 50      |
| U Alaska Fairbanks .....        | 31,738     | 1,421   | 1,129  | 707             | 0                   | 0      | 472     | 395     | 523       | 12,901  | 12,422    | 1,768   |
| U Alaska System Higher Ed ..... | 428        | 148     | 0      | 0               | 0                   | 200    | 80      | 0       | 0         | 0       | 0         | 0       |
| Arizona. total .....            | 144,422    | 4,749   | 205    | 12,121          | 1,496               | 1,258  | 4,605   | 2,090   | 55,330    | 23,559  | 35,669    | 3,340   |
| Arizona State U Main .....      | 27,310     | 166     | 25     | 4,550           | 64                  | 220    | 1,326   | 458     | 5,942     | 2,355   | 12,131    | 73      |
| Arizona Western College .....   | 3          | 0       | 0      | 0               | 0                   | 0      | 0       | 0       | 0         | 0       | 0         | 3       |
| Maricopa CC Sys Off .....       | 1,691      | 58      | 0      | 133             | 0                   | 0      | 0       | 0       | 0         | 0       | 1,500     | 0       |
| Mesa Community College .....    | 132        | 0       | 0      | 0               | 0                   | 0      | 0       | 0       | 0         | 0       | 132       | 0       |
| Navajo Community College .....  | 653        | 0       | 0      | 0               | 0                   | 163    | 0       | 0       | 0         | 77      | 415       | 0       |
| Northern Arizona U .....        | 6,528      | 182     | 0      | 0               | 0                   | 0      | 0       | 428     | 1,247     | 294     | 3,304     | 1,073   |
| Prescott College .....          | 37         | 0       | 0      | 0               | 0                   | 0      | 0       | 0       | 0         | 0       | 0         | 37      |
| U & St Col AZ Sys Off .....     | 247        | 247     | 0      | 0               | 0                   | 0      | 0       | 0       | 0         | 0       | 0         | 0       |
| University of Arizona .....     | 107,819    | 4,096   | 180    | 7,438           | 1,432               | 875    | 3,279   | 1,204   | 48,141    | 20,833  | 18,187    | 2,154   |
| Arkansas. total .....           | 32,467     | 9,599   | 0      | 1,348           | 2,600               | 1,614  | 264     | 158     | 11,927    | 262     | 3,749     | 946     |
| Arkansas State University ..... | 76         | 0       | 0      | 0               | 0                   | 0      | 0       | 0       | 1         | 75      | 0         | 0       |
| Arkansas Tech University .....  | 11         | 11      | 0      | 0               | 0                   | 0      | 0       | 0       | 0         | 0       | 0         | 0       |
| Harding U All Campuses .....    | 24         | 0       | 0      | 0               | 0                   | 0      | 0       | 0       | 0         | 24      | 0         | 0       |
| Henderson State U .....         | 2          | 0       | 0      | 0               | 0                   | 0      | 0       | 0       | 0         | 0       | 2         | 0       |
| Lyon College .....              | 260        | 0       | 0      | 0               | 0                   | 156    | 0       | 0       | 0         | 0       | 104       | 0       |
| U Arkansas Little Rock .....    | 2,916      | 0       | 0      | 672             | 0                   | 0      | 45      | 0       | 1,233     | 79      | 887       | 0       |
| U Arkansas Main .....           | 16,101     | 7,565   | 0      | 676             | 2,600               | 1,458  | 200     | 63      | 580       | 84      | 2,393     | 482     |
| U Arkansas Monticello .....     | 90         | 0       | 0      | 0               | 0                   | 0      | 0       | 0       | 0         | 0       | 90        | 0       |
| U Arkansas Pine Bluff .....     | 1,628      | 1,481   | 0      | 0               | 0                   | 0      | 19      | 0       | 0         | 0       | 39        | 89      |
| U Arkansas Sys Off .....        | 444        | 294     | 0      | 0               | 0                   | 0      | 0       | 0       | 150       | 0       | 0         | 0       |

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[Dollars in thousands]

| State and institution           | Total     | USDA   | Com   | DoD re-search <sup>1</sup> | DoD devel-op-ment <sup>1</sup> | Ed     | DOE    | EPA    | HHS     | NASA    | NSF     | Other <sup>2</sup> |
|---------------------------------|-----------|--------|-------|----------------------------|--------------------------------|--------|--------|--------|---------|---------|---------|--------------------|
| Arkansas, continued:            |           |        |       |                            |                                |        |        |        |         |         |         |                    |
| U Arkansas for Med Sci .....    | 10,450    | 158    | 0     | 0                          | 0                              | 0      | 0      | 95     | 9,963   | 0       | 234     | 0                  |
| U Central Arkansas .....        | 465       | 90     | 0     | 0                          | 0                              | 0      | 0      | 0      | 0       | 0       | 0       | 375                |
| California, total .....         | 1,466,549 | 22,258 | 7,631 | 149,084                    | 11,346                         | 10,542 | 85,001 | 10,025 | 793,273 | 137,242 | 230,516 | 9,631              |
| CA St Col Bakersfield .....     | 13        | 0      | 0     | 0                          | 0                              | 0      | 0      | 0      | 0       | 0       | 13      | 0                  |
| CA St Poly U Pomona .....       | 788       | 10     | 0     | 0                          | 0                              | 0      | 0      | 0      | 0       | 0       | 778     | 0                  |
| CA St U Chico .....             | 34        | 0      | 0     | 0                          | 0                              | 0      | 0      | 0      | 0       | 34      | 0       | 0                  |
| CA St U Dominguez Hills .....   | 193       | 0      | 0     | 0                          | 0                              | 0      | 0      | 0      | 0       | 0       | 193     | 0                  |
| CA St U Fresno .....            | 563       | 0      | 0     | 0                          | 0                              | 200    | 0      | 0      | 93      | 89      | 181     | 0                  |
| CA St U Fullerton .....         | 1,212     | 0      | 0     | 0                          | 0                              | 0      | 301    | 0      | 338     | 52      | 521     | 0                  |
| CA St U Hayward .....           | 916       | 0      | 0     | 27                         | 0                              | 0      | 200    | 60     | 328     | 50      | 241     | 10                 |
| CA St U Long Beach .....        | 1,965     | 0      | 0     | 0                          | 0                              | 189    | 0      | 0      | 1,405   | 95      | 276     | 0                  |
| CA St U Los Angeles .....       | 2,075     | 0      | 0     | 84                         | 0                              | 0      | 0      | 0      | 106     | 121     | 1,764   | 0                  |
| CA St U Northridge .....        | 1,662     | 0      | 0     | 105                        | 0                              | 0      | 78     | 0      | 210     | 178     | 1,091   | 0                  |
| CA St U Sacramento .....        | 64        | 0      | 0     | 0                          | 0                              | 24     | 0      | 0      | 0       | 0       | 40      | 0                  |
| CA St U San Bernardino .....    | 739       | 0      | 0     | 0                          | 0                              | 0      | 0      | 0      | 99      | 0       | 640     | 0                  |
| CA State Poly U San Luis .....  | 854       | 28     | 0     | 333                        | 0                              | 0      | 0      | 0      | 0       | 298     | 195     | 0                  |
| CA State U System Office .....  | 95        | 7      | 0     | 0                          | 0                              | 88     | 0      | 0      | 0       | 0       | 0       | 0                  |
| California Inst of Tech .....   | 87,702    | 0      | 119   | 20,753                     | 0                              | 0      | 9,571  | 262    | 15,893  | 13,224  | 26,607  | 1,273              |
| California Lutheran U .....     | 200       | 0      | 0     | 0                          | 0                              | 200    | 0      | 0      | 0       | 0       | 0       | 0                  |
| Cerritos College .....          | 147       | 0      | 0     | 0                          | 0                              | 147    | 0      | 0      | 0       | 0       | 0       | 0                  |
| Charles Drew U Med & Sci .....  | 4,298     | 0      | 0     | 0                          | 0                              | 200    | 0      | 0      | 4,098   | 0       | 0       | 0                  |
| Claremont McKenna College ..... | 68        | 0      | 0     | 3                          | 0                              | 0      | 0      | 0      | 0       | 65      | 0       | 0                  |
| Col Osteo Med of Pacific .....  | 67        | 0      | 0     | 0                          | 0                              | 0      | 0      | 0      | 67      | 0       | 0       | 0                  |
| Cypress College .....           | 124       | 0      | 0     | 0                          | 0                              | 0      | 0      | 0      | 0       | 0       | 124     | 0                  |
| D-Q University .....            | 80        | 0      | 0     | 0                          | 0                              | 0      | 80     | 0      | 0       | 0       | 0       | 0                  |
| Deep Springs College .....      | 19        | 0      | 0     | 0                          | 0                              | 0      | 0      | 0      | 0       | 0       | 19      | 0                  |
| Diablo Valley College .....     | 23        | 0      | 0     | 0                          | 0                              | 0      | 0      | 0      | 0       | 0       | 23      | 0                  |
| Foothill Deanza CC SO .....     | 332       | 0      | 0     | 0                          | 0                              | 104    | 0      | 0      | 0       | 228     | 0       | 0                  |
| Glendale Cmty Col CA .....      | 18        | 0      | 0     | 0                          | 0                              | 0      | 0      | 0      | 0       | 0       | 18      | 0                  |
| Harvey Mudd College .....       | 554       | 0      | 0     | 0                          | 0                              | 247    | 0      | 0      | 0       | 33      | 274     | 0                  |
| Humboldt State University ..... | 1,307     | 271    | 0     | 0                          | 0                              | 200    | 0      | 0      | 94      | 0       | 546     | 196                |
| Imperial Valley College .....   | 128       | 0      | 0     | 0                          | 0                              | 0      | 0      | 0      | 0       | 0       | 0       | 128                |
| L A Cmty Col District Off ..... | 73        | 0      | 0     | 0                          | 0                              | 73     | 0      | 0      | 0       | 0       | 0       | 0                  |
| Loma Linda University .....     | 2,594     | 0      | 0     | 0                          | 0                              | 0      | 0      | 380    | 2,194   | 0       | 0       | 20                 |
| Loyola Marymount U .....        | 155       | 0      | 0     | 0                          | 0                              | 0      | 0      | 0      | 116     | 39      | 0       | 0                  |
| Mills College .....             | 582       | 0      | 0     | 0                          | 0                              | 0      | 0      | 0      | 0       | 0       | 582     | 0                  |
| Mission College .....           | 35        | 0      | 0     | 0                          | 0                              | 0      | 0      | 0      | 0       | 0       | 35      | 0                  |
| Monterey Peninsula Col .....    | 247       | 0      | 0     | 0                          | 0                              | 247    | 0      | 0      | 0       | 0       | 0       | 0                  |
| Natl Hispanic University .....  | 256       | 0      | 0     | 196                        | 0                              | 0      | 60     | 0      | 0       | 0       | 0       | 0                  |
| New College of California ..... | 87        | 0      | 0     | 0                          | 0                              | 0      | 0      | 0      | 0       | 0       | 87      | 0                  |
| Occidental College .....        | 482       | 0      | 0     | 152                        | 0                              | 0      | 0      | 0      | 90      | 0       | 240     | 0                  |
| Pepperdine University .....     | 66        | 0      | 0     | 0                          | 0                              | 0      | 0      | 0      | 0       | 0       | 66      | 0                  |
| Pomona College .....            | 458       | 0      | 0     | 0                          | 0                              | 0      | 0      | 0      | 198     | 0       | 260     | 0                  |

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[Dollars in thousands]

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| State and institution           | Total          | USDA         | Com          | DoD re-search <sup>1</sup> | DoD development <sup>1</sup> | Ed           | DOE           | EPA          | HHS            | NASA          | NSF           | Other <sup>2</sup> |
|---------------------------------|----------------|--------------|--------------|----------------------------|------------------------------|--------------|---------------|--------------|----------------|---------------|---------------|--------------------|
| California, continued:          |                |              |              |                            |                              |              |               |              |                |               |               |                    |
| San Diego State U .....         | 13,192         | 55           | 43           | 1,402                      | 0                            | 247          | 1,099         | 0            | 6,955          | 338           | 2,830         | 213                |
| San Francisco State U .....     | 5,491          | 0            | 7            | 187                        | 0                            | 244          | 39            | 0            | 1,021          | 207           | 3,746         | 40                 |
| San Jose State University ..... | 9,172          | 0            | 612          | 367                        | 0                            | 0            | 60            | 0            | 104            | 4,700         | 3,319         | 10                 |
| Santa Clara University .....    | 387            | 0            | 0            | 0                          | 0                            | 0            | 0             | 0            | 0              | 125           | 262           | 0                  |
| Sonoma State University .....   | 140            | 0            | 0            | 0                          | 0                            | 0            | 0             | 0            | 0              | 95            | 45            | 0                  |
| St Marys Col CA .....           | 20             | 0            | 0            | 0                          | 0                            | 0            | 0             | 0            | 0              | 0             | 20            | 0                  |
| Stanford University .....       | 249,575        | 90           | 50           | 35,467                     | 732                          | 0            | 7,340         | 5,003        | 119,882        | 54,441        | 24,661        | 1,909              |
| Taft College .....              | 22             | 0            | 0            | 0                          | 0                            | 0            | 0             | 0            | 0              | 0             | 22            | 0                  |
| U CA Berkeley .....             | 133,232        | 11,324       | 68           | 5,625                      | 177                          | 1,229        | 3,068         | 313          | 53,076         | 22,348        | 34,683        | 1,321              |
| U CA Davis .....                | 84,495         | 6,547        | 0            | 1,408                      | 0                            | 325          | 14,877        | 1,369        | 44,557         | 1,644         | 12,763        | 475                |
| U CA Irvine .....               | 61,567         | 0            | 0            | 6,029                      | 0                            | 0            | 4,700         | 185          | 37,396         | 1,862         | 11,395        | 0                  |
| U CA Los Angeles .....          | 195,788        | 363          | 0            | 11,852                     | 1,403                        | 2,931        | 21,633        | 360          | 129,321        | 8,974         | 18,438        | 481                |
| U CA Office of Pres .....       | 7,823          | 0            | 5,755        | 0                          | 0                            | 0            | 0             | 0            | 1,968          | 0             | 0             | 100                |
| U CA Riverside .....            | 19,108         | 2,079        | 0            | 447                        | 177                          | 322          | 1,680         | 662          | 7,229          | 1,817         | 4,695         | 0                  |
| U CA San Diego .....            | 204,063        | 1,150        | 75           | 23,438                     | 664                          | 0            | 10,330        | 0            | 115,063        | 16,244        | 35,926        | 1,173              |
| U CA San Francisco .....        | 175,388        | 0            | 0            | 871                        | 1,837                        | 135          | 3,181         | 50           | 165,993        | 1,039         | 2,282         | 0                  |
| U CA Santa Barbara .....        | 51,459         | 298          | 621          | 12,447                     | 0                            | 212          | 3,380         | 681          | 6,260          | 3,947         | 22,779        | 834                |
| U CA Santa Cruz .....           | 17,407         | 36           | 0            | 2,856                      | 0                            | 1,488        | 1,595         | 0            | 4,698          | 1,297         | 5,387         | 50                 |
| U San Francisco .....           | 727            | 0            | 0            | 0                          | 0                            | 0            | 0             | 0            | 394            | 289           | 44            | 0                  |
| U Southern California .....     | 125,297        | 0            | 281          | 25,035                     | 6,356                        | 1,490        | 1,767         | 100          | 73,294         | 3,369         | 12,207        | 1,398              |
| University of San Diego .....   | 421            | 0            | 0            | 0                          | 0                            | 0            | 0             | 0            | 252            | 0             | 159           | 0                  |
| University of the Pacific ..... | 461            | 0            | 0            | 0                          | 0                            | 0            | 0             | 0            | 461            | 0             | 0             | 0                  |
| West Valley College .....       | 12             | 0            | 0            | 0                          | 0                            | 0            | 0             | 0            | 0              | 0             | 12            | 0                  |
| Westmont College .....          | 27             | 0            | 0            | 0                          | 0                            | 0            | 0             | 0            | 0              | 0             | 27            | 0                  |
| <b>Colorado, total .....</b>    | <b>208,487</b> | <b>8,320</b> | <b>9,199</b> | <b>13,897</b>              | <b>795</b>                   | <b>1,044</b> | <b>8,381</b>  | <b>2,940</b> | <b>103,002</b> | <b>20,327</b> | <b>37,045</b> | <b>3,537</b>       |
| Colorado College .....          | 41             | 0            | 0            | 0                          | 0                            | 0            | 0             | 0            | 0              | 0             | 41            | 0                  |
| Colorado School of Mines .....  | 4,983          | 0            | 0            | 869                        | 303                          | 0            | 1,269         | 793          | 0              | 515           | 1,020         | 214                |
| Colorado State University ..... | 46,360         | 7,823        | 0            | 3,968                      | 66                           | 119          | 2,635         | 628          | 16,895         | 2,352         | 9,024         | 2,850              |
| Fort Lewis College .....        | 249            | 0            | 0            | 0                          | 0                            | 0            | 0             | 0            | 0              | 0             | 226           | 23                 |
| Front Range Cmty Col .....      | 32             | 32           | 0            | 0                          | 0                            | 0            | 0             | 0            | 0              | 0             | 0             | 0                  |
| Otero Junior College .....      | 2,726          | 0            | 0            | 0                          | 0                            | 0            | 0             | 0            | 2,726          | 0             | 0             | 0                  |
| Regis University CO .....       | 92             | 0            | 0            | 0                          | 0                            | 0            | 0             | 0            | 92             | 0             | 0             | 0                  |
| Trinidad State Junior Col ..... | 238            | 0            | 0            | 0                          | 0                            | 238          | 0             | 0            | 0              | 0             | 0             | 0                  |
| U Northern Colorado .....       | 738            | 0            | 0            | 0                          | 0                            | 355          | 0             | 0            | 0              | 35            | 328           | 20                 |
| U Southern Colorado .....       | 556            | 0            | 0            | 0                          | 0                            | 0            | 0             | 0            | 0              | 556           | 0             | 0                  |
| University of Colorado .....    | 145,497        | 295          | 9,199        | 7,343                      | 426                          | 255          | 4,340         | 1,224        | 81,213         | 15,823        | 24,949        | 430                |
| University of Denver .....      | 6,975          | 170          | 0            | 1,717                      | 0                            | 77           | 137           | 295          | 2,076          | 1,046         | 1,457         | 0                  |
| <b>Connecticut, total .....</b> | <b>216,542</b> | <b>3,158</b> | <b>1,461</b> | <b>9,703</b>               | <b>142</b>                   | <b>1,920</b> | <b>10,998</b> | <b>1,764</b> | <b>167,907</b> | <b>1,529</b>  | <b>17,855</b> | <b>105</b>         |
| Central Connecticut St U .....  | 92             | 0            | 0            | 0                          | 0                            | 0            | 0             | 0            | 0              | 0             | 88            | 4                  |
| Connecticut College .....       | 434            | 0            | 0            | 0                          | 0                            | 0            | 0             | 0            | 106            | 0             | 328           | 0                  |
| Fairfield University .....      | 29             | 0            | 0            | 0                          | 0                            | 0            | 0             | 0            | 0              | 0             | 29            | 0                  |
| Quinnipiac College .....        | 249            | 0            | 0            | 0                          | 0                            | 0            | 0             | 0            | 249            | 0             | 0             | 0                  |
| Sacred Heart University .....   | 365            | 0            | 0            | 0                          | 0                            | 0            | 0             | 0            | 0              | 0             | 365           | 0                  |

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[Dollars in thousands]

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|-----------------------------------|---------|--------|-------|----------------------------|------------------------------|-------|--------|-------|---------|--------|--------|--------------------|
| Connecticut, continued:           |         |        |       |                            |                              |       |        |       |         |        |        |                    |
| Southern Connecticut St U .....   | 145     | 0      | 0     | 0                          | 0                            | 0     | 0      | 0     | 49      | 0      | 96     | 0                  |
| Trinity College CT .....          | 136     | 0      | 0     | 0                          | 0                            | 0     | 0      | 0     | 0       | 0      | 136    | 0                  |
| University of Bridgeport .....    | 55      | 0      | 0     | 0                          | 55                           | 0     | 0      | 0     | 0       | 0      | 0      | 0                  |
| University of Connecticut .....   | 42,992  | 2,474  | 1,423 | 1,830                      | 87                           | 1,920 | 665    | 1,764 | 27,582  | 217    | 4,929  | 101                |
| University of Hartford .....      | 210     | 0      | 0     | 0                          | 0                            | 0     | 0      | 0     | 73      | 47     | 90     | 0                  |
| University of New Haven .....     | 143     | 0      | 0     | 0                          | 0                            | 0     | 0      | 0     | 0       | 0      | 143    | 0                  |
| Wesleyan University .....         | 2,541   | 175    | 38    | 168                        | 0                            | 0     | 130    | 0     | 1,118   | 30     | 882    | 0                  |
| Yale University .....             | 169,151 | 509    | 0     | 7,705                      | 0                            | 0     | 10,203 | 0     | 138,730 | 1,235  | 10,769 | 0                  |
| Delaware, total .....             | 24,421  | 2,769  | 753   | 4,959                      | 263                          | 2,359 | 1,174  | 559   | 2,956   | 1,134  | 6,863  | 632                |
| Delaware State University .....   | 1,531   | 804    | 0     | 605                        | 0                            | 25    | 0      | 0     | 0       | 18     | 79     | 0                  |
| Delaware Tech & Cmty Col .....    | 242     | 0      | 0     | 0                          | 0                            | 240   | 0      | 0     | 0       | 0      | 0      | 2                  |
| University of Delaware .....      | 22,648  | 1,965  | 753   | 4,354                      | 263                          | 2,094 | 1,174  | 559   | 2,956   | 1,116  | 6,784  | 630                |
| District of Columbia, total ..... | 109,857 | 1,050  | 429   | 21,692                     | 470                          | 1,900 | 871    | 398   | 51,510  | 7,344  | 10,367 | 13,826             |
| American University .....         | 918     | 0      | 0     | 0                          | 0                            | 0     | 0      | 0     | 233     | 25     | 660    | 0                  |
| Catholic U of America .....       | 2,805   | 136    | 187   | 511                        | 132                          | 0     | 153    | 0     | 454     | 629    | 550    | 53                 |
| Gallaudet University .....        | 1,521   | 0      | 0     | 0                          | 0                            | 333   | 0      | 0     | 522     | 0      | 666    | 0                  |
| George Washington U .....         | 27,524  | 44     | 197   | 9,126                      | 172                          | 150   | 606    | 204   | 13,135  | 2,685  | 1,015  | 190                |
| Georgetown University .....       | 56,523  | 54     | 28    | 8,802                      | 0                            | 556   | 0      | 50    | 32,634  | 0      | 933    | 13,466             |
| Howard University .....           | 18,417  | 287    | 17    | 3,115                      | 166                          | 861   | 112    | 144   | 4,158   | 3,322  | 6,235  | 0                  |
| University of DC .....            | 2,149   | 529    | 0     | 138                        | 0                            | 0     | 0      | 0     | 374     | 683    | 308    | 117                |
| Florida, total .....              | 230,017 | 11,809 | 2,200 | 32,680                     | 1,876                        | 3,016 | 13,265 | 3,332 | 104,294 | 16,887 | 34,374 | 6,284              |
| Barry University .....            | 213     | 0      | 0     | 0                          | 0                            | 195   | 0      | 0     | 0       | 0      | 18     | 0                  |
| Brevard Community College .....   | 35      | 0      | 0     | 0                          | 0                            | 0     | 0      | 0     | 0       | 35     | 0      | 0                  |
| Eckerd College .....              | 58      | 0      | 0     | 0                          | 0                            | 0     | 0      | 0     | 0       | 0      | 58     | 0                  |
| Embry Riddle Aeronautcl U .....   | 1,301   | 0      | 0     | 0                          | 0                            | 200   | 0      | 0     | 111     | 190    | 166    | 634                |
| FL Cmty Col Jacksonville .....    | 78      | 0      | 0     | 0                          | 0                            | 0     | 0      | 0     | 0       | 0      | 78     | 0                  |
| Florida A&M University .....      | 9,247   | 1,746  | 0     | 2,695                      | 0                            | 176   | 0      | 0     | 2,074   | 2,022  | 534    | 0                  |
| Florida Atlantic U .....          | 9,106   | 0      | 0     | 2,563                      | 0                            | 0     | 0      | 0     | 862     | 4,516  | 898    | 267                |
| Florida Inst of Tech .....        | 2,554   | 0      | 139   | 298                        | 85                           | 0     | 0      | 171   | 741     | 158    | 937    | 25                 |
| Florida International U .....     | 7,863   | 90     | 0     | 1,543                      | 0                            | 120   | 0      | 274   | 1,233   | 149    | 1,400  | 3,054              |
| Florida State University .....    | 26,847  | 115    | 738   | 1,871                      | 64                           | 0     | 9,607  | 16    | 4,062   | 1,913  | 8,461  | 0                  |
| Nova Southeastern U .....         | 933     | 0      | 34    | 95                         | 0                            | 0     | 0      | 0     | 121     | 0      | 683    | 0                  |
| Rollins College .....             | 42      | 0      | 0     | 0                          | 0                            | 0     | 42     | 0     | 0       | 0      | 0      | 0                  |
| U Central Florida .....           | 10,251  | 0      | 0     | 6,725                      | 1,070                        | 0     | 0      | 0     | 372     | 976    | 1,108  | 0                  |
| U South Florida .....             | 14,256  | 60     | 401   | 1,025                      | 100                          | 362   | 105    | 118   | 6,979   | 1,559  | 2,665  | 882                |
| U West Florida .....              | 2,379   | 0      | 0     | 430                        | 0                            | 0     | 0      | 1,600 | 242     | 0      | 107    | 0                  |
| University of Florida .....       | 77,341  | 9,798  | 618   | 9,677                      | 557                          | 1,344 | 3,123  | 930   | 38,179  | 2,784  | 8,912  | 1,419              |
| University of Miami .....         | 67,315  | 0      | 270   | 5,758                      | 0                            | 619   | 388    | 223   | 49,120  | 2,585  | 8,349  | 3                  |
| University of N Florida .....     | 198     | 0      | 0     | 0                          | 0                            | 0     | 0      | 0     | 198     | 0      | 0      | 0                  |
| Georgia, total .....              | 207,633 | 13,846 | 583   | 25,779                     | 21,296                       | 2,824 | 17,498 | 5,116 | 93,500  | 10,663 | 15,131 | 1,397              |
| Agnes Scott College .....         | 11      | 0      | 0     | 0                          | 0                            | 0     | 0      | 0     | 0       | 0      | 11     | 0                  |
| Brewton Parker College .....      | 112     | 0      | 0     | 0                          | 0                            | 112   | 0      | 0     | 0       | 0      | 0      | 0                  |
| Clark Atlanta University .....    | 7,673   | 19     | 0     | 1,752                      | 423                          | 310   | 618    | 0     | 193     | 2,677  | 1,681  | 0                  |

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[Dollars in thousands]

| State and institution           | Total   | USDA   | Com   | DoD re-<br>search <sup>1</sup> | DoD devel-<br>opment <sup>1</sup> | Ed    | DOE    | EPA   | HHS     | NASA   | NSF     | Other <sup>2</sup> |
|---------------------------------|---------|--------|-------|--------------------------------|-----------------------------------|-------|--------|-------|---------|--------|---------|--------------------|
| Georgia, con*inued:             |         |        |       |                                |                                   |       |        |       |         |        |         |                    |
| Emory University .....          | 64,526  | 79     | 0     | 1,031                          | 0                                 | 345   | 317    | 0     | 61,249  | 63     | 1,442   | 0                  |
| Fort Valley State College ..... | 2,598   | 2,002  | 0     | 0                              | 0                                 | 0     | 446    | 0     | 0       | 0      | 150     | 0                  |
| Georgia Institute of Tech ..... | 50,805  | 0      | 140   | 19,559                         | 15,934                            | 0     | 1,107  | 3,480 | 2,528   | 6,822  | 0       | 1,235              |
| Georgia Southern U .....        | 686     | 24     | 0     | 0                              | 0                                 | 0     | 0      | 0     | 553     | 89     | 20      | 0                  |
| Georgia Southwestern Col .....  | 55      | 0      | 0     | 0                              | 0                                 | 0     | 0      | 0     | 0       | 55     | 0       | 0                  |
| Georgia State University .....  | 5,661   | 4      | 0     | 0                              | 0                                 | 0     | 238    | 0     | 4,137   | 319    | 963     | 0                  |
| Inst Paper Sci & Tech .....     | 861     | 88     | 0     | 0                              | 0                                 | 0     | 773    | 0     | 0       | 0      | 0       | 0                  |
| Kennesaw State College .....    | 229     | 0      | 0     | 0                              | 0                                 | 0     | 0      | 65    | 134     | 0      | 30      | 0                  |
| Medical College GA .....        | 9,107   | 0      | 0     | 10                             | 0                                 | 0     | 0      | 0     | 9,097   | 0      | 0       | 0                  |
| Mercer University .....         | 5,490   | 0      | 0     | 0                              | 4,939                             | 0     | 0      | 0     | 481     | 25     | 45      | 0                  |
| Middle Georgia College .....    | 33      | 0      | 0     | 0                              | 0                                 | 33    | 0      | 0     | 0       | 0      | 0       | 0                  |
| Morehouse College .....         | 796     | 0      | 0     | 0                              | 0                                 | 215   | 0      | 227   | 189     | 0      | 165     | 0                  |
| Morehouse School of Med .....   | 3,904   | 0      | 0     | 0                              | 0                                 | 0     | 106    | 0     | 3,267   | 471    | 60      | 0                  |
| Morris Brown College .....      | 1,154   | 0      | 0     | 827                            | 0                                 | 187   | 0      | 0     | 130     | 0      | 10      | 0                  |
| Spelman College .....           | 1,252   | 0      | 0     | 1,150                          | 0                                 | 0     | 0      | 0     | 0       | 0      | 102     | 0                  |
| U System of Georgia .....       | 740     | 27     | 0     | 0                              | 0                                 | 0     | 0      | 0     | 551     | 0      | 0       | 162                |
| University of Georgia .....     | 51,903  | 11,603 | 443   | 1,450                          | 0                                 | 1,622 | 13,863 | 1,344 | 10,984  | 142    | 10,452  | 0                  |
| Valdosta State University ..... | 7       | 0      | 0     | 0                              | 0                                 | 0     | 0      | 0     | 7       | 0      | 0       | 0                  |
| West Georgia College .....      | 30      | 0      | 0     | 0                              | 0                                 | 0     | 30     | 0     | 0       | 0      | 0       | 0                  |
| Hawaii, total .....             | 53,488  | 6,046  | 2,013 | 3,438                          | 0                                 | 1,667 | 2,386  | 35    | 13,760  | 7,859  | 13,275  | 3,009              |
| U Hawaii Hilo .....             | 2,584   | 571    | 2,013 | 0                              | 0                                 | 0     | 0      | 0     | 0       | 0      | 0       | 0                  |
| U Hawaii Manoa .....            | 44,660  | 5,404  | 0     | 3,438                          | 0                                 | 1,147 | 258    | 35    | 12,848  | 7,859  | 13,275  | 396                |
| U Hawaii System Off .....       | 6,244   | 71     | 0     | 0                              | 0                                 | 520   | 2,128  | 0     | 912     | 0      | 0       | 2,613              |
| Idaho, total .....              | 16,545  | 6,359  | 32    | 492                            | 0                                 | 200   | 534    | 663   | 1,959   | 58     | 3,586   | 2,662              |
| Boise State University .....    | 444     | 0      | 32    | 166                            | 0                                 | 0     | 0      | 0     | 0       | 0      | 22      | 19                 |
| Idaho State University .....    | 1,041   | 72     | 0     | 0                              | 0                                 | 0     | 495    | 0     | 255     | 31     | 176     | 12                 |
| Lewis Clark State College ..... | 25      | 0      | 0     | 0                              | 0                                 | 0     | 0      | 0     | 0       | 0      | 25      | 0                  |
| North Idaho College .....       | 971     | 0      | 0     | 0                              | 0                                 | 0     | 0      | 0     | 970     | 0      | 0       | 1                  |
| University of Idaho .....       | 14,064  | 6,287  | 0     | 326                            | 0                                 | 200   | 39     | 663   | 734     | 27     | 3,158   | 2,630              |
| Illinois, total .....           | 402,096 | 10,709 | 1,786 | 33,331                         | 1,728                             | 5,441 | 23,156 | 664   | 200,514 | 11,171 | 111,801 | 1,795              |
| Black Hawk College .....        | 67      | 0      | 0     | 0                              | 0                                 | 67    | 0      | 0     | 0       | 0      | 0       | 0                  |
| Bradley University .....        | 771     | 0      | 0     | 0                              | 0                                 | 0     | 0      | 0     | 0       | 0      | 723     | 48                 |
| Chicago State University .....  | 1,627   | 0      | 0     | 1                              | 0                                 | 164   | 0      | 0     | 0       | 0      | 1,462   | 0                  |
| City Colleges of Chicago .....  | 388     | 0      | 0     | 0                              | 0                                 | 0     | 356    | 0     | 0       | 0      | 32      | 0                  |
| Columbia College IL .....       | 92      | 0      | 0     | 92                             | 0                                 | 0     | 0      | 0     | 0       | 0      | 0       | 0                  |
| De Paul University .....        | 1,115   | 0      | 0     | 23                             | 0                                 | 0     | 0      | 0     | 601     | 0      | 491     | 0                  |
| East West University .....      | 160     | 0      | 0     | 0                              | 0                                 | 160   | 0      | 0     | 0       | 0      | 0       | 0                  |
| Eastern Illinois U .....        | 506     | 0      | 0     | 0                              | 0                                 | 0     | 0      | 0     | 0       | 0      | 506     | 0                  |
| Elmhurst College .....          | 725     | 0      | 0     | 0                              | 0                                 | 0     | 0      | 0     | 0       | 0      | 725     | 0                  |
| Finch U Hlth Sci .....          | 5,008   | 0      | 0     | 0                              | 0                                 | 0     | 0      | 0     | 4,882   | 0      | 126     | 0                  |
| Illinois Benedictine Col .....  | 37      | 0      | 0     | 0                              | 0                                 | 0     | 0      | 0     | 0       | 37     | 0       | 0                  |
| Illinois Inst of Tech .....     | 4,330   | 0      | 0     | 2,045                          | 100                               | 0     | 138    | 142   | 948     | 161    | 796     | 0                  |
| Illinois State University ..... | 1,223   | 257    | 0     | 0                              | 0                                 | 0     | 0      | 0     | 572     | 0      | 394     | 0                  |

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[Dollars in thousands]

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| State and institution            | Total   | USDA   | Com   | DoD re-search <sup>1</sup> | DoD devel-op-ment <sup>1</sup> | Ed    | DCE    | EPA   | HHS    | NASA  | NSF    | Other <sup>2</sup> |
|----------------------------------|---------|--------|-------|----------------------------|--------------------------------|-------|--------|-------|--------|-------|--------|--------------------|
| Illinois, continued:             |         |        |       |                            |                                |       |        |       |        |       |        |                    |
| Illinois Wesleyan U .....        | 54      | 0      | 0     | 0                          | 0                              | 0     | 0      | 0     | 0      | 54    | 0      | 0                  |
| John A Logan College .....       | 11      | 0      | 0     | 0                          | 0                              | 0     | 0      | 0     | 11     | 0     | 0      | 0                  |
| Joliet Jr College .....          | 120     | 0      | 0     | 0                          | 0                              | 0     | 0      | 0     | 0      | 0     | 120    | 0                  |
| Knox College .....               | 195     | 0      | 0     | 0                          | 0                              | 0     | 0      | 0     | 39     | 0     | 156    | 0                  |
| Lake Forest College .....        | 160     | 0      | 0     | 0                          | 0                              | 0     | 0      | 0     | 0      | 0     | 160    | 0                  |
| Loyola U Chicago .....           | 9,618   | 4      | 0     | 214                        | 0                              | 0     | 0      | 242   | 7,971  | 0     | 1,187  | 0                  |
| Midwestern University .....      | 119     | 0      | 0     | 0                          | 0                              | 0     | 0      | 0     | 119    | 0     | 0      | 0                  |
| Northeastern Illinois U .....    | 114     | 0      | 0     | 0                          | 0                              | 114   | 0      | 0     | 0      | 0     | 0      | 0                  |
| Northern Illinois U .....        | 5,309   | 149    | 0     | 278                        | 0                              | 948   | 233    | 0     | 1,057  | 0     | 2,591  | 53                 |
| Northwestern University .....    | 82,636  | 50     | 0     | 11,414                     | 50                             | 1,396 | 3,546  | 0     | 44,625 | 1,442 | 18,821 | 1,292              |
| Rush University .....            | 733     | 0      | 0     | 0                          | 0                              | 0     | 0      | 0     | 733    | 0     | 0      | 0                  |
| Sangamon State University .....  | 34      | 0      | 0     | 0                          | 0                              | 0     | 0      | 0     | 0      | 0     | 34     | 0                  |
| Southern IL U Carbondale .....   | 8,790   | 872    | 0     | 0                          | 0                              | 0     | 1,194  | 0     | 5,969  | 18    | 605    | 132                |
| Southern IL U Edwardsville ..... | 5,402   | 0      | 0     | 0                          | 0                              | 0     | 0      | 0     | 4,669  | 0     | 733    | 0                  |
| Southern IL University .....     | 153     | 15     | 0     | 0                          | 0                              | 0     | 0      | 0     | 134    | 0     | 0      | 4                  |
| Trinity Evangel Div Schl .....   | 135     | 0      | 0     | 0                          | 0                              | 135   | 0      | 0     | 0      | 0     | 0      | 0                  |
| U IL Central Office .....        | 933     | 262    | 0     | 248                        | 0                              | 145   | 152    | 0     | 126    | 0     | 0      | 0                  |
| U IL Chicago .....               | 55,202  | 248    | 1,653 | 2,686                      | 1,151                          | 525   | 1,235  | 157   | 41,435 | 310   | 5,802  | 0                  |
| U IL Urbana Champaign .....      | 116,116 | 8,611  | 25    | 13,064                     | 397                            | 1,407 | 11,951 | 45    | 21,016 | 3,074 | 56,260 | 266                |
| University of Chicago .....      | 99,378  | 107    | 108   | 3,212                      | 30                             | 180   | 4,351  | 0     | 65,607 | 6,075 | 19,708 | 0                  |
| Western Illinois U .....         | 835     | 134    | 0     | 54                         | 0                              | 200   | 0      | 78    | 0      | 0     | 369    | 0                  |
| Indiana, total .....             | 172,670 | 11,622 | 749   | 11,135                     | 217                            | 511   | 18,212 | 669   | 79,197 | 4,164 | 43,815 | 2,379              |
| Ball State University .....      | 524     | 30     | 0     | 0                          | 0                              | 0     | 0      | 0     | 392    | 0     | 102    | 0                  |
| Col Court Report Hobart .....    | 200     | 0      | 0     | 0                          | 0                              | 200   | 0      | 0     | 0      | 0     | 0      | 0                  |
| De Pauw University .....         | 16      | 0      | 0     | 0                          | 0                              | 0     | 0      | 0     | 0      | 16    | 0      | 0                  |
| Earlham College .....            | 47      | 0      | 0     | 0                          | 0                              | 0     | 0      | 0     | 0      | 47    | 0      | 0                  |
| Indiana St U All Campuses .....  | 589     | 4      | 0     | 0                          | 0                              | 0     | 0      | 0     | 103    | 38    | 438    | 6                  |
| Indiana University .....         | 81,374  | 264    | 530   | 2,655                      | 0                              | 301   | 3,436  | 282   | 53,548 | 812   | 18,723 | 823                |
| Manchester College .....         | 12      | 0      | 0     | 0                          | 0                              | 0     | 0      | 0     | 0      | 12    | 0      | 0                  |
| Purdue University .....          | 74,920  | 11,321 | 161   | 7,148                      | 217                            | 10    | 10,882 | 262   | 21,472 | 2,632 | 19,265 | 1,550              |
| Rose Hulman Inst of Tech .....   | 99      | 0      | 0     | 0                          | 0                              | 0     | 0      | 0     | 0      | 17    | 82     | 0                  |
| St Marys Col IN .....            | 3       | 3      | 0     | 0                          | 0                              | 0     | 0      | 0     | 0      | 0     | 0      | 0                  |
| U Indianapolis .....             | 18      | 0      | 0     | 0                          | 0                              | 0     | 0      | 0     | 0      | 0     | 18     | 0                  |
| University of Notre Darne .....  | 14,654  | 0      | 58    | 1,332                      | 0                              | 0     | 3,744  | 125   | 3,682  | 526   | 5,187  | 0                  |
| Valparaiso University .....      | 214     | 0      | 0     | 0                          | 0                              | 0     | 150    | 0     | 0      | 64    | 0      | 0                  |
| Iowa, total .....                | 132,338 | 15,025 | 627   | 4,427                      | 660                            | 1,587 | 6,366  | 1,837 | 75,410 | 6,453 | 13,248 | 6,698              |
| Coe College .....                | 133     | 0      | 0     | 0                          | 0                              | 0     | 0      | 0     | 0      | 0     | 110    | 23                 |
| Divine Word College .....        | 29      | 0      | 0     | 0                          | 0                              | 0     | 0      | 0     | 0      | 0     | 29     | 0                  |
| Dordt College .....              | 52      | 0      | 0     | 0                          | 0                              | 0     | 0      | 0     | 0      | 0     | 52     | 0                  |
| Drake University .....           | 180     | 0      | 0     | 0                          | 0                              | 0     | 0      | 0     | 88     | 59    | 33     | 0                  |
| Graceland College .....          | 23      | 0      | 0     | 0                          | 0                              | 0     | 0      | 0     | 0      | 0     | 23     | 0                  |
| Grinnell College .....           | 54      | 0      | 0     | 0                          | 0                              | 0     | 0      | 14    | 0      | 0     | 40     | 0                  |
| Iowa State University .....      | 41,468  | 14,550 | 440   | 1,705                      | 0                              | 400   | 5,350  | 1,063 | 5,150  | 958   | 6,619  | 5,233              |

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|---------------------------------|---------------|--------------|------------|----------------------------|------------------------------|--------------|--------------|--------------|---------------|--------------|--------------|--------------------|
| Iowa, continued:                |               |              |            |                            |                              |              |              |              |               |              |              |                    |
| Kirkwood Community Col .....    | 256           | 0            | 0          | 0                          | 0                            | 0            | 0            | 0            | 256           | 0            | 0            | 0                  |
| Luther College .....            | 41            | 0            | 0          | 0                          | 0                            | 0            | 0            | 0            | 0             | 0            | 41           | 0                  |
| Maharishi Intl University ..... | 801           | 0            | 0          | 0                          | 0                            | 0            | 0            | 0            | 754           | 0            | 47           | 0                  |
| St Ambrose University .....     | 22            | 0            | 0          | 0                          | 0                            | 0            | 0            | 0            | 0             | 0            | 22           | 0                  |
| U Northern Iowa .....           | 1,044         | 0            | 0          | 0                          | 0                            | 200          | 0            | 700          | 0             | 29           | 115          | 0                  |
| University of Iowa .....        | 87,875        | 475          | 187        | 2,722                      | 660                          | 987          | 679          | 60           | 69,162        | 5,407        | 6,094        | 1,442              |
| Upper Iowa University .....     | 337           | 0            | 0          | 0                          | 0                            | 0            | 337          | 0            | 0             | 0            | 0            | 0                  |
| William Penn College .....      | 23            | 0            | 0          | 0                          | 0                            | 0            | 0            | 0            | 0             | 0            | 23           | 0                  |
| <b>Kansas, total .....</b>      | <b>62,468</b> | <b>6,216</b> | <b>0</b>   | <b>9,929</b>               | <b>0</b>                     | <b>2,123</b> | <b>3,769</b> | <b>2,060</b> | <b>25,873</b> | <b>2,063</b> | <b>8,975</b> | <b>1,460</b>       |
| Emporia State University .....  | 26            | 0            | 0          | 0                          | 0                            | 0            | 0            | 0            | 0             | 26           | 0            | 0                  |
| Kansas City Kansas CC .....     | 1             | 0            | 0          | 0                          | 0                            | 0            | 0            | 0            | 0             | 0            | 0            | 1                  |
| Kansas State University .....   | 26,236        | 6,082        | 0          | 8,250                      | 0                            | 37           | 2,937        | 1,854        | 2,597         | 1,056        | 3,097        | 326                |
| Pittsburg State U .....         | 200           | 0            | 0          | 0                          | 0                            | 0            | 0            | 0            | 0             | 0            | 200          | 0                  |
| Seward County C.nty Col .....   | 458           | 0            | 0          | 0                          | 0                            | 458          | 0            | 0            | 0             | 0            | 0            | 0                  |
| University of Kansas .....      | 33,522        | 134          | 0          | 1,614                      | 0                            | 1,628        | 832          | 206          | 22,710        | 921          | 5,344        | 133                |
| Wichita State University .....  | 2,025         | 0            | 0          | 65                         | 0                            | 0            | 0            | 0            | 566           | 60           | 334          | 1,000              |
| <b>Kentucky, total .....</b>    | <b>58,818</b> | <b>9,515</b> | <b>56</b>  | <b>1,218</b>               | <b>0</b>                     | <b>0</b>     | <b>5,408</b> | <b>776</b>   | <b>33,086</b> | <b>698</b>   | <b>7,721</b> | <b>340</b>         |
| Berea College .....             | 21            | 0            | 0          | 0                          | 0                            | 0            | 0            | 0            | 0             | 0            | 21           | 0                  |
| Centre College .....            | 8             | 0            | 0          | 0                          | 0                            | 0            | 0            | 0            | 0             | 0            | 8            | 0                  |
| Eastern Kentucky U .....        | 291           | 0            | 0          | 0                          | 0                            | 0            | 0            | 0            | 81            | 0            | 210          | 0                  |
| Kentucky State University ..... | 2,650         | 2,650        | 0          | 0                          | 0                            | 0            | 0            | 0            | 0             | 0            | 0            | 0                  |
| Murray State University .....   | 60            | 43           | 0          | 0                          | 0                            | 0            | 0            | 0            | 0             | 0            | 17           | 0                  |
| Northern Kentucky U .....       | 326           | 0            | 0          | 0                          | 0                            | 0            | 0            | 107          | 90            | 0            | 129          | 0                  |
| Transylvania University .....   | 131           | 0            | 0          | 0                          | 0                            | 0            | 0            | 0            | 105           | 0            | 26           | 0                  |
| University of Kentucky .....    | 46,594        | 6,822        | 56         | 597                        | 0                            | 0            | 4,831        | 669          | 25,985        | 266          | 7,028        | 340                |
| University of Louisville .....  | 6,945         | 0            | 0          | 621                        | 0                            | 0            | 178          | 0            | 5,432         | 432          | 282          | 0                  |
| Western Kentucky U .....        | 1,792         | 0            | 0          | 0                          | 0                            | 0            | 399          | 0            | 1,393         | 0            | 0            | 0                  |
| <b>Louisiana, total .....</b>   | <b>96,200</b> | <b>7,500</b> | <b>637</b> | <b>17,697</b>              | <b>202</b>                   | <b>438</b>   | <b>8,501</b> | <b>4,771</b> | <b>43,415</b> | <b>1,506</b> | <b>7,329</b> | <b>4,204</b>       |
| Centenary College of LA .....   | 22            | 0            | 0          | 0                          | 0                            | 0            | 0            | 0            | 0             | 0            | 22           | 0                  |
| Dillard University .....        | 120           | 76           | 0          | 0                          | 0                            | 24           | 20           | 0            | 0             | 0            | 0            | 0                  |
| Grambling State U .....         | 617           | 0            | 0          | 205                        | 0                            | 0            | 0            | 0            | 186           | 0            | 180          | 46                 |
| LA St U System Office .....     | 142           | 68           | 0          | 0                          | 0                            | 0            | 0            | 0            | 0             | 0            | 0            | 74                 |
| LA U Marine Consortium .....    | 319           | 0            | 0          | 0                          | 0                            | 0            | 267          | 0            | 0             | 0            | 0            | 52                 |
| Louisiana College .....         | 10            | 10           | 0          | 0                          | 0                            | 0            | 0            | 0            | 0             | 0            | 0            | 0                  |
| Louisiana State U .....         | 58,197        | 5,622        | 637        | 14,801                     | 0                            | 0            | 2,703        | 3,620        | 23,198        | 1,250        | 5,060        | 1,306              |
| Louisiana Tech University ..... | 456           | 165          | 0          | 142                        | 0                            | 0            | 0            | 0            | 0             | 0            | 149          | 0                  |
| Loyola U New Orleans .....      | 36            | 0            | 0          | 0                          | 0                            | 0            | 0            | 0            | 0             | 0            | 36           | 0                  |
| McNeese State University .....  | 67            | 0            | 0          | 0                          | 0                            | 0            | 0            | 0            | 0             | 0            | 67           | 0                  |
| Nicholls State University ..... | 5             | 0            | 0          | 0                          | 0                            | 0            | 0            | 0            | 0             | 0            | 5            | 0                  |
| Northeast Louisiana U .....     | 326           | 5            | 0          | 28                         | 0                            | 0            | 0            | 20           | 203           | 0            | 70           | 0                  |
| Northwest State U .....         | 50            | 50           | 0          | 0                          | 0                            | 0            | 0            | 0            | 0             | 0            | 0            | 0                  |
| Southeastern Louisiana U .....  | 383           | 0            | 0          | 0                          | 36                           | 247          | 0            | 0            | 0             | 0            | 100          | 0                  |
| Southern U & A&M College .....  | 4,724         | 1,228        | 0          | 1,146                      | 166                          | 167          | 0            | 391          | 964           | 45           | 502          | 115                |

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**Table 4. Federal obligations for science and engineering research and development to universities and colleges, by State, institution, and agency: fiscal year 1993**

[Dollars in thousands]

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| State and institution           | Total          | USDA         | Com          | DoD re-search <sup>1</sup> | DoD development <sup>1</sup> | Ed           | DOE           | EPA          | HHS            | NASA          | NSF           | Other <sup>2</sup> |
|---------------------------------|----------------|--------------|--------------|----------------------------|------------------------------|--------------|---------------|--------------|----------------|---------------|---------------|--------------------|
| Louisiana, continued:           |                |              |              |                            |                              |              |               |              |                |               |               |                    |
| Tulane University .....         | 27,238         | 75           | 0            | 1,062                      | 0                            | 0            | 5,090         | 375          | 17,350         | 91            | 842           | 2,353              |
| U Southwestern Louisiana .....  | 2,083          | 184          | 0            | 224                        | 0                            | 0            | 0             | 0            | 1,001          | 120           | 296           | 258                |
| Xavier University LA .....      | 1,405          | 17           | 0            | 89                         | 0                            | 0            | 421           | 365          | 513            | 0             | 0             | 0                  |
| <b>Maine, total .....</b>       | <b>13,572</b>  | <b>4,414</b> | <b>1,401</b> | <b>348</b>                 | <b>0</b>                     | <b>629</b>   | <b>1,420</b>  | <b>1,544</b> | <b>717</b>     | <b>175</b>    | <b>2,544</b>  | <b>380</b>         |
| Bates College .....             | 24             | 0            | 0            | 0                          | 0                            | 0            | 0             | 0            | 0              | 0             | 24            | 0                  |
| Bowdoin College .....           | 663            | 0            | 0            | 0                          | 0                            | 0            | 0             | 0            | 0              | 65            | 598           | 0                  |
| Colby College .....             | 13             | 0            | 0            | 0                          | 0                            | 0            | 0             | 0            | 0              | 13            | 0             | 0                  |
| College of the Atlantic .....   | 38             | 0            | 0            | 0                          | 0                            | 0            | 0             | 0            | 0              | 0             | 38            | 0                  |
| St Josephs Col ME .....         | 28             | 0            | 0            | 0                          | 0                            | 0            | 0             | 0            | 0              | 0             | 28            | 0                  |
| U Maine Augusta .....           | 1,249          | 0            | 0            | 0                          | 0                            | 0            | 1,249         | 0            | 0              | 0             | 0             | 0                  |
| U Maine Machias .....           | 39             | 0            | 0            | 0                          | 0                            | 39           | 0             | 0            | 0              | 0             | 0             | 0                  |
| U Maine Presque Isle .....      | 23             | 23           | 0            | 0                          | 0                            | 0            | 0             | 0            | 0              | 0             | 0             | 0                  |
| U Maine System Office .....     | 2,121          | 323          | 1,401        | 0                          | 0                            | 0            | 0             | 0            | 201            | 0             | 0             | 196                |
| University of Maine .....       | 9,184          | 4,068        | 0            | 348                        | 0                            | 590          | 171           | 1,544        | 352            | 97            | 1,830         | 184                |
| University of S Maine .....     | 190            | 0            | 0            | 0                          | 0                            | 0            | 0             | 0            | 164            | 0             | 26            | 0                  |
| <b>Maryland, total .....</b>    | <b>687,277</b> | <b>7,139</b> | <b>4,101</b> | <b>30,554</b>              | <b>276,838</b>               | <b>2,539</b> | <b>13,893</b> | <b>5,033</b> | <b>280,554</b> | <b>27,177</b> | <b>38,663</b> | <b>786</b>         |
| Allegany Community Col .....    | 12             | 0            | 0            | 0                          | 0                            | 0            | 0             | 0            | 0              | 0             | 12            | 0                  |
| Bowie State University .....    | 541            | 0            | 0            | 150                        | 0                            | 0            | 0             | 0            | 102            | 45            | 169           | 75                 |
| Catonsville Cmty College .....  | 1              | 0            | 0            | 0                          | 0                            | 0            | 0             | 0            | 0              | 0             | 0             | 1                  |
| Charles County Cmty Col .....   | 47             | 0            | 0            | 0                          | 0                            | 31           | 0             | 0            | 0              | 16            | 0             | 0                  |
| Col of Notre Dame MD .....      | 128            | 0            | 0            | 0                          | 0                            | 0            | 0             | 0            | 0              | 0             | 128           | 0                  |
| Garrett Community College ..... | 100            | 0            | 0            | 0                          | 0                            | 100          | 0             | 0            | 0              | 0             | 0             | 0                  |
| Goucher College .....           | 19             | 0            | 0            | 0                          | 0                            | 0            | 0             | 0            | 0              | 0             | 19            | 0                  |
| Howard Community College .....  | 150            | 0            | 0            | 0                          | 0                            | 0            | 0             | 0            | 0              | 0             | 150           | 0                  |
| Johns Hopkins University .....  | 543,873        | 170          | 230          | 17,033                     | 274,750                      | 1,906        | 5,442         | 377          | 223,725        | 9,802         | 10,438        | 0                  |
| Loyola College .....            | 88             | 0            | 0            | 0                          | 0                            | 0            | 0             | 0            | 0              | 0             | 88            | 0                  |
| Morgan State University .....   | 1,307          | 0            | 0            | 218                        | 160                          | 0            | 468           | 304          | 0              | 0             | 157           | 0                  |
| Mount St Marys Col MD .....     | 86             | 46           | 0            | 0                          | 0                            | 0            | 0             | 0            | 0              | 0             | 40            | 0                  |
| Prince Georges Cmty Col .....   | 146            | 0            | 0            | 0                          | 0                            | 0            | 0             | 0            | 0              | 0             | 146           | 0                  |
| Salisbury State U .....         | 34             | 10           | 7            | 0                          | 0                            | 0            | 0             | 0            | 0              | 0             | 17            | 0                  |
| St Marys Col MD .....           | 134            | 0            | 0            | 0                          | 0                            | 0            | 0             | 0            | 134            | 0             | 0             | 0                  |
| Towson State University .....   | 581            | 0            | 0            | 0                          | 0                            | 0            | 0             | 109          | 0              | 0             | 472           | 0                  |
| U MD Baltimore .....            | 49,992         | 0            | 75           | 1,177                      | 888                          | 0            | 0             | 590          | 46,641         | 0             | 621           | 0                  |
| U MD Baltimore County .....     | 7,293          | 293          | 60           | 313                        | 0                            | 0            | 263           | 73           | 2,136          | 416           | 3,739         | 0                  |
| U MD College Park .....         | 76,300         | 5,413        | 3,583        | 10,335                     | 1,040                        | 165          | 7,355         | 1,995        | 7,009          | 16,861        | 22,245        | 299                |
| U MD Eastern Shore .....        | 1,956          | 1,197        | 0            | 52                         | 0                            | 337          | 0             | 0            | 370            | 0             | 0             | 0                  |
| U MD University Col .....       | 1,687          | 0            | 0            | 1,276                      | 0                            | 0            | 0             | 0            | 300            | 0             | 0             | 111                |
| U Maryland Sys Admin .....      | 958            | 10           | 146          | 0                          | 0                            | 0            | 365           | 0            | 137            | 0             | 0             | 300                |
| U of MD Center for EES .....    | 1,622          | 0            | 0            | 0                          | 0                            | 0            | 0             | 1,585        | 0              | 37            | 0             | 0                  |
| Washington College .....        | 44             | 0            | 0            | 0                          | 0                            | 0            | 0             | 0            | 0              | 0             | 44            | 0                  |
| Western Maryland College .....  | 178            | 0            | 0            | 0                          | 0                            | 0            | 0             | 0            | 0              | 0             | 178           | 0                  |

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[Dollars in thousands]

| State and institution     | Total   | USDA   | Com   | DoD re-<br>search <sup>1</sup> | DoD devel-<br>opment <sup>1</sup> | Ed    | DOE    | EPA   | HHS     | NASA   | NSF     | Other <sup>2</sup> |
|---------------------------|---------|--------|-------|--------------------------------|-----------------------------------|-------|--------|-------|---------|--------|---------|--------------------|
| Massachusetts, total      | 782,288 | 18,160 | 2,910 | 161,856                        | 11,378                            | 3,771 | 70,955 | 9,688 | 313,125 | 49,460 | 134,817 | 6,168              |
| Amherst College           | 803     | 0      | 0     | 16                             | 0                                 | 0     | 0      | 0     | 240     | 0      | 547     | 0                  |
| Assumption College        | 97      | 0      | 0     | 0                              | 0                                 | 0     | 0      | 0     | 97      | 0      | 0       | 0                  |
| Boston College            | 8,156   | 15     | 0     | 2,926                          | 455                               | 0     | 197    | 0     | 2,477   | 105    | 1,800   | 181                |
| Boston University         | 102,642 | 50     | 0     | 32,349                         | 3,721                             | 2,830 | 3,119  | 609   | 48,617  | 1,593  | 9,705   | 49                 |
| Brandeis University       | 21,651  | 0      | 0     | 2,788                          | 0                                 | 0     | 852    | 0     | 12,207  | 375    | 3,729   | 1,700              |
| Bridgewater State College | 204     | 0      | 0     | 0                              | 0                                 | 0     | 0      | 0     | 76      | 0      | 128     | 0                  |
| Clark University          | 2,051   | 0      | 88    | 456                            | 0                                 | 0     | 222    | 272   | 209     | 69     | 735     | 0                  |
| Col of Our Lady of Elms   | 171     | 0      | 0     | 0                              | 0                                 | 0     | 0      | 0     | 96      | 0      | 75      | 0                  |
| Col of the Holy Cross     | 570     | 0      | 0     | 0                              | 0                                 | 0     | 0      | 0     | 306     | 13     | 251     | 0                  |
| Emerson College           | 199     | 0      | 0     | 0                              | 0                                 | 39    | 0      | 0     | 160     | 0      | 0       | 0                  |
| Endicott College          | 75      | 0      | 0     | 0                              | 0                                 | 0     | 0      | 0     | 75      | 0      | 0       | 0                  |
| Five Colleges Inc         | 653     | 0      | 0     | 0                              | 0                                 | 0     | 0      | 0     | 0       | 0      | 653     | 0                  |
| Greenfield Community Col  | 40      | 0      | 0     | 0                              | 0                                 | 40    | 0      | 0     | 0       | 0      | 0       | 0                  |
| Hampshire College         | 270     | 0      | 0     | 0                              | 0                                 | 39    | 0      | 0     | 0       | 0      | 231     | 0                  |
| Harvard University        | 169,173 | 127    | 0     | 10,000                         | 0                                 | 0     | 5,252  | 2,509 | 125,405 | 6,200  | 19,438  | 242                |
| Lesley College            | 152     | 0      | 0     | 0                              | 0                                 | 0     | 0      | 0     | 0       | 0      | 152     | 0                  |
| MA Inst of Technology     | 251,845 | 597    | 1,535 | 58,148                         | 50                                | 180   | 56,291 | 1,926 | 51,403  | 38,437 | 40,864  | 2,414              |
| Merrimack College         | 328     | 0      | 0     | 0                              | 0                                 | 0     | 0      | 250   | 0       | 0      | 78      | 0                  |
| Mount Holyoke College     | 836     | 0      | 0     | 0                              | 0                                 | 0     | 75     | 0     | 95      | 0      | 666     | 0                  |
| Mount Wachusett Cmty Col  | 30      | 0      | 0     | 0                              | 0                                 | 30    | 0      | 0     | 0       | 0      | 0       | 0                  |
| New England Col Optometry | 104     | 0      | 0     | 0                              | 0                                 | 0     | 0      | 0     | 104     | 0      | 0       | 0                  |
| Northeastern University   | 26,197  | 0      | 0     | 17,552                         | 0                                 | 56    | 369    | 348   | 3,014   | 0      | 4,858   | 0                  |
| Radcliffe College         | 1       | 0      | 0     | 0                              | 0                                 | 0     | 0      | 0     | 0       | 0      | 0       | 1                  |
| Salem State College       | 76      | 0      | 0     | 0                              | 0                                 | 0     | 0      | 0     | 76      | 0      | 0       | 0                  |
| Simmons College           | 445     | 0      | 0     | 0                              | 0                                 | 0     | 0      | 0     | 445     | 0      | 0       | 0                  |
| Smith College             | 221     | 0      | 0     | 0                              | 0                                 | 0     | 0      | 0     | 94      | 0      | 127     | 0                  |
| Springfield College MA    | 130     | 0      | 0     | 0                              | 0                                 | 0     | 0      | 0     | 130     | 0      | 0       | 0                  |
| Tufts University          | 45,015  | 11,910 | 0     | 1,195                          | 45                                | 187   | 1,159  | 3,400 | 25,074  | 231    | 1,814   | 0                  |
| U MA Amherst              | 35,227  | 4,742  | 0     | 8,227                          | 1,403                             | 0     | 1,028  | 103   | 5,635   | 1,416  | 12,542  | 131                |
| U MA Boston               | 3,749   | 200    | 0     | 707                            | 0                                 | 299   | 206    | 50    | 1,612   | 0      | 675     | 0                  |
| U MA Central Office       | 634     | 146    | 110   | 0                              | 0                                 | 0     | 0      | 0     | 0       | 0      | 0       | 378                |
| U MA Dartmouth            | 1,245   | 0      | 0     | 0                              | 0                                 | 0     | 0      | 0     | 110     | 0      | 1,135   | 0                  |
| U MA Lowell               | 3,505   | 75     | 0     | 878                            | 412                               | 71    | 402    | 98    | 1,103   | 0      | 466     | 0                  |
| U MA Worcester            | 34,574  | 248    | 0     | 315                            | 202                               | 0     | 0      | 0     | 32,846  | 0      | 963     | 0                  |
| Wellesley College         | 2,355   | 0      | 0     | 0                              | 0                                 | 0     | 0      | 123   | 883     | 137    | 1,212   | 0                  |
| Wentworth Inst of Tech    | 1,861   | 0      | 0     | 248                            | 1,613                             | 0     | 0      | 0     | 0       | 0      | 0       | 0                  |
| Williams College          | 763     | 0      | 0     | 0                              | 0                                 | 0     | 0      | 0     | 317     | 5      | 441     | 0                  |
| Woods Hole Oceanographic  | 61,399  | 0      | 1,117 | 23,757                         | 3,477                             | 0     | 1,528  | 0     | 120     | 817    | 29,999  | 584                |
| Worcester Polytech Inst   | 4,841   | 50     | 60    | 2,294                          | 0                                 | 0     | 255    | 0     | 99      | 62     | 1,533   | 488                |
| Michigan, total           | 368,972 | 15,629 | 707   | 24,602                         | 2,612                             | 4,188 | 14,909 | 7,327 | 195,433 | 38,993 | 60,888  | 3,684              |
| Alma College              | 222     | 0      | 0     | 0                              | 0                                 | 0     | 0      | 0     | 0       | 0      | 222     | 0                  |
| Andrews University        | 218     | 0      | 0     | 0                              | 0                                 | 0     | 0      | 0     | 0       | 0      | 218     | 0                  |
| Calvin College            | 45      | 0      | 0     | 0                              | 0                                 | 0     | 0      | 0     | 0       | 0      | 45      | 0                  |
| Central Michigan U        | 200     | 0      | 0     | 0                              | 0                                 | 0     | 0      | 0     | 150     | 0      | 50      | 0                  |

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|---------------------------------|---------|--------|-----|--------------------------------|--|-------|-------|-------|---------|--------|--------|--------------------|
| Michigan, continued:            |         |        |     |                                |  |       |       |       |         |        |        |                    |
| Cnsrtm Intl Earh Sci Info ..... | 27,000  | 0      | 0   | 0                              | 0                                      | 0     | 0     | 0     | 0       | 27,000 | 0      | 0                  |
| Cranbrook Acad of Art .....     | 202     | 0      | 0   | 0                              | 0                                      | 202   | 0     | 0     | 0       | 0      | 0      | 0                  |
| Eastern Michigan U .....        | 951     | 120    | 0   | 0                              | 0                                      | 0     | 0     | 0     | 333     | 0      | 498    | 0                  |
| Ferris State University .....   | 106     | 0      | 0   | 0                              | 0                                      | 0     | 0     | 0     | 106     | 0      | 0      | 0                  |
| GMI Engineering Mgt Inst .....  | 383     | 0      | 0   | 0                              | 0                                      | 0     | 0     | 0     | 0       | 0      | 383    | 0                  |
| Grand Valley State U .....      | 402     | 0      | 0   | 0                              | 0                                      | 188   | 0     | 25    | 0       | 74     | 104    | 11                 |
| Hope College .....              | 541     | 0      | 0   | 0                              | 0                                      | 0     | 0     | 0     | 104     | 69     | 368    | 0                  |
| Kalamazoo College .....         | 248     | 0      | 0   | 0                              | 0                                      | 0     | 0     | 0     | 171     | 0      | 77     | 0                  |
| Lawrence Technological U .....  | 10      | 0      | 0   | 0                              | 0                                      | 0     | 0     | 0     | 0       | 0      | 10     | 0                  |
| Madonna University .....        | 87      | 0      | 0   | 0                              | 0                                      | 0     | 0     | 0     | 0       | 0      | 87     | 0                  |
| Michigan State University ..... | 67,666  | 14,452 | 0   | 1,439                          | 104                                    | 1,488 | 5,227 | 587   | 20,845  | 218    | 23,099 | 207                |
| Michigan Tech University .....  | 7,297   | 397    | 0   | 1,921                          | 782                                    | 0     | 897   | 963   | 0       | 359    | 1,834  | 144                |
| Northern Michigan U .....       | 743     | 0      | 0   | 550                            | 0                                      | 193   | 0     | 0     | 0       | 0      | 0      | 0                  |
| Oakland University .....        | 2,679   | 0      | 0   | 0                              | 0                                      | 0     | 48    | 0     | 2,221   | 0      | 410    | 0                  |
| U of Detroit Mercy .....        | 1,599   | 80     | 0   | 144                            | 0                                      | 0     | 0     | 1,200 | 46      | 0      | 129    | 0                  |
| University of Michigan .....    | 214,612 | 580    | 643 | 18,492                         | 1,726                                  | 235   | 8,114 | 4,474 | 137,236 | 10,763 | 29,027 | 3,322              |
| Wayne State University .....    | 40,172  | 0      | 64  | 1,959                          | 0                                      | 498   | 525   | 0     | 33,701  | 499    | 2,926  | 0                  |
| West Shore Community Col .....  | 210     | 0      | 0   | 0                              | 0                                      | 210   | 0     | 0     | 0       | 0      | 0      | 0                  |
| Western Michigan U .....        | 3,379   | 0      | 0   | 97                             | 0                                      | 1,174 | 98    | 78    | 520     | 11     | 1,401  | 0                  |
| Minnesota, total .....          | 171,428 | 9,857  | 219 | 15,597                         | 200                                    | 4,134 | 6,158 | 2,170 | 101,421 | 3,087  | 26,980 | 1,605              |
| Augsburg College .....          | 860     | 0      | 0   | 219                            | 0                                      | 0     | 0     | 0     | 0       | 0      | 641    | 0                  |
| Bemidji State University .....  | 130     | 0      | 0   | 0                              | 0                                      | 0     | 0     | 0     | 95      | 35     | 0      | 0                  |
| Bethel College & Seminary ..... | 4       | 0      | 0   | 0                              | 0                                      | 0     | 0     | 0     | 0       | 0      | 4      | 0                  |
| Carleton College .....          | 160     | 0      | 0   | 0                              | 0                                      | 0     | 0     | 0     | 0       | 0      | 160    | 0                  |
| College of St Scholastica ..... | 96      | 0      | 0   | 0                              | 0                                      | 0     | 0     | 0     | 96      | 0      | 0      | 0                  |
| Concordia Col Moorhead .....    | 65      | 0      | 0   | 0                              | 0                                      | 0     | 0     | 0     | 0       | 0      | 65     | 0                  |
| Gustavus Adolphus College ..... | 90      | 0      | 0   | 0                              | 0                                      | 0     | 0     | 0     | 0       | 0      | 90     | 0                  |
| Hamline University .....        | 100     | 0      | 0   | 0                              | 0                                      | 0     | 0     | 0     | 0       | 0      | 100    | 0                  |
| Mankato State University .....  | 177     | 0      | 0   | 0                              | 0                                      | 0     | 0     | 0     | 0       | 0      | 177    | 0                  |
| Mankato State University .....  | 121     | 0      | 0   | 0                              | 0                                      | 0     | 0     | 0     | 91      | 30     | 0      | 0                  |
| Moorhead State University ..... | 102     | 0      | 0   | 0                              | 0                                      | 0     | 0     | 0     | 102     | 0      | 0      | 0                  |
| Normandale Community Col .....  | 220     | 0      | 0   | 0                              | 0                                      | 220   | 0     | 0     | 0       | 0      | 0      | 0                  |
| Southwest State U .....         | 100     | 100    | 0   | 0                              | 0                                      | 0     | 0     | 0     | 0       | 0      | 0      | 0                  |
| St Cloud State University ..... | 294     | 50     | 139 | 0                              | 0                                      | 0     | 0     | 0     | 0       | 0      | 105    | 0                  |
| St Marys Col MN .....           | 10      | 0      | 0   | 0                              | 0                                      | 0     | 0     | 0     | 0       | 0      | 10     | 0                  |
| St Olaf College .....           | 164     | 0      | 0   | 0                              | 0                                      | 0     | 0     | 0     | 23      | 0      | 141    | 0                  |
| St Paul Tech College .....      | 6       | 6      | 0   | 0                              | 0                                      | 0     | 0     | 0     | 0       | 0      | 0      | 0                  |
| U of St Thomas MN .....         | 25      | 0      | 0   | 0                              | 0                                      | 0     | 0     | 0     | 0       | 0      | 25     | 0                  |
| University of Minnesota .....   | 168,675 | 9,701  | 80  | 15,378                         | 200                                    | 3,914 | 6,158 | 2,170 | 101,014 | 3,022  | 25,433 | 1,605              |
| Winona State University .....   | 29      | 0      | 0   | 0                              | 0                                      | 0     | 0     | 0     | 0       | 0      | 29     | 0                  |

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[Dollars in thousands]

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|---------------------------|----------------|---------------|-----------|--------------------------------|--|--------------|--------------|------------|----------------|--------------|---------------|--------------------|
| <b>Mississippi. total</b> | <b>51,309</b>  | <b>14,273</b> | <b>43</b> | <b>5,396</b>                   | <b>521</b>                             | <b>1,559</b> | <b>7,317</b> | <b>277</b> | <b>9,546</b>   | <b>1,504</b> | <b>9,391</b>  | <b>1,482</b>       |
| Alcorn State University   | 1,953          | 1,888         | 0         | 65                             | 0                                      | 0            | 0            | 0          | 0              | 0            | 0             | 0                  |
| Hinds Cmty Col Raymond    | 369            | 0             | 0         | 0                              | 0                                      | 369          | 0            | 0          | 0              | 0            | 0             | 0                  |
| Jackson State University  | 6,374          | 20            | 0         | 940                            | 0                                      | 167          | 1,535        | 0          | 1,206          | 0            | 2,496         | 10                 |
| MS Gulf Cst CC Perkinstn  | 155            | 0             | 0         | 0                              | 0                                      | 155          | 0            | 0          | 0              | 0            | 0             | 0                  |
| Mississippi State U       | 20,366         | 9,831         | 0         | 1,657                          | 0                                      | 756          | 2,151        | 179        | 414            | 1,134        | 4,036         | 208                |
| Mississippi Valley St U   | 131            | 0             | 0         | 0                              | 0                                      | 112          | 0            | 0          | 0              | 19           | 0             | 0                  |
| Pearl River Cmty College  | 25             | 0             | 0         | 0                              | 0                                      | 0            | 0            | 0          | 0              | 25           | 0             | 0                  |
| Rust College              | 188            | 25            | 0         | 0                              | 163                                    | 0            | 0            | 0          | 0              | 0            | 0             | 0                  |
| U Southern Mississippi    | 5,845          | 1,227         | 43        | 1,729                          | 0                                      | 0            | 151          | 0          | 560            | 100          | 2,035         | 0                  |
| University of Mississippi | 15,903         | 1,282         | 0         | 1,005                          | 358                                    | 0            | 3,480        | 98         | 7,366          | 226          | 824           | 1,264              |
| <b>Missouri. total</b>    | <b>197,385</b> | <b>11,206</b> | <b>75</b> | <b>6,196</b>                   | <b>0</b>                               | <b>1,940</b> | <b>4,351</b> | <b>276</b> | <b>151,241</b> | <b>4,636</b> | <b>15,319</b> | <b>2,145</b>       |
| Avila College             | 51             | 0             | 0         | 0                              | 0                                      | 0            | 0            | 0          | 0              | 0            | 50            | 1                  |
| Harris Stowe State Col    | 4              | 0             | 0         | 0                              | 0                                      | 0            | 0            | 0          | 0              | 0            | 0             | 4                  |
| Kirkville Col Osteo Med   | 478            | 0             | 0         | 0                              | 0                                      | 0            | 0            | 0          | 478            | 0            | 0             | 0                  |
| Lincoln University MO     | 1,887          | 1,869         | 0         | 0                              | 0                                      | 0            | 0            | 0          | 0              | 0            | 0             | 18                 |
| North Central MO Col      | 1,117          | 0             | 0         | 0                              | 0                                      | 0            | 0            | 0          | 1,117          | 0            | 0             | 0                  |
| Northeast Missouri St U   | 65             | 0             | 0         | 0                              | 0                                      | 0            | 0            | 0          | 0              | 0            | 65            | 0                  |
| Northwest Missouri St U   | 220            | 0             | 0         | 0                              | 0                                      | 220          | 0            | 0          | 0              | 0            | 0             | 0                  |
| Southeast Missouri St U   | 192            | 0             | 0         | 0                              | 0                                      | 29           | 0            | 0          | 0              | 0            | 163           | 0                  |
| Southwest Missouri St U   | 341            | 0             | 0         | 0                              | 0                                      | 0            | 0            | 0          | 0              | 0            | 341           | 0                  |
| St Louis Community Col    | 1              | 0             | 0         | 0                              | 0                                      | 0            | 0            | 0          | 0              | 0            | 0             | 1                  |
| St Louis University       | 15,475         | 0             | 0         | 168                            | 0                                      | 0            | 0            | 0          | 14,523         | 129          | 405           | 250                |
| U Missouri Columbia       | 28,481         | 9,007         | 0         | 832                            | 0                                      | 0            | 1,584        | 195        | 12,350         | 242          | 3,840         | 431                |
| U Missouri Kansas City    | 4,694          | 0             | 0         | 281                            | 0                                      | 0            | 103          | 0          | 4,199          | 0            | 103           | 8                  |
| U Missouri Rolla          | 6,127          | 0             | 0         | 1,425                          | 0                                      | 0            | 449          | 0          | 232            | 403          | 2,579         | 1,039              |
| U Missouri St Louis       | 2,606          | 120           | 0         | 365                            | 0                                      | 0            | 0            | 31         | 858            | 0            | 1,232         | 0                  |
| U Missouri System Admin   | 2,436          | 98            | 75        | 0                              | 0                                      | 1,691        | 193          | 0          | 74             | 0            | 0             | 305                |
| Washington University     | 133,210        | 112           | 0         | 3,125                          | 0                                      | 0            | 2,022        | 50         | 117,410        | 3,862        | 6,541         | 88                 |
| <b>Montana. total</b>     | <b>24,358</b>  | <b>5,162</b>  | <b>0</b>  | <b>929</b>                     | <b>0</b>                               | <b>695</b>   | <b>936</b>   | <b>457</b> | <b>3,339</b>   | <b>883</b>   | <b>10,905</b> | <b>1,052</b>       |
| Blackfeet Community Col   | 1              | 0             | 0         | 0                              | 0                                      | 0            | 0            | 0          | 0              | 0            | 0             | 1                  |
| Carroll College MT        | 8              | 8             | 0         | 0                              | 0                                      | 0            | 0            | 0          | 0              | 0            | 0             | 0                  |
| MT State U Billings       | 43             | 0             | 0         | 0                              | 0                                      | 0            | 0            | 0          | 0              | 33           | 10            | 0                  |
| MT State U Bozeman        | 15,587         | 4,381         | 0         | 929                            | 0                                      | 65           | 46           | 336        | 1,849          | 334          | 7,151         | 496                |
| MT Tech U of MT           | 141            | 8             | 0         | 0                              | 0                                      | 0            | 0            | 0          | 0              | 0            | 59            | 74                 |
| Montana U Sys Sys Off     | 2,187          | 662           | 0         | 0                              | 0                                      | 0            | 0            | 0          | 0              | 0            | 1,525         | 0                  |
| Salish Kootenai College   | 2              | 0             | 0         | 0                              | 0                                      | 0            | 0            | 0          | 0              | 0            | 0             | 2                  |
| University of Montana     | 6,389          | 103           | 0         | 0                              | 0                                      | 630          | 890          | 121        | 1,490          | 516          | 2,160         | 479                |
| <b>Nebraska. total</b>    | <b>41,077</b>  | <b>8,702</b>  | <b>0</b>  | <b>1,308</b>                   | <b>0</b>                               | <b>223</b>   | <b>1,016</b> | <b>357</b> | <b>19,086</b>  | <b>888</b>   | <b>9,231</b>  | <b>266</b>         |
| Chadron State College     | 1              | 0             | 0         | 0                              | 0                                      | 0            | 0            | 0          | 0              | 0            | 0             | 1                  |
| Creighton University      | 4,336          | 0             | 0         | 0                              | 0                                      | 127          | 105          | 0          | 3,687          | 0            | 417           | 0                  |
| Doane College             | 99             | 0             | 0         | 0                              | 0                                      | 0            | 0            | 0          | 0              | 0            | 99            | 0                  |
| Peru State College        | 20             | 0             | 0         | 0                              | 0                                      | 0            | 0            | 0          | 20             | 0            | 0             | 0                  |

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[Dollars in thousands]

| State and institution           | Total   | USDA  | Com   | DoD re-<br>search <sup>1</sup> | DoD devel-<br>opment <sup>1</sup> | Ed    | DOE    | EPA   | HHS    | NASA   | NSF    | Other <sup>2</sup> |
|---------------------------------|---------|-------|-------|--------------------------------|-----------------------------------|-------|--------|-------|--------|--------|--------|--------------------|
| Nebraska, continued:            |         |       |       |                                |                                   |       |        |       |        |        |        |                    |
| U NE Ctrl Admin Sys Off .....   | 707     | 150   | 0     | 0                              | 0                                 | 0     | 533    | 0     | 0      | 0      | 0      | 24                 |
| U Nebraska Lincoln .....        | 23,205  | 8,552 | 0     | 1,308                          | 0                                 | 96    | 128    | 357   | 3,198  | 860    | 8,465  | 241                |
| U Nebraska Med Ctr Omaha .....  | 12,241  | 0     | 0     | 0                              | 0                                 | 0     | 0      | 0     | 12,131 | 0      | 110    | 0                  |
| U Nebraska Omaha .....          | 468     | 0     | 0     | 0                              | 0                                 | 0     | 250    | 0     | 50     | 28     | 140    | 0                  |
| Nevada, total .....             | 24,865  | 1,733 | 658   | 685                            | 0                                 | 0     | 3,637  | 6,084 | 6,296  | 573    | 3,539  | 1,660              |
| Cmty Col Southern Nevada .....  | 80      | 0     | 0     | 0                              | 0                                 | 0     | 65     | 0     | 0      | 0      | 0      | 15                 |
| Desert Research Institute ..... | 7,484   | 20    | 0     | 0                              | 0                                 | 0     | 2,130  | 3,781 | 0      | 333    | 1,190  | 30                 |
| U & Cmty Col NV Sys Off .....   | 623     | 0     | 598   | 0                              | 0                                 | 0     | 0      | 0     | 0      | 0      | 0      | 25                 |
| U Nevada Las Vegas .....        | 4,765   | 274   | 0     | 485                            | 0                                 | 0     | 1,110  | 1,907 | 460    | 10     | 405    | 114                |
| U Nevada Reno .....             | 11,913  | 1,439 | 60    | 200                            | 0                                 | 0     | 332    | 396   | 5,836  | 230    | 1,944  | 1,476              |
| New Hampshire, total .....      | 62,959  | 2,609 | 764   | 3,551                          | 0                                 | 190   | 1,569  | 1,310 | 33,533 | 10,323 | 8,821  | 289                |
| Colby-Sawyer College .....      | 101     | 0     | 0     | 0                              | 0                                 | 0     | 0      | 0     | 101    | 0      | 0      | 0                  |
| Dartmouth College .....         | 41,349  | 321   | 317   | 3,065                          | 0                                 | 0     | 742    | 223   | 30,363 | 872    | 5,436  | 10                 |
| Franklin Pierce Law Ctr .....   | 7       | 0     | 0     | 0                              | 0                                 | 0     | 7      | 0     | 0      | 0      | 0      | 0                  |
| Notre Dame College NH .....     | 40      | 0     | 0     | 0                              | 0                                 | 40    | 0      | 0     | 0      | 0      | 0      | 0                  |
| U New Hampshire .....           | 21,342  | 2,288 | 447   | 486                            | 0                                 | 150   | 820    | 1,087 | 3,069  | 9,451  | 3,385  | 159                |
| U System of NH Sys Off .....    | 120     | 0     | 0     | 0                              | 0                                 | 0     | 0      | 0     | 0      | 0      | 0      | 120                |
| New Jersey, total .....         | 187,236 | 4,704 | 1,163 | 33,424                         | 1,194                             | 2,328 | 10,943 | 5,375 | 77,177 | 6,443  | 37,104 | 7,381              |
| Drew University .....           | 14      | 0     | 0     | 0                              | 0                                 | 0     | 0      | 0     | 0      | 0      | 14     | 0                  |
| Essex County College .....      | 160     | 0     | 0     | 0                              | 0                                 | 160   | 0      | 0     | 0      | 0      | 0      | 0                  |
| Fairleigh Dickinson U .....     | 34      | 0     | 0     | 0                              | 0                                 | 0     | 0      | 0     | 0      | 0      | 34     | 0                  |
| Monmouth College NJ .....       | 2,372   | 0     | 0     | 2,300                          | 0                                 | 0     | 0      | 0     | 0      | 0      | 72     | 0                  |
| NJ Inst of Technology .....     | 8,121   | 0     | 0     | 990                            | 496                               | 210   | 104    | 3,972 | 0      | 0      | 1,799  | 550                |
| Passaic County Cmty Col .....   | 108     | 0     | 0     | 0                              | 0                                 | 108   | 0      | 0     | 0      | 0      | 0      | 0                  |
| Princeton University .....      | 59,871  | 0     | 296   | 14,280                         | 40                                | 0     | 6,866  | 155   | 14,626 | 4,305  | 19,208 | 95                 |
| R Stockton State Col NJ .....   | 6       | 0     | 6     | 0                              | 0                                 | 3     | 0      | 0     | 0      | 0      | 0      | 0                  |
| Raritan Valley Cmty Col .....   | 112     | 0     | 0     | 0                              | 0                                 | 0     | 0      | 0     | 0      | 0      | 112    | 0                  |
| Rutgers the St U of NJ .....    | 70,059  | 4,704 | 861   | 14,063                         | 433                               | 1,503 | 3,611  | 679   | 22,452 | 1,692  | 13,350 | 6,711              |
| Seton Hall University .....     | 1,049   | 0     | 0     | 0                              | 0                                 | 148   | 0      | 229   | 607    | 0      | 65     | 0                  |
| Stevens Institute of Tech ..... | 3,387   | 0     | 0     | 1,710                          | 225                               | 0     | 297    | 0     | 0      | 84     | 1,046  | 25                 |
| Trenton State College .....     | 79      | 0     | 0     | 0                              | 0                                 | 0     | 0      | 0     | 0      | 0      | 79     | 0                  |
| U Med & Dent of NJ .....        | 41,788  | 0     | 0     | 81                             | 0                                 | 199   | 65     | 340   | 39,416 | 362    | 1,325  | 0                  |
| William Paterson College .....  | 76      | 0     | 0     | 0                              | 0                                 | 0     | 0      | 0     | 76     | 0      | 0      | 0                  |
| New Mexico, total .....         | 112,115 | 3,702 | 59    | 38,466                         | 9,568                             | 201   | 7,859  | 202   | 15,483 | 24,249 | 10,835 | 1,491              |
| College of Santa Fe .....       | 80      | 0     | 0     | 0                              | 0                                 | 0     | 0      | 0     | 0      | 0      | 0      | 80                 |
| Eastern New Mexico U .....      | 29      | 0     | 0     | 29                             | 0                                 | 0     | 0      | 0     | 0      | 0      | 0      | 0                  |
| NM Inst Mining & Tech .....     | 8,349   | 150   | 0     | 5,283                          | 57                                | 0     | 1,247  | 0     | 0      | 49     | 966    | 597                |
| New Mexico Highlands U .....    | 557     | 0     | 0     | 209                            | 0                                 | 164   | 0      | 0     | 0      | 28     | 156    | 0                  |
| New Mexico State U .....        | 47,265  | 3,552 | 59    | 4,755                          | 6,576                             | 0     | 4,973  | 62    | 2,135  | 21,210 | 3,208  | 735                |
| San Juan College .....          | 8       | 0     | 0     | 0                              | 0                                 | 0     | 0      | 0     | 0      | 0      | 0      | 8                  |
| University of New Mexico .....  | 53,827  | 0     | 0     | 28,190                         | 2,935                             | 37    | 1,639  | 140   | 13,348 | 2,962  | 6,505  | 71                 |

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[Dollars in thousands]

| State and institution     | Total   | USDA   | Com   | DoD re-<br>search <sup>1</sup> | DoD devel-<br>op-<br>ment <sup>1</sup> | Ed    | DOE    | EPA    | HHS     | NASA   | NSF     | Other <sup>2</sup> |
|---------------------------|---------|--------|-------|--------------------------------|--|-------|--------|--------|---------|--------|---------|--------------------|
| New York, total           | 941,509 | 15,677 | 1,547 | 62,652                         | 2,945                                  | 1,492 | 59,686 | 13,899 | 596,756 | 25,936 | 155,181 | 5,738              |
| Adelphi University        | 152     | 0      | 0     | 0                              | 0                                      | 0     | 0      | 0      | 152     | 0      | 0       | 0                  |
| Albany Col of Pharmacy    | 94      | 0      | 0     | 0                              | 0                                      | 0     | 0      | 0      | 94      | 0      | 0       | 0                  |
| Albany Medical College    | 7,661   | 0      | 0     | 0                              | 0                                      | 0     | 0      | 150    | 7,511   | 0      | 0       | 0                  |
| Alfred University         | 1,096   | 0      | 62    | 469                            | 0                                      | 0     | 276    | 0      | 0       | 0      | 289     | 0                  |
| Bank Street Col of Ed     | 74      | 0      | 0     | 0                              | 0                                      | 0     | 0      | 0      | 0       | 0      | 74      | 0                  |
| Barnard College           | 984     | 0      | 0     | 93                             | 0                                      | 0     | 0      | 0      | 714     | 0      | 177     | 0                  |
| CUNY Bernard Baruch Col   | 398     | 0      | 0     | 379                            | 0                                      | 0     | 0      | 0      | 0       | 0      | 19      | 0                  |
| CUNY Bronx Cmty College   | 324     | 0      | 0     | 0                              | 0                                      | 0     | 0      | 0      | 324     | 0      | 0       | 0                  |
| CUNY Brooklyn College     | 1,259   | 0      | 0     | 0                              | 0                                      | 0     | 127    | 0      | 484     | 50     | 598     | 0                  |
| CUNY City College         | 9,844   | 0      | 0     | 1,200                          | 0                                      | 0     | 719    | 100    | 2,344   | 415    | 4,166   | 900                |
| CUNY Col Staten Island    | 349     | 0      | 0     | 0                              | 0                                      | 0     | 35     | 0      | 269     | 40     | 5       | 0                  |
| CUNY Grad Schl & U Ctr    | 2,431   | 0      | 0     | 12                             | 0                                      | 0     | 0      | 0      | 1,603   | 0      | 816     | 0                  |
| CUNY H H Lehman College   | 1,261   | 0      | 0     | 0                              | 0                                      | 0     | 35     | 0      | 274     | 0      | 952     | 0                  |
| CUNY Hostos Cmty College  | 59      | 0      | 0     | 0                              | 0                                      | 0     | 0      | 0      | 0       | 0      | 59      | 0                  |
| CUNY Hunter College       | 3,891   | 0      | 0     | 546                            | 0                                      | 0     | 0      | 0      | 2,534   | 0      | 811     | 0                  |
| CUNY J Jay Col Crim Just  | 138     | 0      | 0     | 0                              | 0                                      | 0     | 0      | 0      | 0       | 0      | 138     | 0                  |
| CUNY Laguardia Cmty Col   | 310     | 0      | 0     | 0                              | 0                                      | 0     | 0      | 0      | 310     | 0      | 0       | 0                  |
| CUNY Mt Sinai Schl of Med | 43,638  | 0      | 0     | 0                              | 0                                      | 0     | 95     | 0      | 42,977  | 384    | 182     | 0                  |
| CUNY NY City Tech Col     | 333     | 0      | 0     | 0                              | 0                                      | 0     | 233    | 0      | 0       | 0      | 100     | 0                  |
| CUNY Queens College       | 1,646   | 0      | 0     | 362                            | 0                                      | 0     | 92     | 0      | 877     | 0      | 315     | 0                  |
| CUNY Queensboro Cmty Col  | 303     | 0      | 0     | 0                              | 0                                      | 0     | 0      | 0      | 0       | 0      | 303     | 0                  |
| CUNY System Office        | 3,080   | 0      | 0     | 1,795                          | 0                                      | 0     | 0      | 0      | 0       | 132    | 1,153   | 0                  |
| Clarkson University       | 5,389   | 0      | 0     | 1,151                          | 0                                      | 0     | 327    | 174    | 302     | 1,981  | 1,454   | 0                  |
| Colgate University        | 662     | 0      | 0     | 0                              | 0                                      | 0     | 0      | 0      | 183     | 0      | 479     | 0                  |
| College of St Rose        | 117     | 0      | 0     | 0                              | 0                                      | 0     | 0      | 0      | 0       | 0      | 117     | 0                  |
| Columbia U Central Off    | 710     | 0      | 0     | 0                              | 0                                      | 0     | 0      | 0      | 710     | 0      | 0       | 0                  |
| Columbia U City New York  | 194,910 | 10     | 1,377 | 9,272                          | 0                                      | 0     | 15,589 | 10,091 | 120,682 | 6,446  | 30,549  | 894                |
| Cooper Union              | 150     | 0      | 0     | 0                              | 0                                      | 0     | 0      | 0      | 0       | 50     | 100     | 0                  |
| Cornell University        | 174,226 | 13,009 | 108   | 17,201                         | 455                                    | 0     | 4,727  | 245    | 77,280  | 7,300  | 53,066  | 835                |
| D'Youville College        | 28      | 0      | 0     | 0                              | 0                                      | 28    | 0      | 0      | 0       | 0      | 0       | 0                  |
| Elmira College            | 226     | 0      | 0     | 0                              | 0                                      | 0     | 0      | 0      | 0       | 0      | 226     | 0                  |
| Fordham University        | 2,256   | 0      | 0     | 0                              | 0                                      | 0     | 0      | 0      | 1,707   | 0      | 549     | 0                  |
| Hamilton College          | 106     | 0      | 0     | 0                              | 0                                      | 0     | 0      | 0      | 0       | 0      | 106     | 0                  |
| Hartwick College          | 38      | 0      | 0     | 0                              | 0                                      | 0     | 0      | 0      | 0       | 0      | 38      | 0                  |
| Hobart Wm Smith Colleges  | 15      | 0      | 0     | 0                              | 0                                      | 0     | 0      | 0      | 0       | 0      | 15      | 0                  |
| Hofstra University        | 592     | 0      | 0     | 0                              | 0                                      | 0     | 0      | 0      | 137     | 101    | 354     | 0                  |
| Iona College              | 158     | 0      | 0     | 0                              | 0                                      | 28    | 0      | 0      | 0       | 0      | 130     | 0                  |
| Ithaca College            | 676     | 0      | 0     | 0                              | 0                                      | 0     | 0      | 0      | 0       | 0      | 676     | 0                  |
| Long Island University    | 272     | 0      | 0     | 0                              | 0                                      | 0     | 0      | 0      | 0       | 0      | 272     | 0                  |
| Manhattan College         | 269     | 0      | 0     | 0                              | 0                                      | 0     | 0      | 189    | 0       | 0      | 80      | 0                  |
| New School Social Rsch    | 216     | 0      | 0     | 0                              | 0                                      | 0     | 0      | 0      | 176     | 0      | 40      | 0                  |
| New York Inst Technology  | 453     | 0      | 0     | 375                            | 0                                      | 0     | 0      | 0      | 78      | 0      | 0       | 0                  |

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|---------------------------------|--------|-------|-----|----------------------------|--------------------------------|-------|--------|-------|--------|-------|--------|--------------------|
| New York, continued.            |        |       |     |                            |                                |       |        |       |        |       |        |                    |
| New York Medical College .....  | 14,513 | 156   | 0   | 0                          | 0                              | 1,055 | 0      | 0     | 13,203 | 0     | 99     | 0                  |
| New York University .....       | 77,694 | 70    | 0   | 4,778                      | 0                              | 150   | 3,799  | 1,018 | 62,606 | 359   | 4,914  | 0                  |
| Niagara University .....        | 97     | 0     | 0   | 0                          | 0                              | 0     | 0      | 0     | 66     | 31    | 0      | 0                  |
| Pace University .....           | 324    | 0     | 0   | 0                          | 0                              | 0     | 39     | 0     | 285    | 0     | 0      | 0                  |
| Polytechnic University .....    | 6,216  | 0     | 0   | 2,759                      | 174                            | 0     | 402    | 0     | 0      | 466   | 2,415  | 0                  |
| Pratt Institute .....           | 4      | 0     | 0   | 0                          | 0                              | 0     | 0      | 0     | 0      | 0     | 4      | 0                  |
| Rensselaer Polytech Inst .....  | 21,296 | 215   | 0   | 7,535                      | 411                            | 0     | 2,426  | 545   | 1,117  | 2,012 | 6,925  | 110                |
| Rochester Inst Technology ..... | 1,033  | 0     | 0   | 0                          | 0                              | 0     | 0      | 0     | 800    | 38    | 195    | 0                  |
| Rockefeller University .....    | 35,184 | 0     | 0   | 364                        | 56                             | 0     | 1,101  | 120   | 32,720 | 41    | 782    | 0                  |
| Russell Sage College .....      | 119    | 0     | 0   | 0                          | 0                              | 0     | 0      | 0     | 0      | 0     | 119    | 0                  |
| SUNY Col Brockport .....        | 559    | 0     | 0   | 0                          | 0                              | 0     | 0      | 0     | 0      | 0     | 559    | 0                  |
| SUNY Col Buffalo .....          | 693    | 0     | 0   | 0                          | 0                              | 0     | 0      | 0     | 512    | 95    | 86     | 0                  |
| SUNY Col Cortland .....         | 114    | 0     | 0   | 0                          | 0                              | 0     | 0      | 0     | 0      | 0     | 114    | 0                  |
| SUNY Col Env Sci & Forest ..... | 555    | 448   | 0   | 0                          | 0                              | 0     | 0      | 0     | 0      | 0     | 107    | 0                  |
| SUNY Col Geneseo .....          | 190    | 0     | 0   | 0                          | 0                              | 0     | 0      | 0     | 0      | 0     | 190    | 0                  |
| SUNY Col Old Westbury .....     | 418    | 0     | 0   | 0                          | 0                              | 0     | 0      | 0     | 0      | 0     | 418    | 0                  |
| SUNY Col Oneonta .....          | 50     | 0     | 0   | 0                          | 0                              | 0     | 0      | 0     | 0      | 0     | 50     | 0                  |
| SUNY Col Oswego .....           | 154    | 0     | 0   | 0                          | 0                              | 0     | 0      | 0     | 0      | 0     | 154    | 0                  |
| SUNY Col Plattsburgh .....      | 235    | 0     | 0   | 0                          | 0                              | 0     | 0      | 0     | 199    | 36    | 0      | 0                  |
| SUNY Col Tech Delhi .....       | 63     | 0     | 0   | 0                          | 0                              | 0     | 0      | 0     | 0      | 0     | 63     | 0                  |
| SUNY Col of Optometry .....     | 166    | 0     | 0   | 0                          | 0                              | 0     | 0      | 0     | 166    | 0     | 0      | 0                  |
| SUNY Dutchess Cmty Col .....    | 115    | 0     | 0   | 0                          | 0                              | 0     | 0      | 0     | 0      | 0     | 115    | 0                  |
| SUNY Fashion Inst Tech .....    | 919    | 0     | 0   | 0                          | 884                            | 0     | 0      | 0     | 0      | 0     | 35     | 0                  |
| SUNY Hlth Sci Ctr Brookly ..... | 13,321 | 0     | 0   | 0                          | 0                              | 0     | 0      | 0     | 13,064 | 0     | 257    | 0                  |
| SUNY Hlth Sci Ctr Syracus ..... | 7,850  | 0     | 0   | 0                          | 0                              | 0     | 327    | 0     | 7,363  | 0     | 160    | 0                  |
| SUNY Inst Tech Utica Rome ..... | 109    | 0     | 0   | 0                          | 0                              | 0     | 0      | 0     | 0      | 0     | 109    | 0                  |
| SUNY Maritime College .....     | 1,310  | 0     | 0   | 0                          | 0                              | 0     | 1,310  | 0     | 0      | 0     | 0      | 0                  |
| SUNY Nassau Cmty College .....  | 55     | 0     | 0   | 0                          | 0                              | 0     | 0      | 0     | 0      | 0     | 55     | 0                  |
| SUNY Purchase Col .....         | 120    | 0     | 0   | 0                          | 0                              | 0     | 0      | 0     | 0      | 55    | 65     | 0                  |
| SUNY Suffolk Co Cmty Col .....  | 150    | 0     | 0   | 0                          | 0                              | 0     | 0      | 0     | 0      | 0     | 150    | 0                  |
| SUNY System Office .....        | 7,863  | 0     | 0   | 4,488                      | 38                             | 0     | 0      | 0     | 230    | 0     | 265    | 2,842              |
| SUNY at Albany .....            | 14,024 | 1,106 | 0   | 462                        | 0                              | 0     | 307    | 577   | 7,617  | 999   | 2,954  | 2                  |
| SUNY at Binghamton .....        | 4,392  | 100   | 0   | 182                        | 50                             | 0     | 43     | 0     | 1,217  | 306   | 2,384  | 110                |
| SUNY at Buffalo .....           | 31,355 | 351   | 0   | 557                        | 0                              | 0     | 730    | 545   | 23,697 | 384   | 5,091  | 0                  |
| SUNY at Stony Brook .....       | 58,590 | 14    | 0   | 3,437                      | 0                              | 0     | 5,362  | 145   | 32,222 | 2,205 | 15,185 | 20                 |
| Siena College .....             | 253    | 120   | 0   | 0                          | 0                              | 0     | 0      | 0     | 0      | 0     | 133    | 0                  |
| St Johns University NY .....    | 874    | 0     | 0   | 0                          | 0                              | 0     | 0      | 0     | 874    | 0     | 0      | 0                  |
| St Lawrence University .....    | 9      | 0     | 0   | 0                          | 0                              | 0     | 0      | 0     | 0      | 0     | 9      | 0                  |
| Syracuse University .....       | 14,010 | 25    | 0   | 798                        | 627                            | 0     | 1,236  | 0     | 7,140  | 468   | 3,691  | 25                 |
| Teachers Col Columbia U .....   | 1,533  | 0     | 0   | 0                          | 0                              | 231   | 0      | 0     | 1,302  | 0     | 0      | 0                  |
| U State of NY Regents Col ..... | 157    | 0     | 0   | 0                          | 0                              | 0     | 157    | 0     | 0      | 0     | 0      | 0                  |
| Union College NY .....          | 45     | 0     | 0   | 0                          | 0                              | 0     | 0      | 0     | 0      | 0     | 45     | 0                  |
| University of Rochester .....   | 98,935 | 53    | 0   | 3,996                      | 250                            | 0     | 20,192 | 0     | 64,882 | 1,542 | 8,020  | 0                  |
| Vassar College .....            | 422    | 0     | 0   | 124                        | 0                              | 0     | 0      | 0     | 0      | 0     | 298    | 0                  |
| Yeshiva University NY .....     | 64,627 | 0     | 0   | 317                        | 0                              | 0     | 0      | 0     | 63,752 | 0     | 558    | 0                  |

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**Table 4. Federal obligations for science and engineering research and development to universities and colleges, by State, institution, and agency: fiscal year 1993**

[Dollars in thousands]

| State and institution     | Total   | USDA   | Com   | DoD re-<br>search <sup>1</sup> | DoD devel-<br>opment <sup>1</sup> | Ed    | DOE   | EPA    | HHS     | NASA   | NSF    | Other <sup>2</sup> |
|---------------------------|---------|--------|-------|--------------------------------|-----------------------------------|-------|-------|--------|---------|--------|--------|--------------------|
| North Carolina. total     | 385,188 | 15,120 | 3,433 | 22,446                         | 1,361                             | 4,392 | 9,356 | 10,553 | 266,096 | 6,191  | 40,656 | 5,584              |
| Appalachian St University | 298     | 0      | 0     | 0                              | 0                                 | 0     | 0     | 0      | 0       | 34     | 264    | 0                  |
| Barber Scotia College     | 238     | 0      | 0     | 0                              | 0                                 | 24    | 18    | 0      | 0       | 0      | 196    | 0                  |
| Bennett College NC        | 206     | 0      | 0     | 0                              | 0                                 | 0     | 0     | 0      | 0       | 0      | 206    | 0                  |
| Chowan College            | 34      | 0      | 0     | 0                              | 0                                 | 0     | 0     | 0      | 0       | 0      | 34     | 0                  |
| Davidson College          | 247     | 0      | 0     | 0                              | 0                                 | 0     | 0     | 0      | 167     | 0      | 80     | 0                  |
| Duke University           | 138,839 | 745    | 0     | 6,131                          | 630                               | 0     | 5,015 | 1,967  | 110,720 | 552    | 12,689 | 390                |
| East Carolina University  | 4,998   | 0      | 87    | 910                            | 0                                 | 0     | 0     | 0      | 3,191   | 48     | 742    | 20                 |
| Elizabeth City State U    | 257     | 0      | 0     | 0                              | 0                                 | 207   | 0     | 0      | 0       | 0      | 50     | 0                  |
| Fayetteville State U      | 112     | 0      | 0     | 0                              | 0                                 | 0     | 0     | 0      | 0       | 0      | 112    | 0                  |
| Guilford College          | 32      | 0      | 0     | 0                              | 0                                 | 0     | 0     | 0      | 0       | 32     | 0      | 0                  |
| Haywood Cmty College      | 17      | 17     | 0     | 0                              | 0                                 | 0     | 0     | 0      | 0       | 0      | 0      | 0                  |
| Livingstone College       | 306     | 0      | 0     | 0                              | 0                                 | 306   | 0     | 0      | 0       | 0      | 0      | 0                  |
| NC Ag & Tech State U      | 11,284  | 2,799  | 0     | 3,858                          | 573                               | 0     | 306   | 0      | 42      | 1,811  | 673    | 1,222              |
| NC State U Raleigh        | 50,661  | 10,692 | 1,292 | 6,665                          | 158                               | 655   | 2,497 | 3,343  | 6,074   | 3,203  | 14,826 | 1,256              |
| North Carolina Central U  | 521     | 0      | 0     | 276                            | 0                                 | 0     | 0     | 0      | 165     | 0      | 0      | 80                 |
| Shaw University           | 74      | 20     | 0     | 54                             | 0                                 | 0     | 0     | 0      | 0       | 0      | 0      | 0                  |
| U NC Asheville            | 193     | 2      | 0     | 0                              | 0                                 | 0     | 25    | 0      | 0       | 43     | 123    | 0                  |
| U NC Chapel Hill          | 129,071 | 796    | 41    | 3,598                          | 0                                 | 1,289 | 1,381 | 5,146  | 107,472 | 269    | 8,751  | 328                |
| U NC Charlotte            | 1,987   | 0      | 222   | 736                            | 0                                 | 0     | 114   | 40     | 0       | 139    | 736    | 0                  |
| U NC General Admin Off    | 2,356   | 0      | 68    | 0                              | 0                                 | 0     | 0     | 0      | 0       | 0      | 0      | 2,288              |
| U NC Greensboro           | 3,057   | 19     | 0     | 74                             | 0                                 | 1,598 | 0     | 57     | 1,075   | 0      | 234    | 0                  |
| U NC Wilmington           | 2,289   | 0      | 1,502 | 79                             | 0                                 | 0     | 0     | 0      | 173     | 0      | 535    | 0                  |
| Wake Forest University    | 37,768  | 0      | 221   | 65                             | 0                                 | 0     | 0     | 0      | 37,017  | 60     | 405    | 0                  |
| Western Carolina U        | 343     | 30     | 0     | 0                              | 0                                 | 313   | 0     | 0      | 0       | 0      | 0      | 0                  |
| North Dakota. total       | 20,995  | 8,867  | 0     | 1,000                          | 287                               | 136   | 5,390 | 1,600  | 2,294   | 62     | 870    | 489                |
| Jamestown College         | 136     | 0      | 0     | 0                              | 0                                 | 136   | 0     | 0      | 0       | 0      | 0      | 0                  |
| Mayville State University | 342     | 0      | 0     | 0                              | 0                                 | 0     | 0     | 0      | 342     | 0      | 0      | 0                  |
| Minot State University    | 292     | 0      | 0     | 0                              | 0                                 | 0     | 0     | 0      | 292     | 0      | 0      | 0                  |
| North Dakota State U      | 9,752   | 7,234  | 0     | 1,000                          | 88                                | 0     | 0     | 0      | 544     | 0      | 526    | 360                |
| University of N Dakota    | 10,473  | 1,633  | 0     | 0                              | 199                               | 0     | 5,390 | 1,600  | 1,116   | 62     | 344    | 129                |
| Ohio. total               | 307,347 | 10,566 | 903   | 44,017                         | 10,957                            | 1,003 | 6,605 | 4,962  | 165,421 | 22,462 | 34,474 | 5,977              |
| Antioch University        | 160     | 0      | 0     | 0                              | 0                                 | 160   | 0     | 0      | 0       | 0      | 0      | 0                  |
| Baldwin Wallace College   | 123     | 0      | 0     | 0                              | 0                                 | 0     | 0     | 0      | 0       | 123    | 0      | 0                  |
| Bowling Green State U     | 1,758   | 0      | 0     | 201                            | 0                                 | 0     | 0     | 206    | 465     | 0      | 866    | 20                 |
| Case Western Reserve U    | 89,608  | 252    | 0     | 4,192                          | 250                               | 88    | 602   | 0      | 72,040  | 6,441  | 5,683  | 60                 |
| Central State U OH        | 1,139   | 0      | 0     | 596                            | 262                               | 0     | 24    | 0      | 0       | 253    | 0      | 4                  |
| Cincinnati Col Mort Sci   | 216     | 0      | 0     | 0                              | 0                                 | 216   | 0     | 0      | 0       | 0      | 0      | 0                  |
| Cleveland State U         | 3,815   | 0      | 0     | 0                              | 0                                 | 0     | 0     | 0      | 732     | 3,025  | 58     | 0                  |
| College of Wooster        | 137     | 0      | 0     | 0                              | 0                                 | 0     | 0     | 0      | 0       | 120    | 17     | 0                  |
| Cuyahoga Cmty Col         | 436     | 0      | 0     | 0                              | 0                                 | 39    | 0     | 91     | 0       | 306    | 0      | 0                  |
| Denison University        | 104     | 6      | 0     | 0                              | 0                                 | 0     | 47    | 0      | 0       | 51     | 0      | 0                  |
| Heidelberg College        | 20      | 0      | 0     | 0                              | 0                                 | 0     | 0     | 0      | 0       | 20     | 0      | 0                  |

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[Dollars in thousands]

| State and institution           | Total   | USDA   | Com | DoD re-search <sup>1</sup> | DoD devel-opment <sup>1</sup> | Ed    | DOE   | EPA   | HHS    | NASA  | NSF    | Other <sup>2</sup> |
|---------------------------------|---------|--------|-----|----------------------------|-------------------------------|-------|-------|-------|--------|-------|--------|--------------------|
| Ohio, continued:                |         |        |     |                            |                               |       |       |       |        |       |        |                    |
| John Carroll University .....   | 303     | 0      | 0   | 0                          | 0                             | 0     | 0     | 0     | 0      | 259   | 44     | 0                  |
| Kent State University .....     | 4,766   | 0      | 0   | 214                        | 0                             | 0     | 207   | 0     | 628    | 413   | 3,304  | 0                  |
| Kenyon College .....            | 245     | 0      | 0   | 0                          | 0                             | 0     | 0     | 0     | 101    | 50    | 94     | 0                  |
| Lorain County Cmty Col .....    | 20      | 0      | 0   | 0                          | 0                             | 0     | 0     | 0     | 0      | 20    | 0      | 0                  |
| Marietta College .....          | 16      | 0      | 0   | 0                          | 0                             | 0     | 0     | 0     | 0      | 0     | 16     | 0                  |
| Medical College OH Toledo ..... | 7,256   | 0      | 0   | 250                        | 0                             | 0     | 0     | 0     | 6,652  | 0     | 354    | 0                  |
| Miami University OH .....       | 3,056   | 425    | 0   | 0                          | 0                             | 340   | 39    | 249   | 619    | 0     | 1,377  | 7                  |
| N E Ohio U Col of Med .....     | 1,011   | 0      | 0   | 0                          | 0                             | 0     | 0     | 0     | 1,011  | 0     | 0      | 0                  |
| Oberlin College .....           | 1,076   | 0      | 0   | 0                          | 0                             | 0     | 0     | 0     | 409    | 0     | 667    | 0                  |
| Ohio Northern University .....  | 51      | 0      | 0   | 0                          | 0                             | 0     | 0     | 0     | 0      | 0     | 51     | 0                  |
| Ohio State University .....     | 84,121  | 9,745  | 891 | 5,838                      | 70                            | 0     | 4,351 | 276   | 36,459 | 4,495 | 16,110 | 5,886              |
| Ohio University .....           | 2,791   | 110    | 12  | 373                        | 0                             | 0     | 573   | 51    | 545    | 404   | 723    | 0                  |
| Ohio Wesleyan University .....  | 200     | 0      | 0   | 66                         | 0                             | 0     | 0     | 0     | 0      | 0     | 134    | 0                  |
| Sinclair Community Col .....    | 87      | 0      | 0   | 0                          | 0                             | 0     | 0     | 0     | 0      | 0     | 87     | 0                  |
| University of Akron .....       | 3,302   | 23     | 0   | 310                        | 0                             | 160   | 0     | 0     | 624    | 1,369 | 816    | 0                  |
| University of Cincinnati .....  | 51,936  | 0      | 0   | 3,523                      | 210                           | 0     | 637   | 3,684 | 38,841 | 2,171 | 2,870  | 0                  |
| University of Dayton .....      | 37,065  | 0      | 0   | 26,072                     | 9,979                         | 0     | 0     | 370   | 87     | 338   | 219    | 0                  |
| University of Toledo .....      | 3,096   | 0      | 0   | 94                         | 0                             | 0     | 125   | 0     | 478    | 2,101 | 298    | 0                  |
| Wilberforce University .....    | 433     | 5      | 0   | 0                          | 0                             | 0     | 0     | 0     | 0      | 428   | 0      | 0                  |
| Wittenberg University .....     | 25      | 0      | 0   | 0                          | 0                             | 0     | 0     | 0     | 0      | 25    | 0      | 0                  |
| Wright State University .....   | 8,788   | 0      | 0   | 2,288                      | 186                           | 0     | 0     | 35    | 5,543  | 50    | 686    | 0                  |
| Xavier University OH .....      | 122     | 0      | 0   | 0                          | 0                             | 0     | 0     | 0     | 122    | 0     | 0      | 0                  |
| Youngstown St University .....  | 65      | 0      | 0   | 0                          | 0                             | 0     | 0     | 0     | 65     | 0     | 0      | 0                  |
| Oklahoma, total .....           | 45,077  | 7,084  | 0   | 3,187                      | 2,100                         | 902   | 6,572 | 1,091 | 14,477 | 400   | 8,305  | 959                |
| Cameron University .....        | 50      | 0      | 0   | 50                         | 0                             | 0     | 0     | 0     | 0      | 0     | 0      | 0                  |
| Carl Albert State Col .....     | 200     | 0      | 0   | 0                          | 0                             | 200   | 0     | 0     | 0      | 0     | 0      | 0                  |
| East Central University .....   | 113     | 0      | 0   | 0                          | 0                             | 0     | 0     | 113   | 0      | 0     | 0      | 0                  |
| Langston University .....       | 1,589   | 1,582  | 0   | 0                          | 0                             | 0     | 7     | 0     | 0      | 0     | 0      | 0                  |
| Northeastern State U .....      | 25      | 0      | 0   | 0                          | 0                             | 0     | 0     | 0     | 25     | 0     | 0      | 0                  |
| Oklahoma State University ..... | 14,777  | 5,250  | 0   | 1,830                      | 2,100                         | 0     | 384   | 429   | 1,237  | 0     | 3,334  | 213                |
| Redlands Cmty College .....     | 9       | 9      | 0   | 0                          | 0                             | 0     | 0     | 0     | 0      | 0     | 0      | 0                  |
| U of Central Oklahoma .....     | 49      | 49     | 0   | 0                          | 0                             | 0     | 0     | 0     | 0      | 0     | 0      | 0                  |
| University of Oklahoma .....    | 25,668  | 145    | 0   | 1,166                      | 0                             | 702   | 4,771 | 518   | 12,976 | 400   | 4,269  | 721                |
| University of Tulsa .....       | 2,597   | 49     | 0   | 141                        | 0                             | 0     | 1,410 | 31    | 239    | 0     | 702    | 25                 |
| Oregon, total .....             | 130,083 | 14,015 | 912 | 13,147                     | 313                           | 3,251 | 5,056 | 3,323 | 57,380 | 3,599 | 24,842 | 4,245              |
| Central Oregon Cmty Col .....   | 593     | 0      | 0   | 0                          | 0                             | 0     | 0     | 0     | 593    | 0     | 0      | 0                  |
| Eastern Oregon St College ..... | 222     | 172    | 0   | 0                          | 0                             | 0     | 0     | 0     | 0      | 0     | 50     | 0                  |
| Linfield College .....          | 191     | 0      | 0   | 151                        | 0                             | 0     | 0     | 0     | 0      | 0     | 40     | 0                  |
| Mount Hood Community Col .....  | 1,268   | 0      | 0   | 0                          | 0                             | 0     | 0     | 0     | 1,268  | 0     | 0      | 0                  |
| Oregon Grad Inst Sci Tech ..... | 10,207  | 0      | 0   | 5,067                      | 285                           | 0     | 609   | 182   | 1,633  | 192   | 2,139  | 100                |
| Oregon Hlth Sciences U .....    | 37,898  | 150    | 0   | 77                         | 0                             | 0     | 0     | 119   | 36,945 | 0     | 607    | 0                  |
| Oregon Institute of Tech .....  | 300     | 0      | 0   | 0                          | 0                             | 0     | 300   | 0     | 0      | 0     | 0      | 0                  |
| Oregon State University .....   | 53,999  | 13,274 | 912 | 6,686                      | 28                            | 0     | 1,311 | 2,856 | 7,066  | 3,085 | 15,267 | 3,514              |

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[Dollars in thousands]

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| State and institution           | Total   | USDA   | Com | DoD re-<br>search <sup>1</sup> | DoD devel-<br>opment <sup>1</sup> | Ed    | DOE    | EPA   | HHS     | NASA   | NSF    | Other <sup>2</sup> |
|---------------------------------|---------|--------|-----|--------------------------------|-----------------------------------|-------|--------|-------|---------|--------|--------|--------------------|
| Oregon, continued:              |         |        |     |                                |                                   |       |        |       |         |        |        |                    |
| Portland State University ..... | 1,848   | 0      | 0   | 0                              | 0                                 | 0     | 110    | 147   | 428     | 0      | 1,163  | 0                  |
| Reed College .....              | 326     | 0      | 0   | 0                              | 0                                 | 0     | 43     | 0     | 0       | 40     | 243    | 0                  |
| Southern Oregon St Col .....    | 89      | 0      | 0   | 0                              | 0                                 | 0     | 0      | 0     | 0       | 39     | 50     | 0                  |
| University of Oregon .....      | 22,756  | 419    | 0   | 1,166                          | 0                                 | 3,095 | 2,562  | 0     | 9,357   | 243    | 5,283  | 631                |
| University of Portland .....    | 140     | 0      | 0   | 0                              | 0                                 | 0     | 121    | 19    | 0       | 0      | 0      | 0                  |
| Western Oregon State Col .....  | 246     | 0      | 0   | 0                              | 0                                 | 156   | 0      | 0     | 90      | 0      | 0      | 0                  |
| Pennsylvania, total .....       | 708,093 | 13,182 | 129 | 119,162                        | 36,098                            | 9,796 | 24,882 | 3,093 | 386,196 | 19,656 | 84,740 | 11,159             |
| Allegheny College .....         | 317     | 0      | 0   | 0                              | 0                                 | 0     | 0      | 0     | 90      | 0      | 227    | 0                  |
| Alvernia College .....          | 22      | 0      | 0   | 0                              | 0                                 | 0     | 0      | 0     | 0       | 0      | 0      | 22                 |
| Beaver College PA .....         | 21      | 0      | 0   | 0                              | 0                                 | 0     | 0      | 0     | 0       | 0      | 21     | 0                  |
| Bryn Mawr College .....         | 695     | 0      | 0   | 0                              | 0                                 | 0     | 0      | 0     | 227     | 0      | 468    | 0                  |
| Bucknell University .....       | 339     | 0      | 0   | 20                             | 0                                 | 0     | 0      | 0     | 68      | 21     | 230    | 0                  |
| California U of PA .....        | 2,042   | 0      | 0   | 0                              | 0                                 | 0     | 0      | 0     | 2,042   | 0      | 0      | 0                  |
| Carlow College .....            | 120     | 0      | 0   | 0                              | 0                                 | 0     | 0      | 0     | 0       | 0      | 120    | 0                  |
| Carnegie Mellon U .....         | 73,474  | 0      | 25  | 28,685                         | 2,009                             | 0     | 6,488  | 422   | 9,459   | 3,813  | 20,697 | 1,876              |
| Chatham College .....           | 40      | 0      | 0   | 0                              | 0                                 | 40    | 0      | 0     | 0       | 0      | 0      | 0                  |
| Chestnut Hill College .....     | 79      | 0      | 0   | 0                              | 0                                 | 0     | 0      | 0     | 0       | 0      | 79     | 0                  |
| Clarion U of PA .....           | 70      | 0      | 0   | 0                              | 0                                 | 0     | 0      | 0     | 0       | 0      | 70     | 0                  |
| Delaware Valley College .....   | 103     | 29     | 0   | 0                              | 0                                 | 0     | 0      | 0     | 0       | 0      | 74     | 0                  |
| Dickinson College .....         | 167     | 0      | 0   | 0                              | 0                                 | 0     | 0      | 0     | 0       | 0      | 167    | 0                  |
| Drexel University .....         | 10,537  | 90     | 0   | 1,958                          | 186                               | 0     | 196    | 486   | 712     | 907    | 5,977  | 25                 |
| Duquesne University .....       | 1,052   | 355    | 0   | 76                             | 0                                 | 0     | 0      | 0     | 311     | 0      | 310    | 0                  |
| Franklin & Marshall Col .....   | 352     | 0      | 0   | 0                              | 0                                 | 0     | 0      | 0     | 0       | 9      | 343    | 0                  |
| Gettysburg College .....        | 281     | 0      | 0   | 0                              | 0                                 | 0     | 0      | 0     | 0       | 0      | 281    | 0                  |
| Haverford College .....         | 344     | 0      | 0   | 0                              | 0                                 | 0     | 0      | 0     | 0       | 0      | 344    | 0                  |
| Indiana U of PA .....           | 249     | 0      | 0   | 0                              | 0                                 | 199   | 0      | 0     | 0       | 0      | 50     | 0                  |
| Juniata College .....           | 400     | 0      | 0   | 0                              | 0                                 | 0     | 0      | 0     | 0       | 0      | 400    | 0                  |
| Kings College PA .....          | 73      | 0      | 0   | 0                              | 0                                 | 0     | 0      | 0     | 0       | 0      | 73     | 0                  |
| Kutztown U of PA .....          | 23      | 0      | 0   | 0                              | 0                                 | 0     | 0      | 0     | 0       | 0      | 23     | 0                  |
| Lafayette College .....         | 406     | 0      | 0   | 0                              | 0                                 | 0     | 0      | 0     | 0       | 37     | 369    | 0                  |
| Lehigh University .....         | 16,247  | 205    | 0   | 4,102                          | 72                                | 0     | 2,654  | 324   | 537     | 363    | 7,265  | 725                |
| Lincoln University PA .....     | 1,232   | 36     | 0   | 1,036                          | 0                                 | 155   | 0      | 0     | 0       | 0      | 0      | 5                  |
| Lycoming College .....          | 547     | 0      | 0   | 0                              | 0                                 | 0     | 0      | 0     | 547     | 0      | 0      | 0                  |
| Marywood College .....          | 10,000  | 0      | 0   | 10,000                         | 0                                 | 0     | 0      | 0     | 0       | 0      | 0      | 0                  |
| Medical College PA .....        | 25,317  | 0      | 0   | 749                            | 0                                 | 0     | 0      | 0     | 24,306  | 0      | 262    | 0                  |
| Millersville U of PA .....      | 120     | 50     | 0   | 0                              | 0                                 | 0     | 0      | 0     | 0       | 0      | 70     | 0                  |
| Moravian College .....          | 23      | 0      | 0   | 23                             | 0                                 | 0     | 0      | 0     | 0       | 0      | 0      | 0                  |
| Northampton Co Cmty Col .....   | 50      | 0      | 0   | 0                              | 0                                 | 0     | 0      | 0     | 0       | 0      | 50     | 0                  |
| PA College of Optometry .....   | 276     | 0      | 0   | 0                              | 0                                 | 0     | 0      | 0     | 276     | 0      | 0      | 0                  |
| PA Technical Institute .....    | 467     | 0      | 0   | 0                              | 0                                 | 0     | 0      | 0     | 0       | 0      | 0      | 467                |
| Pace Institute .....            | 866     | 0      | 0   | 0                              | 0                                 | 0     | 866    | 0     | 0       | 0      | 0      | 0                  |
| Pennsylvania State U .....      | 173,070 | 11,595 | 58  | 46,994                         | 30,045                            | 1,364 | 5,866  | 1,300 | 36,663  | 12,939 | 18,215 | 8,031              |
| Phila Col of Pharm & Sci .....  | 86      | 0      | 0   | 0                              | 0                                 | 0     | 0      | 0     | 86      | 0      | 0      | 0                  |

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



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[Dollars in thousands]

| State and institution           | Total   | USDA  | Com   | DoD re- search <sup>1</sup> | DoD devel- op- ment <sup>1</sup> | Ed    | DOE   | EPA   | HHS     | NASA  | NSF    | Other <sup>2</sup> |
|---------------------------------|---------|-------|-------|-----------------------------|----------------------------------|-------|-------|-------|---------|-------|--------|--------------------|
| Pennsylvania, continued:        |         |       |       |                             |                                  |       |       |       |         |       |        |                    |
| Phila Col of Text & Sci .....   | 25      | 0     | 0     | 0                           | 0                                | 0     | 0     | 0     | 0       | 0     | 25     | 0                  |
| Shippensburg U of PA .....      | 453     | 0     | 0     | 0                           | 43                               | 0     | 0     | 0     | 410     | 0     | 0      | 0                  |
| St Josephs University .....     | 71      | 0     | 0     | 0                           | 0                                | 0     | 0     | 0     | 0       | 0     | 71     | 0                  |
| St Vincent College & Sem .....  | 330     | 0     | 0     | 0                           | 0                                | 0     | 0     | 0     | 0       | 0     | 330    | 0                  |
| Susquehanna University .....    | 136     | 0     | 0     | 0                           | 0                                | 0     | 0     | 0     | 115     | 21    | 0      | 0                  |
| Swarthmore College .....        | 494     | 0     | 0     | 0                           | 0                                | 0     | 0     | 0     | 0       | 0     | 494    | 0                  |
| Temple University .....         | 25,097  | 0     | 0     | 291                         | 63                               | 1,823 | 431   | 0     | 21,259  | 0     | 1,229  | 1                  |
| Thomas Jefferson U .....        | 38,180  | 0     | 0     | 306                         | 0                                | 362   | 261   | 261   | 36,663  | 0     | 327    | 0                  |
| University of PA .....          | 186,002 | 697   | 46    | 19,819                      | 2,102                            | 2,976 | 6,620 | 75    | 136,570 | 343   | 16,747 | 7                  |
| University of Pittsburgh .....  | 136,780 | 75    | 0     | 5,103                       | 1,578                            | 2,841 | 1,500 | 225   | 115,470 | 990   | 8,998  | 0                  |
| University of Scranton .....    | 101     | 0     | 0     | 0                           | 0                                | 36    | 0     | 0     | 0       | 0     | 65     | 0                  |
| Ursinus College .....           | 22      | 0     | 0     | 0                           | 0                                | 0     | 0     | 0     | 0       | 0     | 22     | 0                  |
| Villanova University .....      | 704     | 0     | 0     | 0                           | 0                                | 0     | 0     | 0     | 282     | 211   | 211    | 0                  |
| West Chester U of PA .....      | 189     | 50    | 0     | 0                           | 0                                | 0     | 0     | 0     | 103     | 0     | 36     | 0                  |
| Westminster Col PA .....        | 2       | 0     | 0     | 0                           | 0                                | 0     | 0     | 0     | 0       | 2     | 0      | 0                  |
| Rhode Island, total .....       | 52,785  | 2,165 | 1,228 | 10,137                      | 0                                | 24    | 2,353 | 1,354 | 16,247  | 3,092 | 15,528 | 657                |
| Brown University .....          | 34,483  | 150   | 41    | 8,058                       | 0                                | 0     | 2,216 | 0     | 12,607  | 1,858 | 9,378  | 175                |
| Cmty Col Rhode Island .....     | 24      | 0     | 0     | 0                           | 0                                | 24    | 0     | 0     | 0       | 0     | 0      | 0                  |
| Rhode Island College .....      | 318     | 0     | 0     | 0                           | 0                                | 0     | 67    | 0     | 251     | 0     | 0      | 0                  |
| U Rhode Island .....            | 17,960  | 2,015 | 1,187 | 2,079                       | 0                                | 0     | 70    | 1,354 | 3,389   | 1,234 | 6,150  | 482                |
| South Carolina, total .....     | 56,957  | 7,237 | 204   | 4,327                       | 1,775                            | 775   | 7,919 | 400   | 23,574  | 1,201 | 8,318  | 1,227              |
| Benedict College .....          | 157     | 0     | 0     | 0                           | 0                                | 0     | 110   | 0     | 0       | 47    | 0      | 0                  |
| Citadel Military Col SC .....   | 5       | 0     | 0     | 0                           | 0                                | 0     | 0     | 0     | 0       | 5     | 0      | 0                  |
| Clafin College .....            | 227     | 0     | 0     | 0                           | 0                                | 141   | 86    | 0     | 0       | 0     | 0      | 0                  |
| Clemson University .....        | 15,296  | 5,202 | 0     | 1,507                       | 1,575                            | 0     | 2,717 | 0     | 336     | 874   | 2,273  | 812                |
| College of Charleston .....     | 153     | 0     | 0     | 14                          | 0                                | 0     | 0     | 0     | 0       | 28    | 111    | 0                  |
| Erskine College .....           | 81      | 0     | 0     | 0                           | 0                                | 0     | 0     | 0     | 0       | 0     | 81     | 0                  |
| Francis Marion University ..... | 114     | 0     | 0     | 0                           | 0                                | 0     | 0     | 0     | 0       | 0     | 114    | 0                  |
| Furman University .....         | 239     | 0     | 0     | 0                           | 0                                | 0     | 0     | 0     | 0       | 0     | 239    | 0                  |
| Medical U of S Carolina .....   | 20,063  | 122   | 0     | 0                           | 0                                | 0     | 2,800 | 0     | 17,046  | 0     | 95     | 0                  |
| SC Sea Grant Consortium .....   | 9       | 0     | 9     | 0                           | 0                                | 0     | 0     | 0     | 0       | 0     | 0      | 0                  |
| South Carolina St U .....       | 2,287   | 1,622 | 0     | 121                         | 0                                | 137   | 407   | 0     | 0       | 0     | 0      | 0                  |
| U South Carolina .....          | 18,002  | 291   | 195   | 2,685                       | 200                              | 173   | 1,799 | 400   | 6,192   | 247   | 5,405  | 415                |
| Voorhees College .....          | 324     | 0     | 0     | 0                           | 0                                | 324   | 0     | 0     | 0       | 0     | 0      | 0                  |
| South Dakota, total .....       | 9,979   | 3,113 | 0     | 53                          | 0                                | 55    | 0     | 149   | 1,328   | 713   | 4,025  | 543                |
| Augustana College .....         | 178     | 68    | 0     | 0                           | 0                                | 0     | 0     | 0     | 0       | 0     | 110    | 0                  |
| Dakota State University .....   | 28      | 0     | 0     | 0                           | 0                                | 28    | 0     | 0     | 0       | 0     | 0      | 0                  |
| Kilian Community College .....  | 27      | 0     | 0     | 0                           | 0                                | 27    | 0     | 0     | 0       | 0     | 0      | 0                  |
| Oglala Lakota College .....     | 75      | 0     | 0     | 0                           | 0                                | 0     | 0     | 0     | 0       | 0     | 75     | 0                  |
| SD School Mines & Tech .....    | 2,102   | 4     | 0     | 53                          | 0                                | 0     | 0     | 0     | 0       | 628   | 1,343  | 74                 |
| Sioux Falls College .....       | 21      | 0     | 0     | 0                           | 0                                | 0     | 0     | 0     | 0       | 0     | 21     | 0                  |
| South Dakota State U .....      | 4,809   | 2,941 | 0     | 0                           | 0                                | 0     | 0     | 149   | 105     | 63    | 1,117  | 434                |
| U SD System Office .....        | 35      | 0     | 0     | 0                           | 0                                | 0     | 0     | 0     | 0       | 0     | 0      | 35                 |

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[Dollars in thousands]

| State and institution           | Total   | USDA   | Com   | DoD re-search <sup>1</sup> | DoD devel-op-ment <sup>1</sup> | Ed    | DOE    | EPA    | HHS     | NASA   | NSF    | Other <sup>2</sup> |
|---------------------------------|---------|--------|-------|----------------------------|--------------------------------|-------|--------|--------|---------|--------|--------|--------------------|
| South Dakota, continued:        |         |        |       |                            |                                |       |        |        |         |        |        |                    |
| U South Dakota .....            | 2,704   | 100    | 0     | 0                          | 0                              | 0     | 0      | 0      | 1,223   | 22     | 1,359  | 0                  |
| Tennessee, total .....          |         |        |       |                            |                                |       |        |        |         |        |        |                    |
| Tennessee, total .....          | 152,856 | 8,615  | 115   | 10,935                     | 295                            | 1,302 | 12,834 | 568    | 99,172  | 4,762  | 11,853 | 2,405              |
| Bristol University .....        | 115     | 0      | 115   | 0                          | 0                              | 0     | 0      | 0      | 0       | 0      | 0      | 0                  |
| Christian Brothers U .....      | 21      | 0      | 0     | 0                          | 0                              | 0     | 0      | 0      | 0       | 0      | 21     | 0                  |
| East Tennessee State U .....    | 820     | 0      | 0     | 0                          | 0                              | 0     | 0      | 0      | 784     | 6      | 30     | 0                  |
| Fisk University .....           | 1,759   | 0      | 0     | 175                        | 0                              | 115   | 0      | 0      | 0       | 857    | 107    | 505                |
| Knoxville College .....         | 248     | 14     | 0     | 234                        | 0                              | 0     | 0      | 0      | 0       | 0      | 0      | 0                  |
| Lane College .....              | 44      | 0      | 0     | 0                          | 0                              | 25    | 19     | 0      | 0       | 0      | 0      | 0                  |
| Le Moyne Owen College .....     | 69      | 0      | 0     | 0                          | 0                              | 0     | 0      | 0      | 0       | 0      | 69     | 0                  |
| Meharry Medical College .....   | 6,214   | 0      | 0     | 185                        | 0                              | 0     | 173    | 0      | 4,863   | 0      | 993    | 0                  |
| Middle Tennessee St U .....     | 39      | 0      | 0     | 0                          | 0                              | 0     | 34     | 0      | 0       | 0      | 5      | 0                  |
| Rhodes College .....            | 25      | 0      | 0     | 0                          | 0                              | 0     | 0      | 0      | 0       | 0      | 25     | 0                  |
| Southern Col of Optometry ..... | 63      | 0      | 0     | 0                          | 0                              | 0     | 0      | 0      | 63      | 0      | 0      | 0                  |
| State Tech Inst Memphis .....   | 14      | 0      | 0     | 0                          | 0                              | 0     | 0      | 0      | 0       | 0      | 14     | 0                  |
| Tennessee State U .....         | 4,997   | 2,318  | 0     | 1,039                      | 0                              | 39    | 0      | 0      | 819     | 732    | 0      | 50                 |
| Tennessee Technological U ..... | 1,594   | 105    | 0     | 0                          | 0                              | 0     | 262    | 162    | 79      | 35     | 290    | 661                |
| U TN U Wide Admin Ctr .....     | 2,385   | 7      | 0     | 0                          | 295                            | 192   | 1,065  | 0      | 0       | 0      | 407    | 419                |
| U Tennessee Chattanooga .....   | 63      | 0      | 0     | 0                          | 0                              | 31    | 0      | 0      | 0       | 0      | 32     | 0                  |
| U Tennessee Knoxville .....     | 28,833  | 6,058  | 0     | 2,907                      | 0                              | 0     | 9,927  | 406    | 4,092   | 592    | 4,750  | 101                |
| U Tennessee Martin .....        | 231     | 0      | 0     | 132                        | 0                              | 0     | 0      | 0      | 0       | 0      | 99     | 0                  |
| U Tennessee Memphis .....       | 18,933  | 0      | 0     | 290                        | 0                              | 0     | 0      | 0      | 18,129  | 257    | 257    | 0                  |
| University of Memphis .....     | 4,293   | 3      | 0     | 318                        | 0                              | 0     | 75     | 0      | 2,624   | 121    | 533    | 619                |
| University of the South .....   | 5       | 0      | 0     | 0                          | 0                              | 0     | 0      | 0      | 0       | 0      | 5      | 0                  |
| Vanderbilt University .....     | 82,091  | 110    | 0     | 5,655                      | 0                              | 900   | 1,279  | 0      | 67,719  | 2,162  | 4,216  | 50                 |
| Texas, total .....              |         |        |       |                            |                                |       |        |        |         |        |        |                    |
| Texas, total .....              | 606,459 | 28,622 | 1,281 | 63,452                     | 26,695                         | 1,673 | 27,455 | 10,002 | 337,634 | 34,788 | 71,274 | 3,583              |
| Abilene Christian U .....       | 107     | 0      | 0     | 0                          | 0                              | 0     | 107    | 0      | 0       | 0      | 0      | 0                  |
| Alamo CC District .....         | 228     | 0      | 0     | 0                          | 0                              | 227   | 0      | 0      | 0       | 0      | 0      | 1                  |
| Baylor Col of Dentistry .....   | 612     | 0      | 0     | 0                          | 0                              | 0     | 0      | 0      | 612     | 0      | 0      | 0                  |
| Baylor Col of Medicine .....    | 88,276  | 9,000  | 0     | 441                        | 70                             | 0     | 1,375  | 169    | 76,310  | 911    | 0      | 0                  |
| Baylor University .....         | 2,213   | 0      | 0     | 283                        | 0                              | 335   | 0      | 0      | 0       | 209    | 1,321  | 65                 |
| El Paso Cmty College .....      | 1       | 0      | 0     | 0                          | 0                              | 0     | 0      | 0      | 0       | 0      | 0      | 1                  |
| Houston Community College ..... | 369     | 0      | 0     | 0                          | 0                              | 0     | 325    | 0      | 0       | 0      | 0      | 44                 |
| Huston Tillotson College .....  | 8       | 0      | 0     | 0                          | 0                              | 0     | 0      | 0      | 0       | 0      | 0      | 8                  |
| Jarvis Christian College .....  | 219     | 0      | 0     | 14                         | 0                              | 127   | 0      | 0      | 78      | 0      | 0      | 0                  |
| Lamar U Beaumont .....          | 2,810   | 0      | 0     | 0                          | 0                              | 0     | 0      | 2,500  | 0       | 270    | 40     | 0                  |
| Midwestern State U .....        | 6       | 6      | 0     | 0                          | 0                              | 0     | 0      | 0      | 0       | 0      | 0      | 0                  |
| Our Lady of the Lake U .....    | 190     | 0      | 0     | 190                        | 0                              | 0     | 0      | 0      | 0       | 0      | 0      | 0                  |
| Prairie View A&M U .....        | 4,916   | 2,935  | 0     | 217                        | 0                              | 0     | 600    | 0      | 0       | 1,058  | 35     | 71                 |
| Rice University .....           | 24,425  | 100    | 0     | 2,260                      | 0                              | 0     | 2,165  | 600    | 3,712   | 2,309  | 13,279 | 0                  |
| Sam Houston State U .....       | 10,138  | 68     | 0     | 10,000                     | 0                              | 0     | 0      | 0      | 0       | 0      | 70     | 0                  |
| Southern Methodist U .....      | 4,596   | 70     | 0     | 1,852                      | 0                              | 0     | 522    | 0      | 841     | 50     | 1,261  | 0                  |
| Southwest Texas St U .....      | 697     | 19     | 0     | 50                         | 0                              | 0     | 0      | 0      | 444     | 30     | 154    | 0                  |
| Stephen F Austin St U .....     | 262     | 262    | 0     | 0                          | 0                              | 0     | 0      | 0      | 0       | 0      | 0      | 0                  |
| Sul Ross State University ..... | 7       | 0      | 0     | 0                          | 0                              | 0     | 0      | 0      | 0       | 0      | 0      | 7                  |

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[Dollars in thousands]

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| State and institution           | Total   | USDA   | Com   | DoD re-<br>search <sup>1</sup> | DoD devel-<br>opment <sup>1</sup> | Ed  | DOE    | EPA   | HHS    | NASA  | NSF    | Other <sup>2</sup> |
|---------------------------------|---------|--------|-------|--------------------------------|-----------------------------------|-----|--------|-------|--------|-------|--------|--------------------|
| Texas, continued:               |         |        |       |                                |                                   |     |        |       |        |       |        |                    |
| TX A&M U Kingsville .....       | 698     | 30     | 0     | 360                            | 0                                 | 0   | 0      | 0     | 0      | 65    | 243    | 0                  |
| Tarleton State University ..... | 550     | 0      | 0     | 0                              | 0                                 | 0   | 0      | 550   | 0      | 0     | 0      | 0                  |
| Texas A&M U Sys Off .....       | 2,401   | 0      | 0     | 0                              | 0                                 | 0   | 1,174  | 0     | 258    | 50    | 0      | 919                |
| Texas A&M University .....      | 65,174  | 13,732 | 1,063 | 6,629                          | 100                               | 0   | 4,143  | 1,614 | 14,042 | 3,753 | 18,684 | 1,414              |
| Texas Christian U .....         | 2,397   | 0      | 0     | 103                            | 0                                 | 0   | 0      | 0     | 1,498  | 0     | 796    | 0                  |
| Texas Southern U .....          | 2,277   | 0      | 0     | 0                              | 0                                 | 235 | 0      | 200   | 1,229  | 603   | 10     | 0                  |
| Texas Southmost College .....   | 166     | 0      | 0     | 0                              | 0                                 | 0   | 0      | 0     | 0      | 166   | 0      | 0                  |
| Texas Tech University .....     | 7,460   | 1,126  | 0     | 1,013                          | 65                                | 0   | 342    | 568   | 2,409  | 367   | 1,522  | 48                 |
| Texas Wesleyan University ..... | 36      | 0      | 0     | 0                              | 0                                 | 36  | 0      | 0     | 0      | 0     | 0      | 0                  |
| Texas Womans University .....   | 72      | 0      | 0     | 0                              | 0                                 | 0   | 0      | 0     | 72     | 0     | 0      | 0                  |
| Trinity University .....        | 925     | 60     | 0     | 0                              | 0                                 | 0   | 0      | 0     | 463    | 0     | 402    | 0                  |
| U N TX Hlth Sci Ctr .....       | 3,482   | 0      | 0     | 0                              | 0                                 | 0   | 0      | 0     | 3,366  | 60    | 56     | 0                  |
| U North Texas .....             | 3,057   | 0      | 0     | 943                            | 0                                 | 197 | 150    | 679   | 100    | 75    | 913    | 0                  |
| U TX Arlington .....            | 3,498   | 0      | 0     | 1,163                          | 155                               | 150 | 225    | 0     | 110    | 230   | 1,465  | 0                  |
| U TX Austin .....               | 117,225 | 403    | 198   | 31,545                         | 26,131                            | 184 | 14,548 | 772   | 16,622 | 7,765 | 18,553 | 504                |
| U TX Dallas .....               | 5,373   | 0      | 0     | 2,066                          | 100                               | 0   | 124    | 0     | 1,610  | 429   | 1,044  | 0                  |
| U TX El Paso .....              | 6,072   | 0      | 0     | 1,413                          | 74                                | 0   | 0      | 1,000 | 924    | 199   | 2,382  | 80                 |
| U TX Hlth Sci Ctr Houstrn ..... | 37,465  | 212    | 0     | 446                            | 0                                 | 0   | 376    | 479   | 34,686 | 535   | 731    | 0                  |
| U TX Hlth Sci Ctr S Anto .....  | 44,987  | 0      | 0     | 449                            | 0                                 | 0   | 0      | 0     | 43,723 | 209   | 606    | 0                  |
| U TX MD Anderson Cancer .....   | 42,602  | 212    | 0     | 151                            | 0                                 | 0   | 0      | 64    | 41,895 | 100   | 180    | 0                  |
| U TX Med Brnch Galveston .....  | 28,616  | 0      | 0     | 178                            | 0                                 | 47  | 316    | 612   | 26,768 | 535   | 160    | 0                  |
| U TX Permian Basin .....        | 61      | 0      | 0     | 61                             | 0                                 | 0   | 0      | 0     | 0      | 0     | 0      | 0                  |
| U TX SW Med Ctr Dallas .....    | 61,269  | 237    | 0     | 52                             | 0                                 | 0   | 0      | 0     | 58,319 | 2,194 | 467    | 0                  |
| U TX San Antonio .....          | 1,632   | 0      | 0     | 175                            | 0                                 | 0   | 42     | 0     | 315    | 116   | 984    | 0                  |
| U TX System Off .....           | 1,556   | 0      | 0     | 0                              | 0                                 | 0   | 0      | 0     | 1,150  | 0     | 0      | 406                |
| U of Houston .....              | 20,183  | 150    | 20    | 727                            | 0                                 | 0   | 921    | 195   | 6,078  | 6,694 | 5,383  | 15                 |
| U of Houston Clear Lake .....   | 5,806   | 0      | 0     | 0                              | 0                                 | 0   | 0      | 0     | 0      | 5,806 | 0      | 0                  |
| U of Houston Sys Admin .....    | 671     | 0      | 0     | 671                            | 0                                 | 0   | 0      | 0     | 0      | 0     | 0      | 0                  |
| University of Dallas .....      | 469     | 0      | 0     | 0                              | 0                                 | 0   | 0      | 0     | 0      | 0     | 469    | 0                  |
| Wiley College .....             | 199     | 0      | 0     | 0                              | 0                                 | 135 | 0      | 0     | 0      | 0     | 64     | 0                  |
| Utah, total .....               | 123,154 | 3,376  | 280   | 15,150                         | 18,576                            | 756 | 4,709  | 2,053 | 55,854 | 2,491 | 15,895 | 4,014              |
| Brigham Young University .....  | 5,573   | 124    | 0     | 783                            | 0                                 | 0   | 341    | 0     | 1,241  | 244   | 2,771  | 69                 |
| Snow College .....              | 16      | 16     | 0     | 0                              | 0                                 | 0   | 0      | 0     | 0      | 0     | 0      | 0                  |
| Southern Utah University .....  | 1,193   | 0      | 0     | 0                              | 0                                 | 0   | 0      | 0     | 1,193  | 0     | 0      | 0                  |
| University of Utah .....        | 77,407  | 300    | 195   | 8,220                          | 100                               | 0   | 4,347  | 2,000 | 48,894 | 631   | 10,858 | 1,862              |
| Utah State University .....     | 38,841  | 2,936  | 85    | 6,147                          | 18,476                            | 756 | 21     | 53    | 4,526  | 1,577 | 2,181  | 2,083              |
| Utah Valley State College ..... | 20      | 0      | 0     | 0                              | 0                                 | 0   | 0      | 0     | 0      | 20    | 0      | 0                  |
| Weber State University .....    | 104     | 0      | 0     | 0                              | 0                                 | 0   | 0      | 0     | 0      | 19    | 85     | 0                  |
| Vermont, total .....            | 35,856  | 4,532  | 0     | 296                            | 0                                 | 263 | 539    | 904   | 26,528 | 63    | 2,416  | 315                |
| Bennington College .....        | 148     | 0      | 0     | 0                              | 0                                 | 0   | 0      | 0     | 0      | 0     | 148    | 0                  |
| Burlington College .....        | 91      | 0      | 0     | 0                              | 0                                 | 0   | 0      | 0     | 91     | 0     | 0      | 0                  |
| Lyndon State College .....      | 54      | 54     | 0     | 0                              | 0                                 | 0   | 0      | 0     | 0      | 0     | 0      | 0                  |
| Middlebury College .....        | 423     | 0      | 0     | 0                              | 0                                 | 0   | 0      | 0     | 110    | 18    | 295    | 0                  |

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

**Table 4. Federal obligations for science and engineering research and development to universities and colleges, by State, institution, and agency: fiscal year 1993**

[Dollars in thousands]

| State and institution           | Totrl   | USDA   | Com   | DoD re-search 1 | DoD devel-opment 1 | Ed  | DOE    | EPA   | HHS     | NASA   | NSF    | Other 2 |
|---------------------------------|---------|--------|-------|-----------------|--------------------|-----|--------|-------|---------|--------|--------|---------|
| Vermont, continued:             |         |        |       |                 |                    |     |        |       |         |        |        |         |
| Norwich University .....        | 25      | 0      | 0     | 0               | 0                  | 0   | 0      | 0     | 0       | 25     | 0      | 0       |
| St Michaels College .....       | 707     | 0      | 0     | 0               | 0                  | 0   | 0      | 0     | 0       | 0      | 707    | 0       |
| University of Vermont .....     | 33,915  | 4,478  | 0     | 296             | 0                  | 263 | 539    | 411   | 26,327  | 20     | 1,266  | 315     |
| Vermont Law School .....        | 493     | 0      | 0     | 0               | 0                  | 0   | 0      | 493   | 0       | 0      | 0      | 0       |
| Virginia, total .....           | 200,585 | 8,926  | 1,437 | 20,625          | 2,339              | 696 | 7,448  | 1,924 | 93,544  | 22,282 | 30,490 | 10,874  |
| College of William & Mary ..... | 6,754   | 29     | 1,020 | 884             | 0                  | 0   | 301    | 88    | 155     | 2,278  | 1,773  | 226     |
| Dabney Lancaster Cmty Col ..... | 9       | 9      | 0     | 0               | 0                  | 0   | 0      | 0     | 0       | 0      | 0      | 0       |
| Ferrum College .....            | 55      | 0      | 0     | 0               | 0                  | 0   | 0      | 0     | 0       | 0      | 55     | 0       |
| George Mason University .....   | 8,819   | 0      | 0     | 5,311           | 957                | 0   | 0      | 256   | 192     | 306    | 1,425  | 372     |
| Hampden Sydney College .....    | 99      | 0      | 0     | 0               | 0                  | 0   | 0      | 0     | 0       | 99     | 0      | 0       |
| Hampton University .....        | 6,157   | 0      | 0     | 858             | 0                  | 0   | 258    | 119   | 0       | 2,666  | 2,256  | 0       |
| Hollins College .....           | 19      | 0      | 0     | 0               | 0                  | 0   | 0      | 0     | 0       | 0      | 19     | 0       |
| James Madison University .....  | 576     | 175    | 0     | 0               | 0                  | 0   | 0      | 0     | 123     | 0      | 278    | 0       |
| Longwood College .....          | 24      | 0      | 0     | 0               | 0                  | 0   | 0      | 0     | 0       | 24     | 0      | 0       |
| Lord Fairfax Cmty College ..... | 31      | 0      | 0     | 0               | 0                  | 0   | 0      | 0     | 0       | 0      | 31     | 0       |
| Mary Baldwin College .....      | 65      | 0      | 0     | 0               | 0                  | 0   | 0      | 0     | 0       | 0      | 65     | 0       |
| Med Col Hampton Roads .....     | 10,595  | 0      | 0     | 0               | 0                  | 0   | 0      | 0     | 4,222   | 163    | 0      | 6,210   |
| Mountain Empire Cmty Col .....  | 40      | 0      | 0     | 0               | 0                  | 0   | 0      | 0     | 0       | 0      | 40     | 0       |
| Norfolk State University .....  | 387     | 0      | 0     | 0               | 0                  | 0   | 70     | 0     | 76      | 241    | 0      | 0       |
| Old Dominion University .....   | 7,619   | 0      | 43    | 904             | 50                 | 0   | 171    | 0     | 123     | 3,979  | 2,349  | 0       |
| Radford University .....        | 18      | 0      | 0     | 0               | 0                  | 0   | 0      | 0     | 0       | 0      | 18     | 0       |
| University of Richmond .....    | 161     | 0      | 0     | 0               | 0                  | 0   | 94     | 0     | 0       | 0      | 67     | 0       |
| University of Virginia .....    | 79,221  | 3      | 206   | 4,482           | 1,172              | 0   | 3,140  | 320   | 48,389  | 7,946  | 12,190 | 1,373   |
| VA Polytech Inst & St U .....   | 36,841  | 6,784  | 168   | 7,475           | 0                  | 0   | 3,031  | 949   | 2,729   | 4,043  | 9,019  | 2,643   |
| Virginia Commonwealth U .....   | 40,568  | 124    | 0     | 711             | 160                | 372 | 234    | 42    | 37,535  | 531    | 809    | 50      |
| Virginia Military Inst .....    | 96      | 0      | 0     | 0               | 0                  | 0   | 0      | 0     | 0       | 0      | 96     | 0       |
| Virginia State University ..... | 2,107   | 1,802  | 0     | 0               | 0                  | 0   | 149    | 150   | 0       | 6      | 0      | 0       |
| Virginia Union University ..... | 324     | 0      | 0     | 0               | 0                  | 324 | 0      | 0     | 0       | 0      | 0      | 0       |
| Washington, total .....         | 285,524 | 14,050 | 2,441 | 23,819          | 4,657              | 979 | 15,939 | 1,303 | 167,390 | 9,416  | 42,216 | 3,314   |
| Central Washington U .....      | 477     | 40     | 0     | 0               | 0                  | 0   | 104    | 0     | 0       | 233    | 100    | 0       |
| Centralia College .....         | 60      | 0      | 0     | 0               | 0                  | 0   | 0      | 0     | 0       | 0      | 60     | 0       |
| Clark College .....             | 10      | 0      | 0     | 0               | 0                  | 0   | 0      | 0     | 0       | 0      | 10     | 0       |
| Columbia Basin College .....    | 129     | 0      | 0     | 0               | 0                  | 0   | 129    | 0     | 0       | 0      | 0      | 0       |
| Eastern Washington U .....      | 2,275   | 0      | 0     | 0               | 0                  | 0   | 0      | 0     | 1,945   | 0      | 144    | 186     |
| Edmonds Community College ..... | 2,395   | 0      | 0     | 0               | 0                  | 0   | 0      | 0     | 2,395   | 0      | 0      | 0       |
| Evergreen State College .....   | 752     | 0      | 0     | 0               | 0                  | 0   | 0      | 0     | 0       | 0      | 752    | 0       |
| Gonzaga University .....        | 107     | 0      | 0     | 0               | 0                  | 0   | 0      | 0     | 0       | 0      | 107    | 0       |
| Heritage College .....          | 137     | 0      | 0     | 0               | 0                  | 137 | 0      | 0     | 0       | 0      | 0      | 0       |
| Lower Columbia College .....    | 845     | 0      | 0     | 0               | 0                  | 0   | 0      | 0     | 845     | 0      | 0      | 0       |
| Northwest Indian College .....  | 130     | 0      | 0     | 0               | 0                  | 0   | 0      | 0     | 50      | 75     | 0      | 5       |
| Olympic College .....           | 2       | 0      | 0     | 0               | 0                  | 0   | 0      | 0     | 0       | 0      | 0      | 2       |
| Pacific Lutheran U .....        | 24      | 0      | 0     | 0               | 0                  | 0   | 0      | 0     | 0       | 0      | 24     | 0       |
| Seattle Lutheran U .....        | 71      | 0      | 0     | 0               | 0                  | 0   | 0      | 0     | 0       | 0      | 70     | 1       |
| Seattle Community College ..... | 71      | 0      | 0     | 0               | 0                  | 0   | 0      | 0     | 0       | 0      | 70     | 1       |
| Seattle Pacific U .....         | 24      | 0      | 0     | 24              | 0                  | 0   | 0      | 0     | 0       | 0      | 0      | 0       |

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

**Table 4. Federal obligations for science and engineering research and development to universities and colleges, by State, institution, and agency: fiscal year 1993**

[Dollars in thousands]

| State and institution           | Total   | USDA   | Com   | DoD re-<br>search <sup>1</sup> | DoD devel-<br>op-<br>ment <sup>1</sup> | Ed    | DOE    | EPA   | HHS     | NASA   | NSF    | Other <sup>2</sup> |
|---------------------------------|---------|--------|-------|--------------------------------|--|-------|--------|-------|---------|--------|--------|--------------------|
| Washington, continued:          |         |        |       |                                |  |       |        |       |         |        |        |                    |
| Seattle University .....        | 98      | 0      | 0     | 0                              | 0                                      | 0     | 0      | 0     | 0       | 0      | 98     | 0                  |
| Shoreline Community Col .....   | 24      | 0      | 0     | 0                              | 0                                      | 0     | 0      | 0     | 0       | 0      | 24     | 0                  |
| Skagit Valley College .....     | 1,622   | 0      | 0     | 0                              | 0                                      | 0     | 0      | 0     | 1,622   | 0      | 0      | 0                  |
| University of Washington .....  | 246,013 | 5,433  | 2,211 | 20,886                         | 4,500                                  | 657   | 13,070 | 855   | 152,495 | 8,798  | 35,080 | 2,028              |
| Walla Walla Community Col ..... | 28      | 0      | 0     | 0                              | 0                                      | 28    | 0      | 0     | 0       | 0      | 0      | 0                  |
| Washington State U .....        | 29,541  | 8,566  | 180   | 2,799                          | 157                                    | 157   | 2,636  | 448   | 7,857   | 279    | 5,424  | 1,038              |
| Western Washington U .....      | 686     | 11     | 50    | 110                            | 0                                      | 0     | 0      | 0     | 181     | 31     | 249    | 54                 |
| Whitman College .....           | 51      | 0      | 0     | 0                              | 0                                      | 0     | 0      | 0     | 0       | 0      | 51     | 0                  |
| Whitworth College .....         | 23      | 0      | 0     | 0                              | 0                                      | 0     | 0      | 0     | 0       | 0      | 23     | 0                  |
| West Virginia, total .....      | 41,053  | 4,439  | 0     | 10,888                         | 31                                     | 210   | 5,705  | 2,500 | 8,520   | 3,605  | 2,736  | 2,419              |
| Bluefield State College .....   | 76      | 0      | 0     | 0                              | 0                                      | 0     | 0      | 0     | 0       | 0      | 0      | 76                 |
| Col of West Virginia .....      | 132     | 0      | 0     | 0                              | 0                                      | 0     | 132    | 0     | 0       | 0      | 0      | 0                  |
| Concord College .....           | 181     | 0      | 0     | 0                              | 0                                      | 0     | 0      | 0     | 181     | 0      | 0      | 0                  |
| Fairmont State College .....    | 94      | 1      | 0     | 0                              | 0                                      | 0     | 0      | 0     | 0       | 29     | 64     | 0                  |
| Marshall University .....       | 1,800   | 40     | 0     | 81                             | 0                                      | 0     | 0      | 0     | 1,346   | 170    | 103    | 60                 |
| West Virginia State Col .....   | 363     | 0      | 0     | 0                              | 0                                      | 0     | 0      | 0     | 0       | 0      | 0      | 363                |
| West Virginia U Morgantwn ..... | 35,439  | 4,398  | 0     | 10,807                         | 31                                     | 0     | 5,573  | 2,500 | 6,993   | 648    | 2,569  | 1,920              |
| Wheeling Jesuit College .....   | 2,968   | 0      | 0     | 0                              | 0                                      | 210   | 0      | 0     | 0       | 2,758  | 0      | 0                  |
| Wisconsin, total .....          | 235,302 | 11,610 | 1,917 | 11,296                         | 604                                    | 3,529 | 19,893 | 2,284 | 128,107 | 12,050 | 42,280 | 1,732              |
| Beloit College .....            | 279     | 0      | 0     | 0                              | 0                                      | 0     | 0      | 0     | 99      | 72     | 108    | 0                  |
| Carroll College WI .....        | 64      | 0      | 0     | 0                              | 0                                      | 0     | 0      | 0     | 64      | 0      | 0      | 0                  |
| Lawrence University .....       | 225     | 0      | 0     | 0                              | 0                                      | 0     | 0      | 0     | 114     | 0      | 111    | 0                  |
| Marquette University .....      | 2,127   | 0      | 0     | 0                              | 0                                      | 200   | 102    | 0     | 743     | 462    | 560    | 60                 |
| Medical College WI .....        | 24,713  | 165    | 0     | 0                              | 0                                      | 0     | 0      | 89    | 23,355  | 247    | 190    | 667                |
| Milwaukee School of Eng .....   | 92      | 0      | 0     | 0                              | 0                                      | 0     | 0      | 0     | 0       | 0      | 92     | 0                  |
| Ripon College .....             | 78      | 0      | 0     | 0                              | 0                                      | 0     | 0      | 0     | 0       | 0      | 78     | 0                  |
| U WI Center System .....        | 3,776   | 0      | 0     | 25                             | 0                                      | 0     | 345    | 0     | 3,406   | 0      | 0      | 0                  |
| U WI Eau Claire .....           | 394     | 0      | 0     | 0                              | 0                                      | 0     | 0      | 0     | 0       | 0      | 394    | 0                  |
| U WI Green Bay .....            | 112     | 0      | 0     | 0                              | 0                                      | 0     | 0      | 0     | 112     | 0      | 0      | 0                  |
| U WI La Crosse .....            | 33      | 0      | 0     | 0                              | 0                                      | 0     | 0      | 0     | 0       | 3      | 30     | 0                  |
| U WI Madison .....              | 190,469 | 10,875 | 106   | 10,257                         | 604                                    | 3,129 | 18,528 | 1,172 | 95,652  | 10,838 | 38,678 | 630                |
| U WI Milwaukee .....            | 5,960   | 75     | 0     | 834                            | 0                                      | 0     | 918    | 0     | 2,396   | 428    | 1,299  | 10                 |
| U WI Oshkosh .....              | 1,897   | 0      | 0     | 0                              | 0                                      | 0     | 0      | 0     | 1,874   | 0      | 23     | 0                  |
| U WI River Falls .....          | 48      | 0      | 0     | 0                              | 0                                      | 0     | 0      | 0     | 0       | 0      | 48     | 0                  |
| U WI Stevens Point .....        | 803     | 66     | 0     | 50                             | 0                                      | 0     | 0      | 0     | 0       | 0      | 605    | 82                 |
| U WI Superior .....             | 1,186   | 0      | 0     | 99                             | 0                                      | 0     | 0      | 1,023 | 0       | 0      | 64     | 0                  |
| U WI System Office .....        | 3,046   | 429    | 1,811 | 31                             | 0                                      | 200   | 0      | 0     | 292     | 0      | 0      | 283                |
| Wyoming, total .....            | 17,339  | 2,586  | 0     | 1,541                          | 0                                      | 200   | 1,031  | 520   | 1,221   | 375    | 5,054  | 4,811              |
| Northwest College .....         | 55      | 0      | 0     | 0                              | 0                                      | 0     | 0      | 0     | 0       | 0      | 55     | 0                  |
| University of Wyoming .....     | 17,284  | 2,586  | 0     | 1,541                          | 0                                      | 200   | 1,031  | 520   | 1,221   | 375    | 4,999  | 4,811              |

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

**Table 4. Federal obligations for science and engineering research and development to universities and colleges, by State, institution, and agency: fiscal year 1993**

[Dollars in thousands]

| State and institution                               | Total  | USDA  | Com | DoD re-search <sup>1</sup> | DoD devel-op-ment <sup>1</sup> | Ed  | DOE | EPA | HHS   | NASA | NSF   | Other <sup>2</sup> |
|---|--------|-------|-----|----------------------------|--------------------------------|-----|-----|-----|-------|------|-------|--------------------|
| Guam. total .....                                   | 1,438  | 1,102 | 0   | 0                          | 0                              | 0   | 0   | 0   | 0     | 0    | 135   | 201                |
| University of Guam .....                            | 1,438  | 1,102 | 0   | 0                          | 0                              | 0   | 0   | 0   | 0     | 0    | 135   | 201                |
| Puerto Rico. total .....                            | 24,864 | 4,189 | 350 | 1,786                      | 0                              | 463 | 26  | 211 | 8,160 | 383  | 9,195 | 101                |
| Catholic U of PR .....                              | 463    | 0     | 0   | 0                          | 0                              | 463 | 0   | 0   | 0     | 0    | 0     | 0                  |
| Inter Am U PR Metropol .....                        | 265    | 0     | 0   | 0                          | 0                              | 0   | 0   | 0   | 0     | 0    | 265   | 0                  |
| Ponce School of Medicine .....                      | 601    | 0     | 0   | 0                          | 0                              | 0   | 0   | 0   | 601   | 0    | 0     | 0                  |
| Sistema U Ana G Mendez .....                        | 200    | 0     | 0   | 0                          | 0                              | 0   | 0   | 0   | 0     | 0    | 200   | 0                  |
| U Central Del Caribe .....                          | 199    | 0     | 0   | 0                          | 0                              | 0   | 0   | 0   | 199   | 0    | 0     | 0                  |
| U PR Humacao J Col .....                            | 8      | 0     | 0   | 0                          | 0                              | 0   | 0   | 0   | 0     | 0    | 8     | 0                  |
| U PR Mayaguez .....                                 | 6,556  | 4,189 | 0   | 463                        | 0                              | 0   | 6   | 0   | 0     | 219  | 1,578 | 101                |
| U PR Medical Sci .....                              | 6,810  | 0     | 0   | 219                        | 0                              | 0   | 0   | 0   | 6,119 | 52   | 420   | 0                  |
| U PR Rio Piedras .....                              | 2,709  | 0     | 0   | 599                        | 0                              | 0   | 0   | 96  | 1,040 | 112  | 862   | 0                  |
| U PR System Off .....                               | 6,891  | 0     | 350 | 505                        | 0                              | 0   | 20  | 0   | 201   | 0    | 5,815 | 0                  |
| U of the Sacred Heart .....                         | 47     | 0     | 0   | 0                          | 0                              | 0   | 0   | 0   | 0     | 0    | 47    | 0                  |
| Universidad Metropolitana .....                     | 115    | 0     | 0   | 0                          | 0                              | 0   | 0   | 115 | 0     | 0    | 0     | 0                  |
| American Samoa. total .....                         | 679    | 679   | 0   | 0                          | 0                              | 0   | 0   | 0   | 0     | 0    | 0     | 0                  |
| American Samoa Cnty Col .....                       | 679    | 679   | 0   | 0                          | 0                              | 0   | 0   | 0   | 0     | 0    | 0     | 0                  |
| Virgin Islands. total .....                         | 1,210  | 1,018 | 0   | 0                          | 0                              | 0   | 0   | 0   | 85    | 0    | 0     | 107                |
| U of the Virgin Islands .....                       | 1,210  | 1,018 | 0   | 0                          | 0                              | 0   | 0   | 0   | 85    | 0    | 0     | 107                |
| Trust Territory of the Pacific Islands. total ..... | 974    | 828   | 0   | 0                          | 0                              | 0   | 0   | 0   | 146   | 0    | 0     | 0                  |
| Col of Micronesia FSM .....                         | 315    | 315   | 0   | 0                          | 0                              | 0   | 0   | 0   | 0     | 0    | 0     | 0                  |
| Northern Marianas College .....                     | 659    | 513   | 0   | 0                          | 0                              | 0   | 0   | 0   | 146   | 0    | 0     | 0                  |

<sup>1</sup> In this table 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 university-affiliated laboratories that are separate from the academic departments.

<sup>2</sup> Includes Department of Transportation, Agency for International Development, Department of Housing and Urban Development, Department of Labor, Nuclear Regulatory Commission, and Department of the Interior

**KEY:** Com = Department of Commerce  
 DoD = Department of Defense  
 DOE = Department of Energy  
 Ed = Department of Education  
 EPA = Environmental Protection Agency  
 HHS = Department of Health and Human Services  
 NASA = National Aeronautics and Space Administration  
 NSF = National Science Foundation  
 USDA = U.S. Department of Agriculture

SOURCE: National Science Foundation/SRS, Survey of Federal Support to Universities, Colleges and Nonprofit Institutions, Fiscal Year 1993



**Table 5. Federal obligations for science and engineering to universities and colleges, by type of activity and agency: fiscal years 1963-93**

[Dollars in millions]

| Fiscal year                                   | Total    | USDA  | Com   | DoD     | OEO  | Ed    | DOE <sup>1</sup> | EPA   | HHS     | HUD  | Int  | AID  | Labor | NASA  | NSF     | NRC | DOT  |
|---|----------|-------|-------|---------|------|-------|------------------|-------|---------|------|------|------|-------|-------|---------|-----|------|
| Total, academic science and engineering (S&E) |          |       |       |         |      |       |                  |       |         |      |      |      |       |       |         |     |      |
| 1963  | 1,328.5  | 104.0 | 1.8   | 218.0   | NA   | NA    | 76.1             | NA    | 581.0   | NA   | 3.8  | NA   | NA    | 87.4  | 256.3   | NA  | NA   |
| 1964  | 1,528.6  | 115.0 | 1.7   | 258.1   | NA   | NA    | 79.9             | NA    | 683.8   | NA   | 5.0  | NA   | NA    | 107.6 | 277.5   | NA  | NA   |
| 1965  | 1,816.2  | 135.6 | 2.6   | 267.9   | NA   | NA    | 84.4             | NA    | 856.5   | NA   | 9.6  | NA   | NA    | 134.3 | 325.2   | NA  | NA   |
| 1966  | 2,163.5  | 141.0 | 2.8   | 278.0   | NA   | NA    | 96.9             | NA    | 1,109.2 | NA   | 19.0 | NA   | NA    | 142.2 | 374.5   | NA  | NA   |
| 1967  | 2,323.8  | 144.8 | 4.4   | 264.1   | NA   | NA    | 109.6            | NA    | 1,251.0 | NA   | 23.9 | NA   | NA    | 131.5 | 394.5   | NA  | NA   |
| 1968  | 2,349.8  | 144.2 | 8.0   | 243.1   | 12.5 | NA    | 119.7            | NA    | 1,229.4 | 1.7  | 28.2 | NA   | 6.6   | 129.8 | 422.8   | NA  | 3.7  |
| 1969  | 2,361.4  | 155.9 | 2.2   | 278.7   | 9.3  | NA    | 121.0            | NA    | 1,261.8 | 1.1  | 24.3 | 3.9  | 9.1   | 127.2 | 367.0   | NA  | NA   |
| 1970  | 2,187.6  | 182.1 | 3.9   | 265.5   | 18.9 | NA    | 114.5            | NA    | 1,036.7 | .5   | 27.7 | 5.5  | 3.5   | 131.2 | 387.4   | NA  | 10.1 |
| 1971  | 2,343.1  | 214.6 | 7.6   | 249.0   | 16.4 | NA    | 105.8            | 27.2  | 1,142.3 | .7   | 22.6 | 19.1 | 5.2   | 134.1 | 387.7   | NA  | 10.8 |
| 1972  | 2,599.1  | 238.6 | 26.0  | 243.9   | 8.3  | NA    | 95.4             | 23.3  | 1,318.4 | 1.5  | 24.3 | 18.7 | 7.3   | 119.0 | 458.7   | NA  | 15.9 |
| 1973  | 2,464.4  | 256.8 | 28.4  | 232.9   | 8.7  | NA    | 96.2             | 27.7  | 1,225.0 | .9   | 23.7 | 10.7 | 6.3   | 111.4 | 419.6   | NA  | 15.9 |
| 1974  | 2,737.0  | 260.7 | 29.4  | 184.4   | 4.1  | NA    | 99.5             | 30.9  | 1,515.4 | .6   | 23.8 | 19.9 | 7.1   | 98.9  | 449.6   | NA  | 12.8 |
| 1975  | 2,805.9  | 290.7 | 25.8  | 190.5   | NA   | NA    | 124.3            | 38.8  | 1,467.4 | 2.3  | 28.8 | 12.4 | 5.5   | 108.0 | 490.5   | **  | 20.8 |
| 1976  | 2,959.7  | 328.6 | 38.2  | 211.9   | NA   | NA    | 144.1            | 33.0  | 1,522.2 | 1.4  | 28.2 | 13.5 | 4.5   | 118.9 | 496.3   | 3.2 | 15.7 |
| 1977  | 3,351.3  | 343.2 | 32.5  | 267.3   | NA   | NA    | 208.1            | 46.3  | 1,686.5 | 4.3  | 29.5 | 24.4 | 7.2   | 121.0 | 565.8   | 4.5 | 10.9 |
| 1978  | 3,962.5  | 391.7 | 35.9  | 452.3   | NA   | NA    | 267.2            | 57.4  | 1,900.8 | 10.5 | 42.5 | 28.1 | 12.6  | 130.5 | 607.1   | 8.4 | 17.5 |
| 1979  | 4,473.5  | 422.5 | 48.0  | 528.7   | NA   | NA    | 273.9            | 66.9  | 2,216.0 | 4.0  | 40.1 | 28.5 | 11.1  | 143.9 | 671.6   | 6.9 | 11.4 |
| 1980  | 4,791.0  | 444.1 | 51.6  | 555.9   | NA   | 48.0  | 309.6            | 81.5  | 2,281.1 | 4.3  | 42.4 | 38.6 | 10.3  | 171.2 | 726.4   | 7.0 | 19.1 |
| 1981  | 5,062.9  | 491.4 | 51.8  | 726.0   | NA   | 56.1  | 310.4            | 67.5  | 2,363.6 | 3.0  | 34.2 | 31.3 | 12.8  | 183.5 | 695.1   | 7.4 | 28.5 |
| 1982  | 5,179.6  | 529.7 | 40.6  | 857.3   | NA   | 35.6  | 288.2            | 83.8  | 2,332.8 | 2.6  | 28.3 | 50.4 | 8.4   | 176.9 | 728.1   | 5.0 | 12.0 |
| 1983  | 5,680.6  | 566.0 | 51.0  | 940.3   | NA   | 34.9  | 320.0            | 50.3  | 2,602.2 | 1.5  | 32.0 | 43.4 | 6.4   | 203.8 | 798.8   | 4.7 | 25.4 |
| 1984  | 6,308.0  | 607.4 | 105.8 | 954.6   | NA   | 43.6  | 348.4            | 51.9  | 2,934.1 | .2   | 32.2 | 56.3 | 3.1   | 216.6 | 935.6   | 4.6 | 13.6 |
| 1985  | 7,257.9  | 652.8 | 81.2  | 1,061.1 | NA   | 69.6  | 451.7            | 65.2  | 3,440.0 | .2   | 33.1 | 57.0 | 3.4   | 251.0 | 1,078.7 | 5.4 | 7.6  |
| 1986  | 7,430.9  | 620.7 | 70.3  | 1,206.2 | NA   | 74.0  | 420.5            | 70.8  | 3,536.0 | 1    | 40.9 | 44.3 | 3.7   | 270.3 | 1,055.8 | 3.8 | 13.6 |
| 1987  | 8,567.3  | 674.7 | 88.8  | 1,278.5 | NA   | 280.8 | 475.1            | 74.3  | 4,195.3 | .1   | 39.4 | 53.3 | 8.3   | 309.8 | 1,069.5 | 3.9 | 15.3 |
| 1988  | 9,136.2  | 741.7 | 81.4  | 1,377.4 | NA   | 255.6 | 536.2            | 66.2  | 4,486.2 | **   | 41.6 | 48.5 | 8.0   | 363.7 | 1,102.0 | 3.6 | 24.2 |
| 1989  | 10,074.6 | 721.7 | 74.0  | 1,486.4 | NA   | 269.6 | 565.3            | 85.8  | 4,916.3 | .0   | 56.2 | 65.3 | 6.5   | 461.9 | 1,336.2 | 4.3 | 25.1 |
| 1990  | 10,443.1 | 762.1 | 110.4 | 1,342.2 | NA   | 260.1 | 556.1            | 93.6  | 5,198.4 | .1   | 60.5 | 47.4 | 8.6   | 511.3 | 1,445.1 | 4.6 | 42.6 |
| 1991  | 11,831.4 | 867.5 | 121.9 | 1,539.6 | NA   | 354.1 | 661.8            | 115.9 | 5,765.2 | **   | 82.8 | 31.9 | 5.8   | 592.9 | 1,642.3 | 5.4 | 44.1 |
| 1992  | 12,739.5 | 941.9 | 129.2 | 1,509.7 | NA   | 402.3 | 705.3            | 150.0 | 6,210.1 | .2   | 79.7 | 27.6 | 9.2   | 679.8 | 1,830.1 | 5.9 | 58.3 |
| 1993  | 12,724.7 | 940.5 | 109.8 | 1,833.9 | NA   | 156.4 | 716.2            | 152.7 | 6,023.1 | .4   | 77.7 | 11.5 | 6.6   | 737.1 | 1,858.4 | 4.8 | 95.6 |

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



**Table 5. Federal obligations for science and engineering to universities and colleges, by type of activity and agency: fiscal years 1963-93**

[Dollars in millions]

| Fiscal year                       | Total    | USDA  | Com  | DoD     | OEO  | Ed    | DOE <sup>1</sup> | EPA   | HHS     | HUD  | Int  | AID  | Labor | NASA  | NSF     | NRC | DOT  |
|-----------------------------------|----------|-------|------|---------|------|-------|------------------|-------|---------|------|------|------|-------|-------|---------|-----|------|
| Research and development (R&D)    |          |       |      |         |      |       |                  |       |         |      |      |      |       |       |         |     |      |
| 1963                              | 829.5    | 40.6  | 1.5  | 218.0   | NA   | NA    | 68.3             | NA    | 332.9   | NA   | 3.8  | NA   | NA    | 59.8  | 104.6   | NA  | NA   |
| 1964                              | 975.6    | 47.5  | 1.1  | 258.1   | NA   | NA    | 70.5             | NA    | 399.2   | NA   | 5.0  | NA   | NA    | 78.2  | 115.8   | NA  | NA   |
| 1965                              | 1,095.0  | 59.1  | 2.1  | 267.9   | NA   | NA    | 74.8             | NA    | 441.9   | NA   | 9.5  | NA   | NA    | 100.6 | 139.2   | NA  | NA   |
| 1966                              | 1,252.1  | 62.9  | 2.1  | 278.0   | NA   | NA    | 83.2             | NA    | 507.3   | NA   | 18.7 | NA   | NA    | 107.4 | 192.5   | NA  | NA   |
| 1967                              | 1,301.2  | 64.0  | 3.4  | 264.1   | NA   | NA    | 89.7             | NA    | 577.0   | NA   | 23.9 | NA   | NA    | 109.0 | 170.2   | NA  | NA   |
| 1968                              | 1,398.3  | 62.2  | 6.7  | 243.1   | 12.5 | NA    | 101.8            | NA    | 619.1   | 1.0  | 27.8 | NA   | 6.6   | 126.1 | 187.7   | NA  | 3.7  |
| 1969                              | 1,474.7  | 63.6  | 1.7  | 278.7   | 9.3  | NA    | 103.1            | NA    | 667.1   | 1.0  | 23.5 | 3.9  | 9.1   | 122.3 | 191.5   | NA  | NA   |
| 1970                              | 1,446.6  | 67.4  | 3.2  | 265.5   | 18.9 | NA    | 101.4            | NA    | 614.9   | .5   | 27.1 | 5.5  | 3.5   | 127.4 | 201.2   | NA  | 10.1 |
| 1971                              | 1,551.4  | 74.8  | 6.9  | 249.0   | 16.4 | NA    | 95.9             | 17.0  | 695.7   | .7   | 21.3 | 17.1 | 3.3   | 128.5 | 216.9   | NA  | 8.0  |
| 1972                              | 1,853.1  | 88.6  | 23.6 | 243.9   | 8.3  | NA    | 86.9             | 17.7  | 879.3   | 1.5  | 23.0 | 13.5 | 7.3   | 112.4 | 334.7   | NA  | 12.4 |
| 1973                              | 1,870.7  | 93.8  | 24.9 | 232.9   | 8.7  | NA    | 85.2             | 18.6  | 903.8   | .9   | 22.2 | 8.4  | 5.0   | 102.6 | 348.5   | NA  | 15.2 |
| 1974                              | 2,085.2  | 96.7  | 26.6 | 184.4   | 3.4  | NA    | 94.6             | 24.1  | 1,129.0 | .6   | 22.2 | 18.4 | 5.6   | 92.0  | 376.1   | NA  | 11.5 |
| 1975                              | 2,246.2  | 110.5 | 22.2 | 190.5   | NA   | NA    | 119.2            | 33.8  | 1,205.3 | 2.3  | 27.2 | 8.3  | 4.0   | 100.2 | 404.6   | .0  | 18.1 |
| 1976                              | 2,431.0  | 124.2 | 29.0 | 211.9   | NA   | NA    | 138.1            | 29.3  | 1,296.2 | 1.4  | 25.7 | 10.7 | 3.0   | 106.8 | 436.6   | 3.2 | 14.9 |
| 1977                              | 2,803.0  | 142.2 | 32.2 | 267.3   | NA   | NA    | 187.2            | 45.0  | 1,452.1 | 4.3  | 27.4 | 20.2 | 7.2   | 113.7 | 491.0   | 3.8 | 9.6  |
| 1978                              | 3,388.4  | 175.3 | 35.0 | 452.3   | NA   | NA    | 251.1            | 53.8  | 1,657.6 | 10.5 | 34.3 | 24.9 | 12.6  | 124.7 | 531.5   | 8.4 | 16.4 |
| 1979                              | 3,874.4  | 193.8 | 46.5 | 528.7   | NA   | NA    | 256.4            | 61.1  | 1,966.5 | 4.0  | 35.3 | 28.0 | 11.1  | 137.2 | 587.8   | 6.5 | 11.4 |
| 1980                              | 4,160.5  | 211.8 | 50.4 | 555.9   | NA   | 48.0  | 279.6            | 76.9  | 2,025.6 | 4.3  | 38.8 | 38.6 | 10.3  | 161.3 | 633.9   | 6.1 | 19.1 |
| 1981                              | 4,410.9  | 241.4 | 51.1 | 700.5   | NA   | 56.1  | 281.8            | 64.2  | 2,112.8 | 3.0  | 30.2 | 31.3 | 12.8  | 173.9 | 616.8   | 7.0 | 27.8 |
| 1982                              | 4,554.5  | 256.5 | 39.7 | 813.7   | NA   | 35.6  | 265.2            | 78.1  | 2,110.6 | .5   | 21.5 | 50.4 | 8.4   | 167.7 | 689.8   | 5.0 | 11.7 |
| 1983                              | 5,024.3  | 273.9 | 50.1 | 913.4   | NA   | 34.9  | 296.6            | 45.3  | 2,360.3 | 1.1  | 20.8 | 43.4 | 6.4   | 189.4 | 759.1   | 4.7 | 25.1 |
| 1984                              | 5,448.8  | 273.0 | 75.6 | 827.8   | NA   | 43.6  | 317.1            | 47.3  | 2,681.4 | .2   | 32.2 | 56.3 | 3.1   | 203.8 | 869.6   | 4.6 | 13.2 |
| 1985                              | 6,246.2  | 300.4 | 79.7 | 908.9   | NA   | 69.6  | 373.1            | 61.9  | 3,098.6 | .2   | 32.9 | 57.0 | 3.4   | 237.3 | 1,011.1 | 4.9 | 7.2  |
| 1986                              | 6,456.7  | 290.1 | 68.3 | 1,055.0 | NA   | 72.2  | 346.9            | 67.9  | 3,212.1 | .1   | 40.9 | 44.3 | 3.7   | 254.0 | 983.9   | 3.8 | 13.3 |
| 1987                              | 7,241.0  | 296.0 | 87.6 | 1,098.9 | NA   | 85.2  | 371.6            | 67.1  | 3,835.3 | .1   | 39.4 | 53.3 | 8.3   | 293.6 | 987.5   | 3.9 | 13.2 |
| 1988                              | 7,719.2  | 321.3 | 75.8 | 1,194.2 | NA   | 69.6  | 407.6            | 64.1  | 4,128.3 | **   | 39.1 | 48.5 | 8.0   | 339.5 | 998.3   | 3.6 | 21.3 |
| 1989                              | 8,522.6  | 336.0 | 66.0 | 1,220.6 | NA   | 68.6  | 448.7            | 77.5  | 4,512.0 | .0   | 52.8 | 65.3 | 6.5   | 435.7 | 1,206.6 | 4.3 | 21.9 |
| 1990                              | 9,005.8  | 349.1 | 97.3 | NA      | NA   | 71.1  | 496.8            | 87.1  | 4,774.5 | .1   | 57.8 | 47.4 | 8.6   | 470.7 | 1,304.6 | 4.6 | 39.2 |
| 1991                              | 10,027.3 | 408.8 | 61.9 | NA      | NA   | 94.5  | 613.7            | 104.3 | 5,301.2 | **   | 70.2 | 31.9 | 5.8   | 533.7 | 1,438.6 | 5.4 | 33.9 |
| 1992                              | 10,859.2 | 465.2 | 66.9 | NA      | NA   | 104.6 | 632.2            | 135.4 | 5,784.2 | .2   | 67.6 | 27.6 | 9.0   | 605.6 | 1,604.1 | 5.9 | 36.4 |
| 1993                              | 10,940.1 | 462.5 | 58.4 | NA      | NA   | 94.8  | 582.1            | 142.6 | 5,610.3 | .4   | 69.8 | 11.5 | 6.2   | 631.1 | 1,605.9 | 4.8 | 72.7 |
| DoD research only <sup>2</sup>    |          |       |      |         |      |       |                  |       |         |      |      |      |       |       |         |     |      |
| 1990                              | NA       | NA    | NA   | 720.6   | NA   | NA    | NA               | NA    | NA      | NA   | NA   | NA   | NA    | NA    | NA      | NA  | NA   |
| 1991                              | NA       | NA    | NA   | 840.5   | NA   | NA    | NA               | NA    | NA      | NA   | NA   | NA   | NA    | NA    | NA      | NA  | NA   |
| 1992                              | NA       | NA    | NA   | 838.9   | NA   | NA    | NA               | NA    | NA      | NA   | NA   | NA   | NA    | NA    | NA      | NA  | NA   |
| 1993                              | NA       | NA    | NA   | 1,130.0 | NA   | NA    | NA               | NA    | NA      | NA   | NA   | NA   | NA    | NA    | NA      | NA  | NA   |
| DoD development only <sup>2</sup> |          |       |      |         |      |       |                  |       |         |      |      |      |       |       |         |     |      |
| 1990                              | NA       | NA    | NA   | 476.3   | NA   | NA    | NA               | NA    | NA      | NA   | NA   | NA   | NA    | NA    | NA      | NA  | NA   |
| 1991                              | NA       | NA    | NA   | 482.7   | NA   | NA    | NA               | NA    | NA      | NA   | NA   | NA   | NA    | NA    | NA      | NA  | NA   |
| 1992                              | NA       | NA    | NA   | 475.5   | NA   | NA    | NA               | NA    | NA      | NA   | NA   | NA   | NA    | NA    | NA      | NA  | NA   |
| 1993                              | NA       | NA    | NA   | 456.9   | NA   | NA    | NA               | NA    | NA      | NA   | NA   | NA   | NA    | NA    | NA      | NA  | NA   |

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

Table 5. Federal obligations for science and engineering to universities and colleges, by type of activity and agency: fiscal years 1963-93

[Dollars in millions]

| Fiscal year                       | Total | USDA | Com | DoD  | OEO | Ed   | DOE   | EPA | HHS  | HUD | Int | AID | Labor | NASA | NSF  | NRC | DOT |
|-----------------------------------|-------|------|-----|------|-----|------|-------|-----|------|-----|-----|-----|-------|------|------|-----|-----|
| R&D plant                         |       |      |     |      |     |      |       |     |      |     |     |     |       |      |      |     |     |
| 1963                              | 105.9 | .0   | .0  | 0    | NA  | NA   | 2.6   | NA  | 39.2 | NA  | 0.1 | NA  | NA    | 13.4 | 50.6 | NA  | NA  |
| 1964                              | 100.8 | .0   | .0  | .0   | NA  | NA   | 4.0   | NA  | 39.9 | NA  | .0  | NA  | NA    | 9.1  | 47.8 | NA  | NA  |
| 1965                              | 126.2 | 3.2  | 0   | .0   | NA  | NA   | 3.8   | NA  | 54.8 | NA  | **  | NA  | NA    | 8.4  | 56.0 | NA  | NA  |
| 1966                              | 114.8 | 2.0  | 0   | .0   | NA  | NA   | 7.4   | NA  | 48.5 | NA  | .2  | NA  | NA    | 7.4  | 49.3 | NA  | NA  |
| 1967                              | 111.3 | 2.0  | 0.3 | .0   | NA  | NA   | 13.8  | NA  | 38.1 | NA  | .0  | NA  | NA    | 5.0  | 52.1 | NA  | NA  |
| 1968                              | 96.1  | 1.9  | .2  | .0   | .0  | NA   | 11.9  | NA  | 36.9 | .0  | .0  | NA  | .0    | .0   | 45.3 | NA  | .0  |
| 1969                              | 54.5  | 1.2  | .0  | .0   | .0  | NA   | 11.4  | NA  | 20.5 | .0  | **  | .0  | .0    | .0   | 21.4 | NA  | NA  |
| 1970                              | 44.8  | 1.1  | **  | .0   | .0  | NA   | 7.1   | NA  | 20.0 | .0  | .0  | .0  | .0    | .0   | 16.5 | NA  | .0  |
| 1971                              | 29.9  | 0    | .0  | .0   | .0  | NA   | 4.8   | .0  | 15.2 | .0  | .0  | .0  | .0    | .2   | 9.7  | NA  | .0  |
| 1972                              | 36.9  | .0   | .0  | .0   | .0  | NA   | 4.1   | 0   | 22.2 | .0  | .0  | .0  | .0    | .6   | 10.0 | NA  | .0  |
| 1973                              | 43.3  | .0   | .3  | .0   | .0  | NA   | 5.6   | .0  | 26.7 | .0  | .2  | .0  | .0    | 3.0  | 7.4  | NA  | .0  |
| 1974                              | 29.0  | .0   | .0  | .0   | .0  | NA   | 4.2   | .0  | 14.5 | .0  | .0  | .0  | .0    | .1   | 10.2 | NA  | .0  |
| 1975                              | 44.8  | .0   | .0  | .0   | .0  | NA   | 4.2   | .0  | 22.9 | .0  | .0  | .0  | .0    | .1   | 17.6 | .0  | .0  |
| 1976                              | 23.9  | .0   | 1.0 | .0   | .0  | NA   | 5.6   | .0  | 11.4 | .0  | .0  | .0  | .0    | .1   | 5.9  | .0  | .0  |
| 1977                              | 36.5  | .0   | .0  | .0   | .0  | NA   | 17.5  | .0  | 11.1 | .0  | .0  | .0  | .0    | **   | 7.3  | .0  | 0.5 |
| 1978                              | 34.3  | .0   | .0  | .0   | NA  | NA   | 13.4  | **  | 9.9  | .0  | .0  | .0  | .0    | .0   | 11.0 | .0  | **  |
| 1979                              | 32.1  | .0   | .0  | .0   | NA  | NA   | 9.1   | .0  | 7.5  | .0  | .0  | 0.5 | .0    | .2   | 14.7 | .0  | .0  |
| 1980                              | 37.8  | .0   | .0  | .0   | NA  | .0   | 20.6  | .0  | 4.4  | .0  | .0  | .0  | .0    | .2   | 12.6 | .0  | .0  |
| 1981                              | 27.7  | .0   | .0  | 1.1  | NA  | .0   | 19.6  | .0  | 2.0  | .0  | .0  | .0  | .0    | .1   | 4.9  | .0  | .0  |
| 1982                              | 31.2  | .0   | .0  | .5   | NA  | .0   | 18.8  | 1.4 | 5.4  | .0  | .0  | .0  | .0    | .2   | 4.9  | .0  | .0  |
| 1983                              | 37.5  | 9.6  | .0  | 0    | NA  | .0   | 17.2  | .1  | 1.5  | .0  | .0  | .0  | .0    | 1.5  | 7.7  | .0  | .0  |
| 1984                              | 49.8  | 9.6  | .0  | .0   | NA  | .0   | 29.5  | .1  | .7   | .0  | .0  | .0  | .0    | .3   | 9.7  | .0  | .0  |
| 1985                              | 113.9 | 9.6  | .0  | **   | NA  | .0   | 77.7  | .1  | 11.4 | .0  | .0  | .0  | .0    | .2   | 14.9 | .0  | .0  |
| 1986                              | 105.8 | 9.1  | 1.2 | .0   | NA  | 1.8  | 73.0  | .0  | 4.2  | .0  | .0  | .0  | .0    | .4   | 16.0 | .0  | .0  |
| 1987                              | 229.9 | 65.4 | .1  | .0   | NA  | 49.2 | 102.9 | .0  | 4.2  | .0  | .0  | .0  | .0    | .6   | 7.4  | .0  | .0  |
| 1988                              | 202.9 | 68.0 | .0  | .0   | NA  | 1.3  | 127.7 | .0  | .0   | .0  | .0  | .0  | .0    | .6   | 5.4  | .0  | .0  |
| 1989                              | 237.0 | 31.1 | 1.2 | 57.9 | NA  | 1.3  | 115.5 | .0  | 22.0 | .0  | .0  | .0  | .0    | 1.2  | 6.7  | .0  | .0  |
| 1990                              | 124.8 | 45.1 | .1  | .0   | NA  | .0   | 57.2  | .0  | 13.7 | .0  | .0  | .0  | .0    | 1.3  | 7.5  | .0  | .0  |
| 1991                              | 151.8 | 58.3 | .3  | 14.7 | NA  | 2.1  | 41.4  | .0  | 25.5 | .0  | .0  | .0  | .0    | .8   | 8.8  | .0  | .0  |
| 1992                              | 204.7 | 58.3 | .2  | .0   | NA  | .4   | 63.7  | .0  | 17.2 | .0  | .0  | .0  | .0    | 1.1  | 63.8 | .0  | .0  |
| 1993                              | 259.4 | 55.1 | .4  | .0   | NA  | 0    | 120.2 | .0  | 10.6 | .0  | .0  | .0  | .0    | 9.9  | 63.3 | .0  | .0  |
| Facilities for instruction in S&E |       |      |     |      |     |      |       |     |      |     |     |     |       |      |      |     |     |
| 1971 <sup>3</sup>                 | 28.7  | 0.3  | .0  | .0   | .0  | NA   | 2.3   | .0  | 13.9 | .0  | 0.1 | .0  | .0    | .0   | 12.1 | NA  | .0  |
| 1972                              | 26.3  | .5   | .0  | .0   | .0  | NA   | 1.9   | .0  | 20.9 | .0  | .0  | .0  | .0    | .0   | 3.0  | NA  | .0  |
| 1973                              | 13.4  | .0   | .0  | .0   | .0  | NA   | 2.3   | .0  | 9.4  | .0  | .1  | .0  | .0    | .0   | 1.6  | NA  | .0  |
| 1974                              | 3.5   | .0   | .0  | .0   | .0  | NA   | .0    | .0  | .4   | .0  | **  | .0  | .0    | .0   | 3.1  | NA  | .0  |
| 1975                              | 5.0   | .0   | 0.1 | .0   | .0  | NA   | .0    | .0  | 4.9  | .0  | .0  | .0  | .0    | .0   | **   | .0  | .0  |
| 1976                              | 3.2   | .0   | .3  | .0   | NA  | NA   | .0    | .0  | .0   | .0  | .0  | .0  | .0    | .0   | 3.0  | .0  | .0  |
| 1977                              | 3.3   | .0   | .0  | .0   | NA  | NA   | .4    | .0  | .0   | .0  | .0  | .0  | .0    | .0   | 2.9  | .0  | .0  |
| 1978                              | 4.9   | .0   | .0  | .0   | NA  | NA   | 1.3   | .0  | .0   | .0  | **  | .0  | .0    | .0   | 3.5  | .0  | .0  |
| 1979                              | 6.7   | .0   | .0  | .0   | NA  | NA   | 3.5   | .0  | .0   | .0  | .0  | .0  | .0    | .0   | 3.2  | .0  | .0  |
| 1980                              | 3.8   | .0   | .0  | .0   | NA  | .0   | .9    | 0.1 | .0   | .0  | .0  | .0  | .0    | .0   | 2.8  | .0  | .0  |
| 1981                              | 4.6   | .0   | 0   | 0.2  | NA  | .0   | 1.1   | **  | .0   | .0  | .0  | .0  | .0    | .0   | 3.2  | .0  | .0  |
| 1982                              | .8    | .0   | .0  | **   | NA  | .0   | .8    | .0  | .0   | .0  | .0  | .0  | .0    | .0   | .0   | .0  | .0  |
| 1983                              | 2.5   | .0   | .0  | .0   | NA  | .0   | 2.3   | .2  | .0   | .0  | .0  | .0  | .0    | .0   | .0   | .0  | .0  |
| 1984                              | 1.9   | .0   | 1.6 | .3   | NA  | .0   | .0    | .0  | .0   | .0  | .0  | .0  | .0    | .0   | .0   | .0  | .0  |
| 1985                              | 4.9   | .0   | .0  | 0    | NA  | .0   | 0     | .0  | .0   | .0  | .0  | .0  | .0    | .0   | 4.8  | 0.1 | .0  |
| 1986                              | 5.0   | .0   | 0   | .0   | NA  | .0   | .0    | .0  | .0   | .0  | .0  | .0  | .0    | .0   | 5.0  | .0  | .0  |
| 1987                              | 13.7  | .0   | .0  | .0   | NA  | 5.0  | .0    | .0  | .0   | .0  | .0  | .0  | .0    | .0   | 8.7  | .0  | .0  |
| 1988                              | 13.3  | .0   | 2.5 | 0    | NA  | 0    | 0     | .0  | .0   | .0  | .4  | .0  | .0    | .0   | 10.4 | .0  | .0  |
| 1989                              | 16.9  | 0    | 1.6 | .0   | NA  | .0   | .0    | .0  | .0   | .0  | .0  | .0  | .0    | .0   | 15.3 | .0  | .0  |
| 1990                              | 19.2  | .0   | 4.5 | .0   | NA  | .0   | .0    | .0  | .0   | .0  | .0  | .0  | .0    | .0   | 14.7 | .0  | .0  |
| 991                               | 32.8  | .0   | 4.7 | 1    | NA  | .0   | .0    | .0  | .0   | .0  | .0  | .0  | .0    | .0   | 21.8 | .0  | 6.2 |
| 1992                              | 38.5  | .0   | 7.0 | 0    | NA  | 0    | 1.3   | .0  | 0    | .0  | .0  | .0  | .0    | .0   | 21.2 | .0  | 9.0 |
| 1993                              | 32.2  | 0    | 4.0 | .0   | NA  | .0   | .0    | 0   | 0    | .0  | 0   | .0  | .0    | .0   | 21.1 | .0  | 7.1 |

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

**Table 5. Federal obligations for science and engineering to universities and colleges, by type of activity and agency: fiscal years 1963-93**

[Dollars in millions]

| Fiscal year                                    | Total | USDA | Com  | DoD | OEO | Ed    | DOE <sup>1</sup> | EPA  | HHS   | HUD | Int  | AID | Labor | NASA | NSF  | NRC | DOT |
|--|-------|------|------|-----|-----|-------|------------------|------|-------|-----|------|-----|-------|------|------|-----|-----|
| Fellowships, traineeships, and training grants |       |      |      |     |     |       |                  |      |       |     |      |     |       |      |      |     |     |
| 1966 <sup>3</sup>                              | 365.6 | NA   | .0   | NA  | NA  | NA    | 3.2              | NA   | 289.9 | NA  | .0   | NA  | NA    | 25.0 | 47.5 | NA  | NA  |
| 1967   | 447.2 | NA   | .0   | NA  | NA  | NA    | 3.7              | NA   | 379.1 | NA  | .0   | NA  | NA    | 15.0 | 49.4 | NA  | NA  |
| 1968   | 440.9 | NA   | .0   | NA  | .0  | NA    | 3.6              | NA   | 387.0 | NA  | .0   | NA  | .0    | .9   | 49.4 | NA  | .0  |
| 1969   | 436.3 | NA   | .0   | NA  | .0  | NA    | 5.5              | NA   | 375.7 | NA  | .0   | NA  | .0    | 1.3  | 53.8 | NA  | NA  |
| 1970   | 429.4 | NA   | .0   | NA  | .0  | NA    | 5.0              | NA   | 369.6 | NA  | .0   | NA  | .0    | 2.1  | 52.7 | NA  | .0  |
| 1971   | 421.0 | .0   | .0   | .0  | .0  | NA    | 2.6              | 10.1 | 361.4 | .0  | .0   | .0  | 0.6   | 1.0  | 42.3 | NA  | 2.8 |
| 1972   | 387.9 | .0   | 0.4  | .0  | .0  | NA    | 2.0              | 5.6  | 346.6 | .0  | .0   | .0  | .0    | 1.1  | 28.8 | NA  | 3.5 |
| 1973   | 287.2 | .0   | .6   | .0  | .0  | NA    | 2.3              | 9.2  | 256.8 | .0  | .0   | .0  | .0    | 1.3  | 16.4 | NA  | .7  |
| 1974   | 326.6 | .0   | .0   | .0  | 0.7 | NA    | .5               | 6.8  | 301.5 | .0  | .0   | .0  | .0    | 1.2  | 14.4 | NA  | 1.3 |
| 1975   | 201.3 | .0   | .0   | .0  | NA  | NA    | .7               | 5.0  | 181.7 | .0  | .0   | .0  | .0    | 1.3  | 9.7  | .0  | 2.7 |
| 1976   | 174.9 | .0   | .0   | .0  | NA  | NA    | .1               | 3.6  | 155.6 | .0  | .0   | .0  | .0    | 1.3  | 13.4 | **  | .8  |
| 1977   | 184.7 | .0   | .0   | .0  | NA  | NA    | .2               | 1.3  | 165.9 | .0  | .0   | .0  | .0    | 1.4  | 14.8 | 0.1 | .8  |
| 1978   | 205.9 | .0   | .0   | .0  | NA  | NA    | .7               | 3.6  | 184.2 | .0  | 3.2  | 0.6 | .0    | 1.3  | 11.7 | **  | .6  |
| 1979   | 204.9 | .0   | .0   | .0  | NA  | NA    | 1.9              | 4.5  | 182.3 | .0  | .3   | .0  | .0    | 1.8  | 14.1 | .0  | .0  |
| 1980   | 210.1 | .0   | .0   | .0  | NA  | .0    | .0               | 4.5  | 187.6 | .0  | 1.4  | .0  | .0    | 2.8  | 13.8 | .0  | .0  |
| 1981   | 205.4 | .0   | .0   | .0  | NA  | .0    | .0               | 2.4  | 183.5 | .0  | .9   | .0  | .0    | 3.7  | 14.8 | .1  | .0  |
| 1982   | 176.6 | .0   | .0   | .0  | NA  | .0    | .3               | 2.5  | 151.9 | .0  | .0   | .0  | .0    | 4.2  | 17.5 | .0  | .4  |
| 1983   | 189.6 | 0.2  | .2   | 0.7 | NA  | .0    | .2               | 2.6  | 164.0 | .0  | .0   | .0  | .0    | 5.2  | 16.2 | .0  | .3  |
| 1984   | 194.9 | .2   | .1   | .0  | NA  | .0    | .6               | 1.8  | 164.6 | .0  | .0   | .0  | .0    | 5.3  | 21.8 | .0  | .4  |
| 1985   | 253.1 | 7.0  | .1   | .8  | NA  | .0    | .4               | 2.1  | 210.9 | .0  | .0   | .0  | .0    | 5.6  | 25.8 | .0  | .4  |
| 1986   | 246.2 | 4.7  | .0   | .5  | NA  | .0    | .5               | 2.8  | 204.3 | .0  | .0   | .0  | .0    | 7.9  | 25.2 | .0  | .2  |
| 1987   | 290.9 | 4.7  | .6   | 2.3 | NA  | 11.8  | .6               | 1.8  | 232.5 | .0  | .0   | .0  | .0    | 8.7  | 27.7 | .0  | .2  |
| 1988   | 309.3 | 4.6  | 2.6  | 1.5 | NA  | 13.5  | .7               | 2.0  | 239.3 | .0  | .0   | .0  | **    | 15.8 | 29.2 | .0  | .0  |
| 1989   | 340.5 | 4.6  | 1.2  | .1  | NA  | 22.9  | .9               | 8.3  | 256.2 | .0  | .0   | .0  | **    | 13.0 | 33.0 | .0  | .2  |
| 1990   | 393.8 | 7.8  | .7   | .1  | NA  | 28.5  | 1.6              | 3.5  | 288.9 | .0  | **   | .0  | .0    | 21.7 | 41.0 | .0  | .1  |
| 1991   | 469.3 | 10.9 | 3.9  | 1.3 | NA  | 53.9  | 6.7              | 8.0  | 313.2 | .0  | .0   | .0  | .0    | 36.3 | 34.5 | .0  | .6  |
| 1992   | 509.8 | 10.5 | 4.0  | 2.7 | NA  | 63.8  | 8.1              | 10.6 | 320.3 | .0  | .0   | .0  | .1    | 40.4 | 46.1 | .0  | 3.0 |
| 1993   | 524.8 | 10.5 | 2.1  | 2.2 | NA  | 57.7  | 13.8             | 8.1  | 335.0 | .0  | .0   | .0  | .4    | 42.1 | 47.1 | .0  | 5.9 |
| General support for S&E                        |       |      |      |     |     |       |                  |      |       |     |      |     |       |      |      |     |     |
| 1971 <sup>3</sup>                              | 99.7  | .0   | 0.2  | .0  | .0  | NA    | .0               | .0   | 40.2  | .0  | 1.1  | .0  | 1.2   | .0   | 56.9 | NA  | .0  |
| 1972   | 83.3  | .0   | 1.5  | .0  | .0  | NA    | .0               | .0   | 40.7  | .0  | 1.2  | 5.2 | .0    | .0   | 34.7 | NA  | .0  |
| 1973   | 39.0  | .0   | .0   | .0  | .0  | NA    | .0               | .0   | 20.2  | .0  | 1.3  | 2.3 | .9    | .0   | 14.2 | NA  | .0  |
| 1974   | 87.0  | .0   | .5   | .0  | .0  | NA    | .0               | .0   | 64.2  | .0  | 1.6  | 1.5 | 1.4   | .0   | 17.8 | NA  | .0  |
| 1975   | 46.4  | .0   | 1.8  | .0  | NA  | NA    | .0               | .0   | 37.3  | .0  | 1.6  | 4.2 | 1.5   | .0   | .0   | .0  | .0  |
| 1976   | 74.5  | .0   | 4.4  | .0  | NA  | NA    | .0               | .0   | 41.8  | .0  | 2.4  | 2.8 | 1.5   | .0   | 21.6 | .0  | .0  |
| 1977   | 75.9  | .0   | .0   | .0  | NA  | NA    | 2.5              | .0   | 42.0  | .0  | 1.8  | 4.1 | .0    | .0   | 24.8 | 0.7 | .0  |
| 1978   | 74.4  | .0   | .0   | .0  | NA  | NA    | .3               | .0   | 45.0  | .0  | 5.0  | .0  | .0    | .0   | 23.8 | .0  | 0.3 |
| 1979   | 92.5  | 4.7  | .0   | .0  | NA  | NA    | **               | 1.3  | 52.8  | .0  | 4.4  | .0  | .0    | .0   | 29.3 | .0  | .0  |
| 1980   | 91.5  | .0   | .0   | .0  | NA  | .0    | 5.6              | .0   | 60.1  | .0  | 2.3  | .0  | .0    | .0   | 23.2 | .4  | .0  |
| 1981   | 92.7  | .0   | .0   | 7.1 | NA  | .0    | .0               | .9   | 60.0  | .0  | 3.1  | .0  | .0    | .0   | 21.0 | .0  | .7  |
| 1982   | 80.1  | .0   | .0   | 4.8 | NA  | .0    | **               | 1.7  | 61.3  | 2.0 | 6.8  | .0  | .0    | .0   | 3.5  | .0  | .0  |
| 1983   | 94.8  | .0   | .0   | 3.2 | NA  | **    | 3.7              | 1.6  | 73.6  | .4  | 11.2 | .0  | .0    | .0   | 1.2  | .0  | .0  |
| 1984   | 112.6 | .0   | 20.3 | 3.7 | NA  | .0    | .6               | 2.7  | 83.9  | .0  | .0   | .0  | .0    | .0   | 1.5  | .0  | .0  |
| 1985   | 119.2 | .0   | **   | 1.8 | NA  | .0    | .4               | 1.1  | 112.5 | .0  | .3   | .0  | .0    | .0   | 3.0  | .0  | .0  |
| 1986   | 111.1 | .0   | **   | 2.1 | NA  | .0    | .0               | .0   | 106.1 | .0  | .0   | .0  | .0    | .0   | 2.8  | .0  | .0  |
| 1987   | 236.9 | .0   | .0   | 5.9 | NA  | 108.1 | .0               | 4.3  | 113.1 | .0  | .0   | .0  | .0    | .0   | 5.5  | .0  | .0  |
| 1988   | 171.8 | .0   | .0   | 2.5 | NA  | 54.8  | .2               | .0   | 109.0 | .0  | 2.1  | .0  | .0    | .0   | 3.4  | .0  | .0  |
| 1989   | 197.7 | .0   | .0   | 1.8 | NA  | 80.2  | .0               | .0   | 109.5 | .0  | 3.3  | .0  | .0    | .0   | 2.9  | .0  | .0  |
| 1990   | 143.9 | .0   | 1.0  | .0  | NA  | 30.1  | .5               | 3.1  | 102.2 | .0  | 2.7  | .0  | .0    | .0   | 4.3  | .0  | .0  |
| 1991   | 192.8 | .0   | 29.4 | .0  | NA  | 32.1  | .2               | 3.5  | 108.7 | .0  | 12.5 | .0  | .0    | .0   | 6.4  | .0  | .0  |
| 1992   | 159.2 | .0   | 28.2 | .0  | NA  | 36.5  | .0               | 4.0  | 69.3  | .0  | 12.1 | .0  | .0    | .0   | 7.7  | .0  | 1.5 |
| 1993   | 66.1  | **   | 15.0 | **  | NA  | 4.0   | .0               | 1.9  | 26.6  | .0  | 7.8  | .0  | .0    | .0   | 9.8  | .0  | .8  |

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

**Table 5. Federal obligations for science and engineering to universities and colleges, by type of activity and agency: fiscal years 1963-93**

[Dollars in millions]

| Fiscal year          | Total | USDA  | Com  | DoD   | OEO | Ed    | DOE <sup>1</sup> | EPA | HHS   | HUD | Int | AID | Labor | NASA | NSF   | NRC | DOT |
|----------------------|-------|-------|------|-------|-----|-------|------------------|-----|-------|-----|-----|-----|-------|------|-------|-----|-----|
| Other S&E activities |       |       |      |       |     |       |                  |     |       |     |     |     |       |      |       |     |     |
| 1963                 | 393.1 | 63.4  | 0.3  | .0    | NA  | NA    | 5.3              | NA  | 208.9 | NA  | **  | NA  | NA    | 14.1 | 101.1 | NA  | NA  |
| 1964                 | 452.2 | 67.5  | 5    | .0    | NA  | NA    | 5.4              | NA  | 244.6 | NA  | **  | NA  | NA    | 20.2 | 113.9 | NA  | NA  |
| 1965                 | 595.0 | 73.3  | .6   | .0    | NA  | NA    | 5.9              | NA  | 359.8 | NA  | **  | NA  | NA    | 25.4 | 130.1 | NA  | NA  |
| 1966                 | 431.0 | 76.1  | .7   | .0    | NA  | NA    | 3.1              | NA  | 263.4 | NA  | 0.2 | NA  | NA    | 2.3  | 85.2  | NA  | NA  |
| 1967                 | 464.0 | 78.8  | .7   | .0    | NA  | NA    | 2.5              | NA  | 256.7 | NA  | **  | NA  | NA    | 2.4  | 122.8 | NA  | NA  |
| 1968                 | 414.5 | 80.1  | 1.0  | .0    | .0  | NA    | 2.5              | NA  | 186.4 | 0.7 | .4  | NA  | .0    | 2.8  | 140.5 | NA  | **  |
| 1969                 | 395.9 | 91.1  | 5    | **    | .0  | NA    | 1.0              | NA  | 198.4 | .1  | .9  | .0  | .0    | 3.7  | 100.2 | NA  | NA  |
| 1970                 | 266.8 | 113.5 | .7   | **    | .0  | NA    | 1.0              | NA  | 32.2  | .0  | .6  | .0  | .0    | 1.7  | 117.0 | NA  | .0  |
| 1971                 | 212.4 | 139.5 | .5   | .0    | .0  | NA    | .3               | .0  | 15.9  | .0  | .0  | 2.0 | 0.1   | 4.2  | 49.9  | NA  | .0  |
| 1972                 | 211.6 | 149.5 | .6   | .0    | .0  | NA    | .5               | .0  | 8.6   | .0  | .0  | .0  | .0    | 4.9  | 47.5  | NA  | .0  |
| 1973                 | 210.8 | 163.0 | 2.7  | .0    | .0  | NA    | .8               | .0  | 8.0   | .0  | .0  | .0  | .4    | 4.5  | 31.4  | NA  | .0  |
| 1974                 | 205.7 | 164.0 | 2.2  | .0    | .0  | NA    | .2               | .0  | 5.7   | .0  | .0  | .0  | .0    | 5.7  | 27.9  | NA  | .0  |
| 1975                 | 262.3 | 180.2 | 1.7  | .0    | NA  | NA    | .1               | .0  | 15.3  | .0  | .0  | .0  | **    | 6.4  | 58.6  | **  | .0  |
| 1976                 | 252.2 | 204.4 | 3.6  | .0    | NA  | NA    | .3               | .0  | 17.1  | .0  | .1  | .0  | .0    | 10.7 | 16.0  | .0  | .0  |
| 1977                 | 248.0 | 201.0 | .3   | .0    | NA  | NA    | .3               | .0  | 15.4  | .0  | .3  | .0  | .0    | 5.9  | 24.9  | .0  | .0  |
| 1978                 | 254.5 | 216.4 | .9   | .0    | NA  | NA    | .3               | .0  | 4.1   | .0  | .0  | 2.6 | .0    | 4.4  | 25.6  | .0  | 0.2 |
| 1979                 | 263.0 | 224.0 | 1.5  | .0    | NA  | NA    | 3.0              | 0.1 | 6.9   | .0  | .0  | .0  | .0    | 4.7  | 22.4  | 0.4 | .0  |
| 1980                 | 287.2 | 232.3 | 1.2  | .0    | NA  | .0    | 2.8              | .0  | 3.4   | .0  | .0  | .0  | .0    | 6.9  | 40.2  | 5   | .0  |
| 1981                 | 321.5 | 250.0 | .7   | 17.1  | NA  | .0    | 7.9              | **  | 5.3   | .0  | **  | .0  | .0    | 5.7  | 34.4  | 4   | **  |
| 1982                 | 336.4 | 273.2 | .8   | 38.2  | NA  | .0    | 3.1              | .2  | 3.6   | **  | .0  | .0  | .0    | 4.8  | 12.4  | .0  | .0  |
| 1983                 | 331.8 | 282.3 | .6   | 22.9  | NA  | .0    | **               | .5  | 2.8   | **  | **  | .0  | .0    | 7.8  | 14.8  | .0  | .0  |
| 1984                 | 500.1 | 324.7 | 8.2  | 122.8 | NA  | .0    | .7               | **  | 3.5   | .0  | .0  | .0  | **    | 7.1  | 33.0  | .0  | .0  |
| 1985                 | 520.5 | 335.7 | 1.4  | 149.5 | NA  | .0    | .1               | .0  | 6.5   | .0  | .0  | .0  | **    | 7.9  | 19.0  | .3  | **  |
| 1986                 | 506.0 | 316.8 | 8    | 148.5 | NA  | 0     | **               | .0  | 9.1   | .0  | .0  | .0  | .0    | 7.9  | 22.9  | .0  | **  |
| 1987                 | 554.8 | 308.6 | .6   | 171.4 | NA  | 21.4  | .0               | 1.1 | 10.3  | .0  | .0  | .0  | .0    | 6.9  | 32.7  | .0  | 1.8 |
| 1988                 | 719.6 | 347.9 | .5   | 179.3 | NA  | 116.4 | .0               | .0  | 9.6   | .0  | .0  | .0  | .0    | 7.8  | 55.3  | .0  | 2.9 |
| 1989                 | 759.9 | 349.9 | 3.8  | 206.1 | NA  | 96.6  | .1               | .0  | 16.5  | .0  | .0  | .0  | .0    | 12.0 | 71.8  | .0  | 3.1 |
| 1990                 | 755.5 | 360.0 | 6.8  | 145.2 | NA  | 130.4 | .0               | .0  | 19.2  | .0  | .0  | .0  | .0    | 17.5 | 73.0  | .0  | 3.3 |
| 1991                 | 957.4 | 389.4 | 21.8 | 200.2 | NA  | 171.6 | .0               | .1  | 16.6  | .0  | .1  | .0  | .0    | 22.1 | 132.1 | .0  | 3.5 |
| 1992                 | 968.0 | 408.0 | 22.9 | 192.6 | NA  | 197.0 | .0               | .1  | 19.2  | .0  | .0  | .0  | .0    | 32.7 | 87.2  | .0  | 8.3 |
| 1993                 | 902.0 | 412.5 | 29.9 | 244.9 | NA  | .0    | .0               | .1  | 40.5  | .0  | .0  | .0  | .0    | 54.0 | 111.2 | .0  | 9.0 |

<sup>1</sup> Data shown for fiscal years 1963-74 and fiscal years 1975-77 represent obligations of the Atomic Energy Commission and the Energy Research and Development Administration, respectively.

<sup>2</sup> 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 university-administered laboratories that are separate from the academic departments.

<sup>3</sup> Data collected before this year are not separately identified but are included under "Other S&E activities."

**NOTE:** Some trend shifts are related to institutional reclassification. As of 1978 two laboratories that were formerly considered academically administered federally funded research and development centers became part of their respective institutions: Applied Physics Laboratory (Johns Hopkins University) and Applied Research Laboratory (Pennsylvania State University). Data for these laboratories are thus included in the academic figures for 1978-93 but are excluded for prior years. Similarly, Draper Laboratories separated from the Massachusetts Institute of Technology as of fiscal year 1974 to become an independent nonprofit institution; academic data shown for 1963-73 include Draper Laboratories, whereas those for 1974-93 do not.

**KEY:**  
 AID = Agency for International Development  
 Com = Department of Commerce  
 DoD = Department of Defense  
 DOE = Department of Energy  
 DOT = Department of Transportation  
 Ed = Department of Education  
 EPA = Environmental Protection Agency  
 HHS = Department of Health and Human Services  
 HUD = Department of Housing and Urban Development  
 Int = Department of the Interior  
 NA = Not available  
 NASA = National Aeronautics and Space Administration  
 NRC = Nuclear Regulatory Commission  
 NSF = National Science Foundation  
 OEO = Office of Economic Opportunity  
 USDA = U. S. Department of Agriculture  
 \*\* = Amount less than \$50,000

**SOURCE:** National Science Foundation/SRS, Survey of Federal Support to Universities, Colleges, and Nonprofit Institutions, Fiscal Year 1993

**Table 6. Federal obligations for science and engineering to universities and colleges, by geographic division and State: fiscal years 1986-93**

[Dollars in thousands]

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| Geographic division and State | 1986      | 1987      | 1988      | 1989       | 1990       | 1991       | 1992       | 1993       |
|-------------------------------|-----------|-----------|-----------|------------|------------|------------|------------|------------|
| United States. total          | 7,430,872 | 8,567,284 | 9,136,202 | 10,074,620 | 10,443,105 | 11,831,388 | 12,739,476 | 12,724,675 |
| New England. total            | 837,310   | 925,630   | 960,239   | 1,050,489  | 1,080,855  | 1,185,425  | 1,274,966  | 1,297,735  |
| Connecticut                   | 163,251   | 199,015   | 200,431   | 212,825    | 211,615    | 227,412    | 248,516    | 250,100    |
| Maine                         | 8,871     | 12,315    | 10,567    | 13,472     | 14,400     | 14,106     | 16,958     | 21,668     |
| Massachusetts                 | 555,293   | 596,293   | 613,375   | 695,041    | 703,406    | 770,251    | 832,153    | 854,337    |
| New Hampshire                 | 33,530    | 37,833    | 41,049    | 40,744     | 56,636     | 62,151     | 72,275     | 69,368     |
| Rhode Island                  | 51,674    | 50,654    | 52,935    | 54,066     | 58,013     | 66,939     | 66,474     | 61,632     |
| Vermont                       | 24,691    | 29,520    | 41,882    | 34,341     | 36,785     | 44,566     | 38,590     | 40,630     |
| Middle Atlantic. total        | 1,253,758 | 1,418,321 | 1,570,367 | 1,629,812  | 1,704,065  | 1,942,085  | 2,062,451  | 2,070,291  |
| New Jersey                    | 96,498    | 112,397   | 125,296   | 137,552    | 154,612    | 174,224    | 188,861    | 220,654    |
| New York                      | 754,156   | 817,508   | 922,455   | 953,671    | 961,595    | 1,051,542  | 1,128,751  | 1,063,118  |
| Pennsylvania                  | 403,104   | 458,416   | 522,616   | 538,589    | 587,858    | 716,319    | 744,839    | 786,519    |
| East North Central. total     | 995,572   | 1,156,505 | 1,161,320 | 1,297,920  | 1,364,643  | 1,556,662  | 1,699,299  | 1,705,766  |
| Illinois                      | 300,720   | 362,085   | 341,817   | 376,154    | 388,997    | 426,268    | 449,704    | 457,096    |
| Indiana                       | 113,506   | 133,903   | 129,396   | 152,837    | 159,502    | 184,149    | 213,601    | 206,961    |
| Michigan                      | 206,226   | 244,168   | 265,190   | 293,996    | 311,395    | 359,383    | 412,357    | 426,747    |
| Ohio                          | 208,549   | 228,665   | 235,827   | 264,657    | 280,503    | 332,042    | 348,949    | 349,018    |
| Wisconsin                     | 166,571   | 187,684   | 189,090   | 210,276    | 224,246    | 254,820    | 274,688    | 265,944    |
| West North Central. total     | 430,196   | 501,410   | 538,402   | 607,347    | 638,037    | 758,620    | 800,453    | 761,185    |
| Iowa                          | 88,252    | 102,999   | 113,183   | 123,733    | 130,267    | 152,203    | 155,419    | 154,487    |
| Kansas                        | 42,798    | 48,352    | 50,579    | 53,263     | 59,613     | 77,885     | 78,183     | 74,904     |
| Minnesota                     | 116,243   | 138,470   | 143,521   | 181,606    | 162,469    | 203,235    | 217,916    | 198,574    |
| Missouri                      | 131,465   | 154,490   | 163,920   | 178,822    | 197,672    | 215,475    | 238,567    | 228,773    |
| Nebraska                      | 30,326    | 35,826    | 33,682    | 36,412     | 41,753     | 57,590     | 56,959     | 50,555     |
| North Dakota                  | 12,799    | 12,428    | 24,074    | 21,944     | 34,656     | 38,145     | 38,548     | 37,358     |
| South Dakota                  | 8,313     | 8,845     | 9,443     | 11,567     | 11,607     | 14,087     | 14,861     | 16,534     |
| South Atlantic. total         | 1,327,174 | 1,565,950 | 1,737,599 | 1,886,134  | 1,905,168  | 2,207,763  | 2,349,525  | 2,382,540  |
| Delaware                      | 15,406    | 15,447    | 18,654    | 19,806     | 21,401     | 24,797     | 32,522     | 31,341     |
| District of Columbia          | 59,129    | 79,830    | 90,064    | 83,179     | 92,097     | 109,611    | 102,867    | 124,045    |
| Florida                       | 136,917   | 170,524   | 209,243   | 224,658    | 207,885    | 254,896    | 280,770    | 277,287    |
| Georgia                       | 162,217   | 192,700   | 207,852   | 218,107    | 201,000    | 262,536    | 288,643    | 255,855    |
| Maryland                      | 550,710   | 619,947   | 687,951   | 727,184    | 743,143    | 806,276    | 824,649    | 862,167    |
| North Carolina                | 226,589   | 266,111   | 290,524   | 331,683    | 353,603    | 408,787    | 457,755    | 445,878    |
| South Carolina                | 43,041    | 61,337    | 56,703    | 66,206     | 59,214     | 77,243     | 81,824     | 72,275     |
| Virginia                      | 118,372   | 141,361   | 149,990   | 181,976    | 195,492    | 217,376    | 231,743    | 233,502    |
| West Virginia                 | 14,793    | 18,693    | 26,618    | 33,335     | 31,333     | 46,241     | 48,752     | 80,190     |
| East South Central. total     | 290,715   | 380,655   | 383,125   | 396,789    | 438,242    | 497,456    | 527,243    | 528,684    |
| Alabama                       | 108,225   | 142,550   | 140,658   | 146,708    | 154,052    | 187,193    | 194,653    | 198,278    |
| Kentucky                      | 40,296    | 44,161    | 46,023    | 52,185     | 58,015     | 62,736     | 73,224     | 77,019     |
| Mississippi                   | 35,564    | 64,114    | 56,130    | 55,340     | 62,282     | 62,751     | 65,489     | 71,937     |
| Tennessee                     | 106,630   | 129,830   | 140,314   | 142,556    | 163,893    | 184,776    | 193,877    | 181,450    |
| West South Central. total     | 513,224   | 579,570   | 634,917   | 719,335    | 724,989    | 835,471    | 937,257    | 937,049    |
| Arkansas                      | 23,173    | 26,933    | 27,309    | 31,966     | 36,276     | 45,598     | 48,762     | 50,810     |
| Louisiana                     | 65,803    | 75,195    | 90,415    | 131,872    | 94,307     | 120,420    | 132,632    | 124,343    |
| Oklahoma                      | 41,525    | 47,680    | 49,959    | 51,175     | 51,831     | 57,937     | 78,338     | 65,831     |
| Texas                         | 382,723   | 429,762   | 467,234   | 504,322    | 542,575    | 611,516    | 677,525    | 696,065    |

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

**Table 6. Federal obligations for science and engineering to universities and colleges, by geographic division and State: fiscal years 1986-93**

[Dollars in thousands]

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| Geographic division and State         | 1986      | 1987      | 1988      | 1989      | 1990      | 1991      | 1992      | 1993      |
|---------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Mountain, total .....                 | 407,615   | 462,983   | 489,797   | 569,107   | 598,873   | 706,461   | 753,739   | 751,241   |
| Arizona .....                         | 72,346    | 97,064    | 111,731   | 125,424   | 128,532   | 143,136   | 160,028   | 159,687   |
| Colorado .....                        | 118,826   | 146,076   | 162,548   | 166,624   | 186,161   | 218,172   | 245,589   | 230,680   |
| Idaho .....                           | 8,143     | 10,456    | 13,007    | 18,473    | 15,077    | 26,653    | 20,400    | 21,557    |
| Montana .....                         | 11,338    | 14,004    | 13,435    | 15,688    | 19,210    | 23,923    | 28,948    | 30,352    |
| Nevada .....                          | 12,347    | 18,470    | 15,578    | 18,066    | 24,691    | 25,221    | 30,897    | 29,709    |
| New Mexico .....                      | 89,553    | 68,777    | 68,546    | 85,426    | 78,270    | 100,279   | 102,536   | 124,873   |
| Utah .....                            | 86,175    | 96,528    | 93,655    | 126,891   | 134,978   | 154,809   | 148,954   | 133,828   |
| Wyoming .....                         | 8,887     | 11,608    | 11,297    | 12,515    | 11,954    | 14,268    | 16,387    | 20,555    |
| Pacific, total .....                  | 1,347,666 | 1,542,272 | 1,626,363 | 1,878,974 | 1,931,058 | 2,094,372 | 2,282,661 | 2,240,748 |
| Alaska .....                          | 16,450    | 17,750    | 18,595    | 18,866    | 26,969    | 29,276    | 34,064    | 46,562    |
| California .....                      | 1,029,514 | 1,153,609 | 1,209,732 | 1,396,648 | 1,446,081 | 1,540,601 | 1,701,675 | 1,638,009 |
| Hawaii .....                          | 33,672    | 44,390    | 44,992    | 67,163    | 55,865    | 63,538    | 64,382    | 67,140    |
| Oregon .....                          | 87,673    | 121,304   | 115,135   | 139,654   | 124,739   | 149,258   | 157,190   | 159,513   |
| Washington .....                      | 180,357   | 205,219   | 237,909   | 256,643   | 277,404   | 311,699   | 325,350   | 329,524   |
| Outlying Areas, total .....           | 27,642    | 33,988    | 34,073    | 38,713    | 57,175    | 47,073    | 51,882    | 49,436    |
| Guam .....                            | 1,918     | 3,490     | 2,440     | 2,669     | 3,091     | 3,262     | 2,878     | 3,334     |
| Puerto Rico .....                     | 22,237    | 26,535    | 27,087    | 31,638    | 48,968    | 38,504    | 43,412    | 39,650    |
| American Samoa .....                  | 563       | 662       | 665       | 660       | 1,223     | 1,291     | 1,223     | 1,233     |
| Virgin Islands .....                  | 1,927     | 1,327     | 2,098     | 2,083     | 2,058     | 2,083     | 2,405     | 2,972     |
| Trust Territory Pacific Islands ..... | 997       | 1,374     | 1,783     | 1,663     | 1,835     | 1,933     | 1,964     | 2,247     |

SOURCE: National Science Foundation/SRS. Survey of Federal Support to Universities, Colleges, and Nonprofit Institutions. Fiscal Year 1993



**Table 7. Federal obligations for science and engineering (S&E) to universities and colleges, by agency and type of activity: fiscal year 1993**

[Dollars in thousands]

Page 1 of 2

| Agency  | Total, academic S&E | Research and development | R&D plant | Facilities for instruction in S&E | Fellowships, traineeships, and training grants | General support for S&E | Other S&E activities |
|---|---------------------|--------------------------|-----------|-----------------------------------|--|-------------------------|----------------------|
| Total, all agencies .....                             | 12,724.675          | 10,940.124               | 259.421   | 32,228                            | 524.786  | 66.087                  | 902.029              |
| Department of Agriculture .....                       | 940.548             | 462,464                  | 55,058    | 0                                 | 10,469   | 10                      | 412,547              |
| Department of Commerce .....                          | 109,822             | 58,434                   | 377       | 4,020                             | 2,070  | 15,047                  | 29,874               |
| Department of Defense .....                           | 1,833,939           | NA                       | 0         | 0                                 | 2,158  | 17                      | 244,900              |
| Army .....  | 297,798             | NA                       | 0         | 0                                 | 0  | 0                       | 27,851               |
| Navy .....  | 1,046,217           | NA                       | 0         | 0                                 | 1,354  | 17                      | 195,030              |
| Air Force .....                                       | 363,600             | NA                       | 0         | 0                                 | 0  | 0                       | 5,529                |
| Other Department of Defense .....                     | 126,324             | NA                       | 0         | 0                                 | 804  | 0                       | 16,490               |
| Department of Defense, research <sup>1</sup> .....    | NA                  | 1,129,998                | NA        | NA                                | NA   | NA                      | NA                   |
| Army .....  | NA                  | 234,020                  | NA        | NA                                | NA   | NA                      | NA                   |
| Navy .....  | NA                  | 502,016                  | NA        | NA                                | NA   | NA                      | NA                   |
| Air Force .....                                       | NA                  | 313,802                  | NA        | NA                                | NA   | NA                      | NA                   |
| Other Department of Defense .....                     | NA                  | 80,160                   | NA        | NA                                | NA   | NA                      | NA                   |
| Department of Defense, development <sup>1</sup> ..... | NA                  | 456,866                  | NA        | NA                                | NA   | NA                      | NA                   |
| Army .....  | NA                  | 35,927                   | NA        | NA                                | NA   | NA                      | NA                   |
| Navy .....  | NA                  | 347,800                  | NA        | NA                                | NA   | NA                      | NA                   |
| Air Force .....                                       | NA                  | 44,269                   | NA        | NA                                | NA   | NA                      | NA                   |
| Other Department of Defense .....                     | NA                  | 28,870                   | NA        | NA                                | NA   | NA                      | NA                   |
| Department of Education .....                         | 156,435             | 94,811                   | 0         | 0                                 | 57,661   | 3,963                   | 0                    |
| Department of Energy .....                            | 716,160             | 582,110                  | 120,237   | 0                                 | 13,813   | 0                       | 0                    |
| Environmental Protection Agency .....                 | 152,692             | 142,606                  | 0         | 0                                 | 8,124  | 1,887                   | 75                   |
| Department of Health & Human Services ..              | 6,023,063           | 5,610,296                | 10,622    | 0                                 | 335,017  | 26,641                  | 40,487               |
| Administration on Aging .....                         | 6,643               | 4,554                    | 0         | 0                                 | 2,089  | 0                       | 0                    |
| Administration for Children & Families .....          | 57,074              | 57,074                   | 0         | 0                                 | 0  | 0                       | 0                    |
| Agency for Health Care Policy & Research .....        | 57,255              | 53,945                   | 0         | 0                                 | 3,310  | 0                       | 0                    |
| Agency for Toxic Substances & Disease Registry .....  | 443                 | 43                       | 0         | 0                                 | 0  | 400                     | 0                    |
| Centers for Disease Control .....                     | 43,932              | 43,932                   | 0         | 0                                 | 0  | 0                       | 0                    |
| Food and Drug Administration .....                    | 11,594              | 8,043                    | 264       | 0                                 | 1,287  | 0                       | 2,000                |
| Health Care Financing Administration .....            | 5,792               | 5,792                    | 0         | 0                                 | 0  | 0                       | 0                    |
| Health Resources and Services Administration .....    | 43,080              | 2,389                    | 0         | 0                                 | 40,691   | 0                       | 0                    |
| Indian Health Service .....                           | 2,756               | 30                       | 0         | 0                                 | 2,726  | 0                       | 0                    |
| National Institutes of Health .....                   | 5,788,054           | 5,428,054                | 10,358    | 0                                 | 284,914  | 26,241                  | 38,487               |
| Office of the Assistant Secretary for Health .....    | 665                 | 665                      | 0         | 0                                 | 0  | 0                       | 0                    |
| Social Security Administration .....                  | 532                 | 532                      | 0         | 0                                 | 0  | 0                       | 0                    |
| Other Dept of Health & Human Services .....           | 5,243               | 5,243                    | 0         | 0                                 | 0  | 0                       | 0                    |
| Department of Housing & Urban Development .....       | 396                 | 396                      | 0         | 0                                 | 0  | 0                       | 0                    |
| Department of Interior .....                          | 77,685              | 69,846                   | 0         | 0                                 | 0  | 7,839                   | 0                    |
| Department of Labor .....                             | 6,576               | 6,211                    | 0         | 0                                 | 365  | 0                       | 0                    |
| Department of Transportation .....                    | 95,599              | 72,747                   | 0         | 7,123                             | 5,912  | 848                     | 8,969                |

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



**Table 7. Federal obligations for science and engineering (S&E) to universities and colleges, by agency and type of activity: fiscal year 1993**

[Dollars in thousands]

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| Agency  | Total academic S&E | Research and development | R&D plant | Facilities for instruction in S&E | Fellowships, traineeships, and training grants | General support for S&E | Other S&E activities |
|---|--------------------|--------------------------|-----------|-----------------------------------|--|-------------------------|----------------------|
| Agency for International Development .....        | 11,466             | 11,466                   | 0         | 0                                 | 0  | 0                       | 0                    |
| National Aeronautics & Space Administration ..... | 737,123            | 631,139                  | 9,871     | 0                                 | 42,116   | 0                       | 53,997               |
| National Science Foundation .....                 | 1,858,374          | 1,605,937                | 63,256    | 21,085                            | 47,081   | 9,835                   | 111,180              |
| Nuclear Regulatory Commission .....               | 4,797              | 4,797                    | 0         | 0                                 | 0  | 0                       | 0                    |

<sup>1</sup> 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 university-administered laboratories that are separate from the academic departments.

**KEY:** NA = not available

**SOURCE:** National Science Foundation/SRS. Survey of Federal Support to Universities, Colleges, and Nonprofit Institutions. Fiscal Year 1993

**Table 8. Federal obligations for science and engineering (S&E) to universities and colleges, by geographic division, State, and agency: fiscal year 1993**

[Dollars in thousands]

| Geographic division and State | Total      | USDA    | Com     | DoD       | Ed      | DOE     | EPA     | HHS       | Int    | NASA    | NSF       | Other <sup>1</sup> |
|-------------------------------|------------|---------|---------|-----------|---------|---------|---------|-----------|--------|---------|-----------|--------------------|
| United States, total          | 12,724,675 | 940,548 | 109,822 | 1,833,939 | 156,435 | 716,160 | 152,692 | 6,023,063 | 77,685 | 737,123 | 1,858,374 | 118,834            |
| New England, total            | 1,297,735  | 52,857  | 19,738  | 205,046   | 9,902   | 107,374 | 16,564  | 601,477   | 3,544  | 68,038  | 207,436   | 5,759              |
| Connecticut                   | 250,100    | 6,547   | 5,379   | 10,635    | 2,228   | 23,283  | 1,764   | 178,156   | 101    | 1,824   | 20,017    | 166                |
| Maine                         | 21,668     | 8,298   | 4,623   | 348       | 837     | 1,420   | 1,544   | 823       | 380    | 175     | 3,120     | 100                |
| Massachusetts                 | 854,337    | 22,288  | 6,116   | 180,079   | 5,843   | 78,041  | 9,688   | 341,260   | 1,802  | 50,898  | 153,133   | 5,189              |
| New Hampshire                 | 69,368     | 4,798   | 943     | 3,551     | 428     | 1,569   | 1,310   | 35,630    | 289    | 11,423  | 9,308     | 119                |
| Rhode Island                  | 61,632     | 3,883   | 2,677   | 10,137    | 299     | 2,522   | 1,354   | 17,284    | 657    | 3,482   | 19,316    | 21                 |
| Vermont                       | 40,630     | 7,043   | 0       | 296       | 267     | 539     | 904     | 28,324    | 315    | 236     | 2,542     | 164                |
| Middle Atlantic, total        | 2,070,291  | 67,170  | 4,101   | 280,098   | 20,015  | 141,337 | 23,234  | 1,122,151 | 6,875  | 56,205  | 329,255   | 19,850             |
| New Jersey                    | 220,654    | 11,813  | 1,912   | 35,801    | 2,543   | 21,778  | 6,087   | 82,199    | 291    | 6,867   | 43,230    | 8,133              |
| New York                      | 1,063,118  | 29,393  | 1,704   | 67,995    | 5,689   | 83,813  | 14,054  | 633,843   | 1,950  | 27,543  | 192,789   | 4,345              |
| Pennsylvania                  | 786,519    | 25,964  | 485     | 176,302   | 11,783  | 35,746  | 3,093   | 406,109   | 4,634  | 21,795  | 93,236    | 7,372              |
| East North Central, total     | 1,705,766  | 138,589 | 9,199   | 148,626   | 25,811  | 97,844  | 19,078  | 821,792   | 2,813  | 93,911  | 331,973   | 16,130             |
| Illinois                      | 457,096    | 23,930  | 2,260   | 36,086    | 9,802   | 23,521  | 775     | 218,698   | 455    | 12,392  | 125,812   | 3,365              |
| Indiana                       | 206,961    | 24,638  | 749     | 12,713    | 1,641   | 29,288  | 684     | 82,660    | 465    | 4,678   | 47,381    | 2,064              |
| Michigan                      | 426,747    | 41,602  | 838     | 27,340    | 5,719   | 16,097  | 8,568   | 208,586   | 507    | 40,338  | 73,146    | 4,006              |
| Ohio                          | 349,018    | 23,843  | 1,734   | 60,484    | 5,091   | 6,856   | 6,767   | 174,500   | 667    | 23,983  | 39,569    | 5,524              |
| Wisconsin                     | 265,944    | 24,576  | 3,618   | 12,003    | 3,558   | 22,082  | 2,284   | 137,348   | 719    | 12,520  | 46,065    | 1,171              |
| West North Central, total     | 761,185    | 134,118 | 1,185   | 40,841    | 14,005  | 27,935  | 8,792   | 405,370   | 4,918  | 20,556  | 89,555    | 13,910             |
| Iowa                          | 154,487    | 27,778  | 647     | 5,515     | 2,789   | 6,958   | 1,837   | 80,327    | 429    | 7,125   | 14,501    | 6,581              |
| Kansas                        | 74,904     | 15,147  | 0       | 9,929     | 2,296   | 3,786   | 2,060   | 27,380    | 457    | 2,434   | 10,278    | 1,137              |
| Minnesota                     | 198,574    | 22,099  | 293     | 15,821    | 5,069   | 6,310   | 2,438   | 107,921   | 917    | 3,890   | 32,807    | 1,009              |
| Missouri                      | 228,773    | 25,372  | 245     | 6,617     | 3,109   | 4,435   | 276     | 164,591   | 2,039  | 4,850   | 17,133    | 106                |
| Nebraska                      | 50,555     | 16,335  | 0       | 1,308     | 235     | 1,016   | 432     | 20,053    | 265    | 1,099   | 9,693     | 119                |
| North Dakota                  | 37,358     | 18,898  | 0       | 1,353     | 448     | 5,409   | 1,600   | 3,270     | 268    | 260     | 1,012     | 4,840              |
| South Dakota                  | 16,534     | 8,489   | 0       | 298       | 59      | 21      | 149     | 1,828     | 543    | 898     | 4,131     | 118                |
| South Atlantic, total         | 2,382,540  | 158,084 | 24,943  | 634,170   | 28,331  | 93,530  | 33,618  | 995,542   | 10,611 | 142,335 | 223,958   | 37,418             |
| Delaware                      | 31,341     | 5,657   | 1,649   | 5,452     | 2,490   | 1,193   | 559     | 3,131     | 126    | 1,408   | 9,149     | 527                |
| District of Columbia          | 124,045    | 1,933   | 499     | 28,889    | 3,746   | 871     | 398     | 54,408    | 117    | 8,297   | 10,957    | 13,930             |
| Florida                       | 277,287    | 21,679  | 3,750   | 35,589    | 6,156   | 13,343  | 3,533   | 115,435   | 1,714  | 20,763  | 50,095    | 5,228              |
| Georgia                       | 255,855    | 28,898  | 1,743   | 50,665    | 3,349   | 30,935  | 5,116   | 102,280   | 263    | 13,846  | 16,049    | 2,708              |
| Maryland                      | 862,167    | 14,419  | 5,673   | 447,185   | 3,551   | 14,498  | 5,123   | 298,245   | 216    | 29,418  | 42,677    | 1,162              |
| North Carolina                | 445,878    | 37,674  | 8,188   | 24,272    | 6,780   | 10,061  | 12,899  | 284,344   | 1,558  | 7,547   | 47,363    | 5,192              |
| South Carolina                | 72,275     | 16,889  | 556     | 6,492     | 1,300   | 7,919   | 439     | 26,517    | 1,010  | 1,529   | 9,181     | 443                |
| Virginia                      | 233,502    | 21,251  | 2,799   | 24,657    | 749     | 7,518   | 2,049   | 102,299   | 3,191  | 25,358  | 35,554    | 8,077              |
| West Virginia                 | 80,190     | 9,684   | 83      | 10,969    | 210     | 7,192   | 3,500   | 8,883     | 2,416  | 34,169  | 2,933     | 151                |
| East South Central, total     | 528,684    | 101,343 | 572     | 35,575    | 8,772   | 38,757  | 3,437   | 252,123   | 5,359  | 34,374  | 45,799    | 2,573              |
| Alabama                       | 198,278    | 25,025  | 358     | 16,410    | 3,051   | 12,848  | 1,514   | 95,744    | 1,876  | 25,882  | 14,714    | 856                |
| Kentucky                      | 77,019     | 23,332  | 56      | 1,412     | 1,146   | 5,408   | 776     | 35,014    | 240    | 906     | 8,365     | 364                |
| Mississippi                   | 71,937     | 29,448  | 43      | 6,295     | 2,210   | 7,347   | 427     | 12,594    | 1,728  | 2,050   | 9,631     | 164                |
| Tennessee                     | 181,450    | 23,538  | 115     | 11,458    | 2,365   | 13,154  | 720     | 108,771   | 1,515  | 5,536   | 13,089    | 1,189              |
| West South Central, total     | 937,049    | 107,297 | 5,712   | 143,622   | 11,415  | 53,666  | 16,860  | 434,963   | 6,328  | 51,147  | 97,474    | 8,565              |
| Arkansas                      | 50,810     | 22,514  | 0       | 4,341     | 2,949   | 284     | 158     | 14,182    | 676    | 479     | 4,063     | 1,164              |
| Louisiana                     | 124,343    | 17,271  | 1,215   | 17,899    | 1,315   | 18,518  | 4,771   | 46,945    | 3,652  | 2,376   | 7,695     | 2,686              |
| Oklahoma                      | 65,831     | 16,876  | 1,511   | 5,287     | 914     | 6,626   | 1,321   | 15,702    | 327    | 7,720   | 8,777     | 770                |
| Texas                         | 696,065    | 50,636  | 2,986   | 116,095   | 6,237   | 28,238  | 10,610  | 358,134   | 1,673  | 40,572  | 76,939    | 3,945              |

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

**Table 8. Federal obligations for science and engineering (S&E) to universities and colleges, by geographic division, State, and agency: fiscal year 1993**

[Dollars in thousands]

| Geographic division and State            | Total     | USDA   | Com    | DoD     | Ed     | DOE     | EPA    | HHS       | Int    | NASA    | NSF     | Other <sup>1</sup> |
|--|-----------|--------|--------|---------|--------|---------|--------|-----------|--------|---------|---------|--------------------|
| Mountain. total .....                    | 751.241   | 65.461 | 15.013 | 117.663 | 9,915  | 33,016  | 15,545 | 259,220   | 17,152 | 79,305  | 132,526 | 6,425              |
| Arizona .....                            | 159,687   | 9,282  | 251    | 14,534  | 2,998  | 4,840   | 2,171  | 59,353    | 2,466  | 24,573  | 38,148  | 1,071              |
| Colorado .....                           | 230,680   | 13,119 | 12,684 | 14,747  | 3,124  | 9,169   | 3,342  | 110,109   | 3,369  | 22,262  | 38,429  | 326                |
| Idaho .....                              | 21,557    | 10,618 | 32     | 492     | 455    | 572     | 663    | 2,005     | 2,399  | 311     | 3,747   | 263                |
| Montana .....                            | 30,352    | 9,526  | 0      | 929     | 804    | 936     | 487    | 3,910     | 1,049  | 1,122   | 11,468  | 121                |
| Nevada .....                             | 29,709    | 3,691  | 1,661  | 685     | 348    | 3,843   | 6,104  | 7,139     | 1,635  | 746     | 3,694   | 163                |
| New Mexico .....                         | 124,873   | 7,174  | 59     | 50,209  | 1,158  | 7,898   | 205    | 17,642    | 1,094  | 25,922  | 13,115  | 397                |
| Utah .....                               | 133,828   | 6,866  | 326    | 34,526  | 820    | 4,727   | 2,053  | 57,704    | 3,983  | 3,821   | 18,686  | 316                |
| Wyoming .....                            | 20,555    | 5,185  | 0      | 1,541   | 208    | 1,031   | 520    | 1,358     | 1,157  | 548     | 5,239   | 3,768              |
| Pacific. total .....                     | 2,240,748 | 95,891 | 28,639 | 226,381 | 27,806 | 122,675 | 15,353 | 1,115,234 | 19,682 | 190,265 | 390,766 | 8,056              |
| Alaska .....                             | 46,562    | 3,305  | 3,028  | 1,061   | 200    | 552     | 514    | 1,992     | 2,291  | 20,061  | 13,556  | 2                  |
| California .....                         | 1,638,009 | 37,380 | 12,362 | 169,758 | 18,716 | 87,445  | 10,025 | 853,162   | 9,143  | 146,857 | 288,481 | 4,680              |
| Hawaii .....                             | 67,140    | 11,860 | 5,686  | 3,615   | 2,231  | 2,711   | 35     | 14,990    | 2,613  | 9,308   | 13,581  | 510                |
| Oregon .....                             | 159,513   | 21,178 | 2,441  | 13,460  | 5,647  | 15,075  | 3,398  | 63,282    | 3,585  | 3,835   | 26,929  | 683                |
| Washington .....                         | 329,524   | 22,168 | 5,122  | 38,487  | 1,012  | 16,892  | 1,381  | 181,808   | 2,050  | 10,204  | 48,219  | 2,181              |
| Outlying Areas. total .....              | 49,436    | 19,738 | 720    | 1,917   | 463    | 26      | 211    | 15,191    | 403    | 987     | 9,632   | 148                |
| Guam .....                               | 3,334     | 2,199  | 0      | 33      | 0      | 0       | 0      | 766       | 201    | 0       | 135     | 0                  |
| Puerto Rico .....                        | 39,650    | 12,253 | 720    | 1,884   | 463    | 26      | 211    | 13,366    | 101    | 987     | 9,497   | 142                |
| American Samoa .....                     | 1,233     | 1,233  | 0      | 0       | 0      | 0       | 0      | 0         | 0      | 0       | 0       | 0                  |
| Virgin Islands .....                     | 2,972     | 1,952  | 0      | 0       | 0      | 0       | 0      | 913       | 101    | 0       | 0       | 6                  |
| Trust Territory<br>Pacific Islands ..... | 2,247     | 2,101  | 0      | 0       | 0      | 0       | 0      | 146       | 0      | 0       | 0       | 0                  |

<sup>1</sup> Includes Department of Transportation, Agency for International Development, Department of Housing and Urban Development, Department of Labor, and Nuclear Regulatory Commission

**KEY:**  
 Com = Department of Commerce  
 DoD = Department of Defense  
 DOE = Department of Energy  
 Ed = Department of Education  
 EPA = Environmental Protection Agency  
 HHS = Department of Health and Human Services  
 Int = Department of the Interior  
 NASA = National Aeronautics and Space Administration  
 NSF = National Science Foundation  
 USDA = U.S. Department of Agriculture

**SOURCE:** National Science Foundation/SRS, Survey of Federal Support to Universities, Colleges, and Nonprofit Institutions, Fiscal Year 1993

**Table 9. Federal obligations for science and engineering (S&E) to the 100 universities and colleges receiving the largest amounts, ranked by total amount received, by type of activity: fiscal year 1993**

[Dollars in thousands]

Page 1 of 2

| Institution and ranking      | Total academic S&E | Research and development | R&D plant | Facilities for instruction in S&E | Fellowships, traineeships, and training grants | General support for S&E | Other S&E activities |
|------------------------------|--------------------|--------------------------|-----------|-----------------------------------|--|-------------------------|----------------------|
| Total, all institutions      | 12,724.675         | 10,940.124               | 259.421   | 32.228                            | 524.786  | 66.087                  | 902.029              |
| 1 Johns Hopkins University   | 701.097            | 543.873                  | 45        | 28                                | 16.309   | 170                     | 140,672              |
| 2 University of Washington   | 279.832            | 246,013                  | 890       | 73                                | 13,496   | 1,240                   | 18,120               |
| 3 MA Inst of Technology      | 276.265            | 251,845                  | 6,842     | 86                                | 9,984  | 409                     | 7,099                |
| 4 Stanford University        | 268.673            | 249,575                  | 0         | 0                                 | 17,358   | 0                       | 1,740                |
| 5 University of Michigan     | 233.908            | 214,612                  | 634       | 238                               | 12,172   | 332                     | 5,920                |
| 6 U CA San Diego             | 217.412            | 204,063                  | 311       | 0                                 | 8,603  | 2,525                   | 1,910                |
| 7 Cornell University         | 216.602            | 174,226                  | 16,535    | 53                                | 8,229  | 2                       | 17,557               |
| 8 U WI Madison               | 216.148            | 190,469                  | 4,755     | 86                                | 7,126  | 334                     | 13,378               |
| 9 Pennsylvania State U       | 210.865            | 173,070                  | 531       | 68                                | 2,830  | 59                      | 34,307               |
| 10 U CA Los Angeles          | 207.871            | 195,788                  | 277       | 0                                 | 9,639  | 212                     | 1,955                |
| Total 1st 10 institutions    | 2,828.673          | 2,443.534                | 30,820    | 632                               | 105,746  | 5,283                   | 242,658              |
| 11 Columbia U City New York  | 205.791            | 194,910                  | 1,983     | 0                                 | 7,230  | 339                     | 1,329                |
| 12 University of PA          | 200.642            | 186,002                  | 597       | 99                                | 11,051   | 496                     | 2,397                |
| 13 University of Minnesota   | 194.575            | 168,575                  | 526       | 163                               | 8,293  | 165                     | 16,753               |
| 14 Harvard University        | 187.932            | 169,173                  | 280       | 0                                 | 16,774   | 60                      | 1,645                |
| 15 U CA San Francisco        | 187.598            | 175,388                  | 110       | 0                                 | 11,273   | 301                     | 526                  |
| 16 Yale University           | 182.404            | 169,151                  | 2,246     | 0                                 | 9,622  | 33                      | 1,352                |
| 17 U CA Berkeley             | 162.396            | 133,232                  | 373       | 40                                | 10,830   | 137                     | 17,784               |
| 18 University of Colorado    | 157.755            | 145,497                  | 579       | 78                                | 7,989  | 2,768                   | 844                  |
| 19 Duke University           | 148.467            | 138,839                  | 705       | 91                                | 6,375  | 427                     | 2,030                |
| 20 U TX Austin               | 146.743            | 117,225                  | 189       | 0                                 | 3,732  | 672                     | 24,925               |
| Total 1st 20 institutions    | 4,602.976          | 4,041.626                | 38,408    | 1,103                             | 198,915  | 10,681                  | 312,243              |
| 21 Washington University     | 144.275            | 133,210                  | 84        | 15                                | 9,764  | 22                      | 1,180                |
| 22 University of Pittsburgh  | 142.562            | 136,780                  | 105       | 0                                 | 3,511  | 0                       | 2,166                |
| 23 U NC Chapel Hill          | 141.698            | 129,071                  | 880       | 19                                | 9,309  | 508                     | 1,911                |
| 24 U Southern California     | 139.412            | 125,297                  | 412       | 0                                 | 3,225  | 291                     | 10,187               |
| 25 U IL Urbana Champaign     | 138.304            | 116,116                  | 280       | 269                               | 5,370  | 639                     | 15,630               |
| 26 University of Rochester   | 131.252            | 98,935                   | 23,790    | 0                                 | 6,186  | 35                      | 2,306                |
| 27 University of Arizona     | 121.160            | 107,819                  | 1,302     | 127                               | 6,086  | 84                      | 5,742                |
| 28 California Inst of Tech   | 117.911            | 87,702                   | 24,412    | 202                               | 4,763  | 186                     | 646                  |
| 29 University of Chicago     | 111.924            | 99,378                   | 0         | 34                                | 7,289  | 67                      | 5,156                |
| 30 Boston University         | 107.389            | 102,642                  | 302       | 145                               | 4,244  | 13                      | 43                   |
| Total 1st 30 institutions    | 5,898.863          | 5,178.576                | 89,975    | 1,914                             | 258,662  | 12,526                  | 357,210              |
| 31 U Alabama Birmingham      | 106.141            | 90,737                   | 10,000    | 172                               | 3,504  | 196                     | 1,532                |
| 32 Ohio State University     | 104.657            | 84,121                   | 212       | 43                                | 1,498  | 4,255                   | 14,528               |
| 33 Indiana University        | 99.726             | 81,374                   | 13,009    | 98                                | 3,569  | 90                      | 1,586                |
| 34 Michigan State University | 98.658             | 67,666                   | 15,076    | 146                               | 1,694  | 290                     | 13,786               |
| 35 Case Western Reserve U    | 96.798             | 89,608                   | 0         | 0                                 | 4,494  | 126                     | 2,570                |
| 36 University of Florida     | 95.915             | 77,341                   | 422       | 160                               | 6,337  | 341                     | 11,314               |
| 37 University of Iowa        | 93.405             | 87,875                   | 30        | 14                                | 4,985  | 237                     | 264                  |
| 38 U CA Davis                | 92.923             | 84,495                   | 2,125     | 0                                 | 2,701  | 298                     | 3,304                |
| 39 Baylor Col of Medicine    | 92.755             | 88,276                   | 412       | 0                                 | 3,185  | 66                      | 816                  |
| 40 Northwestern University   | 90.920             | 82,636                   | 1,185     | 1,916                             | 3,664  | 56                      | 1,463                |
| Total 1st 40 institutions    | 6,870.761          | 6,012.705                | 132,446   | 4,463                             | 294,293  | 18,481                  | 408,373              |
| 41 Texas A&M University      | 90.042             | 65,174                   | 1,044     | 24                                | 1,497  | 1,090                   | 21,213               |
| 42 Purdue University         | 89.899             | 74,920                   | 307       | 52                                | 1,380  | 131                     | 13,109               |
| 43 Vanderbilt University     | 89.140             | 82,091                   | 0         | 0                                 | 6,490  | 117                     | 442                  |
| 44 University of Virginia    | 86.929             | 79,221                   | 129       | 0                                 | 4,643  | 53                      | 2,883                |
| 45 U MD College Park         | 85.730             | 76,300                   | 1,418     | 50                                | 1,402  | 469                     | 6,091                |
| 46 Rutgers the St U of NJ    | 83.492             | 70,059                   | 2,629     | 119                               | 2,377  | 827                     | 7,481                |
| 47 University of Utah        | 82.458             | 77,407                   | 52        | 0                                 | 1,723  | 37                      | 3,239                |
| 48 New York University       | 82.332             | 77,694                   | 141       | 61                                | 3,873  | 32                      | 531                  |
| 49 Louisiana State U         | 81.596             | 58,197                   | 10,000    | 55                                | 2,820  | 1,892                   | 8,632                |
| 50 Carnegie Mellon U         | 76.896             | 73,474                   | 130       | 82                                | 1,513  | 173                     | 1,524                |
| Total 1st 50 institutions    | 7,719.275          | 6,747.242                | 148,296   | 4,906                             | 322,011  | 23,302                  | 473,518              |

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

**Table 9. Federal obligations for science and engineering (S&E) to the 100 universities and colleges receiving the largest amounts, ranked by total amount received, by type of activity: fiscal year 1993**

[Dollars in thousands]

Page 2 of 2

| Institution and ranking      | Total academic S&E | Research and development | R&D plant | Facilities for instruction in S&E | Fellowships, traineeships, and training grants | General support for S&E | Other S&E activities |
|------------------------------|--------------------|--------------------------|-----------|-----------------------------------|--|-------------------------|----------------------|
| 51 NC State U Raleigh        | 71.590             | 50.661                   | 0         | 100                               | 3.595  | 350                     | 16.884               |
| 52 University of Miami       | 69.919             | 67.315                   | 0         | 30                                | 2.268  | 33                      | 273                  |
| 53 University of Georgia     | 68.180             | 51.903                   | 2.046     | 4                                 | 747  | 269                     | 13.211               |
| 54 Yeshiva University NY     | 67.942             | 64.627                   | 0         | 0                                 | 3.315  | 0                       | 0                    |
| 55 Emory University          | 67.482             | 64.526                   | 412       | 0                                 | 2.461  | 26                      | 57                   |
| 56 Woods Hole Oceanographic  | 66.821             | 61.399                   | 2.652     | 4                                 | 4  | 141                     | 2,621                |
| 57 Princeton University      | 65.389             | 59.871                   | 712       | 21                                | 3.349  | 0                       | 1,436                |
| 58 U TX SW Med Ctr Dallas    | 65.314             | 61,269                   | 931       | 0                                 | 2.492  | 30                      | 592                  |
| 59 Oregon State University   | 65.003             | 53,999                   | 2,879     | 167                               | 1,172  | 215                     | 6,571                |
| 60 U CA Irvine               | 64.050             | 61.567                   | 263       | 40                                | 1.930  | 153                     | 97                   |
| Total 1st 60 institutions    | 8,390.965          | 7,344.379                | 158.191   | 5.272                             | 343,344  | 24.519                  | 515.260              |
| 61 SUNY at Stony Brook       | 62.504             | 58.590                   | 55        | 51                                | 1.421  | 410                     | 1,977                |
| 62 University of Connecticut | 61.392             | 42,992                   | 10,000    | 0                                 | 1,269  | 1,851                   | 5,280                |
| 63 University of New Mexico  | 60.999             | 55,827                   | 20        | 0                                 | 2,713  | 163                     | 2,276                |
| 64 University of Kentucky    | 60.649             | 46,594                   | 0         | 56                                | 2,071  | 473                     | 11,455               |
| 65 U IL Chicago              | 58.450             | 55,202                   | 45        | 0                                 | 1,320  | 358                     | 1,525                |
| 66 Georgetown University     | 58.418             | 56.523                   | 412       | 0                                 | 581  | 78                      | 824                  |
| 67 Iowa State University     | 56.984             | 41,468                   | 562       | 194                               | 1,568  | 196                     | 12,996               |
| 68 University of Cincinnati  | 56.185             | 51,936                   | 325       | 0                                 | 2,227  | 1,336                   | 361                  |
| 69 U CA Santa Barbara        | 54.855             | 51,459                   | 543       | 33                                | 888  | 765                     | 1,167                |
| 70 New Mexico State U        | 54.072             | 47,265                   | 0         | 0                                 | 977  | 65                      | 5,765                |
| Total 1st 70 institutions    | 8,975.473          | 7,852.235                | 170.153   | 5.606                             | 358,379  | 30.214                  | 558.886              |
| 71 Colorado State University | 53.949             | 46.360                   | 299       | 0                                 | 2,003  | 243                     | 5,044                |
| 72 U Med & Dent of NJ        | 53.773             | 41,788                   | 10,077    | 0                                 | 1,270  | 466                     | 172                  |
| 73 West Virginia U Morgantwn | 53.508             | 35,439                   | 1,487     | 0                                 | 1,519  | 30                      | 15,033               |
| 74 U Hawaii Manoa            | 53.286             | 44,660                   | 3,213     | 50                                | 1,632  | 175                     | 3,556                |
| 75 U MD Baltimore            | 52.466             | 49,992                   | 100       | 0                                 | 1,426  | 143                     | 805                  |
| 76 Oregon Hlth Sciences U    | 52.299             | 37,898                   | 10,102    | 0                                 | 4,103  | 52                      | 144                  |
| 77 Georgia Institute of Tech | 51.953             | 50,805                   | 25        | 0                                 | 966  | 39                      | 118                  |
| 78 Tufts University          | 49.179             | 45,015                   | 263       | 0                                 | 1,314  | 242                     | 2,345                |
| 79 VA Polytech Inst & St U   | 48,887             | 36,841                   | 904       | 225                               | 783  | 101                     | 10,033               |
| 80 U TX Hlth Sci Ctr S Anto  | 48.415             | 44,987                   | 0         | 0                                 | 2,817  | 211                     | 400                  |
| Total 1st 80 institutions    | 9,493.188          | 8,286.020                | 196.623   | 5.881                             | 376.212  | 31.916                  | 596.536              |
| 81 CUNY Mt Sinai Scht of Med | 45.262             | 43,638                   | 0         | 0                                 | 1,512  | 56                      | 56                   |
| 82 Virginia Commonwealth U   | 44.029             | 40,568                   | 0         | 0                                 | 3,416  | 35                      | 10                   |
| 83 Utah State University     | 44.002             | 38,841                   | 638       | 0                                 | 459  | 298                     | 3,766                |
| 84 Dartmouth College         | 43.641             | 41,349                   | 0         | 120                               | 1,625  | 246                     | 301                  |
| 85 U Alaska Fairbanks        | 43.385             | 31,738                   | 665       | 71                                | 225  | 976                     | 9,710                |
| 86 U TX MD Anderson Cancer   | 43.219             | 42,602                   | 0         | 0                                 | 587  | 15                      | 15                   |
| 87 Wayne State University    | 42.735             | 40,172                   | 470       | 0                                 | 1,607  | 398                     | 88                   |
| 88 Wake Forest University    | 42.526             | 37,768                   | 3,573     | 19                                | 1,088  | 11                      | 67                   |
| 89 U Tennessee Knoxville     | 42.026             | 28,833                   | 1,204     | 0                                 | 373  | 76                      | 11,540               |
| 90 Florida State University  | 41.966             | 26,847                   | 14,050    | 0                                 | 1,029  | 40                      | 0                    |
| Total 1st 90 institutions    | 9,925.979          | 8,658.376                | 217.223   | 6.091                             | 388.133  | 34.067                  | 622.089              |
| 91 U Missouri Columbia       | 41.937             | 28,481                   | 0         | 68                                | 979  | 43                      | 12,366               |
| 92 University of Dayton      | 41.678             | 37,065                   | 0         | 0                                 | 24   | 0                       | 4,589                |
| 93 U MA Amherst              | 40.237             | 35,227                   | 125       | 78                                | 682  | 54                      | 4,071                |
| 94 Thomas Jefferson U        | 39.635             | 38,180                   | 0         | 0                                 | 1,405  | 25                      | 25                   |
| 95 U TX Hlth Sci Ctr Houstn  | 38.753             | 37,465                   | 0         | 0                                 | 1,080  | 97                      | 111                  |
| 96 Washington State U        | 38.649             | 29,541                   | 2,190     | 0                                 | 738  | 82                      | 6,098                |
| 97 University of Vermont     | 38.481             | 33,915                   | 0         | 0                                 | 1,227  | 409                     | 2,930                |
| 98 SUNY at Buffalo           | 37.598             | 31,355                   | 0         | 97                                | 1,635  | 239                     | 4,272                |
| 99 Brown University          | 36.887             | 34,483                   | 150       | 82                                | 1,666  | 0                       | 506                  |
| 100 U MA Worcester           | 36.639             | 34,574                   | 0         | 0                                 | 1,257  | 404                     | 404                  |
| Total 1st 100 institutions   | 10,316.473         | 8,998.662                | 219.688   | 6.416                             | 398.826  | 35.420                  | 657.461              |

SOURCE: National Science Foundation/SRS, Survey of Federal Support to Universities, Colleges, and Nonprofit Institutions, Fiscal Year 1993

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