

Federal Funds for Research & Development

Table I is for reporting outlays only.

**Table I. Outlays for Research & Development and R&D Plant:
FYs 2006, 2007, and 2008**

| | (Dollars in thousands) | | |
|---|------------------------|---------------------|---------------------|
| | FY 2006 | FY 2007 | FY 2008 |
| | Vol. 56 Actual | Vol. 56 Preliminary | Vol. 56 Preliminary |
| R&D and R&D Plant | | | |
| TOTAL Research & Development | | | |
| TOTAL R&D Plant | | | |
| TOTAL Research & Development and R&D Plant | 0 | 0 | 0 |

Federal Funds for Research & Development

Table II is for reporting obligations only. Obligations shown in Total Research and Development and Total R&D plant of table II should be identified by appropriation titles and program activities as part of the descriptive narrative statements.

Table II. Summary of Obligations for Research & Development and R&D Plant: FY 2006, 2007, and 2008

(Dollars in Thousands)

| Character of Work | FY 2006 | FY 2007 | FY 2008 |
|---|----------------|---------------------|---------------------|
| | Vol. 56 Actual | Vol. 56 Preliminary | Vol. 56 Preliminary |
| Basic Research | | | |
| Applied Research | | | |
| TOTAL Research¹ | 0 | 0 | 0 |
| Advanced Tech. Development | | | |
| Major Systems Development | | | |
| TOTAL Development² | 0 | 0 | 0 |
| TOTAL Research & Development | 0 | 0 | 0 |
| TOTAL R&D Plant | | | |
| TOTAL Research & Development and R&D Plant | 0 | 0 | 0 |

¹ Basic research plus applied research equals total research.

² Advanced technology development plus major systems development equals total development.

Federal Funds for Research & Development

**Table III. Obligations for Basic, Applied, and Total Research
by Field of Science and Engineering (FOS): FY 2006**

** See instructions for Tables III, IV, and V below.

| Field of Science and Engineering | (Dollars in Thousands) | | |
|--|----------------------------------|------------------------------------|---|
| | Basic Research Vol. 56 Actual | Applied Research Vol. 56 Actual | Total Research ¹ Vol. 56 Actual |
| LIFE SCIENCES: | | | Read Only |
| Biological (excl. envrmtl.) | 0 | 0 | 0 |
| Environmental biology | 0 | 0 | 0 |
| Agricultural | 0 | 0 | 0 |
| Medical | 0 | 0 | 0 |
| Life sciences, n.e.c. ² | 0 | 0 | 0 |
| TOTAL Life Sciences | 0 | 0 | 0 |
| PSYCHOLOGY: | | | Read Only |
| Biological aspects | 0 | 0 | 0 |
| Social aspects | 0 | 0 | 0 |
| Psychological sciences, n.e.c. ² | 0 | 0 | 0 |
| TOTAL Psychology | 0 | 0 | 0 |
| PHYSICAL SCIENCES: | | | |
| Astronomy | 0 | 0 | 0 |
| Chemistry | 0 | 0 | 0 |
| Physics | 0 | 0 | 0 |
| Physical sciences, n.e.c. ² | 0 | 0 | 0 |
| TOTAL Physical Sciences | 0 | 0 | 0 |
| ENVIRONMENTAL SCIENCES: | | | Read Only |
| Atmospheric | 0 | 0 | 0 |
| Geological | 0 | 0 | 0 |
| Oceanography | 0 | 0 | 0 |
| Environmental sciences, n.e.c. ² | 0 | 0 | 0 |
| TOTAL Environmental Sciences | 0 | 0 | 0 |
| MATHEMATICS & COMPUTER SCIENCES: | | | Read Only |
| Mathematics | 0 | 0 | 0 |
| Computer Sciences | 0 | 0 | 0 |
| Math & computer sciences, n.e.c. ² | 0 | 0 | 0 |
| TOTAL Mathematics & Computer Sciences | 0 | 0 | 0 |
| ENGINEERING: | | | Read Only |
| Aeronautical | 0 | 0 | 0 |
| Astronautical | 0 | 0 | 0 |
| Chemical | 0 | 0 | 0 |
| Civil | 0 | 0 | 0 |
| Electrical | 0 | 0 | 0 |

| | | | |
|--------------------------------------|---|---|-----------|
| Mechanical | | | 0 |
| Metallurgy and materials | | | 0 |
| Engineering, n.e.c. ² | | | 0 |
| TOTAL Engineering | 0 | 0 | 0 |
| SOCIAL SCIENCES: | | | Read Only |
| Anthropology | | | 0 |
| Economics | | | 0 |
| Political science | | | 0 |
| Sociology | | | 0 |
| Social sciences, n.e.c. ² | | | 0 |
| TOTAL Social Sciences | 0 | 0 | 0 |
| Other sciences, n.e.c. ² | | | 0 |
| TOTAL All Fields³ | 0 | 0 | 0 |

¹ Basic research plus applied research equals total research.

⁴ Not elsewhere classified.

³ The total for column 1 should equal the amount reported for FY2006 basic research in Table II. The total for column 2 should equal the amount reported for FY2006 applied research in Table II.

****Tables III, IV, and V** are for the reporting of obligations for research by fields of science and engineering. Every effort should be made to allocate obligations to a specific discipline for actual year's data rather than to the "not elsewhere classified (n.e.c.)" category. If specific allocation is not feasible, however, obligations reported under the n.e.c. category should be identified in an explanatory note. In reporting obligations for activities concerned with interdisciplinary studies funds must not be double-counted.

Federal Funds for Research & Development

**Table IV. Obligations for Basic, Applied, and Total Research
by Field of Science and Engineering (FOS): FY 2007**

** See instructions for Tables III, IV, and V below.

| Field of Science and Engineering | (Dollars in Thousands) | | |
|-------------------------------------|------------------------|---------------------|-----------------------------|
| | Basic Research | Applied Research | Total Research ¹ |
| | Vol. 56 Preliminary | Vol. 56 Preliminary | Vol. 56 Preliminary |
| | | | Read Only |
| Life Sciences | 0 | 0 | 0 |
| Psychology | 0 | 0 | 0 |
| Physical Sciences | 0 | 0 | 0 |
| Environmental Sciences | 0 | 0 | 0 |
| Mathematics & Computer Sciences | 0 | 0 | 0 |
| Engineering | 0 | 0 | 0 |
| Social Sciences | 0 | 0 | 0 |
| Other sciences, n.e.c. ² | 0 | 0 | 0 |
| TOTAL All Fields³ | 0 | 0 | 0 |

¹ Basic research plus applied research equals total research.

² Not elsewhere classified.

³ The total for column 1 should equal the amount reported for FY2007 basic research in Table II. The total for column 2 should equal the amount reported for FY2007 applied research in Table II.

****Tables III, IV, and V** are for the reporting of obligations for research by fields of science and engineering. Every effort should be made to allocate obligations to a specific discipline for actual year's data rather than to the "not elsewhere classified (n.e.c.)" category. If specific allocation is not feasible, however, obligations reported under the n.e.c. category should be identified in an explanatory note. In reporting obligations for activities concerned with interdisciplinary studies funds must not be double-counted.

Federal Funds for Research & Development

**Table V. Obligations for Basic, Applied, and Total Research
by Field of Science and Engineering (FOS): FY 2008**

** See instructions for Tables III, IV, and V below.

| Field of Science and Engineering | (Dollars in Thousands) | | |
|-------------------------------------|------------------------|---------------------|-----------------------------|
| | Basic Research | Applied Research | Total Research ¹ |
| | Vol. 56 Preliminary | Vol. 56 Preliminary | Vol. 56 Preliminary |
| | | | Read Only |
| Life Sciences | 0 | 0 | 0 |
| Psychology | 0 | 0 | 0 |
| Physical Sciences | 0 | 0 | 0 |
| Environmental Sciences | 0 | 0 | 0 |
| Mathematics & Computer Sciences | 0 | 0 | 0 |
| Engineering | 0 | 0 | 0 |
| Social Sciences | 0 | 0 | 0 |
| Other sciences, n.e.c. ² | 0 | 0 | 0 |
| TOTAL All Fields³ | 0 | 0 | 0 |

¹ Basic research plus applied research equals total research.

² Not elsewhere classified.

³ The total for column 1 should equal the amount reported for FY2008 basic research in Table II. The total for column 2 should equal the amount reported for FY2008 applied research in Table II.

****Tables III, IV, and V** are for the reporting of obligations for research by fields of science and engineering. Every effort should be made to allocate obligations to a specific discipline for actual year's data rather than to the "not elsewhere classified (n.e.c.)" category. If specific allocation is not feasible, however, obligations reported under the n.e.c. category should be identified in an explanatory note. In reporting obligations for activities concerned with interdisciplinary studies funds must not be double-counted.

Federal Funds for Research & Development

Table VI. Obligations for Research & Development by Performer and Character of Work: FY 2006

** See instructions for Tables VI, VII, and VIII below.

| (Dollars in Thousands) | | | | | |
|---|----------------|------------------|---------------------------------|---------------------------|------------------------------|
| | Basic Research | Applied Research | Advanced Technology Development | Major Systems Development | Research & Development Total |
| | Vol. 56 Actual | Vol. 56 Actual | Vol. 56 Actual | Vol. 56 Actual | Vol. 56 Actual |
| Performer | | | | | Read Only |
| Federal Intramural ¹ | | | | | 0 |
| Portion of Federal intramural for Personnel Costs ² (subtotal of Federal Intramural) | | | | | 0 |
| Industrial Firms Excl. FFRDCs ³ | | | | | 0 |
| FFRDCs ³ Admin. by Industrial Firms | | | | | 0 |
| Univ. & Colleges Excl. FFRDCs ³ | | | | | 0 |
| FFRDCs ³ Admin. by Univ. & Colleges | | | | | 0 |
| Nonprofit Inst. Excl. FFRDCs ³ | | | | | 0 |
| FFRDCs ³ Admin. by Nonprofit Inst. | | | | | 0 |
| State and Local Governments | | | | | 0 |
| TOTAL All Domestic Performers | 0 | 0 | 0 | 0 | 0 |
| Foreign ⁴ | | | | | 0 |
| TOTAL All Performers⁵ | 0 | 0 | 0 | 0 | 0 |

¹ Include 1) R&D conducted by federal agencies (intramural research), and 2) Federal costs associated with the R&D performed with Federal funds outside the Federal sector under contract, grant, or cooperative agreement (extramural research). Even if all work is performed by extramural performers, the costs associated with the planning and administration of such programs by Federal personnel must be reported.

² Include the portion of Federal intramural costs (reported above) associated with 1) personnel costs for the planning and administration of extramural R&D, and 2) personnel costs for federal intramural research projects.

³ Federally funded research and development centers. (See instructions for list.)

⁴ See instructions for definition of foreign performers.

⁵ Total equals basic research, applied research, advanced technology development, and major systems development in Table II for 2006.

****Tables VI, VII, and VIII** cover reporting of obligations by performer.

Personnel costs are for identification of obligations for intramural personnel services and related allowances. Such obligations cover salaries for scientists and engineers and other intramural support effort should be made to allocate obligations to a specific discipline for actual year's data rather than to the personnel, including planning and administrative personnel.

Those institutions that include Federally Funded Research and Development Centers are for identification of obligations to (FFRDCs) appearing on table IX. Each agency should report obligations to each FFRDC that it uses that appears on that list, even though the FFRDC may be sponsored by another agency. Obligations to FFRDCs administered by university consortia should be included in the amounts under FFRDCs administered by universities and colleges.

Agencies may not unilaterally delete organizations classified as FFRDCs from the list or add organizations thereto. Inquiries concerning additions or deletions to the list of FFRDCs should be directed to Mary Burke, Division of Science Resources Studies, National Science Foundation, at (703) 306-1772. Additional information concerning FFRDCs is in the reporting guidelines for table IX.

State and local governments is for identification of obligations to State and local government agencies for R&D activities financed by the Federal Government.

Foreign is for identification of obligations for R&D performance by foreign individuals or foreign organizations (including international organizations in foreign countries) that are financed by Federal agencies. Obligations made with funds separately appropriated for special foreign currency programs should be included in the totals for foreign obligations. These special foreign currencies are derived from funds provided under Public Law 480, 1954, as amended. Care should be taken to report foreign performance only once. For example, if a foreign performer is an educational institution, obligations to that institution should be reported only under foreign performance and not also under universities and colleges.

Federal Funds for Research & Development

Table VII. Obligations for Research & Development by Performer and Character of Work: FY 2007

** See instructions for Tables VI, VII, and VIII below.

| (Dollars in Thousands) | | | | | |
|---|---------------------|---------------------|---------------------------------|---------------------------|------------------------------|
| | Basic Research | Applied Research | Advanced Technology Development | Major Systems Development | Research & Development Total |
| | Vol. 56 Preliminary | Vol. 56 Preliminary | Vol. 56 Preliminary | Vol. 56 Preliminary | Vol. 56 Preliminary |
| Performer | | | | | Read Only |
| Federal Intramural ¹ | | | | | 0 |
| Portion of Federal intramural for Personnel Costs ² (subtotal of Federal Intramural) | | | | | 0 |
| Industrial Firms Excl. FFRDCs ³ | | | | | 0 |
| FFRDCs ³ Admin. by Industrial Firms | | | | | 0 |
| Univ. & Colleges Excl. FFRDCs ³ | | | | | 0 |
| FFRDCs ³ Admin. by Univ. & Colleges | | | | | 0 |
| Nonprofit Inst. Excl. FFRDCs ³ | | | | | 0 |
| FFRDCs ³ Admin. by Nonprofit Inst. | | | | | 0 |
| State and Local Governments | | | | | 0 |
| TOTAL All Domestic Performers | 0 | 0 | 0 | 0 | 0 |
| Foreign ⁴ | | | | | 0 |
| TOTAL All Performers⁵ | 0 | 0 | 0 | 0 | 0 |

¹ Include 1) R&D conducted by federal agencies (intramural research), and 2) Federal costs associated with the R&D performed with Federal funds outside the Federal sector under contract, grant, or cooperative agreement (extramural research). Even if all work is performed by extramural performers, the costs associated with the planning and administration of such programs by Federal personnel must be reported.

² Include the portion of Federal intramural costs (reported above) associated with 1) personnel costs for the planning and administration of extramural R&D, and 2) personnel costs for federal intramural research projects.

³ Federally funded research and development centers. (See instructions for list.)

⁴ See instructions for definition of foreign performers.

⁵ Total equals basic research, applied research, advanced technology development, and major systems development in Table II for 2007.

****Tables VI, VII, and VIII** cover reporting of obligations by performer.

Personnel costs are for identification of obligations for intramural personnel services and related allowances. Such obligations cover salaries for scientists and engineers and other intramural support effort should be made to allocate obligations to a specific discipline for actual year's data rather than to the personnel, including planning and administrative personnel.

Those institutions that include Federally Funded Research and Development Centers are for identification of obligations to (FFRDCs) appearing on table IX. Each agency should report obligations to each FFRDC that it uses that appears on that list, even though the FFRDC may be sponsored by another agency. Obligations to FFRDCs administered by university consortia should be included in the amounts under FFRDCs administered by universities and colleges.

Agencies may not unilaterally delete organizations classified as FFRDCs from the list or add organizations thereto. Inquiries concerning additions or deletions to the list of FFRDCs should be directed to Mary Burke, Division of Science Resources Studies, National Science Foundation, at (703) 306-1772. Additional information concerning FFRDCs is in the reporting guidelines for table IX.

State and local governments is for identification of obligations to State and local government agencies for R&D activities financed by the Federal Government.

Foreign is for identification of obligations for R&D performance by foreign individuals or foreign organizations (including international organizations in foreign countries) that are financed by Federal agencies. Obligations made with funds separately appropriated for special foreign currency programs should be included in the totals for foreign obligations. These special foreign currencies are derived from funds provided under Public Law 480, 1954, as amended. Care should be taken to report foreign performance only once. For example, if a foreign performer is an educational institution, obligations to that institution should be reported only under foreign performance and not also under universities and colleges.

Federal Funds for Research & Development

Table VIII. Obligations for Research & Development by Performer and Character of Work: FY 2008

** See instructions for Tables VI, VII, and VIII below.

| | (Dollars in Thousands) | | | | |
|---|------------------------|---------------------|---------------------------------|---------------------------|------------------------------|
| | Basic Research | Applied Research | Advanced Technology Development | Major Systems Development | Research & Development Total |
| | Vol. 56 Preliminary | Vol. 56 Preliminary | Vol. 56 Preliminary | Vol. 56 Preliminary | Vol. 56 Preliminary |
| Performer | | | | | Read Only |
| Federal Intramural ¹ | | | | | 0 |
| Portion of Federal intramural for Personnel Costs ² (subtotal of Federal Intramural) | | | | | 0 |
| Industrial Firms Excl. FFRDCs ³ | | | | | 0 |
| FFRDCs ³ Admin. by Industrial Firms | | | | | 0 |
| Univ. & Colleges Excl. FFRDCs ³ | | | | | 0 |
| FFRDCs ³ Admin. by Univ. & Colleges | | | | | 0 |
| Nonprofit Inst. Excl. FFRDCs ³ | | | | | 0 |
| FFRDCs ³ Admin. by Nonprofit Inst. | | | | | 0 |
| State and Local Governments | | | | | 0 |
| TOTAL All Domestic Performers | 0 | 0 | 0 | 0 | 0 |
| Foreign ⁴ | | | | | 0 |
| TOTAL All Performers⁵ | 0 | 0 | 0 | 0 | 0 |

¹ Include 1) R&D conducted by federal agencies (intramural research), and 2) Federal costs associated with the R&D performed with Federal funds outside the Federal sector under contract, grant, or cooperative agreement (extramural research). Even if all work is performed by extramural performers, the costs associated with the planning and administration of such programs by Federal personnel must be reported.

² Include the portion of Federal intramural costs (reported above) associated with 1) personnel costs for the planning and administration of extramural R&D, and 2) personnel costs for federal intramural research projects.

³ Federally funded research and development centers. (See instructions for list.)

⁴ See instructions for definition of foreign performers.

⁵ Total equals basic research, applied research, advanced technology development, and major systems development in Table II for 2008.

**Tables VI, VII, and VIII cover reporting of obligations by performer.

Personnel costs are for identification of obligations for intramural personnel services and related allowances. Such obligations cover salaries for scientists and engineers and other intramural support effort should be made to allocate obligations to a specific discipline for actual year's data rather than to the personnel, including planning and administrative personnel.

Those institutions that include Federally Funded Research and Development Centers are for identification of obligations to (FFRDCs) appearing on table IX. Each agency should report obligations to each FFRDC that it uses that appears on that list, even though the FFRDC may be sponsored by another agency. Obligations to FFRDCs administered by university consortia should be included in the amounts under FFRDCs administered by universities and colleges.

Agencies may not unilaterally delete organizations classified as FFRDCs from the list or add organizations thereto. Inquiries concerning additions or deletions to the list of FFRDCs should be directed to Mary Burke, Division of Science Resources Studies, National Science Foundation, at (703) 306-1772. Additional information concerning FFRDCs is in the reporting guidelines for table IX.

State and local governments is for identification of obligations to State and local government agencies for R&D activities financed by the Federal Government.

Foreign is for identification of obligations for R&D performance by foreign individuals or foreign organizations (including international organizations in foreign countries) that are financed by Federal agencies. Obligations made with funds separately appropriated for special foreign currency programs should be included in the totals for foreign obligations. These special foreign currencies are derived from funds provided under Public Law 480, 1954, as amended. Care should be taken to report foreign performance only once. For example, if a foreign performer is an educational institution, obligations to that institution should be reported only under foreign performance and not also under universities and colleges.

Federal Funds for Research & Development

Table IX. Obligations for Research & Development and R&D Plant at Individual Federally Funded Research and Development Centers (FFRDCs): FY 2006

** See instructions for Table IX below.

| Federally funded research and development centers (FFRDCs). (Report obligations for any FFRDC used by respondent agency). | (Dollars in Thousands) | |
|---|------------------------|-----------------------|
| | R&D Obligations | R&D Plant Obligations |
| ADMINISTERED BY INDUSTRIAL FIRMS: | | |
| Idaho National Engineering Laboratory (Bechtel BWX Technologies Idaho, LLC), Idaho Falls, ID | | |
| National Cancer Institute at Frederick (Science Applications International Corp.; Charles River Laboratories, Inc.; Data Management Services, Inc.; Wilson Information Services, Inc.), Frederick, MD ¹⁹ | | |
| Sandia National Laboratories (Sandia Corporation which is a subsidiary of Lockheed Martin Corp.), Albuquerque, NM | | |
| Savannah River Technology Center (Westinghouse Savannah River Co.), Aiken, SC | | |
| TOTAL Industrial-Administered FFRDCs | 0 | 0 |
| | <small>1</small> | <small>2</small> |
| ADMINISTERED BY UNIVERSITIES & COLLEGES:³ | | |
| Ames Laboratory (Iowa State University of Science and Technology), Ames, IA | | |
| Argonne National Laboratory (University of Chicago), Argonne, IL | | |
| Ernest Orlando Lawrence Berkeley Nat'l Laboratory (University of California), Berkeley, CA | | |
| Fermi National Accelerator Laboratory (Universities Research Association, Inc.), Batavia, IL | | |
| Jet Propulsion Laboratory (California Institute of Technology), Pasadena, CA | | |
| Lawrence Livermore National Laboratory (University of California, Livermore, CA | | |
| Lincoln Laboratory (Massachusetts Institute of Technology), Lexington, MA | | |
| Los Alamos National Laboratory (University of California), Los Alamos, NM | | |
| National Astronomy and Ionosphere Center (Cornell University), Arecibo, PR | | |
| National Center for Atmospheric Research (University Corporation for Atmospheric Research), Boulder, CO | | |
| National Optical Astronomy Observatories (Association of Universities for Research in Astronomy, Inc.), Tucson, AZ ⁴ | | |
| National Radio Astronomy Observatory | | |

| | | |
|---|----------|----------|
| Charlottesville, VA & Green Bank, WV [Read-Only] | 0 | 0 |
| National Radio Astronomy Observatory -- Green Bank, WV | | |
| National Radio Astronomy Observatory -- Charlottesville, VA | | |
| Oak Ridge Institute for Science & Education (Oak Ridge Associated Universities, Inc.), Oak Ridge, TN | | |
| Princeton Plasma Physics Laboratory (Princeton University), Princeton, NJ | | |
| Software Engineering Institute (Carnegie Mellon University), Pittsburgh, PA | | |
| Stanford Linear Accelerator Center (Leland Stanford, Jr. University), Stanford, CA | | |
| Thomas Jefferson National Accelerator Facility (Southeastern Universities Research Association, Inc.), Newport News, VA ⁵ | | |
| TOTAL University & College-Administered FFRDCs | 0 | 0 |
| | 6 | 7 |
| ADMINISTERED BY OTHER NONPROFIT INSTITUTIONS:⁸ | | |
| Aerospace Federally Funded Research and Development Center (The Aerospace Corp.), El Segundo, CA | | |
| Arroyo Center (RAND Corporation), Santa Monica, CA ⁹ | | |
| Brookhaven National Laboratory (Brookhaven Science Associates, Inc.), Upton, Long Island, NY ¹⁰ | | |
| C3I Federally Funded Research & Development Center (MITRE Corp.), Bedford, MA & McLean, VA [Read-Only] ¹¹ | 0 | 0 |
| C3I -- Bedford, MA Laboratory | | |
| C3I -- McLean, VA Laboratory | | |
| Center for Advanced Aviation System Development (MITRE Corp.), McLean, VA | | |
| Center for Naval Analyses (The CNA Corporation), Alexandria, VA | | |
| Center for Nuclear Waste Regulatory Analyses (Southwest Research Institute), San Antonio, TX | | |
| Homeland Security Institute (Analytic Services, Inc) Arlington, VA | | |
| Institute for Defense Analyses Communications & Computing Federally Funded Research & Development Center (Institute for Defense Analyses), Alexandria, VA ¹² | | |
| Institute for Defense Analyses Studies & Analyses FFRDC (Institute for Defense Analyses), Alexandria, VA | | |
| Internal Revenue Service (IRS) FFRDC (MITRE Corp.), Lanham, MD ¹⁸ | | |
| National Defense Research Institute, (RAND Corporation), Santa Monica, CA | | |
| National Renewable Energy Laboratory, (Midwest | | |

| | | |
|---|-----------|-----------|
| Research Institute), Golden, CO ¹³ | | |
| Oak Ridge National Laboratory (UT-Battelle, LLC), Oak Ridge, TN ¹⁶ | | |
| Pacific Northwest National Laboratory (Battelle Memorial Institute), Richland, WA | | |
| Project Air Force (RAND Corporation), Santa Monica, CA | | |
| Science and Technology Policy Institute, The (RAND Corporation), Washington, DC ¹⁷ | | |
| TOTAL Nonprofit-Administered FFRDCs | 0 | 0 |
| | 14 | 15 |

- ¹ Totals equal combined obligations for basic research, applied research, advanced technology development, and major systems development, as reported in FFRDCs Administered by Industrial Firms of Table VI
- ² Totals R&D Plant Obligations equal item 2 of Table XI for 2006.
- ³ Includes university consortia.
- ⁴ Since February 1984 this center includes three former FFRDCs: Cerro Tololo Inter-American Observatory, Kitt Peak National Observatory, and the National Solar Observatory (formerly Sacramento Peak Observatory).
- ⁵ In May 1996 the name was changed from Continuous Electron Beam Accelerator Facility.
- ⁶ Totals equal combined obligations for basic research, applied research, advanced technology development, and major systems development, as reported in FFRDCs Administered by Universities and Colleges of Table VI
- ⁷ Totals equal FFRDCs Administered by Universities & Colleges of Table XI for 2006.
- ⁸ Other than universities and colleges.
- ⁹ The following portions of the RAND Corporation are FFRDCs: Project Air Force, the Arroyo Center, National Defense Research Institute (formerly Defense/Office of the Joint Chiefs of Staff), and the Science and Technology Institute (formerly Critical Technologies Institute). All other agency support to RAND is reported under "Other Nonprofit Institutions Excluding FFRDCs".
- ¹⁰ March 1, 1998 Brookhaven National Laboratory acquired a new nonprofit administrator (Brookhaven Science Associates, Inc.). The previous administrator was a university consortium
- ¹¹ Only the C3I Federally Funded Research & Development Center, the Center for Advanced Aviation System Development, and the Internal Revenue Service (IRS) FFRDC portions of the MITRE Corporation are reported as FFRDCs. All other agency support to MITRE is reported under "Other Nonprofit Institutions Excluding FFRDCs."
- ¹² Although the Institute for Defense Analyses Communications & Computing FFRDC has been in existence since 1956, the Department of Defense added it to the Master Government List of FFRDCs for the first time in October 1995.
- ¹³ In September 1991 the name was changed from Solar Energy Research Institute.
- ¹⁴ Totals equal combined obligations for basic research, applied research, advanced technology development, and major systems development, as reported in FFRDCs Administered by Nonprofit Institutions of Table VI
- ¹⁵ Totals equal FFRDCs Administered by Nonprofit Institutions of Table XI for 2006.
- ¹⁶ April 1, 2000 Oak Ridge National Laboratory acquired a new nonprofit administrator (UT-Battelle, LLC). The previous administrator was the industrial firm Lockheed Martin Energy Research Corp.
- ¹⁷ October 1, 1998 the Critical Technologies Institute was renamed The Science and Technology Policy Institute.
- ¹⁸ In October 1998 the Tax Systems Modernization Institute (IIT Research Institute) Lanham, MD was replaced with Internal Revenue Service (IRS) Federally Funded Research and Development Center (FFRDC) administered by the MITRE Corp. in McLean, VA.
- ¹⁹ In 2000, the name was changed from NCI Frederick Cancer Research and Development Center. It continues to be an FFRDC.
- ²⁰ On April 26, 2004, the Homeland Security Institute was created.

Notes: Each supporting agency should report obligations to each FFRDC it uses even though the FFRDC may be under the sponsorship of another agency. See NSF's website for a list of FFRDCs shown by sponsoring agency and administering organization.

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

The Department of Energy decertified Bettis Atomic Power Laboratory, Hanford Engineering Development Laboratory, and Knolls Atomic Power Laboratory as FFRDCs in October/November 1992.

The Department of Energy removed from the Master Government List of FFRDCs (1) the Energy Technology Engineering Center in November 1995 and (2) the Inhalation Toxicology Research Institute in May 1996.

****Table IX** provides for reporting additional information on FY 2006 R&D and R&D plant obligations to FFRDCs. This table requires the breakdown of obligations for research and development reported in table VI by each FFRDC listed. This table also requires the breakdown by individual FFRDC of obligations for R&D plant reported in table XI for FY 2006. Each agency should report obligations to each FFRDC it supports, even though the FFRDC is sponsored by another agency.

Federal Funds for Research & Development

Table X. Obligations for Basic Research and Total Research and Development to Foreign Performers¹ by Geographic Area and Country: FY 2006

** See instructions for Table X below.

(Dollars in Thousands)

| Geographic Area and Country | Basic Research Only ² | Total Research & Development ³ |
|-----------------------------|----------------------------------|---|
| EUROPE: | | |
| Albania | | |
| Andorra | | |
| Austria | | |
| Belarus | | |
| Belgium | | |
| Bosnia and Herzegovina | | |
| Bulgaria | | |
| Croatia | | |
| Czech Republic | | |
| Denmark | | |
| Estonia | | |
| Faroe Islands | | |
| Finland | | |
| France | | |
| Germany | | |
| Gibraltar | | |
| Greece | | |
| Holy See | | |
| Hungary | | |
| Iceland | | |
| Ireland | | |
| Italy | | |
| Latvia | | |
| Liechtenstein | | |
| Lithuania | | |
| Luxembourg | | |
| Malta | | |
| Moldova | | |
| Monaco | | |
| Netherlands | | |
| Norway | | |
| Poland | | |
| Portugal | | |

| | | |
|--|---|---|
| Romania | | |
| Russia | | |
| San Marino | | |
| Slovakia | | |
| Slovenia | | |
| Spain | | |
| Sweden | | |
| Switzerland | | |
| Ukraine | | |
| United Kingdom | | |
| Serbia and Montenegro | | |
| Macedonia, Former Yugoslav Republic of | | |
| European Countries, Other | | |
| TOTAL Europe | 0 | 0 |
| ASIA: | | |
| Afghanistan | | |
| Armenia | | |
| Azerbaijan | | |
| Bahrain | | |
| Bangladesh | | |
| Bhutan | | |
| Brunei | | |
| Cambodia | | |
| China | | |
| Cyprus | | |
| East Timor | | |
| Georgia | | |
| Hong Kong | | |
| India | | |
| Indonesia | | |
| Iran | | |
| Iraq | | |
| Israel | | |
| Japan | | |
| Jordan | | |
| Kazakhstan | | |
| Korea, South | | |
| Korea, North | | |
| Kuwait | | |
| Kyrgyzstan | | |
| Laos | | |

| | | |
|--------------------------|---|---|
| Lebanon | | |
| Macau | | |
| Malaysia | | |
| Maldives | | |
| Mongolia | | |
| Burma | | |
| Nepal | | |
| Oman | | |
| Pakistan | | |
| Philippines | | |
| Qatar | | |
| Saudi Arabia | | |
| Singapore | | |
| Sri Lanka | | |
| Syria | | |
| Tajikistan | | |
| Thailand | | |
| Turkey | | |
| Turkmenistan | | |
| United Arab Emirates | | |
| Uzbekistan | | |
| Vietnam | | |
| Yemen | | |
| Palestine | | |
| Gaza Strip | | |
| West Bank | | |
| Taiwan | | |
| Asian Countries, Other | | |
| TOTAL Asia | 0 | 0 |
| AFRICA: | | |
| Algeria | | |
| Angola | | |
| Benin | | |
| Botswana | | |
| Burkina Faso | | |
| Burundi | | |
| Cameroon | | |
| Cape Verde | | |
| Central African Republic | | |
| Chad | | |
| Comoros | | |

| | | |
|-----------------------|--|--|
| Republic of the Congo | | |
| Cote d'Ivoire | | |
| Djibouti | | |
| Egypt | | |
| Equatorial Guinea | | |
| Eritrea | | |
| Ethiopia | | |
| Gabon | | |
| Gambia, The | | |
| Ghana | | |
| Guinea | | |
| Guinea-Bissau | | |
| Kenya | | |
| Lesotho | | |
| Liberia | | |
| Libya | | |
| Madagascar | | |
| Malawi | | |
| Mali | | |
| Mauritania | | |
| Mauritius | | |
| Morocco | | |
| Mozambique | | |
| Namibia | | |
| Niger | | |
| Nigeria | | |
| Reunion | | |
| Rwanda | | |
| Saint Helena | | |
| Sao Tome and Principe | | |
| Senegal | | |
| Seychelles | | |
| Sierra Leone | | |
| Somalia | | |
| South Africa | | |
| Sudan | | |
| Swaziland | | |
| Togo | | |
| Tunisia | | |
| Uganda | | |
| Tanzania | | |
| Western Sahara | | |

| | | |
|-----------------------------------|---|---|
| Democratic Republic of the Congo | | |
| Zambia | | |
| Zimbabwe | | |
| African Countries, Other | | |
| TOTAL Africa | 0 | 0 |
| SOUTH AMERICA: | | |
| Argentina | | |
| Bolivia | | |
| Brazil | | |
| Chile | | |
| Colombia | | |
| Ecuador | | |
| Falkland Islands (Islas Malvinas) | | |
| French Guiana | | |
| Guyana | | |
| Paraguay | | |
| Peru | | |
| Suriname | | |
| Uruguay | | |
| Venezuela | | |
| South American Countries, Other | | |
| TOTAL South America | 0 | 0 |
| OCEANIA: | | |
| American Samoa | | |
| Australia | | |
| Cook Islands | | |
| Fiji | | |
| French Polynesia | | |
| Guam | | |
| Kiribati | | |
| Marshall Islands | | |
| Nauru | | |
| New Caledonia | | |
| New Zealand | | |
| Niue | | |
| Palau | | |
| Papua New Guinea | | |
| Samoa | | |
| Solomon Islands | | |
| Tokelau | | |

| | | |
|---|---|---|
| Tonga | | |
| Tuvalu | | |
| Vanuatu | | |
| Oceanic Countries, Other | | |
| TOTAL Oceania | 0 | 0 |
| NORTH AMERICA: | | |
| Anguilla | | |
| Antigua and Barbuda | | |
| Aruba | | |
| Bahamas, The | | |
| Barbados | | |
| Belize | | |
| Bermuda | | |
| Virgin Islands, British | | |
| Canada | | |
| Cayman Islands | | |
| Costa Rica | | |
| Cuba | | |
| Dominica | | |
| Dominican Republic | | |
| El Salvador | | |
| Greenland | | |
| Grenada | | |
| Guadeloupe | | |
| Guatemala | | |
| Haiti | | |
| Honduras | | |
| Jamaica | | |
| Martinique | | |
| Mexico | | |
| Montserrat | | |
| Netherlands Antilles | | |
| Nicaragua | | |
| Panama | | |
| Saint Kitts and Nevis | | |
| Saint Lucia | | |
| Saint Pierre and Miquelon | | |
| Saint Vincent and the Grenadines | | |
| Trinidad and Tobago | | |
| Turks and Caicos Islands | | |
| U.S., other territories and possessions | | |

| | | |
|--|---|---|
| Virgin Islands, U.S. | | |
| North American Countries, Other | | |
| TOTAL North America | 0 | 0 |
| OTHER: | | |
| International Organizations | | |
| TOTAL TABLE X: All Areas & Organizations | 0 | 0 |

¹ See instructions for definition of a foreign performer.

² Total of columns equals basic research in the "Foreign" category of performer for Table VI.

³ Total of columns equals the sum of basic research, applied research, advanced technology development, and major systems development in the "Foreign" category of performer in Table VI.

****Tables X.**

Note that for table X, data for FYs 2007 and 2008 are not required.

Federal Funds for Research & Development

Table XI. Obligations for R&D Plant by Performer of Research and Development: FY 2006, 2007, and 2008

** See instructions for Table XI below.

| Performer | (Dollars in Thousands) | | |
|---|------------------------|---------------------|---------------------|
| | FY 2006 | FY 2007 | FY 2008 |
| | Vol. 56 Actual | Vol. 56 Preliminary | Vol. 56 Preliminary |
| Federal Intramural ¹ | | | |
| Industrial Firms Excl. FFRDCs | | | |
| FFRDCs Admin. by Industrial Firms | | | |
| Univ. & Colleges Excl. FFRDCs | | | |
| FFRDCs Admin. by Univ. & Colleges | | | |
| Nonprofit Inst. Excl. FFRDCs | | | |
| FFRDCs Admin. by Nonprofit Inst. | | | |
| State and Local Governments | | | |
| TOTAL All Domestic Performers | 0 | 0 | 0 |
| Foreign ² | | | |
| TOTAL All Performers³ | 0 | 0 | 0 |

¹ Include 1) R&D conducted by federal agencies (intramural research), and 2) Federal costs associated with the R&D performed with Federal funds outside the Federal sector under contract, grant, or cooperative agreement (extramural research). Even if all work is performed by extramural performers, the costs associated with the planning and administration of such programs by Federal personnel must be reported.

² See instructions for definition of foreign R&D plant.

⁵ Total equals total research & development of Table II.

**Table XI provides for reporting obligations for R&D plant by the performer of research and development that the R&D plant supports regardless of the plant's ownership or location

Under Federal intramural report obligations for R&D plant that are provided to support research and development performed intramurally

Under industrial firms excluding FFRDCs report obligations for R&D plant that are provided to support research and development by industrial firms excluding FFRDCs.

Under FFRDCs administered by industrial firms report the amount obligated for R&D plant that is provided to support research and development performed by FFRDCs administered by industrial firms

Under universities & colleges excluding FFRDCs and FFRDCs administered by universities & colleges report obligations for R&D plant that are provided to support R&D performance by universities and colleges excluding FFRDCs and those that are provided to support university-administered FFRDCs.

Under nonprofit institutions excluding FFRDCs and FFRDCs administered by nonprofit institutions report the same information for nonprofit performers.

Under State and local governments report obligations for R&D plant that are provided to support research and development performed by State and local governments.

Under foreign report obligations for R&D plant located abroad that are provided to support foreign research and development

Note that the performer of research and development determines the classification of R&D plant obligations

KEY: FFRDCs = Federally funded research and development centers.

- ¹ For Puerto Rico, the Panama Canal Zone, and other U.S. Territories and possessions, select the category "Other outlying areas.". For research and development performed/administered abroad by the U.S. Government, select "Offices abroad".
- ² Total equals combined obligations for basic research, applied research, advanced technology development, and major systems development, as reported in Federal intramural in Table VI.
- ³ Total equals combined obligations for basic research, applied research, advanced technology development, and major systems development, as reported in industrial firms excluding FFRDCs in Table VI.
- ⁴ Total equals combined obligations for basic research, applied research, advanced technology development, and major systems development, as reported in FFRDCs administered by industrial firms in Table VI.
- ⁵ Total equals combined obligations for basic research, applied research, advanced technology development, and major systems development, as reported in universities and colleges excluding FFRDCs in Table VI.
- ⁶ Total equals combined obligations for basic research, applied research, advanced technology development, and major systems development, as reported in FFRDCs administered by universities and colleges in Table VI.
- ⁷ Total equals combined obligations for basic research, applied research, advanced technology development, and major systems development, as reported in nonprofit institutions excluding FFRDCs in Table VI.
- ⁸ Total equals combined obligations for basic research, applied research, advanced technology development, and major systems development, as reported in FFRDCs administered by nonprofit institutions in Table VI.
- ⁹ Total equals combined obligations for basic research, applied research, advanced technology development, and major systems development, as reported in State and local governments in Table VI.

****Tables A and B.** Data are to be provided by the Departments of Agriculture, Commerce, Defense, Energy, the Interior, Transportation, and Health and Human Services; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation.

Definitions that were provided earlier in these instructions for research and development, R&D plant, and performers apply to these tables.

Table A is to be used to report the geographic distribution of FY 2006 obligations for research and development by State or outlying area; and performer. The performer categories are provided on the table.

KEY: FFRDCs = Federally funded research and development centers.

- ¹ For Puerto Rico, the Panama Canal Zone, and other U.S. Territories and possessions, select the category "Other outlying areas.". For research and development performed/administered abroad by the U.S. Government, select "Offices abroad".
- ² Total equals combined obligations for basic research and applied research as reported in Federal intramural in Table VI.
- ³ Total equals combined obligations for basic research and applied research as reported in industrial firms excluding FFRDCs in Table VI.
- ⁴ Total equals combined obligations for basic research and applied research as reported in FFRDCs administered by industrial firms in Table VI.
- ⁵ Total equals combined obligations for basic research and applied research as reported in universities and colleges excluding FFRDCs in Table VI.
- ⁶ Total equals combined obligations for basic research and applied research as reported in FFRDCs administered by universities and colleges in Table VI.
- ⁷ Total equals combined obligations for basic research and applied research as reported in nonprofit institutions excluding FFRDCs in Table VI.
- ⁸ Total equals combined obligations for basic research and applied research as reported in FFRDCs administered by nonprofit institutions in Table VI.
- ⁹ Total equals combined obligations for basic research and applied research as reported in State and local governments in Table VI.

****Tables A1 and A2.** Data are to be provided only by the Department of Defense

Definitions that were provided earlier in these instructions for research, development, and performers apply to these tables.

Table A1 is to be used to report the geographic distribution of FY 2006 obligations for research by State and performer. The performer categories are provided on the table.

Table A2 is to be used to report the geographic distribution of FY 2006 obligations for development by State and performer

The sum of the amounts reported on tables A1 and A2 for each State by performer must equal the corresponding State by performer amount reported for R&D on table A.

KEY: FFRDCs = Federally funded research and development centers.

- ¹ For Puerto Rico, the Panama Canal Zone, and other U.S. Territories and possessions, select the category "Other outlying areas.". For research and development performed/administered abroad by the U.S. Government, select "Offices abroad".
- ² Total equals combined obligations for advanced technology development and major systems development, as reported in Federal intramural in Table VI.
- ³ Total equals combined obligations for advanced technology development and major systems development, as reported in industrial firms excluding FFRDCs in Table VI.
- ⁴ Total equals combined obligations for advanced technology development and major systems development, as reported in FFRDCs administered by industrial firms in Table VI.
- ⁵ Total equals combined obligations for advanced technology development and major systems development, as reported in universities and colleges excluding FFRDCs in Table VI.
- ⁶ Total equals combined obligations for advanced technology development and major systems development, as reported in FFRDCs administered by universities and colleges in Table VI.
- ⁷ Total equals combined obligations for advanced technology development and major systems development, as reported in nonprofit institutions excluding FFRDCs in Table VI.
- ⁸ Total equals combined obligations for advanced technology development and major systems development, as reported in FFRDCs administered by nonprofit institutions in Table VI.
- ⁹ Total equals combined obligations for advanced technology development and major systems development, as reported in State and local governments in Table VI.

****Tables A1 and A2.** Data are to be provided only by the Department of Defense

Definitions that were provided earlier in these instructions for research, development, and performers apply to these tables.

Table A1 is to be used to report the geographic distribution of FY 2006 obligations for research by State and performer. The performer categories are provided on the table.

Table A2 is to be used to report the geographic distribution of FY 2006 obligations for development by State and performer

The sum of the amounts reported on tables A1 and A2 for each State by performer must equal the corresponding State by performer amount reported for R&D on table A.

KEY: FFRDCs = Federally funded research and development centers.

¹ For Puerto Rico, the Panama Canal Zone, and other U.S. Territories and possessions, select the category "Other outlying areas.". For research and development performed/administered abroad by the U.S. Government, select "Offices abroad".

² Total equals Federal intramural, Table XI, for FY 2006.

³ Total equals industrial firms excluding FFRDCs, Table XI, for FY 2006.

⁴ Total equals FFRDCs administered by industrial firms, Table XI, for FY 2006.

⁵ Total equals universities and colleges excluding FFRDCs, Table XI, for FY 2006.

⁶ Total equals FFRDCs administered by universities and colleges, Table XI, for FY 2006.

⁷ Total equals nonprofit institutions excluding FFRDCs, Table XI, for FY 2006.

⁸ Total equals FFRDCs administered by nonprofit institutions, Table XI, for FY 2006.

⁹ Total equals State and local governments, Table XI, for FY 2006.

****Tables A and B.** Data are to be provided by the Departments of Agriculture, Commerce, Defense, Energy, the Interior, Transportation, and Health and Human Services; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation.

Definitions that were provided earlier in these instructions for research and development, R&D plant, and performers apply to these tables.

Table A is to be used to report the geographic distribution of FY 2006 obligations for research and development by State or outlying area; and performer. The performer categories are provided on the table.

Table B is to be used to report the geographic distribution of FY 2006 obligations for R&D plant by State or outlying area and performer.

R&D obligations to foreign performers or R&D plant obligations in support of foreign performers should not be reported here. See table X.

In table A the obligations for research and for development should be provided as a combined amount.

Both intramural and extramural obligations are required. The extramural obligations are to be reported in terms of prime contracts or grants.

The principal location (State, outlying area, etc.) where the work was performed by the prime contractor, grantee, or intramural organization should be used as the basis of reporting. Where this information is not available in existing records, the obligations should be assigned to the State, outlying area, etc., where the principal plant or operational center of the prime contractor, grantee, or intramural organization was located.

The amounts reported in these tables for each performer should add to the totals reported for tables VI and XI of the Federal funds survey.

Federal Funds for Research & Development

Table C. Obligations for Basic, Applied, and Total Research Performed at Universities and Colleges, by Field of Science and Engineering: FY 2006

** See instructions for Tables C, D, and E below.

| Field of Science and Engineering | (Dollars in Thousands) | | |
|--|----------------------------------|------------------------------------|---|
| | Basic Research Vol. 56 Actual | Applied Research Vol. 56 Actual | Total Research ¹ Vol. 56 Actual |
| LIFE SCIENCES: | | | Read Only |
| Biological (excl. envrmtl.) | | | 0 |
| Environmental biology | | | 0 |
| Agricultural | | | 0 |
| Medical | | | 0 |
| Life sciences, n.e.c. ² | | | 0 |
| TOTAL Life Sciences | 0 | 0 | 0 |
| PSYCHOLOGY: | | | Read Only |
| Biological aspects | | | 0 |
| Social aspects | | | 0 |
| Psychological sciences, n.e.c. ² | | | 0 |
| TOTAL Psychology | 0 | 0 | 0 |
| PHYSICAL SCIENCES: | | | |
| Astronomy | | | 0 |
| Chemistry | | | 0 |
| Physics | | | 0 |
| Physical sciences, n.e.c. ² | | | 0 |
| TOTAL Physical Sciences | 0 | 0 | 0 |
| ENVIRONMENTAL SCIENCES: | | | Read Only |
| Atmospheric | | | 0 |
| Geological | | | 0 |
| Oceanography | | | 0 |
| Environmental sciences, n.e.c. ² | | | 0 |
| TOTAL Environmental Sciences | 0 | 0 | 0 |
| MATHEMATICS & COMPUTER SCIENCES: | | | Read Only |
| Mathematics | | | 0 |
| Computer Sciences | | | 0 |
| Math & computer sciences, n.e.c. ² | | | 0 |
| TOTAL Mathematics & Computer Sciences | 0 | 0 | 0 |
| ENGINEERING: | | | Read Only |
| Aeronautical | | | 0 |
| Astronautical | | | 0 |
| Chemical | | | 0 |
| Civil | | | 0 |
| Electrical | | | 0 |
| Mechanical | | | 0 |

| | | | |
|--------------------------------------|---|---|-----------|
| Metallurgy and materials | | | 0 |
| Engineering, n.e.c. ² | | | 0 |
| TOTAL Engineering | 0 | 0 | 0 |
| SOCIAL SCIENCES: | | | Read Only |
| Anthropology | | | 0 |
| Economics | | | 0 |
| Political science | | | 0 |
| Sociology | | | 0 |
| Social sciences, n.e.c. ² | | | 0 |
| TOTAL Social Sciences | 0 | 0 | 0 |
| OTHER SCIENCES, n.e.c. ² | | | 0 |
| TOTAL All Fields³ | 0 | 0 | 0 |

¹ Basic research plus applied research equals total research.

² Not elsewhere classified.

³ Totals equal totals for basic research and applied research in universities & colleges excluding FFRDCs in table VI.

****Tables C, D, and E.** Data for these tables are to be provided by the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation.

Definitions for basic research, applied research, total research, universities and colleges, and fields of science and engineering that were provided earlier in these instructions apply to these tables also.

The total obligations reported in tables C, D, and E must equal obligations for basic research, applied research, and the combined obligations for basic and applied research reported for universities and colleges excluding FFRDCs of tables VI, VII, and VIII of the survey.

Federal Funds for Research & Development

Table D. Obligations for Basic, Applied, and Total Research Performed at Universities and Colleges, by Field of Science and Engineering: FY 2007

** See instructions for Tables C, D, and E below.

| | (Dollars in Thousands) | | |
|---|------------------------|---------------------|-----------------------------|
| | Basic Research | Applied Research | Total Research ¹ |
| | Vol. 56 Preliminary | Vol. 56 Preliminary | Vol. 56 Preliminary |
| Field of Science and Engineering | | | Read Only |
| Life Sciences | | | 0 |
| Psychology | | | 0 |
| Physical Sciences | | | 0 |
| Environmental Sciences | | | 0 |
| Mathematics & Computer Sciences | | | 0 |
| Engineering | | | 0 |
| Social Sciences | | | 0 |
| Other sciences, n.e.c. ² | | | 0 |
| TOTAL All Fields³ | 0 | 0 | 0 |

¹ Basic research plus applied research equals total research.

² Not elsewhere classified.

³ Totals equal totals for basic research and applied research in universities & colleges excluding FFRDCs in table VII.

****Tables C, D, and E.** Data for these tables are to be provided by the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation.

Definitions for basic research, applied research, total research, universities and colleges, and fields of science and engineering that were provided earlier in these instructions apply to these tables also.

The total obligations reported in tables C, D, and E must equal obligations for basic research, applied research, and the combined obligations for basic and applied research reported for universities and colleges excluding FFRDCs of tables VI, VII, and VIII of the survey.

Federal Funds for Research & Development

Table E. Obligations for Basic, Applied, and Total Research Performed at Universities and Colleges, by Field of Science and Engineering: FY 2008

** See instructions for Tables C, D, and E below.

| | (Dollars in Thousands) | | |
|---|------------------------|---------------------|-----------------------------|
| | Basic Research | Applied Research | Total Research ¹ |
| | Vol. 56 Preliminary | Vol. 56 Preliminary | Vol. 56 Preliminary |
| Field of Science and Engineering | | | Read Only |
| Life Sciences | | | 0 |
| Psychology | | | 0 |
| Physical Sciences | | | 0 |
| Environmental Sciences | | | 0 |
| Mathematics & Computer Sciences | | | 0 |
| Engineering | | | 0 |
| Social Sciences | | | 0 |
| Other sciences, n.e.c. ² | | | 0 |
| TOTAL All Fields³ | 0 | 0 | 0 |

¹ Basic research plus applied research equals total research.

² Not elsewhere classified.

³ Totals equal totals for basic research and applied research in universities & colleges excluding FFRDCs in table VIII.

****Tables C, D, and E.** Data for these tables are to be provided by the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation.

Definitions for basic research, applied research, total research, universities and colleges, and fields of science and engineering that were provided earlier in these instructions apply to these tables also.

The total obligations reported in tables C, D, and E must equal obligations for basic research, applied research, and the combined obligations for basic and applied research reported for universities and colleges excluding FFRDCs of tables VI, VII, and VIII of the survey.