DOCUMENT RESUME

ED 192 656

HE 013 123

TITLE

Federal Support to Universities, Colleges, and Selected Nonprofit Institutions, Fiscal Year 1978. A Report to the President and Congress. Final

Report.

INSTITUTION

National Science Foundation, Washington, D.C.

FEPORT NO

NSF-80-312

PUE DATE

May 80

NOTE

165p.: Surveys of Science Resources Series. Not

available in paper copy due to marginal legibility of

original document.

AVAILABLE FRCM

Superintendent of Cocuments, U.S. Government Printing

Office, Washington, DC 20402

EDRS PRICE DESCRIPTORS MF01 Plus Postage. PC Not Available from EDRS.

Agency Role: Colleges: Comparative_Analysis: *Federal

Aid: Federal Programs: *Financial Support:

*Government School Relationship: *Higher Education: National Surveys: Nonprofit Organizations: *Fublic

Agencies: Research and Development Centers:

Statistical Analysis: Tables (Data): Universities

ABSTRACT

Data are presented from a survey covering the period of October 1, 1977 through September 30, 1978. The figures given represent all chligations to institutions of higher education in the United States by 14 federal agencies. A summary analysis is given for three categories of data: those on colleges and universities in general, university-administered federally-funded research and development centers, and independent nonprofit institutions and nonprofit-administered federally funded research and development centers. Detailed statistical tables and some technical notes are appended. The federal agencies represented are the Agency for International Development: Department of Commerce: Department of Defense: Department of Transportation: Environmental Protection Agency: Department of Energy: Department of Health, Education, and Welfare: Department of Housing and Urban Development: Department of the Interior: Department of Labor, National Aeronautics and Space Administration: Nuclear Regulatory Commission: National Science Foundation: and Department of Agriculture. Dollar amounts of obligations are given for each institution and each agency funding it. (MSE)

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a report to the president and congress

federal support to universities, colleges, and selected nonprofit institutions fiscal year 1978

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final report NSF 80-312

letter of transmittal

Washington, D.C.

DEAR MR. PRESIDENT:

I have the honor to transmit to you the statistical report Federal Support to Universities, Colleges, and Selected Nonprofit Institutions, Fiscal Year 1978, as required by the National Science Foundation Act of 1950, as amended.

This year, in order to increase the utility of the data, a condensed analysis of the survey findings is included with the detailed statistical tables. This will replace the detailed analyses formerly published later in the year.

Sincerely,

Richard C. Atkinson Director National Science Foundation

The Honorable
The President of the United States

Identical letters have been sent to:

The President of the Senate
The Speaker of the House of Representatives



3

related publications

| Reports | NSF No. | Price |
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| Federal Funds for Research and Development, Fiscal Years 1978, 1979, and 1980, Volume XXVIII | 80-315 | In press |
| National Patterns of R&D Resources: Funds & Personnel in the United States, 1953-1978-79 | 78-313 | \$2.40 |
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| Federal Funds for Research and Development, Fiscal Years 1978, 1979, and 1980, Volume XXVIII | 79-318 | |
| Academic Science: Graduate Enrollment and Support, Fall 1978 | 79-316 | |
| Highlights | | |
| "Academic Employment of Scientists and Engineers Increased 4% in Doctorate Institutions in 1979" | 80-309 | |
| "Doctoral Institutions Report 6% Real Increase in R&D Expenditures in FY 1978" | 80-301 | |
| "Graduate Science Enrollment in Doctorate-Granting Institutions Leveled Off in 1978" | 79-321 | |

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(See Inside back cover for Other Science Resources Publications.)



foreword

Under the terms of the National Science Foundation Act of 1950, as amended in 1968, the Foundation is required to "... initiate and maintain a program for the determination of the total amount of money for scientific research, including money for the construction of facilities wherein such research is conducted, received by each educational institution and appropriate nonprofit organization in the United States, by grant, contract, or other arrangement from agencies of the Federal Government, and to report annually thereon to the President and Congress." To fulfill this requirement, the Foundation assumed responsibility for the survey system originally designed by the Committee on Academic Science and Engineering (CASE) of the Federal Council on Science and Technology. The present report is the thirteenth in a series presenting data on Federal support to academic institutions; data on support to selected nonprofit institutions were added in 1968.

Institutions of higher education, the major source of trained scientific personnel in the United States, perform more than one-half of the Nation's basic research and nearly one-half of the basic research sponsored by the Federal Government. The level and distribution of Federal obligations to this sector, therefore, are of interest not only to those in the executive and legislative branches of the Federal Government, but also to officials at the State and local levels and in nongovernmental sectors. Academic administrators, for example, rely on these data for information on a single institution's progress from year to year and for comparisons with other institutions. This survey system is the only source of data on Federal funding to individual institutions for all purposes, scientific and nonscientific.

We extend our appreciation to the responsible staff in the participating agencies for their continued cooperation. Without their effort such a survey would be impossible.

Richard C. Atkinson Director National Science Foundation

May 1980

acknowledgments

This report was prepared in the Division of Science Resources Studies. Charles E. Falk, Division Director. J.G. Huckenpahler of the Universities and Nonprofit Institutions Studies Group prepared the report with the assistance of Richard J. Bennof. The survey was conducted and the report prepared under the supervision of Richard M. Berry, Study Director. William L. Stewart, Head, R&D Economic Studies Section, provided special guidance and statistical assistance was provided by M. Margaret Machen.

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'Federally funded research and development centers.



general notes

This report presents data collected in the National Science Foundation's (NSF) Survey of Federal Support to Universities, Colleges, and Selected Non-profit Institutions, Fiscal Year 1978, covering the period October 1, 1977 through September 30, 1978. The reporting system is based on the program established in 1965 by the Committee on Academic Science and Engineering (CASE) of the Federal Council on Science and Technology (FCST).

The figures shown in these tables represent all obligations to institutions of higher education in the United States. The 14 Federal agencies represented accounted for an estimated 95 percent of total obligations to universities and colleges and over 99 percent of all funding for scientific and engineering (S/E) research and development at such institutions.

Some agencies not surveyed, such as the Department of Justice, may obligate significant proportions of the total receipts of some institutions, although these funds account for only a small share of all academic research and development. Agencies not surveyed funded only \$15 million to universities and colleges for research and development in 1978.

For fiscal year 1980, parts of the Department of Health, Education, and Welfare (HEW) were combined to form the new Education Department (ED). As a result, the HEW was renamed the Department of Health and Human Services (HHS). Data from these sources will continue to be reported under HEW in the FY 1979 survey but will be reported under the revised organizational titles beginning with the FY 1980 survey.

Based on data presented in National Science Foundation, Federal Funds for Research and Development, Fiscal Years 1978, 1979, and 1980. Volume XXVIII (Detailed Statistical Tables) (NSF 79-318) (Washington, D.C., 1980.)

Obligations shown for universities and colleges do not include funds obligated to federally funded research and development centers (FFRDC's) administered by academic institutions. Obligations to these organizations are presented separately, as are obligations to independent nonprofit institutions and nonprofit-administered FFRDC's (parts II and III and tables 36 through 42).

Obligations differ from expenditures in that funds allocated during one fiscal year may be spent by the recipient either partially or entirely during one or more subsequent years. Totals presented herein exclude loans to individuals, such as Federal guaranteed student loan programs sponsored by the Office of Education (OE), and Federal employee training and development activities, as well as funds allocated to State agencies, even though the final recipient of such funds is known to be an academic institution. Tuition support programs such as HEW's Basic Educational Opportunity Grants (BEOG's) are included in these figures.

Interagency transfers of funds are reported by the agency actually obligating the funds to an academic or non-profit institution, rather than by the agency where the funds originated. For example, funds transferred from the Department of Agriculture (USDA) to the Department of Commerce and then obligated to a university are reported by Commerce. In contrast, the NSF survey series entitled Federal Funds for Research and Development includes such transferred funds under the agency in which the funds originated, or USDA in the example above.

Obligations to FFRDC's administered by academic institutions represent only S/E obligations to such installations by the 14 participating agencies.

Data presented for "selected nonprofit institutions" and for nonprofit-admin-

istered federally funded research and development centers (FFRDC's) represent obligations for research, development, and R&D plant by the 14 participating agencies regardless of amount. The 305 nonprofit research institutes account for about three-fifths of all Federal R&D funding to all nonprofit institutions (of which there are an estimated 800,000 in the Nation), and for approximately nine-tenths of all Federal R&D funds obligated to research institutes.²

In the case of nonprofit-administered FFRDC's, funding by the Department of Justice, the Department of the Treasury, and the United States Arms Control and Disarmament Agency, which were not included in the survey, totaled about \$2 million.³

Unless constant dollars are specified, data shown in this report are in current dollars. When constant-dollar figures are discussed, they are adjusted to 1972 levels and are converted to a fiscal year basis using the annual gross national product (GNP) implicit price deflator prepared by the Department of Commerce.

Numbers and percents in the text or tabulations may not add to totals or subtotals because of rounding.

Requests for additional information concerning survey results should be addressed to J. G. Huckenpahler or Richard J. Bennof, Division of Science Resources Studies, National Science Foundation, Washington, D.C. 20550 (202-634-4673). Data tapes can be purchased from: Moshman Associates, Inc., 6400 Goldsboro Road, Washington, D.C. 20034, (301) 229-3000.



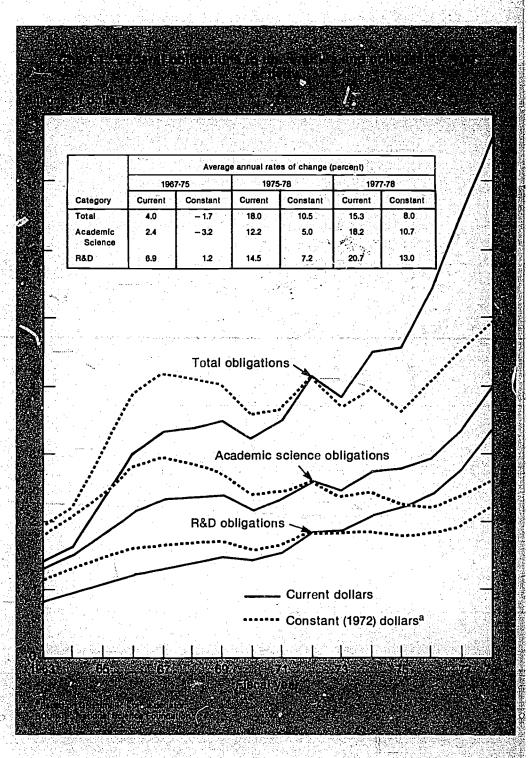
²Estimates based on figures derived from National Science Foundation. R&D Activities of Independent Nonprofit Institutions, 1973 (NSF 75-308) (Washington. D.C.: U.S. Government Printing Office, 1975.)

^{*}National Science Foundation, Federol Funds for Research and Development, op. cit.

universities and colleges

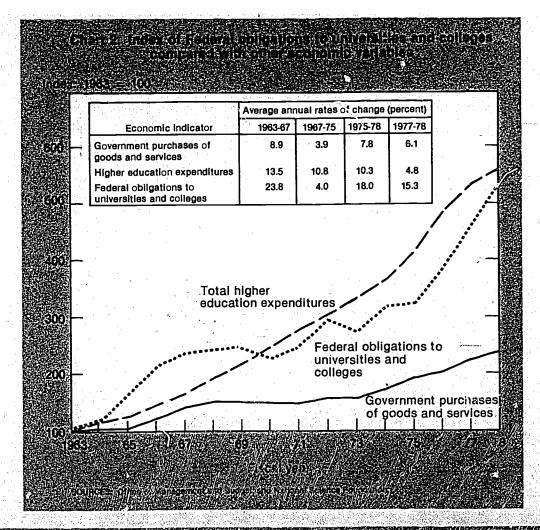
- Federal obligations to universities and colleges for all activities' reached \$7.5 billion in 1978, a rise of 15 percent over the 1977 total. When discounted for the effects of inflation, the increase was 8 percent, making this the third consecutive year of real growth. The impetus for the increase was a 21-percent jump in obligations for research and development, the third highest R&D increase in the history of the survey series (chart 1).²
- Federal support to universities and colleges grew between 1977 and 1978 by 15 percent, three times the 5-percent growth rate of all expenditures of universities and colleges, and nearly three times the rate of all Government purchases of goods and services (6 percent). Between 1967 and 1975, however, the growth rates of both Federal academic funding and total Federal purchases of goods and services (4 percent per year) were less than one-half of the rate for total expenditures of institutions of higher education (11 percent) (chart 2).
- HEW accounted for nearly threefourths of all 1978 funding and threefifths of the total increase between 1977 and 1978. The bulk of the HEW increase was traceable to the Office of Education's (OE's) Basic Educational Opportunity Grants. Each of the 14 agencies increased their support levels by at least the 7-percent inflation rate (chart 3).

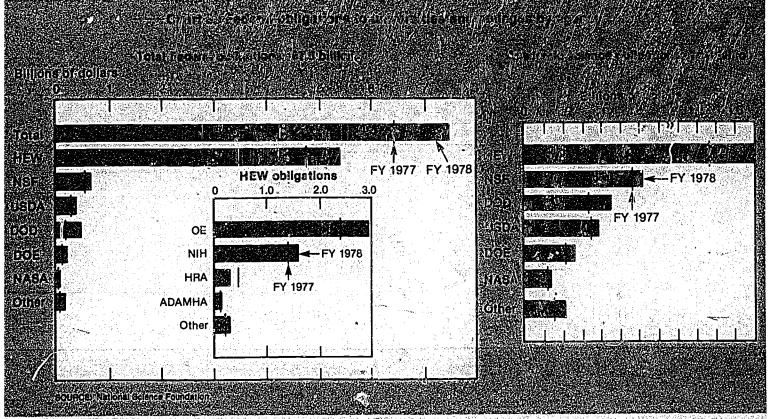
^{*}Two former university-administered FFRDC's, Johns Hopkins University's Applied Physics Laboratory (APL) (receiving \$136 million in R&D obligations in 1978) and Pennsylvania State University's Applied Research Laboratory (ARL) (\$12 million) were reclassified in 1978 as part of their parent institutions within the academic sector. Funding for APL and ARL accounted for 2 percentage points of the 15-percent increase between 1977, and 1978.





For a description of the types of science and nonscience activities involved, see technical notes, p. 16.

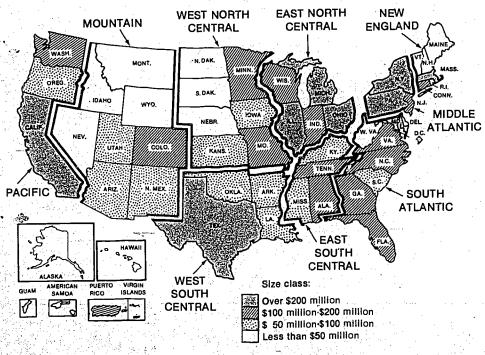




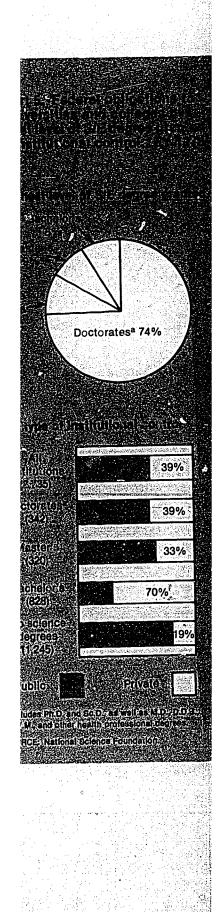
- Federal obligations to universities and colleges have historically been concentrated among a few States. Institutions in California, as in prior years, received the largest amount, reflective of the large sums funded to three institutions in the University of California system (the universities at San Diego, Los Angeles, and Berkeley), as well as to Stanford University and the University of Southern California. Institutions in the leading nine States and the District of Columbia (shown as receiving over \$200 million in chart 4) accounted for about 54 percent of all funding received by all universities and colleges in the Nation. In general, the geographic distribution of Federal obligations to academic institutions is closely correlated with the concentration of such related parameters as academically employed scientists and engineers and total science and engineering (S/E) degreen awarded.
- Universities and colleges that grant S/E doctorates or equivalent degrees (including health-professional doc-

- torates) received 74 percent of all Federal support in 1978—up from 72 percent in 1977 and 70 percent in 1976—with the remainder nearly equally divided among those groups of institutions granting master's degrees, bachelor's degrees, and those who do not offer degrees in any S/E program. The high level of concentration of support in doctorate-granting institutions reflects the predominance of R&D programs in institutions which have staff and facilities capable of achieving research objectives (chart 5).
- Although universities and colleges receiving Federal funding were almost equally divided between publicly controlled and privately controlled institutions (1,328 and 1,407, respectively), among doctorate-granting institutions those under public control outnumbered those under private control by more than 3 to 2. Consequently, publicly controlled universities and colleges received 61 percent of all Federal academic obligations (chart 6).

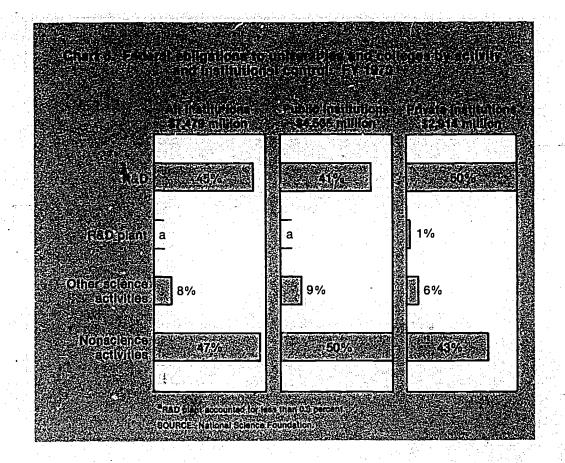
Chart 4. Federal obligations to universities and colleges by State: FY 1978

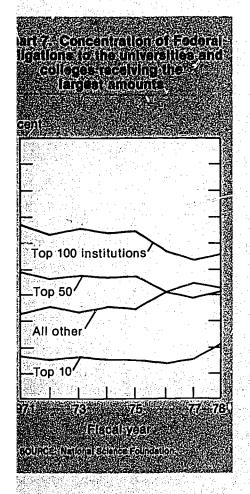


SOURCE: National Science Foundation.

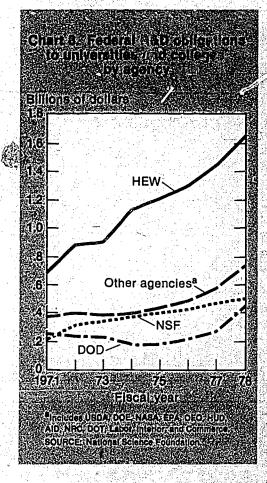




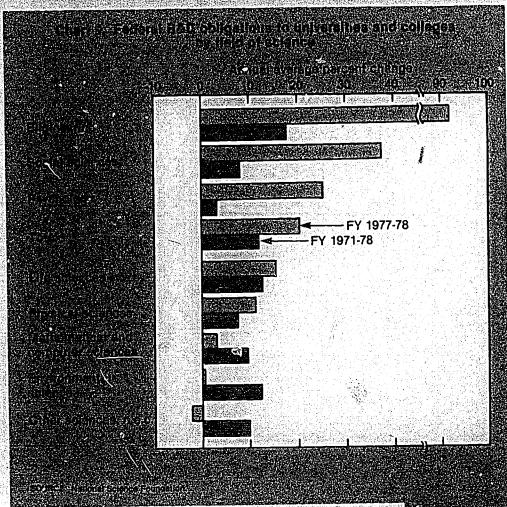




- The leading 100 institutions in 1978 received 57 percent of all Federal academic obligations. This is down from 67 percent in 1971. The decrease in the funding concentration reflects the wider distribution of nonscience support, which comprised nearly one-half of total Federal support in 1978 (chart 7).
- Federal obligations to universities and colleges for research and development increased by 21 percent between 1977 and 1978. After discounting the effects of the reclassification of two former FFRDC's (Johns Hopkins University's Applied Physics Laboratory and Pennsylvania State University's Applied Research Laboratory) as integral components of their parent institutions, Federal academic R&D support rose by 15 percent between 1977 and 1978, equal to 8 percent in constant dollars. HEW funded about one-half of all academic R&D support in 1978 and was the source of nearly one-third of the 1977-78 increase (chart 8).



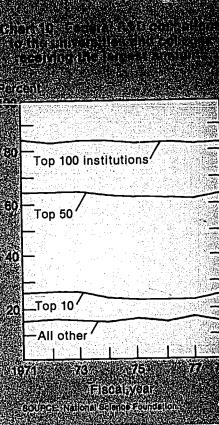
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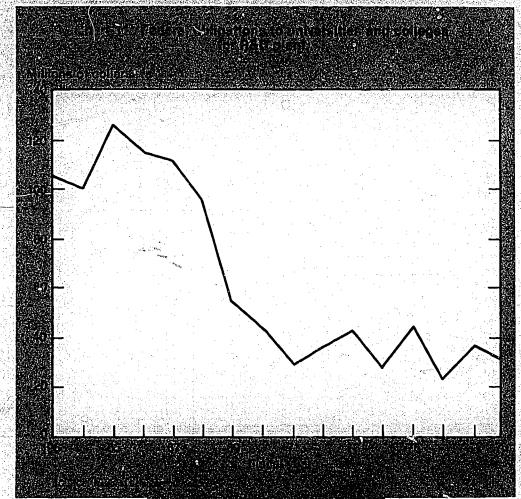
- R&D support rose within all science areas, except for the residual category "other sciences, not elsewhere classified." Funding for the social sciences increased 38 percent over the 1977 amount, while engineering support, even excluding the funding for Applied Physics Laboratory (APL) and Applied Research Laboratory (ARL), was up 34 percent (chart 9).
- In 1978 the leading 100 institutions in Federal R&D obligations, all doctorate-granting institutions, accounted for about five-sixths of all R&D obligations, the same proportion as in 1971 (chart 10).
- Federal support to universities and colleges for R&D plant declined by 6

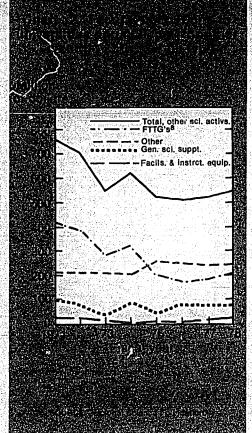
percent between 1977 and 1978 to \$34 million, remaining at only about one-fourth the amount funded in the peak year of 1965 (chart 11).

• Federal support to universities and colleges for all science activities other than research and development and R&D plant rose by 7 percent since 1977. These 1977 and 1978 increases in the levels of support mark the first time in more than a decade that funding for these activities has increased in two successive years. The level of funding, however, for these activities remained at only about three-fourths of the 1971 total, when the survey first gathered separate data on these programs (chart 12).





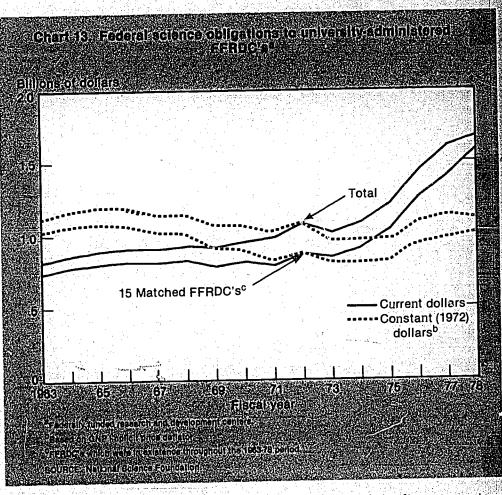




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university-administered ffrdc's

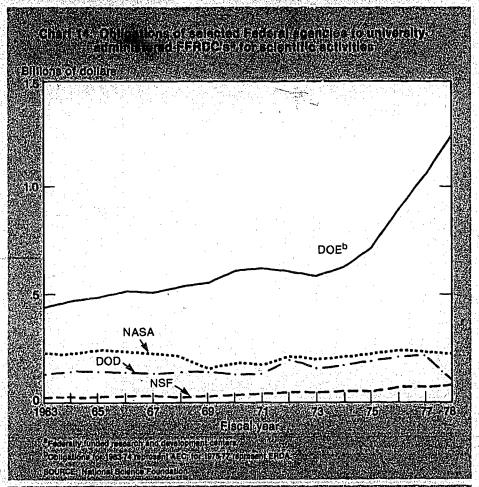
- Federal obligations for S/E activities to FFRDC's administered by universities and colleges increased by 4 percent in current dollars between 1977 and 1978. Fluctuations in the number of organizations classified as FFRDC's have characterized this subsector throughout the 15-year period covered by the survey series. Of the 40 such organizations which have existed since 1963, the 15 which have been classified as FFRDC's every year have accounted annually for 80 percent or more of the total; the shifts resulting from organizational changes (even the \$148 million in APL and ARL funding) have not resulted in significant changes in the slope of the trend line (chart 13).
 - The four agencies that sponsored academic FFRDC's in 1978 accounted for 99 percent of the funding for S/E activities, with the remainder contributed by agencies such as HEW and DOT which do not actually sponsor FFRDC's of their own. The Department of Energy (DOE) accounted for three-fourths of the total amount reported (chart 14).
 - While funding to all academic FFRDC's grew by 4 percent in currentdollars between 1977 and 1978, obligations to the leading 10 rose 13 percent.
 Of the 20 university-administered

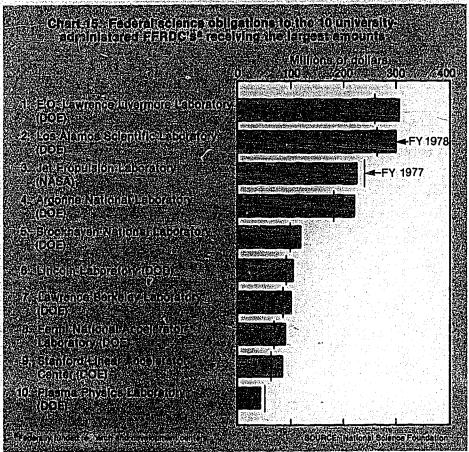


FFRDC's for which Federal science obligations were reported in 1978, the leading 5 organizations received 69 percent

of the funds and the first 10 received 94 percent, similar proportions as in recent years (chart 15).







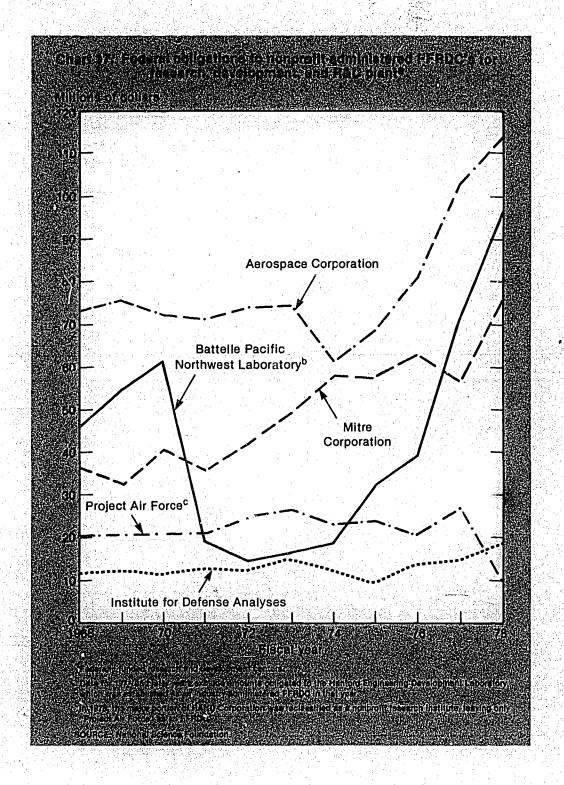


independent nonprofit institutions and nonprofit-administered ffrdc's

- The 14 surveyed Federal agencies reported obligations to 305 independent nonprofit institutions (excluding nonprofit-administered FFRDC's) for research, development, and R&D plant of \$642 million in 1978. DOD and HEW together funded about two-thirds of all Federal support to the leading 10 nonprofit institutes, similar to the funding concentration by these two agencies to all the nonprofit organizations (chart 16).
- The five FFRDC's administered by nonprofit institutions received a total of \$313 million in 1978, up 14 percent from the previous year in current terms. This is the highest amount ever reported for this subsector, even though the number of organizations so classified has declined agaificantly from the 31 for which obligations were reported in 1968 when obligations data were first collected for these organizations. Aerospace Corporation remained in first place, with 36 percent of the total, down slightly from 38 percent in 1977, while the Battelle Pacific Northwest Laboratory and MITRE Corporation continued to be ranked second and third, respectively (chart 17).

All nonprofit institutions:
\$642 million
HEW: \$267 million
DOD: \$179 million
DOD: \$179 million
DOD: \$197 million

Por a description of the selection process for nonprofit institutions, see appendix A, technical notes, p. 16.



appendixes

- a. technical notes
- b. detailed statistical tables



technical notes

scope of survey

The fiscal year 1978 data shown in this report were submitted by the following 14 Federal agencies, listed by the acronyms under which data were reported for them:

AID—Agency for International Development

COMMERCE—Department of Commerce

DOD—Department of Defense

DOT—Department of Transportation EPA—Environmental Protection

Agency

DOE—Department of Energy

HEW—Department of Health, Education, and Welfare (will be reported as Health and Human Services and as Education Department, in FY 1980 survey)

ADAMHA—Alcohol, Drug Abuse, and Mental Health Administration

CDC—Center for Disease Control

FDA—Food and Drug Administration

HRA—Health Resources Administration

HSA—Health Services Administration

NIE—National Institute of Education

NIH—National Institutes of Health OE—Office of Education

HUD—Department of Housing and Urban Development

INTERIOR—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

These 14 agencies accounted for about 95 percent of all Federal obligations to universities and colleges and over 99 percent of all Federal obligations for research and development to these institutions.

Data reported by the Agency for International Development (AID), the Department of Housing and Urban Development (HUD), the Department of Labor, and the Nuclear Regulatory Commission (NRC) were combined to constitute the "Other" category in tables showing funding by agency. As of October 1, 1977, or fiscal year 1978, the Energy Research and Development Administration (ERDA) was merged with the Federal Energy Administration (FEA) and certain branches of the Department of the Interior to form the Department of Energy (DOE); data for these components have been combined in the FY 1978 survey. As of October 1, 1979, the Office of Education (OE), the National Institute of Education (NIE), and the Office of the Assistant Secretary of Education were separated from the Department of Health, Education, and Welfare (HEW) and merged to form the new Department of Education; HEW was then renamed the Department of

Health and Human Services (HHS). These changes will not effect the data, however, until the 1980 survey. It should be noted that some agencies not surveyed, such as the Department of Justice, may account for a significant proportion of the total receipts at some institutions even though they may comprise a small proportion of total academic research and development.

Obligation figures listed for individual institutions reflect direct Federal support, so that amounts subcontracted to other institutions are included, while those received via subcontract arrangement from prime contractors are excluded.

Also excluded from the survey data are specified types of Federal financial assistance, particularly loans, such as those made by OE, agency support of Federal employee training and development activities, and financial support of an indirect nature, such as obligations designated to State agencies even though it is known that such funds are destined for an academic institution. Federal obligations to academic institutions exclude funds obligated to FFRDC's administered by universities and colleges; data for these organizations are shown separately, as are the FFRDC's administered by nonprofit institutions.

Obligations reported were rounded to the nearest thousand dollars. Obligations differ from expenditures in that funds allocated during one fisca



year may be spent by the recipient either in part or in whole during one or more later years.

Unless constant dollars are specified, data shown in this report are in current dollars. When constant-dollar figures are discussed, they are adjusted to 1972 levels and are based on the gross national product (GNP) implicit price deflator prepared by the Department of Commerce, which measures the impact of economic conditions on the dollar amounts at the time the awards are made by the granting agencies. When there is a time lag between the obligating of the funds by the agency and the actual expenditure of the money by the recipient institution, economic conditions in the interval also have an impact on the real value of goods and services.

Federal obligations to systems of institutions are presented on the basis of the individual institutions that comprise the system, but obligations awarded directly to the central administration of a system are listed separately. If the funding agency, however, does not know of the final destination of the funds, the agencies report the funds as obligations to a system's administrative office, or "central system," from which the funds are distributed to the system's individual institutions. The 14 agencies in 1978 reported obligations to 2,692 universities and colleges and 43 system offices (totaling \$221 million).

It should be noted that the funding categories reported by Federal agencies may not fully portray the category for which the dollars were actually spent by the individual institutions receiving the funds. DOD obligations, for example, were reported solely for research and development, but some of the monies were spent for R&D plant and facilities.

A pilot evaluation study undertaken by Columbia Research Associates in 1976 under a contract with the NSF revealed some recurring sources of discrepancies between data supplied by the surveyed agencies and those found in institutions' own records. Among these are differences between the date of an agency's obligations and the date the funds were received by an institution and adjustments in indirect cost reimbursement. Also, it was found that "institutions' own funds" include

Federal funds that were in fact transmitted via an intermediate source such as a State-government agency, treated as "unrestricted" in the accounts of recipient institutions, and later invested in research projects. Finally, agencies seem uncertain as to the institutional affiliation of some organizations such as branch campuses or research bureaus. As a result of an ongoing series of workshops with respondent agencies, it is hoped that NSF has assisted in reducing the number of discrepancies associated with the above problems and that the quality of agency reporting will continue to improve in future surveys.

In 1979 NSF instituted a policy of sending each doctorate-granting institution a copy of its "Institutional Profile," showing the obligations reported by each funding agency since 1971, along with the totals reported in previous years by the institution for NSF's three other surveys of institutions of nigher education, covering R&D expenditures, S/E personnel, and graduate students and postdoctorates. Institutional administrators are thereby given the opportunity to verify the accuracy of agency reporting and to resolve inconsistencies arising over time.

relationship of this survey to the survey of federal funds for research and development

The following differences exist between the data presented in this report and those presented in the annual NSF survey. Federal Funds for Research and Development referred to hereafter as the Federal Funds survey:

(1) The Federal Support survey receives data on all Federal obligations to institutions of higher education by 14 Federal agencies that are heavily involved in S/E support within academic institutions. The Federal Funds survey

is limited to gathering data on R&D and R&D plant obligations only, from all 37 Federal agencies which have such programs. Also, the Federal Funds series presents separate data on funding for basic research, applied research, and development by type of performer, without listing individual academic recipients.

(2) Certain funding categories are classified differently in the two programs. The National Institutes of Health (NIH) reports its General Research Grants Program under "general support for science" in this survey but under "research and development" in the Federal Funds survey. Also, the National Science Foundation reported that portion of institutional development funds used to support R&D activities as "general support for science" in this survey, but as "research and development" in the Federal Funds survey.

(3) In this study, "selected nonprofit institutions" are primarily independent nonprofit research institutes. Federal agencies reported funding for these organizations for research, development, and R&D plant. Although in previous years this survey generally excluded voluntary nonprofit hospitals. professional and technical societies. academies of science, private philanthropic foundations, science exhibitors, trade and agricultural associations, and other types of nonprofit organizations, the Federal Funds program includes data for all nonprofit organizations in the country. As noted below, however, coverage of the nonprofit sector is currently being expanded to include those of all types with significant R&D programs.

(4) Interagency transfers of funds that are obligated to an academic or non-profit institution are reported in the Federal Support program by the agency that actually obligates the funds to an institution. In the Federal Funds report, the initiating agency reports the obligations.

definitions

Universities and colleges include all institutions of higher education in the United States that offer at least one



year of college-level studies 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, agricultural experiment stations, etc., including bureaus, offices, and research centers (excluding FFRDC's), 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 Education Directory, Colleges and Universities: 1978-79, prepared by the National Center for Education Statistics (NCES) and from NSF's Institutional Technical Reference File. Institutions included are those which received Federal support during fiscal year 1978 and possess a significant degree of academic and administrative autonomy. Therefore, institutions within a system (groups of institutions having a collective legal status and generally recognized by a State government, a board of education, or other relevant organization), where a significant degree of autonomy remains at the individual institution level, are presented separately, while 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 U.S. Department of Agriculture Graduate School.

Independent nonprofit institutions included in this report total 305 plus 5 FFRDC's administered by nonprofit organizations. They are defined as legal entities other than universities and colleges which are privately organized or chartered to serve the public interest and are exempt from most forms of Federal taxation. Before the data collection phase of the 1978 survey, the agencies received a list of nonprofit institutions believed to have received a minimum of \$100,000 in Federal obligations for research and development during fiscal year 1978. So that the sample could be as complete as possible, the survey included some institutions receiving less than \$100,000 of funding. Also, some of the agencies reported their obligations to other institutions not on the original list, where these obligations exceeded the \$100,000

minimum. Since the survey produced data on these smaller institutions, they are included in these tables. In general, as noted earlier, nonprofit organizations other than research institutes and FFRDC's are excluded except where the size of their R&D programs is comparable to that of research institutions. In view of the fact that no survey of R&D activities of independent nonprofit institutions has been conducted by NSF since 1973, however, coverage of nonprofit institutions in the Federal Support survey is in the process of being significantly expanded. It is anticipated that by fiscal year 1979 the coverage of nonprofit institutions will be roughly equivalent to that of the 1973 Survey of R&D Activities of Independent Nonprofit Institutions.

FFRDC's in this report are organizational units administered by universities and colleges or other nonprofit institutions. These units have been established, in general, to achieve a particular R&D objective of a Federal agency. Uniform identification and classification criteria have been developed for use by all sponsoring agencies. To be classified as an FFRDC, an organization should:

- (a) Perform primarily at least one of the following: Basic research, applied research, development, or management of research and development. Specifically excluded are organizations engaged primarily in routine quality control and testing, routine service activities, production mapping surveys, and information dissemination;
- (b) Be organized as a separate operational entity within the parent organization or as a separately incorporated organization;
- (c) Perform actual research and development or R&D management either on direct request of the Government or under a broad charter from the Government but in either case under the direct monitorship of the Government;
- (d) Receive its major financial support—70 percent or more—from the Federal Government, usually from one agency;
 - (e) Have, or be expected to have, a

long-term relationship—about 5 years or more—with its sponsoring agency as evidenced by the specific obligations it and the agency assume;

(f) Be established in the contract so that most of all of the facilities are owned or funded by the Government; and

(g) Have an average annual budget, including operating and capital equipment, of at least \$500,000.

This study includes 20 FFRDC's administered by universities and colleges and 5 by nonprofit institutions. Of the academic-administered FFRDC's, 11 were managed by individual institutions, 8 by consortia of universities, and 1, Argonne National Laboratory, was jointly managed by the University of Chicago and the Argonne Universities Association. Prior to fiscal year 1978, the Applied Physics Laboratory (APL) and the Applied Research Laboratory (ARL) were categorized as FFRDC's. Beginning with this study, APL and ARL were reclassified into the academic sector.

Academic science includes all obligations for the following activities: Research and development; R&D plant; facilities and equipment for instruction in the sciences and engineering; 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 research and development 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 matter. Research can be basic or applied in nature, 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 subject under study. In applied research, the investigation is aimed at discovering practical uses of the knowledge gained to meet a recognized need. "Development" is

¹National Science Foundation, R&D Activities of Independent Nonprofit Institutions, 1973 (NSF 75-308) [Washington, D.C.: U.S. Government Printing Office, 1975.]

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 exclude topographical mapping and surveys, collection of general-purpose statistics, and activities concerned primarily with the dissemination of scientific information. Research and development in the arts and humanities are excluded from this category but are included in "nonscience activities."

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 research and development. A facility is interpreted generally to be any physical resource important to the conduct of research and development.

Facilities and equipment for instruction in the sciences and engineering includes all programs 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 instruction in science and engineering.

Fellowships, traineeships, and training grants include graduate programs in support of the development and maintenance of scientific and technical 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 educational institutes, seminars, and conferences such as teacher training activities provided through teacher institutes, short courses, research participation, and inservice seminars; activities aimed at the development of educational techniques and materials for use in S/E training; and programs which provide special opportunities for increasing the scientific knowledge and experience of precollege and undergraduate students. These activities are included in "other science activities," or if not science-oriented, in "nonscience activities."

General support for science and engineering includes programs which 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 supportranging from support provided without any specification of purpose other than that the funds be used for scientific projects, to projects that provide funds for activities within a specified field of science without a specific purpose. NIH's Biomedical Sciences Support Grants and General Research Support Grants and NSF's Institutional Grants for Science are examples of these types of programs.

Other S/E activities include all academic science 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.

Nonscience activities include all other obligations excluded from the six science categories defined above but which represent direct funding (excluding loans) from a Federal agency to an academic institution for activities or purposes not specifically related to science and engineering. Included are all obligations for research, education, and facilities in the arts and humanities, as well as generalized projects for which the proportion utilized for scientific or engineering activities is unknown.

fields of science

Physical sciences are concerned with the understanding of the material universe and its phenomena. They comprise the fields of astronomy, chemistry, physics, and physical sciences not elsewhere classified. Examples of disciplines under each of these fields are

Astronomy: laboratory astrophysics; optical astronomy; radio astronomy; theoretical astrophysics; X-ray, Gamma-ray, neutrino astronomy. Chemistry: inorganic; organo-metallic; organic; physical.

Physics: acoustics; atomic and molec-

ular; condensed matter; elementary particles; nuclear structure; optics; plasma.

Physical sciences, n.e.c.*

Mathematical and computer sciences employ logical reasoning with the aid of symbols and are concerned with the development of methods of operations employing such symbols. They comprise the following subcategories:

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

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

Mathematical and computer sciences, n.e.c.*

Environmental sciences: (terrestrial and extraterrestrial) are concerned with the gross nonbiological properties of the areas of the solar system that directly or indirectly affect man's survival and welfare; they comprise the fields of atmospheric sciences, geological sciences, oceanography, and environmental sciences not elsewhere classified. Examples of disciplines under each of these fields are

Atmospheric sciences: aeronomy; solar; weather modification; extraterrestrial atmospheres; meteorology. Geological sciences: engineering geophysics; general geology; geodesy and gravity; geomagnetism; hydrology; inorganic geochemistry, isotopic geochemistry; organic geochemistry; laboratory geophysics; paleomagnetism; paleontology; physical geography and cartography; seismology; soil sciences.

Oceanography: biological oceanography; chemical oceanography; geological oceanography; physical oceanography; marine geophysics. Environmental sciences, n.e.c.*

Engineering is concerned with studies directed toward developing engineering principles or toward making spe-



^{*}Not elsewhere classified. To be used for multidisciplinary projects within the primary field and for single discipline projects for which a separate discipline code has not been assigned.

cific scientific principles usable in engineering practice. Engineering is divided into eight fields: aeronautical, astronautical, chemical, civil, electrical, mechanical metallurgy and materials, and engineering not elsewhere classified. Examples of disciplines under each of these fields are

Aeronautical: aerodynamics.

Astronautical: aerospace; space technology.

Chemical: petroleum; petroleum refining; process.

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

Electrical: communication; electronic; power.

Mechanical: engineering mechanics.

Metallurgy and materials: ceramic; mining; textile; welding.

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

Life sciences consist of five detailed fields: biological (excluding environmental), environmental biology, agricultural, medical, and life sciences not elsewhere classified. The illustrative disciplines provided below under each of these detailed fields are intended to be guidelines, not sharp definitions, as to what should be reported under a particular field; they represent examples of disciplines generally classified under each detailed field. A discipline, however, may be classified under another detailed field when the major emphasis is elsewhere. Research in biochemistry could be reported as biological, agricultural, or medical, depending on the orientation of the project; human biochemistry should be classified under biological, but animal biochemistry or plant biochemistry should be under agricultural.

The detailed fields within the life sciences were modified slightly in the 1978 survey; because not all agencies were able to make the conversion to the new taxonomy on such short notice, only three subfields are shown in this report, as follows:

Biological sciences: anatomy: biochemistry; biology, biometry and biostatistics; biophysics; botany; cell biology; entomology and parasitology; genetics; microbiology; neuroscience (biological); nutrition; physiology; zoology; ecosystem sciences; evolutionary biology; limnology; physiological ecology; population biology; population and biotic community ecology; systematics; agronomy; animal sciences; food science and technology; fish and wildlife; forestry; horticulture; plant sciences; soils and soil science; phytopathology; phytoproduction; agriculture, general; other biological n.e.c.*

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

Life sciences, n.e.c.*

Psychology deals with behavior, mental processes, and individual and group characteristics and abilities. Psychology is divided into three categories: biological aspects, social aspects, and psychological sciences, not elsewhere classified. Examples of the disciplines under each of these fields are

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

Social aspects: social psychology; educational, personnel, vocational

psychology and testing; industrial and engineering psychology; development and personality.

Psychological sciences, n.e.c.*

Social sciences are directed toward an understanding of the behavior of social institutions and groups and of individuals as members of a group. Social sciences include anthropology, economics, history, linguistics, political science, sociology, and social sciences not elsewhere classified. Examples of disciplines under the fields of social science are

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

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

History: history and philosophy of science.

Linguistics: anthropological-archeological; computational; psycholinguistics; sociolinguistics.

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

Sociology: comparative and historical; complex organizations; culture and social structure; demography; group interactions; social problems and social welfare; sociological theory. Social sciences, n.e.c.*: research in law and education not elsewhere classified; socioeconomic geography.

Other sciences, n.e.c.* to be used for multidisciplinary and interdisciplinary projects that cannot be classified within one of the above broad fields of science.



appendix b

statistical tables

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TABLE 8-1. (SOERAL OBLIGATIONS TO UNIVERSITIES AND COLLEGES. BY TYPE OF ACTIVITY: FY 1963 - 78

(OOLLARS IN THOUSANDS)

| | | | #1 | | | | | | |
|-------------|---------------------------|---|---|---------------|-------------|---|----------------|--------------------------------|-----------|
| F1SCAL YEAR | TOTAL OBLIGA- TIONS | TOTAL ACAOEMIC SCIENCE | RESEARCM AND DEVELOP- MENT | R&D PLANT | | FELLON- SMIPS. TRAINEE- SHIPS. & TRAINING | FOR SCIENCE | OTHER SCIENCE ACTIVITIES | |
| 1963 | 1,413,015 | 1,328,511 | 829,524 | 105:896 | 1/ | - s | 1/ | 393,091 | 84,504 |
| 1964 | i . | ' | 975,597 | 100,837 | 1/ | 1/ | 1/ | 452,170 | 96,359 |
| 1965 | ! | , 1 | 1,094,963 | 126,196 | 1/ | 1/ | 1/ | 595,012 | 489,284 |
| 1966 | 1 | 1 1 | | ı | 1/ | 365,550 | 1/ | 431,031 | 846,446 |
| 1967 | · · | 1 1 | | l '' | 1/ | 447,236 | . 1/ | 464,008 | 993,914 |
| 1968 |) 3,386.637 | 2,349,817 | 1,398,305 | 96,148 | . 1/ | 440.895 | 1/ | 414,469 | 1.036.820 |
| 1969 | 3,462,370 | 2,361,399 | 1,474,681 | 54,516 | 1/ | 436,270 | 1/ | 395,932 | 1,100,971 |
| 1970 | 1 | , | | I | 1/ | 429,408 | 1/ | 266,775 | 1,049,033 |
| 1971 | 3,498,596 | 2,343,129 | 1,551,391 | 29,942 | 28,729 | 421,029 | 99,669 | 212,369 | 1.155.467 |
| 1972 | 1 . | 1 | ٠, | | 26,341 | 387,888 | 93,288 | 211,592 | 1,545,581 |
| 1973 | 3.838.919 | 1 2.464.179 | 1,870,507 | 43,338 | i 13,372 | 287,210 | 38,904 | 210,788 | 1,374,740 |
| 1974 | 1 . | 1 | 1 | i | 3,506 | 326,600 | 96,974 | 205,691 | 1,743,388 |
| 1975 | 1 | | ļ | 1. | 12,370 | 201,273 | 46,353 | 262,256 | 1,741,408 |
| 1976 | 1 | 1 | | 1 | 11,108 | 174,871 | 74,483 | 252,223 | 7-443,108 |
| 1977 | 1 | 1 | 1 | 1. | 17,782 | 184,671 | 75,928 | 247,966 | 3,138,398 |
| 1978 | | \ \ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ | | } | 26,664 | 205,865 | 74,102 | 254,505 | 3,521,539 |

^{1/} NOT SEPARATELY IDENTIFIED BUT INCLUDED UNDER MOTHER SCIENCE ACTIVITIESM.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 3-2. FEDERAL OBLIGATIONS TO UNIVERSITIES AND COLLEGES, BY TYPE OF ACTIVITY AND AGENCY: FY 1963 - 78

(DOLLARS IN HILL IONS)

| | | | | , | | | | | | | | | | | | |
|--|----------------------------------|-----------------------------|-------------------------|--|-----------------------|--|--------------------------|---|---------------------------------------|-----------------------------------|--|---------------------------|---|---|---------------------|--------------------------------------|
| ACTIVITY & YEAR | TOTAL | USDA | COM | 000 | 0 | ODE 1/ | EPA | нен | ниФ | INT | AID | LABOR | NA SA | NSF | NRC | DOT |
| TOTAL OBLIGA- | | | | | | | | | | | | | | | | |
| 1963 1964 1965 1966 1967 | 1.625.01 2.305.51 3.010.01 | 115.0 135.6 141.0 | 1.7 2.6 2.8 | 218.0 258,1 267.9 278.0 | i n/a I n/a | 79.9 84.4 96.9 | - | 780.0 1,345.6 1,952.2 | - i | 5.3 9.7 22.4 | N/A N/A N/A | N/A | 107.6 134.3 142.2 | 325.2 | - - - | : |
| 1968 1969 1970 1971 1972 | 3.462.4 3.236.6 3.498.6 | 155.9 182.1 214.6 | 3.9 4.9 9.7 | 243.1 278.7 265.5 249.0 243.9 | 60.4 35.6 37.5 | 119.7 121.0 114.5 105.8 95.3 | 27.2 | 2.222.2 2.302.4 2.060.9 2.274.6 2.842.0 | 1.1 | 28.21 24.31 27.71 22.61 | N/A 10.0 10.9 19.1 | 6.6 10.4 5.2 | 129.8 127.2 131.2 134.1 119.0 | 422.8 367.0 387.4 387.7 | - - - | 3.8 N/A 10.1 10.8 15.9 |
| 1973 1974 1975 1976 1977 | 4,480.21 4,547.11 5.402.5 | 260.71 290.71 328.61 | 29.5 26.4 39.1 | 232.8 184.4 190.5 211.9 267.3 | 10.0 | 96.0 99.3 124.2 143.8 211.6 | 30.91 38.81 33.01 | 2.576.3 3.250.4 3.207.9 3.964.3 4.813.6 | 2.91 2.31 1.41 | 23.81 28.81 28.21 | 19.9 12.4 13.5 | 7.2 5.5 4.5 | 111.4 18.9 108.0 118.9 | 449.6 | - -1 3.3 | 12.8 20.8 15.7 |
| 1978 | 7,479.2 | 394.8 | 35.9 | 452.2 | | 269.5 | i | -5+4-11.8 | - 1 | t | 1 | | 130.2 | ' [| ı l | • |
| SCIENCE 1963 1964 1965 1966 1967 | 1,528.6 1,816.2 2,163.5 | 115.0 135.6 141.0 | 1.71 2.61 2.81 | 218.01 258.11 267.91 278.01 264.11 | N/A N/A N/A | 79.91 84.4 | - i | 683.8 | - | 5.1 9.6 19.1 | N/A | N/A N/A N/A | 87.4 107.6 134.3 142.2 | 277.5 325.2 374.5 | - ! - ! 0 ! | |
| 1968 1969 1970 1971 1972 | 2,361.41 | 155.91 | 2.21 3.91 | 243.1 278.7 265.5 249.0 243.9 | 9.3 18.9 16.4 | 119.7 121.0 114.5 105.8 95.3 | 01 01 27.2 | 1,229.4 1,261.8 1,036.7 1,142.3 1,318.4 | 1.7 1.1 .5 .7 | 24.3 27.7 22.6 | 3.9 5.5 19.1 | 9.11 3.51 5.21 | 129.8 127.2 131.2 134.1 119.0 | 387.4 (387.7 (| 01 -1 | N/A 10.1 |
| 1973 1974 1975 1976 1977 | 2,736.81 2,805.71 2,959.41 | 260.71 290.71 328.61 | 29.41 25.81 38.21 | 232.8 184.4 190.5 211.9 267.3 | 4.1 | 96.0 99.3 124.2 143.8 207.9 | 30.91 38.81 33.01 | 1,225.0 1,515.4 1,467.3 1,522.2 1,683.1 | .91 .61 2.31 1.41 4.3 | 23.81 28.81 28.21 | 19.9 12.4 13.5 | 7.1 5.5 4.5 | 111.4 98.9 108.0 118.9 | 449.61 490.51 496.31 | ** 3.2 | 15.9 12.8 20.8 15.7 10.9 |
| 1978 | 3,957.6 | 391.7 | 35.9 | 452.2 | - | 267.0 | 54.7 | 1,899.2 | 10.5 | 42.5 | 28.1 | 12.6 | 130.2 | 607.1 | 8.4 | 17.3 |
| 1963 1964 1965 1966 1967 | 1,252.11 | 47.5 59.1 62.9 | 1.11 2.11 2.11 | 218.0 258.1 267.9 278.0 264.1 | N/A N/A N/A | | -j | 332.9 399.2 441.9 507.3 577.0 | | 3.8 5.0 9.5 18.7 23.9 | N/A N/A N/A | N/A I | 78.2 | 104.6 115.8 139.2 192.5 170.2 | - - - - | - : |
| 1968 1969 1970 1971 1972 | 1,474.71 | 63.61 67.41 74.81 | 1.71 3.21 6.91 | 243.1 278.7 265.5 249.0 243.9 | 9.31 18.91 | | - - 17.0 17.7 | 619.11 667.11 614.91 695.71 879.31 | 1.01 1.01 .51 .71 | 23.5 27.1 21.3 | N/A 3.9 5.5 17.1 13.5 | 9.11 3.51 3.31 | 126.1 122.3 127.4 128.5 112.4 | 191.5 201.2 216.9 | -1 | 3.7 N/A 10.1 8.0 12.4 |
| 1973 1974 1975 1976 1977 | 2.085.01 2.238.61 2.422.81 | 96.71 110.51 124.21 | 26.61 22.21 29.01 | 232.8 184.4 190.5 211.9 267.3 | 3.4 | 85.0 94.4 119.1 137.8 186.9 | 33.81 | 903.8 1.129.0 1.205.2 1.296.2 1.448.7 | .9 -6 2.3 1.4 4.3 | 22.21 27.21 25.71 | 8.4 18.4 8.3 10.7 20.2 | 5.6! 4.0! 3.0! | 102.6 92.0 100.2 106.8 113.7 | 376.1[397.3[428.7[| 0) 3.21 3.8 | 15.2 11.5 18.1 14.9 9.6 |
| 1978 | 3.362.2 | 175.3 | 35.0 | 452.2 | | 250.9 | 51.1 | 1.656.4 | 10.5 | 34.3 | 24.9 | 12.6 | 124.5 | 509.7 | 8.4 | 16.2 |

SEE FOOTNOTES AT END OF TABLE.

TABLE B-2. FEDERAL OBLIGATIONS TO UNIVERSITIES AND COLLEGES. BY TYPE OF ACTIVITY AND AGENCY: CONTINUED FY 1963 - 78

(DOLLARS IN MILLIONS)

| ACTIVITY & YEAR | TOTAL | USDA I | 1 COM 1 | 000 | DED | DDE 1/ | EPA I | нен | HUD | - 1NT - | I I AID | LABOR | NA SA | NSF | NRC | 00T |
|--|-------------------------------|---------------------------------|--------------------------|----------------------|------------------------|--|---------------------------------------|---|---------------------|-------------------------|------------------------|--------------------------------|--------------------------------------|--|-------------------|------------------------------------|
| RED PLANT | | | | | | | 1 | | | 1 1 |]] | ! | ! | | | _ |
| 1963 1964 1965 1966 | 100.81 126.2 114.8 | 3.2 2.0 | 0 0 0 | 0 | N/A N/A N/A | 2,6 4.0 3.8 7.4 | - - | 39.9 54.8 48.5 | - | j 0 j 00 j 20 | N/A N/A N/A | N/A N/A N/A N/A | 7.4 | 1 47.8 1 56.0 1 49.3 | | - - - |
| 1967 1968 1969 1970 | 96.1 54.5 44.8 | 1.9 1.2 1.1 | .2 0 00 | 0 0 |] 0 0 0 | 11.9 11.4 7.1 4.8 | - | 36.9 20.5 20.0 |]] 0] 0 |) |] N/A] 0 | j 0 | i 0 i 0 | 21.4 1 16.5 1 9.7 | | 0 |
| 1972 1973 1974 1975 | 36.9 43.3 29.0 44.8 |] 0] 0] 0 | .3 | 0 0 | i 0 1 0 | j 5.6 4.2 4.2 |] 0 0 | 26.7 14.5 22.9 | | | | |] 3.0 1 .1 1 .1 | i 7.4 i 7.4 i 10.2 i 17.6 | | 0 0 0 |
| 1976 1977 1978 |] 36.5 | j 0 1 | 0 | i o I | i - | | 1 º | j 11.1 9.9 | i | T | i | i |) | 1 7.3 | i | 1 ** |
| FACILITIES FOR INSTRUCTION | | | <u> </u> | | | | 1 1 1 | i i | | | | | | 12.1 | | -1 0 |
| 1971 2/ 1972 | | | | | ij d |) 2.3) 1.9 | 1 0 | i 20.9 | (j) 1 | 1 | 1 | j (| i d | 3.0 3.0 1 |) . | -j ō - - 0 |
| 1973 1974 1975 1976 1977 | 3.5 12.4 11.1 | 1 0 | j 0] .] | | | • 1 0 | | | | 01 ** 01 01 | i 01 01 | 01 (01 (| | 3.1 01 7.4 01 10.1 | 1 1 3 | -! 0 0) 0 0) 0 |
| 1978 | 1 | j | 1 | | | - 1.3 |] | | | 0 00 | | ١ | oi (| 25. | 3 [| oj 0 |
| FELLOWSHIPS, TRAINEE- SHIPS, G TRNG GRNTS | i ! ! | i | |] | | | | | | | | | 1 | 01 47. | | |
| 1966 <u>2</u> / | | | | • | - N/A - N/A | | 7 | 289. 01 379. | 2 | - <u>į</u> | 0 |] N/A | 1 15. | | 4 [| 0 |
| 1968 1969 1970 1971 1972 | 436.; 429.6 421.6 | 31 · 41 · | •j (| | -1 -1 01 | 01 3.0 01 5.0 01 5.0 01 2.0 | 5 0 5 10 • | | 71 61 41 | -1 -1 -1 01 ** | 0 | -i -i oi . | 0 1. 0 2. 6 1. 0 1. | 3 53. 1 52. 0 42. | 8 7 3 | 01 N/A 01 0 -1 2.8 -1 3.5 |
| 1973 1974 1975 | 287. 326. 201. | 2 6 3 9 | 01 00 | i i oi | oj . Ol | -] : | 3 9. 5 6. 7 5. 1 . 3. | 8] 301. 0] 181. 6] 155. | 5 7 6 | 01 01 01 01 | 0 0 0 0 | 0 i 0 i 0 i | 0 1. 0 1. | 31 16 21 14 31 9 31 13 13 14 14 14 14 14 14 14 14 14 14 14 14 14 | 41 71 41 00 | -1 .7 -1 1.3 01 2.7 1 .8 |
| 1977 1978 | 1 | ı | Ĭ | ij | | ı | 7 3. | i . | 1 | 0 3 | . 2 | .6 | 0 1, | 3 11 | .7 00 | .6 |
| GENERAL SUPPORT | F | | | | | | : | | | İ | | | 1 | 01 56 | 91 | - 0 |
| 1971 2/. 1972 | | | 0 1: | | 0 | Ť | o i | 0 40, | .7 | oj 1 | i . | .2 | .2! 0! .9! | 01 34 | .7 | - 0 |
| 1973 1974 1975 1976 | . 87. . 46. . 74. | 01 41 51 | 0 0 1. 0 4. | 01 51 81 41 | 01 01 01 01 | -j | 0 0 0 0 5 | 01 20 01 64 01 37 01 41 01 42 | 2 j .3 j .8 j | 0 1 0 1 0 2 | .6 1 .6 4 | .51 1 | .41 .51 .51 | 0 17 0 0 21 | .81 01 .61 | -1 0 01 0 01 0 |
| 1977 1978 | I | i | 0 <u> </u> 0 <u> </u> | 0 | | i | 3 | 0 44 | .7. | 0 5 | . 0 | ol | ol | 0 23 | .e | oj .3 |

SEE FOOTNOTES AT END OF TABLE.

TABLE B-2. FEDERAL OBLIGATIONS TO UNIVERSITIES AND COLLEGES, BY TYPE OF ACTIVITY AND AGENCY: CONTINUED FY 1963 - 78

(DOLLARS IN MILLIONS)

| ACTIVITY & YEAR | TOTAL | USOA | COM | 000 | 0E0 | DOE 1/ |]]] EPA] |] HEW | I I HUD |] 1n7 | AID | I I Labor | I NASA | I I NSF | I NRC | i DOT |
|------------------------------|-----------------|-----------------|---|------|------|----------------------|----------------------|-----------------------|------------|---------------------|------------|-----------------|------------|----------------|------------|------------|
| OTHER SCIENCE | | | | | |] | i | | | | | | | | | |
| ACTIVITIES | | !!! | | | ļ | ! | ! | ! | į | ļ. | ļ | į | Į | ľ | İ | İ |
| 1963 | 393.1 | 63.4 | .3 | o | N/A | 5.3 | l - | J J 208.9 | - | | N/A | I N/A | | 101.1 | [_ | |
| 1964 | | | .6 | | | 5.4 | | 244.6 | | | I N/A | I N/A | | 113.9 | | ; - |
| 1965 | | | | | | 5.9 | | 359.8 | | |] N/A | | 25.4 | 130.1 | | i - |
| 1966 1967 | | | | | | 3.1 | | | | | | N/A | | | | ! - |
| | 10410 | i '' '' i | • | | 177 | 2.3 | ¦ - | l 256.7 | - |) oo | N/A | N/A | 2.4 | 122.8 | ! - | ļ. • |
| 1968 | 414.5 | | | | 0 | 2.5 | i - | 186.4 | j .7 | j .4 | N/A | i o | 2.8 | 140.5 | i - | |
| 1969 1970 | 395.9 | 91.1 | | | 0 | | | | | | | | | 100.2 | | Î N/A |
| 1971 | | 139.5 | | | 0 | | | | | | | | | | | ! 0 |
| 1972 | | 149.5 | | | | | | | | | | | | | | 0 1 |
| 1072 | ! | ! | ! | | | | 1 | i | i | i | i | i | i '''i | | i | i |
| 1973 1974 | | 163.0 164.0 | | | | | | | | | | | | | | . 0 |
| 1975 | | 180.2 | | | | | | | | | | | | | | . 0 |
| 1976 | 252.21 | 204.4 | 3.6 | | | . 3 | | | | | | | | | | 1 0 |
| 1977 | 248.0 | 201.0 | .3 | οį | - | .3 | | | | | | | | | | |
| 1978 | 254.5 | 216.4 | .9 | ٥į | - | .3 | 0 | 4.1 | 0 | . 0 | 2.6 | 0 | 4.4 | 25.6 | . 0 |]] .2 |
| NONSCIENCE I ACTIVITIES I | | | | į | | | | • | | | | | | | i | |
| 1963 | 84.5 | | 0 | 0 | | 0 | | 84.3 | | | I N/A | N/A | l 0 | 0 | - | · - |
| 1964 1965 | 96.41 489.31 | | 01 | 01 | | 0 0 | | | | | | N/A | 01 | | | ļ - |
| 1966 | 846.41 | | 01 | | | | | | | | | N/A N/A | | | | : |
| 1967 | 993.9 | oo j | 3.5 | ŏį | | i ői | | 986.8 | | | | N/A | | | | - |
| 1968 | 1-034 0 | 1 10 | 1.8 | اه | 42.2 | | | | | | | _ | | | l | |
| 1969 | | | | 0¢] | 51.1 | | | 992.8 1.040.6 | | 0 0 | | 0 1 . 3 | | | | .1 N/A |
| 1970! | 1.049.01 | ōÌ | | | 16.7 | | | 1,024.2 | | 0 | | | | | | N/A |
| 1971 | 1,155.5 | 01 | | 0 [| | | 0 | 1,132.3 | ļ ọi | 00 | 0 | o i | i õi | ŏ | | iŏ |
| 1972 | 1,545.61 | 10 | D! | 0 ! | 21.7 | 0 | 0 | 1,523.5 | o i | .1 | Di | .2 | 0 | 0 | <u>-</u> ! | 0 |
| 1973 | 1,374.7 | oi | .11 | o i | 21.3 | 00 | 0 | 1.351.2 | 0 | .1 | | 2.0 | 01 | 0 | | |
| 1974 | 1,743.4 | ōj | .11 | οi | 5.9 | οj | 0. | 1,735.0 | 2.2 | 0 | OÌ | | | | | |
| 1975 1976 | | 01 | .71 | | -! | - • | | 1,740.6 | | | - • | 01 | oi | Ō | .1 | ŏ |
| 1976 | | 01 3.51 | .91 | 10 | -! | 0! 3.7l | | 2,442.1 3,130.5 | | | | | | 0 | | 0 |
| ļ | - 1 | 1 | į | i | į | | į | | j | i j | . i | ĭ | ĭ | 0 | .21 | .5 |
| 1978 | 3,521.51 | 3.21 | 0] | 이 | - | 2.5 | 1.1 | 3,512.6 | 0 ! | 1.5 | ٥į | 0 | 0 | 0 | • 4] | • 2 |
| | | 1 | | _~4 | _~ | ~ | | | 1 | 1 | | | . 1 | | | |

^{**} INDICATES AMOUNT LESS THAN \$50,000.



^{1/} DATA SHOWN FOR FISCAL YEARS 1963 - 76 AND FISCAL YEARS 1975 - 77 REPRESENT OBLIGATIONS OF ATOMIC ENERGY COMMISSION AND ENERGY RESEARCH & DEVELOPMENT ADMINISTRATION, RESPECTIVELY.

^{2/} DATA PREVIOUS TO THIS YEAR ARE NOT SEPARATELY IDENTIFIED BUT ARE INCLUDED UNDER "OTHER SCIENCE ACTIVITIES".
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-3. FEDERAL OBLIGATIONS TO UNIVERSITIES AND COLLEGES, BY GEOGRAPHIC DIVISION AND STATE: FY 1971 - 78

| | | | F1 177 | | | | | |
|---|-------------------|-------------------|--------------------|-------------------|-----------------------|--------------------|--------------------|--------------------|
| | | | (DOLLARS 1N | THOU SANDS) | | | | |
| GEOGRAPHIC DIVISION | | 1073 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 |
| AND STATE | 1971 | 1972 | 3,838,919 | 4,480,169 | 4,547,075 | 5,402,506 | 6,486,103 | 7,479,177 |
| UNITED STATES, TOTAL | 3,498,596 | 4,144,570 | 403.097 | 397,431 | 417, 449 | 470.718 | 580,619 | 673,576 |
| NEW ENGLAND, TOTAL | 348,556 | 4107710 | | | 74 160 | 84,959 | 101,262 | 115,839 |
| CONNECT ICUT | 57,182 | 69,697 | 62,809 11,077 | 80,189 9,921 | 76+159 16,520 | 21,972 | 23,893 | 28,439 |
| MAINE | 6,832 | 8,877 288,183 | 281,024 | 255,810 | 261,968 | 289,431 | 367,233 | 430,892 29,910 |
| MASSACHUSETTS | 238,776 19,357 | 16,652 | 14,623 | 16,06B | 17, 411 | 21,925 | 28,624 34,191 | 37,776 |
| NEW HAMPSHIRE | 16,188 | 21,671 | 21,399 | 21,273 | 24,901 | 29,896 22,535 | 25,416 | 30,720 |
| RHODE 1SLAND Vermont | 10,221 | 13,436 | 12,165 | 14,170 | 20,490 | | | 1,220,170 |
| MIDDLE ATLANTIC, TOTAL | 569,573 | 672,437 | 604,825 | 689,893 | 74 6 , 88 8 | 846,896 | 1,037,293 | 124,017 |
| | 55,629 | 67,660 | 60,264 | 71,023 | 79,734 | 86,202 508,470 | 626,079 | 746,76B |
| NEW JERSEY New York | 339,996 | 403,601 | 358,677 | 405,904 | 454,385 212,769 | 252,224 | 304.539 | 349,385 |
| PENNSYLVAN 1A | 173,948 | 201,176 | 185 +884 | 212,966 | | | 953,363 | 1,084,344 |
| EAST NORTH CENTRAL, TOTAL | 529,890 | 630,134 | 597,858 | 672,463 | 661,752 | 803,526 231,731 | 277,479 | 322,243 |
| 11.1.11016 | 154,07B | 178,309 | 169,54B | 20B,4BB | 200,671 75,960 | 90,898 | 104,988 | 120,287 |
| 1LL 1ND 1S 1ND 1ANA | 64,777 | B1,014 | 68,857 | 77,613 147,492 | 139,803 | 182,214 | 220,516 | 238,897 |
| MICHIGAN | 121,246 | 141,409 | 122,720 125,082 | 135,519 | 137,595 | 168,744 | 201,509 | 235,323 |
| DH10 | 110,017 79,772 | 134,184 95,218 | 111,651 | 103,351 | 107,723 | 129,939 | 148,871 | 167,594 |
| W1SCONS1N | | 320,919 | 291,08B | 356,149 | 341,949 | 411,377 | 472,236 | 515,077 |
| WEST NORTH CENTRAL, TOTAL | 315,180 | 3201717 | | | ED 184 | 68,093 | 73,498 | 82,763 |
| 1 DHA | 53,272 | 49,990 | 48,674 | 57,858 45,348 | 58,184 40,552 | 50,588 | 59,760 | 67,527 |
| KANSAS | 34,022 | 41,020 | 37,709 69,106 | B1,455 | 88,627 | 99,315 | 125,116 | 128,795 |
| M1NNE S OT A | 84,09B 94,021 | 78,318 93,450 | 84,912 | 107,258 | 98,058 | 114,321 | 37,84B | 145,624 40,761 |
| M1SSOUR1 | 28,371 | 27,081 | 27,354 | 36,530 | 28,047 | 42,131 18,965 | 19,656 | 25,952 |
| NEBRASKA North Dakota | 10,119 | 14,781 | 10.B52 | 15,720 | 15, 741 12, 740 | 17,964 | 21,314 | 23,655 |
| SOUTH DAKOTA | 11,277 | 16,279 | 12,481 | 11,980 | | | 1 020 421 | 1,296,693 |
| SOUTH ATLANTIC, TOTAL | 519,756 | 646,793 | 599,493 | 719,057 | 730,564 | B49,559 | 1,029,621 | 14,696 |
| DEL ANADE | 5,570 | 7,512 | 6,920 | B,704 | 9,090 159,792 | 13,741 154,232 | 206.026 | 206,219 |
| DELAMARE District of Columbia | 109,645 | 122,189 | 123,858 | 140,422 96,618 | 101,027 | 120,654 | 159,458 | 186,917 |
| FLOR 1DA | 72,962 | 102,154 | 83,952 65,208 | 81,164 | 82,368 | 98,191 | 117,467 | 135,529 |
| GEORG1A | 57,734 B0,129 | 70,529 96,46B | 100,441 | 109,664 | 110,536 | 130,301 | 147,596 181,694 | 308,507 199,436 |
| MARYLAND | 104,894 | 130,693 | 110,685 | 145,029 | 132,535 | 155,247 57,530 | 61,765 | 68,768 |
| NORTH CAROLINA South Carolina | 24,087 | 35,305 | 31,721 | 42,390 | 41,196 70,979 | 90,562 | 110,444 | 141,647 |
| VIRGINIA | 44,976 | 59,254 | 58,009 | 72,364 22,702 | 23,041 | 29,101 | 31,974 | 34,974 |
| WEST VIRGINIA | 19,759 | 22,689 | 18,699 | | | 325,678 | 390,540 | 424,632 |
| EAST SOUTH CENTRAL, TOTAL | 194,765 | 244,892 | 208,731 | 270,000 | 268,109 | 102,411 | 114,508 | 125,687 |
| AL ABAMA | 53,802 | 74,725 | 67,628 | 78,682 | 83,966 46,148 | 54,122 | 73,659 | 73,190 |
| KENTUCKY | 35,877 | 42,601 | 35,512 32,948 | 45,719 46,236 | 47,734 | 58,191 | 72,129 | B3,002 |
| M1SS1SS1PP1 | 29,623 75,463 | 40,905 86,661 | 72,643 | 99,363 | 90,261 | 110,954 | 130,244 | 142,753 |
| TENNESSEE WEST SOUTH CENTRAL, TOTAL | 276,326 | 312,988 | 304,675 | 373,167 | 350,411 | 453,692 | 532,757 | 593,127 |
| MEZI 2001M CEMINACA LOLAS | | 37 544 | 21,099 | 24,143 | 29,870 | 29,818 | 43,904 | 50,061 |
| ARKANSAS | 21,855 | 27,544 58,026 | 59,384 | 58,918 | 53,403 | 93,025 | 95,898 62,257 | 94,42B 71,260 |
| LOUISIANA | 65,939 31,936 | 38,595 | 33,839 | | | 55,740 275,109 | 330,698 | 377,378 |
| OKLAHDMA Texas | 156,596 | 188,823 | 190,353 | 238,132 | 218,666 | | | 388,785 |
| MDUNTAIN, TOTAL | 178.885 | 223,755 | 197,56B | 227.250 | 240,519 | 277,841 | 345,108 | .71,867 |
| | 27,282 | 34,809 | 32,944 | | | | 65,851 106,053 | 118,303 |
| AR 1ZDNA | 59,997 | | 64,170 | | 76,187 7,767 | | 13,388 | 15,928 |
| COLDRADO 10aho | 6,103 | 7,886 | 7,545 9,807 | | | | 17,940 | 19,637 |
| MONTANA | 9,712 | | | | | 9,062 | 12,004 | 11,636 |
| NEVADA | 6,261 | 6,97B 37,147 | | | 40,438 | | | 75,826 65,105 |
| NEH MEXICO | 26,254 37,582 | | 39,742 | 49,142 | 47,116 | | | |
| UTAH Hydming | 5,694 | | | 6,567 | 8,353 | | | |
| | 540,345 | | 601,970 | 728,014 | 737,318 | 872,380 | 1,016,244 | |
| PACIFIC, TOTAL | | | 12,938 | 13,649 | 14, 220 | 15,B10 | | |
| ALASKA | 9,571 | | | | 7 529,184 | 612,517 | | |
| CAL 1FORN1A | 394,525 19,834 | | | 30,850 | 28,023 | | | |
| HAWA11 Dregon | 42,749 | 51,122 | 48,782 | 2 49,49 | 5 56,233 3 109,656 | 71,764 | | |
| WASHINGTON . | 73,666 | | 86,93 | 7 107,55 | | | | |
| DUTLYING AREAS, TOTAL | 25,320 | 27,951 | 29,61 | | | | | |
| GUAM | 430 | 493 | | | | | | 145,192 |
| PUERTO RICO | 24,126 | 5 26,896 | | | 0 12 | 5 166 | 19 | 411 |
| AMERICAN SAMOA | 764 | | | 3 1,54 | 1 1,26 | 9 1,291 | | |
| VIRGIN ISLANDS Trust territory pac isl | | | | Ō | 0 | 0 157 | , 7: | , |
| INDST TENNETION 1 124 125 | | | | | | | | |

NOTE: DATA FOR EACH YEAR REFLECT THE AGENCIES INCLUDED IN THE SURVEY SYSTEM FOR THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 8-4. FFDERAL DBLIGATIONS TO THE 100 UNIVERSITIES AND COLLEGES RECEIVING THE LARGEST AMOUNTS: FY 1971 - 78

(DOLLARS IN THOUSANDS)

| | INSTITUTION (RANKED BY | | | | | | | | |
|---|---|-----------|-----------|---|-----------|-----------|----------------|-----------|------------|
| | TOTAL 1978 FEDERAL | | | | | | | | |
| R | ANK DBLIGATIONS) | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 |
| | | .,,, | 1716 | 1713 | 1717 | 1717 | 1710 | 4711 | 1770 |
| | UNITED STATES TOTAL | 3,498,596 | 4,144,570 | 3.838.919 | 4,480,169 | 4.547,075 | 5.402.506 | 4 404 103 | 7.479.177 |
| | ONLICO STATES TOTAL | 214701270 | 7117710 | 310301717 | 7,7007107 | 41341,013 | 214021200 | 6,486,103 | 114191111 |
| | | | | | | | | | |
| | 1 JOHNS HOPKINS UNIVERSITY I | / 45.548 | 54,681 | 56.062 | 58,347 | 57,234 | 58.742 | 64,435 | 712+866 |
| | 2 MASS INST OF TECHNOLOGY | 96+835 | 112,472 | 125,530 | 69.511 | 80.342 | 79,580 | 109,439 | 130,586 |
| | 3 HOWARD UNIVERSITY | 62,728 | 65.078 | 72.719 | 83.815 | 94,762 | 99•939 | 116,381 | 116.195 |
| | 4 LNIVERSITY OF WASHINGTON | 56,535 | 7.3 . 284 | 67.258 | 81,890 | 81.015 | 85,448 | 96,953 | 105,671 |
| | 5 LNIV OF WIS-MADISON | 57,320 | 62,512 | 79.554 | 73.602 | 65.513 | 69,019 | 77,878 | 99,330 |
| | 5 CHILL DI WIZ HADISON | 711720 | 021712 | 171777 | 131002 | 024213 | 0,101, | 11,010 | 777330 |
| | 6 UNIV OF CAL LOS ANGELES | 54+030 | | | 77 /05 | | | | |
| | | | 63.893 | 60,884 | 73.685 | 75.105 | 75.156 | 86+257 | 97.779 |
| | 7 STANFORD UNIVERSITY | 54+648 | 62,224 | 56.861 | 66,789 | 70,269 | 73,513 | 84,946 | 94,009 |
| | B UNIVERSITY OF MINNESOTA | 72,534 | 64,246 | 57,614 | 68,065 | 73,651 | 71,858 | 92,684 | 93,558 |
| | 9 HARVARD UNIVERSITY | 54+037 | 65+072 | 61,405 | 72,539 | 65,186 | 67,149 | 76,711 | 89,949 |
| | 10 UNIV OF CAL SAN DIEGO | 49,650 | 57,693 | 55,214 | 71,112 | 63,210 | 70 + 82 1 | 77,051 | 88,508 |
| | | | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | 037220 | | , | 001700 |
| | TOTAL 1ST 10 INSTITUTIONS | 603.865 | 681.155 | 693,101 | 719.355 | 726,287 | 751,225 | 882,735 | 1,128,451 |
| | | 003.003 | 0011133 | 0,5,101 | 1171323 | 120,201 | 1711227 | 0021133 | 111201421 |
| | 11 UNIVERSITY OF HICHIGAN | 60.881 | | | | E0 140 | | 74 000 | |
| | | | 66,810 | 56.880 | 63.870 | 59,149 | 63,478 | 74,883 | 86.527 |
| | 12 COLUMBIA UNIV HAIN DIV | 52.219 | 60,654 | 52,812 | 59,992 | 65,808 | 63,766 | 74+507 | 84.941 |
| | 13 CORNELL UNIVERSITY | 41,367 | 45,868 | 44,123 | 49,452 | 53,866 | 57.574 | 69,979 | 79,729 |
| | 14 UNIV OF PENNSYLVANIA | 41,385 | 44,875 | 44,478 | 53,987 | 58,900 | 61,149 | 68,829 | 78.350 |
| | 15 YALE UNIVERSITY | 38,400 | 44.504 | 41,389 | 55,508 | 51.321 | 52,557 | 60,261 | 67,892 |
| | | | | | ,0 | | - 2 7 7 7 1 | 557251 | 0.1072 |
| | 16 PENNSYLVANIA STATE UNIV 1/ | 24.629 | 28,831 | 27,755 | 22 211 | 34,268 | 41 141 | 49,223 | 44 747 |
| | 17 UNIV OF CAL BERKELEY | 52,279 | 57,305 | 58,419 | 32,211 | 60,368 | 41.141 | | 66 • 767 |
| | | | | | 63,428 | | 66+682 | 67,881 | 65.720 |
| | IS DHID STATE UNIVERSITY | 42,160 | 47.875 | 44,134 | 41,955 | 44,772 | 45.579 | 54.091 | 64 • 1 0 7 |
| | 19 UNIVERSITY OF CHICAGO | 37.819 | 42,369 | 39,967 | 50,535 | 47,629 | 49,778 | 54,209 | 61,262 |
| | 20 UNIV OF SOUTHERN CAL | 30,733 | 31,698 | 32,086 | 37,940 | 42,508 | 53.018 | 54,422 | 61.039 |
| | A contract of the contract of | | | | | • | | | |
| | TOTAL 1ST 20 INSTITUTIONS | 1.025.737 | 1,151,944 | 1,135,144 | 1.228.233 | 1,244,876 | 1,305,947 | 1,511,020 | 1.844.785 |
| | | | | | | | | | |
| | 21 UNIV OF CAL SAN FRANCISCO | 26.906 | 24 - 472 | 30,916 | 44,803 | 45,202 | 51,769 | 48,034 | 59,488 |
| | | | 36,472 | | | | | | |
| | 22 UNIV DF ILL URBANA | 44.244 | 42.433 | 42,163 | 44.374 | 46,627 | 46,678 | 52+603 | 58.840 |
| | 23 NEW YORK UNIVERSITY | 40,496 | 44.093 | 37,259 | 43,820 | 38,418 | 57,923 | 48,615 | 54+905 |
| | 24 UNIVERSITY OF COLORADO | 32.720 | 35,587 | 32,530 | 36,708 | 35,425 | 39,299 | 48,078 | 53+375 |
| | 25 WASHINGTON UNIVERSITY | 28,480 | 33,548 | 31,878 | 38,575 | 40,529 | 37,663 | 45+367 | 52,162 |
| | | | | | | | | | |
| | 26 UNIV OF TEXAS AT AUSTIN | 24,666 | 22,761 | 23,062 | 29,009 | 28,564 | 28,079 | 30,146 | 47,701 |
| | 27 DUKE UNIVERSITY | 29.157 | 35.266 | 34.157 | 34,950 | 35,490 | 36,655 | 40,847 | 46,870 |
| | 28 UNIVERSITY OF ROCHESTER | | | | | | | | |
| | | 25,497 | 27.531 | 26.068 | 29+246 | 33.959 | 31.276 | 42,944 | 46 653 |
| | | 24,443 | 27.895 | 28,451 | 29,801 | 32,973 | 36,551 | 37.853 | 44.383 |
| | 3D UNIV OF NC AT CHAPEL HILL | 30.321 | 34+005 | 27+400 | 40,256 | 33,169 | 37•330 | 38,906 | 43,691 |
| | | | | | | | | | |
| | TOTAL 1ST 30 INSTITUTIONS | 1,332,667 | 1,491,535 | 1,449,028 | 1,599,775 | 1,615,232 | 1 • 709 • 170 | 1,944,413 | 2,352,853 |
| | | | | | | | | | |
| | 31 HICHIGAN STATE UNIVERSITY | 26,810 | 28.349 | 25.530 | 35,433 | 33.038 | 36.578 | 42,641 | 43,666 |
| | 32 UNIVERSITY OF UTAM | 26,072 | 32.342 | 26.837 | 33.681 | 31,142 | 31.566 | 35.713 | 42.863 |
| | 33 UNIVERSITY OF HIAHI | 22,848 | 27.830 | 27,940 | 29,425 | 33.526 | 28,807 | 40,550 | 41.713 |
| | 34 UNIVERSITY OF PITTSBURGH | 25,931 | 29,701 | 29,099 | 32,901 | 31.838 | 30,214 | | |
| | | | | | | | | 35.543 | 41.319 |
| | 35 UNIVERSITY OF ARIZONA | 18,100 | 23.011 | 21,658 | 22,556 | 26,636 | 27,446 | 37,443 | 39.534 |
| | | | | | | | _ | | |
| | 36 UNIVERSITY OF FLORIDA | 23.357 | 27.552 | 25.128 | 27,952 | 28,160 | 27,830 | | 38,751 |
| | 37 UNIV OF CAL DAVIS | 18,141 | 22.389 | 20,272 | 28,283 | 27.339 | 26.005 | 31,137 | 38,476 |
| | 38 NORTHWESTERN UNIVERSITY | 22.245 | 21.829 | 20 +885 | 25,208 | 25,853 | 27.CO8 | 31,911 | 38,401 |
| | 39 INTER AM U P R-SAN GERMAN | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 37.894 |
| | 46 UNIV ALABAMA BIRHINGHAM | 19,516 | 26.077 | 25.728 | 28,993 | 29.702 | 33,030 | 31.548 | 37.552 |
| | TO CHIT ALABAMA CIRNINGHAN | 177710 | 201011 | 277120 | 201772 | 277,02 | 224020 | 311340 | 311772 |
| | TOTAL 1ST 40 INSTITUTIONS | 1 575 407 | 1 770 (16 | 1 (72 105 | 1 044 303 | 1 003 444 | 1 077 454 | 2 242 400 | 2 752 022 |
| | TOTAL 1ST 40 INSTITUTIONS | 112321001 | 1.730.615 | 1.672.105 | 1.864.207 | 1.882.466 | 1,977,654 | 2,262,600 | 2.753.022 |
| | AT UNIVERSATE DE TOUT | 24 014 | 34 04 1 | 35 465 | 20 772 | 37.534 | | 22 02- | |
| | 41 UNIVERSITY OF IDMA | 24,914 | 24.864 | 25+403 | 30.773 | 27,529 | 32.250 | 32,027 | 37+326 |
| | 42 BOSTON UNIVERSITY | 15,445 | 20,478 | 20+115 | 23,165 | 25,195 | 26,904 | 33,020 | 36,948 |
| | 43 YESHIVA UNIVERSITY | 24,926 | 29,950 | 28,256 | 33,479 | 44,419 | 32.011 | 34,410 | 36.340 |
| | 44 UNIVERSITY OF NEW MEXICO | 11.005 | 18.597 | 12,633 | 18.525 | 18, 229 | 23,420 | 29,449 | 34.786 |
| | 45 CASE WESTERN RESERVE UNIV | 22,979 | 25.378 | 21.967 | 28,557 | 27.046 | 26.265 | 28,808 | 34 + 659 |
| | | | 22.210 | | | | | ,_, | -,, |
| | 46 TEXAS ARM UNIVERSITY | 20,479 | 21,301 | 21,716 | 23.131 | 23,332 | 28,275 | 28,799 | 34,204 |
| | 47 U TENNESSEE KNOXVILLE | 14.024 | 16,817 | | 17.795 | | | | |
| | | 477067 | | 15,366 | | 20.112 | 24,174 | 21,784 | 33,329 |
| | 48 GALLAUDET COLLEGE | 9.504 | 12,744 | 10.521 | 9,913 | 29,415 | 15,548 | 18,725 | 33.103 |
| | 49 RUTGERS THE ST UNIV DE NJ | 19,489 | 20.072 | 15,734 | 17,634 | 19, 229 | 20,607 | 23,889 | 32,552 |
| | 50 UNIVERSITY OF KENTUCKY | 18.701 | 21,086 | 19 • 276 | 22,834 | 21.314 | 26,746 | 30.179 | 31.988 |
| | • | | | | | | | | .* |
| | TOTAL 1ST 50 INSTITUTIONS | 1.717.153 | 1,941,902 | 1.863.092 | 2:090:013 | 2,138,286 | 2 • 233 • 85 4 | 2,543,690 | 3.098.257 |
| | | | | | | | | | |

SEE FOOTNUTES AT END OF TABLE.



TABLE B-4. FEDERAL OBLIGATIONS TO THE 100 UNIVERSITIES AND COLLEGES RECEIVING THE LARGEST AMOUNTS:

EXAMPLE 100 UNIVERSITIES AND COLLEGES RECEIVING THE LARGEST AMOUNTS:

EXAMPLE 100 UNIVERSITIES AND COLLEGES RECEIVING THE LARGEST AMOUNTS:

(DOLLARS IN THOUSANDS)

| 1 | INSTITUTION (RANKED BY | | | | | | | 1077 | 1978 |
|---------------|--|------------------|---|------------------|------------------|--------------------|------------------|-------------------|------------------|
| | TOTAL 1978 FEDERAL | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1770 |
| RANK | OBLIGATIONS) | • • • • | | | | 22 004 | 24,212 | 27,099 | 30,907 |
| 51 | CALIFORNIA INST OF TECH | 20,490 | 19,908 | 20+358 | 22.024 16.821 | 22.984 22.417 | 22,937 | 26,085 | 30.113 |
| 52 | UNIV OF MISSOURI CCLUMBIA | 22.348 | 20,632 | 22,992 | 28.820 | 22,356 | 21.558 | 24+000 | 30.042 |
| 53 | BAYLOR COL OF MEDICINE | 16,811 | 17.155 16,951 | 20,115 16,282 | 18,975 | 23,127 | 22,090 | 31.016 | 29.017 |
| 54 | | 15.155 | 16,174 | 17,750 | 20,807 | 19, 838 | 21,269 | 25,791 | 28,913 |
| 55 | UNIVERSITY OF VIRGINIA | 13,922 | 101111 | | | | | | 20.542 |
| | THE STATE OF THE S | 16.877 | 17,764 | 17,846 | 16+692 | 19, 115 | 23,005 | 27,102 | 28+562 27+901 |
| 56 | UNIV OF MD COLLEGE PARK | 34,767 | 16,600 | 25.219 | 16+309 | 15, 134 | 34.876 | 22,272 24,964 | 27.876 |
| 5/ | LOUISIANA STATE UNIV UNIV DE MASS AT AMMERST | 9.741 | 12,253 | 11,760 | 14,249 | 16.614 | 19,913 20,654 | 25,861 | 27,541 |
| 28 50 | UNIVERSITY OF KANSAS | 17,130 | 21,113 | 20.440 | 24+861 | 20.108 | 22,066 | 26,009 | 27,462 |
| 60 | DREGON STATE UNIVERSITY | 14.465 | 16,879 | 16,061 | 16,870 | 19, 226 | 22,4000 | | |
| 00 | | | | | 2,286,441 | 2,339,205 | 2,466,434 | 2,803,889 | 3,386,591 |
| TO | TAL 1ST 60 INSTITUTIONS | 1,898,859 | 2,117,331 | 2,051,915 | 212001441 | 213371233 | •••• | | |
| | • | | 17,573 | 12,453 | 14+652 | 14.838 | 17,902 | 19,566 | 26,383 |
| 61 | INDIANA UNIV-BLOOMINGTON | 13,497 19,011 | 22.451 | 23,450 | 30,412 | 26,888 | 34,937 | 28,465 | 25,884 25,845 |
| ∴ 62 | UNIV OF HAHAII-MANDA | 17,647 | 19,829 | 18,260 | 19,620 | 17.892 | 20,906 | 23,707 | 25,526 |
| 63 | TEMPLE UNIVERSITY | 11,585 | 14,323 | 13,839 | 15,495 | 16,457 | 18.379 | 22,380 | 25,050 |
| | UNIVERSITY OF CONNECTICUT | 16,347 | 20.872 | 15,164 | 18,576 | 19,613 | 25,409 | 21,203 | 231030 |
| 65 | VANDERBILT UNIVERSITY | 101541 | | | | | 13,723 | 21,015 | 24,877 |
| | GEORGIA INSTITUTE OF TECH | 7 • 30 4 | 7,606 | 7,970 | 7.976 | 10.380 | 16,747 | 19,630 | 24,695 |
| 67 | NEW MEXICO STATE UNIV | 10,672 | 11+681 | 11,458 | 11.005 | 13,710 18,206 | 18,625 | 21,605 | 23,467 |
| 6.6 | UNIV OF HD BALT PROF SCH | 10,479 | 12,075 | 11 - 741 | 18,519 | N/A | N/A | N/A | 23,424 |
| 69 | UNIV OF ALASKA-FAIRBANKS | N/A | N/A | N/A | N/A 16.573 | 17.831 | 19+338 | 22,425 | 23.315 |
| 70 | N C STATE UNIV. AT RALEIGH | 18,174 | 16,439 | 15,995 | 10+5/5 | 111031 | .,,,,,, | | |
| | | | 3 340 180 | 2,182,245 | 2,439,269 | 2,495,020 | 2,652,400 | 3,003,885 | 3,635,057 |
| T | TAL 1ST 70 INSTITUTIONS | .2,023,575 | 2,260,180 | 211021245 | 2,13,72 | | | | 22 201 |
| _ | | 323 | 14+636 | 14,450 | 11.361 | 16, 262 | 16.597 | 19.021 | 23,301 23,090 |
| 71 | U TEX-ANDRSN HOSPETUHOR 1 | 9,320 | 11,184 | 11.652 | 13.362 | 14,410 | 15.959 | 17,783 | 22,876 |
| 77 | VA POLYTECH INST & ST U | 16,845 | 17,261 | 17,706 | 17,450 | 19, 795 | 20.215 | 22+123 | 22,732 |
| | UNIVERSITY OF GEORGIA | 11,865 | 14,461 | 12,910 | 14,825 | 12, 954 | 19,196 | 22,673 21,517 | 22,631 |
| 7 | WAYNE STATE UNIVERSITY S UNIVERSITY OF CINCINNATI | 11,375 | 15,211 | 15.655 | 18.632 | 16+014 | 20,698 | 214311 | 22.05. |
| • | ONITERSTITE DE CINCIAMA | | | | 17 404 | 18,069 | 18,446 | 20,184 | 22,317 |
| 7 | 6 CUNY MT SINAI SCH DF MED | 10,988 | 12,274 | 10,061 | 17,404 | 15, 768 | 15,733 | 20,581 | 22,211 |
| 7 | 7 U TEX HLTH SC1 CTR-DALLAS | 16,298 | 0 | 12,054 | 16,729 | 12, 279 | 19,908 | 25,384 | 22,178 |
| 7 | | 8,969 | 9,035 | 9,270 | 10,567 18,854 | 15, 507 | 16.615 | 18,011 | 21,465 |
| 7 | | 13,493 | 19.527 | 13,241 9,396 | 11,414 | 17, 146 | 16,676 | 17,353 | 21+090 |
| ė | C UNIV OF VT & ST AGRIC COL | 8 • 159 | 10.238 | 7,370 | 11171 | • • • • • • | | | 2 050 040 |
| | | 2 121 210 | 2,384,007 | 2,308,640 | 2,589,867 | 2,653,224 | 2,832,443 | 3,208,515 | 3,858,948 |
| T | OTAL 1ST BO INSTITUTIONS | 2,151,210 | 243011001 | | | | | 10.070 | 20,721 |
| | | 16,145 | 18+438 | 16,278 | 16,662 | 19, 728 | 18,487 | 19.970. 17.657 | 20,456 |
| В | 1 PRINCETON UNIVERSITY | 8,175 | 10,088 | 10,424 | 11.825 | 1C+ 707 | 12,523 | 14,042 | 20,303 |
| В | 2 VIRGINIA COMMONHLTH UNIV 3 FLORIDA STATE UNIVERSITY | 9,629 | 12,614 | 8 + 889 | 12.801 | 10.459 | 11,582 19,186 | 19,166 | 20,187 |
| 8 | 4 SUNY AT BUFFALD | 15,305 | 16,844 | . 14+631 | 17,084 | 17,503 3,390 | 9+781 | 13,555 | 19,942 |
| 0 | 5 PUERTO RICO JR COL | 883 | 720 | 776 | 3,354 | 31390 | 77101 | | |
| · | 3 102K10 K100 5 | | | 1 | 10.040 | 9,551 | 13,493 | 34+387 | 19,895 |
| B | 6 GEORGETOWN UNIVERSITY | 13,476 | 15.715 | 13,837 | 18,868 18,900 | 15, 841 | 15.241 | 14,339 | 19.835 |
| ă | 7 LNIV OF ILL MED CTR CHGO | 8.710 | 13,111 | 12,486 12,117 | 26,646 | 21,749 | 15,313 | 13,643 | 19,459 |
| A | R IIN1V DE DKLAHDMA | 12,134 | 13.371 | 6,220 | 5,472 | B.741 | 14.+860 | 15,900 | 19+370 |
| 8 | 9 CITY COLLEGES OF CHICAGO | 3,322 | 6,394 12,275 | 11,681 | 12,916 | 17, 433 | .14 + 04 2 | 16,953 | 19,248 |
| . 9 | O 10HA ST U DF SC1 & TECH | 17,369 | 121217 | | | | | 2 200 127 | 4.058.365 |
| | | 2 224.258 | 2,503,577 | 2,415,979 | 2,734,395 | 2,788,326 | 2,976,951 | 3,388,127 | 410201302 |
| 1 | DTAL 1ST 90 INSTITUTIONS | 2+230+330 | 217031711 | | | | | 18,137. | 18,926 |
| | 1 OKLAHOMA STATE UNIVERSIT | Y 11,003 | 12,158 | 11,243 | 12.264 | 13, 152 | 14,577 | 16,814 | 18,868 |
| 2 | 2 ROCKEFELLER UNIVERSITY | 8,469 | 10+769 | 13.151 | 12,540 | 13,536 | 12,671 | 19,615 | 18,842 |
| | 3 GEORGE WASHINGTON UNIV | 12,698 | 15.385 | 15+633 | 17,594 | 15, 404 18, 625 | 19,128 | 18,268 | 18+540 |
| | 4 EMORY UNIVERSITY | 11,717 | 14,139 | 13.856 | 16+356 | 11,876 | 14,133 | 15,814 | 18+283 |
| | 5 MISSISSIPPI STATE UNIV | 9,438 | 10,363 | 10,291 | 10.517 | 11,010 | - 11.33 | | |
| | | | | 10 051 | 11.733 | 13,288 | 13,850 | 16,256 | 18,126 |
| | 6 AUBURN UNIVERSITY | 10,999 | 11,199 | 10,851 | 8 • 258 | 11,504 | 12,331 | 16,028 | 17,699 |
| • | 97 CARNEGIE MELLON UNIV | 10,436 | 10.331 7.961 | 9.311 7.258 | 14,614 | 12, 799 | 13,077 | 15.226 | 17,624 |
| | B UNIV OF CAL IRVINE | 9+095 | 11,675 | 11,772 | 12,609 | 13, 114 | 12,488 | 14+069 | 17.357 |
| • | 99 WEST VIRGINIA UNIVERSITY | 11.913 | 7,235 | 7,576 | 9,621 | 10,839 | 13,014 | 15,204 | 17,173 |
| · · · · · · 1 | DO SUNY AT STONY BROOK | 5.172 | 11237 | | | | | | 4,239,803 |
| | | 2.337.29R | 2,614,792 | 2,526,921 | 2,860,501 | 2,922,463 | 3,116,287 | 3,553,558 | 4,237,803 |
| | TOTAL 1ST 100 INSTITUTIONS | | _,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | | | • |
| | | | | | | | | | |

NOTE: DATA FOR EACH YEAR REFLECT THE AGENCIES INCLUDED IN THE SURVEY SYSTEM FOR THAT YEAR.

Applied Physics Laboratory (Johns Hopkins University): \$136,140 Applied Research Laboratory (Pennsylvania State University): 12,205

SOURCE: National Science Foundation

^{1/} Data shown for Johns Hopkins University and Pennsylvania State University for 1978 include funding for components formerly shown separately as university-administered federally funded research and development centers. The amounts involved are as follows:

TABOE 8-5. FEDERAL D8LIGATIONS TO UNIVERSITIES AND COLLEGES FOR RESEARCH AND DEVELOPMENT, 8Y DETAILED FIELD OF SCIENCE: FY 1971 - 78

(DULLARS IN THOUSANDS)

| | | , | T | | | | | |
|---|--------------------------|------------|----------------------|---------------------|--------------------|--------------------|-------------------|-----------------|
| FIELD OF SCIENCE | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 |
| | | | İİ | | | | ļ | <u></u> |
| TOTAL 61-1-6 | | | | | | | | |
| TOTAL, ALL FIELDS | 1,551,391 ! | 1,852,963 | 1,870,507 | 2,085,001 | 2,238,628 | 2,422,814 | 2,784,885 | ! 3,362,174 |
| PHYSICAL SCIENCES, TOTAL | 270,733 | 279,124 | 272+336 | 261,865 | 306,718 | 327,728 | 394,813 | 438,707 |
| ASTRONOMYCHEMISTRY | | | | | | | | |
| PHYSICS | | | | | | | | |
| PHYSICAL SCIENCES, NEC | | | | 131 •493 15 •392 | | | 196,806 46,388 | |
| MATHEMATICAL & COMPUTER SCIENCES, TOTAL | 41,922 | 50,712 | 45,904 | 51,931 | 61,514 | 78,767 | 73,863 | 75,965 |
| MATHEMATICS | N/A | N/A | N/A | N/A | N/A | N/A | 48,872 | 41,683 |
| COMPUTER SCIENCES | | N/A | | N/A | | N/A | 24,991 | 33,227 |
| MATHEMATICAL & COMPUTER SCIENCES, NEC . | N/A | N/A | N/A I | N/A [| N/A | N/A | N/A | 1+055 |
| ENVIRONMENTAL SCIENCES, TOTAL | 135,582 | 186,788 | 168,470 | 174,769 | 201,809 | 215+092 | 302 • 030 | 303,189 |
| ATMOSPHERIC SCIENCES | 41,414 | 45.045 | 41,737 | 46,158 | 47,038 | 49,576 | 88,184 | 85,443 |
| GEDLDGICAL SCIENCES | 39,191 | | 33 • 716 | | 45,260 | | | |
| OCEANDGRAPHY | | 68,091 | 66+584 | | | | | |
| ENVIRGNMENTAL SCIENCES, NEC | 11,426 | 42,599 | 26•433 l | 23,765 | 55,056 | 39,700 | 51,174 | 45,143 |
| ENGINEERING, TOTAL | 158,101 | 192 • 99 3 | 203+869 | 174,803 | 210,845 | 217,535 | 261,200 | 498,495 |
| AERDNAUTICAL | | | | | 13,972 | 10,587 | 12,951 | 20,732 |
| ASTRONAUTICAL | | | | | | 797 | 1,674 | 849 |
| CHEMICAL | | 10,516 | 11,655 | | | | | |
| CIVIL | | | | | | | | |
| MECHANICAL | | | | | | | | |
| METALLURGY & MATERIALS | | | | | 15,512 30,261 | 19,391 29,991 | | |
| ENGINEERING, NEC | | | 53,634 | | | | | |
| LIFE SCIENCES, TOTAL | 741,998 | 896+376 | 934,177 | 1,128,083 | 1,222,698 | 1,340,141 | 1,483,852 | 1,713,436 |
| 8 IDLD GICAL | 424.1881 | 409.784 | 447,510 | 516,214 | 549,229 | 622,337 | 671.787 | 972,309 |
| MEDICAL, TOTAL | 313,006 | | | | | | | |
| CLINICAL MEDICAL | | 304 •997 | 309,518 | 376 -594 | 442,727 | 472,313 | 547,741 | N/A |
| DTHER MEDICAL | 62,758 | 177,221 | 173,655 | 212.879 | 198,485 | 219,836 | | |
| LIFE SCIENCES, NEC | 4,804 | 4,374 | 3,494 | 22 ,396 | 32.257 | 25 • 655 | 32,398 | 30,934 |
| PSYCHOLOGY, TOTAL | 56,433 | 55,232 | 52.833 | 56,265 | 46,987 | 53,330 | 57,148 | 71,785 |
| BIDLDGICAL ASPECTS | 22,920 | 29,040 | 28,159 I | 33,784 | 24,627 | 21,504 | 19,715 | 22,259 |
| SDCIAL ASPECTS | 20,599 | 18 • 692 | 22,861 | 21,3231 | 19,977 | 19,543 | 21,318 | |
| SDCIAL ASPECTS PSYCHOLOGY, NEC | 12,914 | 7,500 | 1,813 | 1.158 | | 12,283 | 16,115 | |
| SDCIAL SCIENCES, TDTAL | 106 • 162 | 119.827 | 106 • 155 | 114 • 679 | 130,620 | 117,167 | 134 , 02 0 | 184,423 |
| ANTHR OP DLOGY | | 3,260 | 3,518 | 3.973 | 4,533 | 5,147 | 5.882 | 7,286 |
| ECDNDM1CS | 22,968 | 18,857 | | 19,7041 | 19,5801 | 19,931 | 21,581 | 52 , 748 |
| HISTORY | 722 | 1 • 439 | 9331 | 9751 | 929 | 843 ! | | 1,426 |
| LINGUISTICS | | 2 + 951 | 2,4171 | 2,334 | 2,451 | 2,563 | 2,300 | |
| POLITICAL SCIENCE | 2,535 | 3,146 | 2,606 | 3,600! | 3.554 | 4 • 064 | 3 • 837 | 4 • 8 4 3 |
| SDCIDLDGY | 21 • 589 i 50 • 397 l | | 17,831 [61,047 [| 18•186 65•907 | 16,5251 83,0481 | 19,058 65,561 | | |
| OTHER SCIENCES, NEC | 40,460 | 71,911 | 86.763 | 122,606 | 57,4371 | 73 • 054 | 27 . 959 l | 76,174 |
| <u>.</u> _ | 1 | | 1 | | i | | i | |

NDTE: DATA FOR EACH YEAR REFLECT THE AGENCIES INCLUDED IN THE SURVEY SYSTEM FOR THAT YEAR.

SOURCE: NATIONAL_SCIENCE FOUNDATION

(DOLLARS IN THOUSANDS)

| : | INSTITUTION (RANKED BY AMOUNT RECEIVED | | | | | 1075 | 1976 | 1977 | 1978 |
|------|---|---|-------------------|------------------|---|--------------------|------------------|------------------|------------------|
| RANK | FOR FY 1978) | 1971 | 1972 | 1973 | 1974 | 1975 | | | |
| | UNITED STATES TOTAL | 1.551.391 | 1.852.963 | 1,870,507 | 2,085,001 | 2,238,628 | 2,422,814 | 2,784,885 | 3,362,174 |
| | | | | 35,127 | 39,569 | 41.238 | 44,956 | 51.075 | 196.081 |
| 1 | JOHNS HOPKINS UNIVERSITY! | 28.955 | 35,535 | 113,768 | 61.074 | 68,655 | 67,715 | 91,771 | 114.021 |
| 2 | MASS INST UP TECHNOLOGY | 001172 | 104.882 48.216 | 46,237 | 53,565 | 58,391 | 62,695 | 73.400 | 80.110 |
| 3 | STANFORD UNIVERSITY | 41.786 36.593 | 50,027 | 48,693 | 53,384 | 48,523 | 63.241 | 70,686 | 77.033 76.080 |
| . 4 | UNIV OF CAL SAN DIEGO | 36.079 | 48.241 | 44,659 | 56,909 | 60,189 | 62.232 | 69,530 | 10.000 |
| 5 | UNIVERSITY OF WASHINGTON | 30,019 | 707271 | | | | | 42 124 | 69,595 |
| _ | | 36.825 | 41,929 | 43.570 | 53,402 | 54,123 | 58,408 | 63.126 58.108 | 68,520 |
| 6 | UNIV DE CAL LOS ANGELES | 37,109 | 45,450 | 45,694 | 48.486 | 48,532 | 52,447 53,134 | 58,291 | 65,225 |
| | HARVARD UNIVERSITY UNIV OF WIS-MADISON | 36.871 | 40,943 | 43,882 | 51.095 | 49.118 | 50.663 | 60,129 | 64,687 |
| 9 | | 37,589 | 45,493 | 41.206 | 46.054 | 46.235 39.695 | 46,339 | 50,013 | 59,582 |
| 10 | UNIVERSITY OF HINNESOTA | 26.707 | 36.453 | 32,255 | 36,471 | 371073 | .0,557 | | |
| | | | | 405 001 | 500.009 | 516,699 | 561,830 | 646.129 | 870.934 |
| TD | TAL 1ST 10 1NST1TUT1ONS | 407.306 | 497.169 | 495,091 | 300,004 | 210,077 | | | |
| | | | 44 401 | 36,912 | 39,931 | 38,403 | 42,152 | 52,430 | 58.444 |
| 11 | UNIVERSITY OF HICHIGAN | 40.819 | 44,481 31.034 | 31,360 | 33,810 | 39,578 | 41.542 | 49.550 | 58.258 |
| 12 | CORNELL UNIVERSITY | 23.893 | 28,379 | 29,430 | 36.712 | 43,390 | 41,215 | 48,119 | 50.138 53.805 |
| 13 | UNIV OF PENNSTLVANIA | 25,241 23,092 | 27,506 | 30.030 | 37,671 | 36,601 | 40,693 | 47,425 | 49.663 |
| 14 | YALE UNIVERSITY | 32,979 | 37.455 | 41.371 | 44.090 | 40.357 | 45.297 | 44,657 | 47,003 |
| 15 | UNIV OF CAL BERKELEY | 361717 | 211172 | | | | | 45.852 | 48,984 |
| • • | UNIVERSITY OF CHICAGO | 26,479 | 31.079 | 30,954 | 33.217 | 38,082 | 42.247 32,737 | 38.088 | 46,388 |
| 10 | UNIV OF CAL SAN FRANCISCO | | 20,382 | 21.734 | 28.329 | 33,689 | 33.947 | 38.435 | 42.947 |
| 10 | UNIV OF ILL URBANA | 31,331 | 28,253 | 28,086 | 32,700 | 33,841 28,660 | 33,682 | 37,611 | |
| | THE EDUTHERN CAL | 14,978 | 20,027 | 22.060 | 23.493 | 20,211 | 21,688 | 23,003 | 41.974 |
| 20 | PENNSYLVANIA STATE UNIVI | 12,386 | 15,989 | 15,566 | 17.754 | 20,211 | | - | |
| | DTAL 1ST 20 INSTITUTIONS | 654,568 | 781,754 | 782.594 | 827.716 | 869.511 | 942.030 | 1,071,299 | 1.369.993 |
| | | | | | 28,753 | 30,679 | 31,234 | 37.755 | 41.974 |
| 21 | 1 HASHINGTON UNIVERSITY | 18.224 | 21.752 | 22,738 | 27.719 | 27,994 | 33,104 | 35,645 | 38,235 |
| 22 | NEW YORK UNIVERSITY | 20,780 | 23,045 | 24,932 | 21,169 | 23,307 | 21,291 | 25,0D3 | 37,232 |
| 2: | 3 UNIV OF TEXAS AT AUSIIN | 14,116 | 14.793 | 16,387 19,717 | 22,974 | 24,426 | 27,220 | 30,033 | 34.632 |
| 20 | A DUKE UNIVERSITY | 16.714 | 17.768 | 22,429 | 19.642 | 20,913 | 21,701 | 25,244 | 33.983 |
| 25 | 5 OHIO STATE UNIVERSITY | 15,546 | 23,069 | 227127 | • | | | 24 200 | 33.616 |
| | | 16.633 | 18,371 | 18,853 | 21.250 | 25.371 | 23,478 | 26,388 29,966 | 32.091 |
| 2 | 6 UNIVERSITY OF ROCHESTER | 16.447 | 19,926 | 20,728 | 22,628 | 22.270 | 26.055 | 23,742 | 29,554 |
| 2 | 7 UNIVERSITY OF COLORADO | 14,728 | 16,607 | 17,756 | 17.953 | 21,236 | 23,994 | 24,542 | 29.352 |
| | B PURQUE UNIVERSITY | 12,786 | 17.312 | 15,652 | 20,336 | 19,726 | 22,394 23,733 | 26,244 | 28.710 |
| 2 | 9 UNIVERSITY OF UTAH O YESHIVA UNIVERSITY | 14,458 | 19,068 | 18,641 | 21.036 | 24,782 | 234133 | 2072 | |
| 3 | O TESHIVA DRIVENSITY | | | | 174 | 1.110.215 | 1,196,234 | 1,355,861 | 1.709.372 |
| т | DTAL 1ST 30 INSTITUTIONS | 815,000 | 973,465 | 980,427 | 1,051,176 | 1,110,215 | 1111111111 | • • • • | |
| • | 0146 107 | | | 10 411 | 19,807 | 20,995 | 22,112 | 24,700 | 28.106 |
| 3 | 1 CALIFORNIA INST OF TECH | 17.074 | 17,467 | 18,411 | 18.837 | 19,837 | 19,403 | 22,343 | 27.721 |
| 3 | 2 UNIV OF CAL DAVIS | 11.408 | 15.734 | 15,668 13,719 | 16,546 | 18,655 | 20.027 | 23,319 | 26,635 |
| 3 | 3 NORTHWESTERN UNIVERSITY | 11.052 | 13,026 16,811 | 14,867 | 20.781 | 19, 102 | 23,414 | 21,249 | 26.555 |
| 3 | 4 UNIV DE NO AT CHAPEL HIL | 16,160 11,125 | 11,291 | 14,573 | 19,161 | 18,615 | 18.120 | 20.338 | . 26,476 |
| 3 | 5 BAYLOR COL OF HEDICINE | 111127 | ,.,. | | • | | | 21,548 | 25,984 |
| | DE STATESURCE | 10,984 | 13,197 | 15,603 | 18,774 | 18,512 | 19,471 | 25.145 | 25.828 |
| 3 | 6 UNIVERSITY OF PITTSBURGH | 10,148 | 10,649 | 11,635 | 12.424 | 16,067 | 17.704 | 24.118 | 25,744 |
| | 7 UNIVERSITY OF ARIZONA B UNIVERSITY OF HIAMI | 12,424 | 16,606 | 17,552 | 18,668 | 22,896 | 20,765 18,768 | 19,869 | 24.730 |
| | 18 UNIVERSITY OF HIAMI 19 CASE HESTERN RESERVE UNI | y 12,259 | 14.833 | 13,813 | 17,774 | 18,808 | | 21,447 | 24,371 |
| ٥ | O UNIVERSITY OF TOHA | 10,798 | 11,278 | 14.027 | 18.549 | 16, 645 | 111005 | | |
| | | 938.432 | 1,114,357 | 1,130,295 | 1,232,497 | 1,300,347 | 1,393,623 | 1,579,935 | 1.971.522 |
| 1 | IDTAL 1ST 40 INSTITUTIONS | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | | 12,607 | 19,138 | 22.122 |
| | 1 GEDRGIA INSTITUTE OF TE | н 5,792 | 6,194 | 6,174 | 6,747 | 9,369 | 17,927 | 19,993 | 21.792 |
| 5 | AZ HICHIGAN STATE UNIVERSI | 10,957 | 11,270 | 12,752 | 14,371 | 17, 924 15, 507 | 19,864 | 18.862 | 21,466 |
| | A TINTV ALABAMA BIKMINUMAN | 0,023 | 12,966 | 12,494 | 15,854 13,026 | 16, 206 | 15,517 | 18,432 | 21,464 |
| | A INTUFOCITY OF PLUKIUA | 10,368 | 13,561 | 12,664 8,090 | | 14, 881 | 15.622 | 17,060 | 21.213 |
| | 5 U TEX-ANDRSN HOSPETUHOR | 1 237 | 8.316 | 0,090 | 10,033 | , 004 | | | |
| | | | | 11.938 | 13,588 | 16,085 | 16,947 | 18 878 | 20,371 |
| | 46 COLORADO STATE UNIVERSI | TY 10,278 | | 11,234 | | 12, 249 | 14,499 | 14,431 | 20,168 |
| | 47 TEXAS AGM UNIVERSITY | 7,400 | | 10,566 | 12,746 | 13, 735 | 14.141 | 16,789 | 20.139 20.133 |
| | AR VANDERRILT UNIVERSITY | 9,268 5 N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| | 49 UNIV DE ALASKA-FAIRBANK | 6.471 | 8,748 | 9.557 | 12.422 | 13, 325 | 15.536 | 17.199 | 1,,,, |
| | 50 BOSTON UNIVERSITY | | | | | | 1,536,283 | 1,740,717 | 2,180,116 |
| | TOTAL IST 50 INSTITUTION | 5 1,010,112 | 1,207,993 | 1,225,764 | 1,343,351 | 1,429,628 | 1,550,203 | 1,1707111 | |
| | | | | | | | | | |

SEE FOOTNOTES AT END OF TABLE.

TABLE B-6. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT TO THE 100 UNIVERSITIES AND COLLEGES CONTINUED RECEIVING THE LARGEST AMOUNTS: FY 1971 - 78

(DDLLARS IN THOUSANDS)

| INSTITUTION (RANKED BY AMOUNT RECEIVED | | | | | | | | |
|--|-----------|-----------|-----------|-----------|-----------|----------------|------------------|----------------|
| RANK FOR FY 1978) | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 |
| 51 HODDS HOLE DENGRAHIC INST | | 16,372 | 12,987 | 15,070 | 14,384 | 15,222 | 15,988 | 19,621 |
| 52 UNIV OF HD COLLEGE PARK | 10,389 | 11,675 | 12.604 | 11,746 | 13,772 | 15,959 | 18,535 | 19.347 |
| 53 UNIVERSITY OF VIRGINIA | 6,279 | 8.137 | 8,296 | 11,325 | 12,064 | 14,126 | 17,212 | 18,883 |
| 54 CUNY MT SINA! SCH OF MED | 7,173 | 8,922 | 7,385 | 13.627 | 15,507 | 15.613 | 16,707 | 18,868 |
| 55 DREGON STATE UNIVERSITY | 9.486 | 11.697 | 11,488 | 12,297 | 13,699 | 15,619 | 19,182 | 18,532 |
| 56 U TENNESSEE KNDXVILLE | 5,210 | 5,997 | 6,438 | 8,093 | 8,674 | 11,522 | 13,311 | 18,462 |
| 57 UNIVERSITY OF NEW MEXICO | 4.189 | 4.320 | 5.211 | 8,692 | 9,295 | 11,222 | 14,151 | 18,392 |
| 58 ROCKEFELLER UNIVERSITY | 7,539 | 9,203 | 10,891 | 10,916 | 11.943 | 12,894 | 15,344 | 17,473 |
| 59 UNIV OF HAHAII-MANDA 60 PRINCETON UNIVERSITY | 11.021 | 12,977 | 13,506 | 15.668 | 15, 029 | 16,504 | 19,164 | 17,233 |
| OO PRINCEIDA UNIVERSIII | 13,284 | 14,456 | 12.801 | 13,334 | 15,896 | 14.876 | 16,331 | 16,759 |
| | 1,095,929 | 1,311,749 | 1,327,371 | 1,464,119 | 1,559,891 | 1,679,840 | 1,906,642 | 2,363,686 |
| 61 UNIV OF HO BALT PROF SCH | 5,447 | 5,591 | 5,757 | 10.143 | 11,925 | 13.121 | 15,312 | 16,592 |
| 62 NEW MEXICO STATE UNIV | 6.983 | 6,865 | 7,198 | 6,794 | 8,994 | 10,416 | 12,268 | 16,260 |
| 63 UNIVERSITY OF KANSAS | 7,847 | 9,663 | 8,777 | 10,234 | 10,743 | 12,365 | 14,236 | 16,179 |
| 64 U TEX HLTH SCI CTR-DALLAS | | 0 | 7,574 | 10,290 | 10,662 | 11,474 | 15,688 | 16,D84 |
| 65 UNIVERSITY OF CONNECTICUT | 5.220 | 6,455 | 7.005 | 8,495 | 9,488 | 10,482 | 12,773 | 14,923 |
| 66 VA POLYTECH INST & ST U | 3.871 | 5,477 | 5,515 | 6,591 | 7,836 | 8,313 | 9,845 | 14,501 |
| 67 UNIVERSITY OF GEORGIA | 6,884 | 7.310 | 7,210 | 7.327 | 9,417 | 9,301 | 10.741 | 14,180 |
| 68 LOUISIANA STATE UNIV | 5,756 | 7.405 | 7,119 | 7.960 | 7,980 | 8,480 | 10,058 | 13,799 |
| 69 UNIV OF MISSOURI COLUMBIA | 7,343 | 8,108 | 9,396 | 8,959 | 9,397 | 9,784 | 12,402 | 13,676 |
| 70 CARNEGIE MELLON UNIV | 6.860 | 8,469 | 7,004 | 7.097 | 9,829 | 10,761 | 13,303 | 13.569 |
| TOTAL 1ST 70 INSTITUTIONS | 1.157.505 | 1,377,092 | 1.399.926 | 1.548.009 | 1,656,162 | 1,784,337 | 2,033,268 | 2.513.449 |
| 71 RUTGERS THE ST אין OF NJ | 8,143 | 8.506 | 7,599 | 9,415 | 9,969 | 9,037 | 10,188 | 13.537 |
| 72 UNIVERSITY OF CINCINNATI | 4,169 | 6,447 | 6,169 | 9.317 | 8,703 | 11,629 | 9,584 | 13.362 |
| 73 SUNY AT BUFFALD | 7.338 | 8,208 | 7,991 | 9,348 | 11,039 | 12,432 | 12,376 | 13,155 |
| 74 GEORGE WASHINGTON UNIV | 6.795 | 9,268 | 7,929 | 9,532 | 10,511 | 9,439 | 13.437 | 13,003 |
| 75 EMORY UNIVERSITY | 5,378 | 7,790 | 8,382 | 9,724 | 12,067 | 13,683 | 12,234 | 12,921 |
| 76 TEMPLE UNIVERSITY | 8,735 | 9,419 | 9,992 | 10,314 | 10, 285 | 12.044 | 12 424 | 12 550 |
| 77 SUNY AT STONY BROOK | 4,188 | 5.163 | 5 .833 | 6,894 | 7,661 | 9.749 | 12,434 | 12,559 |
| 78 UNIVERSITY OF DAYTON | 4,037 | 4,988 | 4,713 | 5,697 | 6,306 | | 11,470 10,685 | 12.372 |
| 79 UNIV DF VT & ST AGRIC COL | 3,714 | 4,901 | 5,603 | 6,147 | 9,323 | 6,625 | | 12,222 |
| 80 UNIVERSITY OF KENTUCKY | 7.243 | 7,004 | 6,164 | 7,585 | 7,977 | 8,234 8,757 | 9,574 | 12,059 |
| | | | | | | | 10.095 | 11,921 |
| TOTAL 1ST 80 INSTITUTIONS | | 1,448,786 | 1,470,301 | 1,631,982 | 1.750.003 | 1,885,966 | 2,145,345 | 2,640,560 |
| 81 UNIV OF CAL IRVINE | 6,454 | 4.347 | 4 • 865 | 8,409 | 8,801 | 9,402 | 10,129 | 11.861 |
| 82 BROWN UNIVERSITY | 6,848 | 8.197 | 7,329 | 7,527 | 8.015 | 9,743 | 9,988 | 11,618 |
| 83 GEORGETONN UNIVERSITY | 4.018 | 5.162 | 4.768 | 6,172 | 3,991 | 7,999 | 12,270 | 11,595 |
| 84 N C STATE UNIV AT RALEIGH | 7.269 | 7,850 | 7,233 | 7,725 | 8,363 | 8,464 | 11,448 | 11.436 |
| 85 VIRGINIA COMMONWLTH UNIV | 3,611 | 3,636 | 5,372 | 5,267 | 5.720 | 7.298 | 9,415 | 11.368 |
| 86 INDIANA UNIV-BLOOMINGTON | 6,345 | 7,659 | 6,445 | 8,204 | 8,391 | 9,556 | 10,906 | 10,949 |
| 87 UNIV OF MASS AT AMHERST | 4.307 | 6,282 | 5,791 | 7.539 | 8 • 10 1 | 8,178 | 9,749 | 10,602 |
| BB WAYNE STATE UNIVERSITY | 4,083 | 4,579 | 4.819 | 5,465 | 6.276 | 7.512 | 10.324 | 10.385 |
| 89 FLORIDA STATE UNIVERSITY | 5,530 | 5,152 | 5,309 | 8.536 | 5,417 | 6,749 | 7,097 | 9,511 |
| 90 BRANDEIS UNIVERSITY | 3,265 | 3,384 | 3,691 | 3,840 | 4 • 426 | 5,181 | 6.145 | 9.040 |
| TOTAL 1ST 90 INSTITUTIONS | 1,268,975 | 1,505,034 | 1,525,923 | 1,700,666 | 1,817,504 | 1.966.048 | 2,242,816 | 2,748,925 |
| 91 IDHA ST U OF SC1 & TECH | 4,676 | 5,597 | 5,190 | 5.917 | 5,780 | 5,685 | 7.572 | 8,958 |
| 92 HASHINGTON STATE UNIV | 3,789 | 4,042 | 4 • 626 | 4,783 | 5,933 | 6,436 | 7.725 | 8,831 * |
| 93 U TEX HLTH SC CTR HOUSTON | .7,489 | 2,626 | 3,728 | 7,267 | 2.782 | 8.711 | 5,584 | 8.727 |
| 94 U TEX MED BRNCH GALVESTON | 2,916 | 3,148 | 3 • 677 | 5,241 | 5,989 | 6,358 | 7,725 | 8,530 |
| 95 UNIV OF RHODE ISLAND | 2,582 | 5,340 | 4,618 | 5,292 | 4,689 | 6,134 | 9,402 | 8.413 |
| 96 UNIV OF CAL SANTA BARBARA | 3.495 | 3,148 | 3,532 | 3.467 | 4,332 | 4.806 | 4.720 | 8.288 |
| 97 U DREGON HLTH SC1 CTR | 3,855 | 3,829 | 4,520 | 5.651 | 5,598 | 6,505 | 6,728 | |
| 98 DKLAHOMA STATE UNIVERSITY | 4.100 | 3,944 | 4,908 | 4,986 | 5,646 | 5,938 | 6,945. 7,166 | 8•242 8•181 |
| 99 UNIVERSITY OF DREGON MAIN | 5.553 | 5,669 | 6,679 | 5,409 | 6,045 | 7,112 | 6,979 | |
| 100 INDIANA U-PURDUE U INDPLS | 3.454 | 5,760 | 4,879 | 6,034 | 4,609 | 5,977 | | 8,129 |
| | | 2,100 | 7 1017 | 3,034 | 1,007 | 21711 | 7.756 | 8,063 |
| TOTAL 1ST 100 INSTITUTIONS | 1,310,884 | 1.548.137 | 1,572,280 | 1.754.713 | 1.868,907 | 2,029,710 | 2,316,398 | 2.833.287 |

NOTE: DATA FOR EACH YEAR REFLECT THE AGENCIES INCLUDED IN THE SURVEY SYSTEM FOR THAT YEAR.

Applied Physics Laboratory (Johns Hopkins University): \$136,140 Applied Research Laboratory (Pennsylvania State University): 12,205

SOURCE: National Science Foundation

700

^{1/} Data shown for Johns Hopkins University and Pennsylvania State University for 1978 include funding for components formerly shown separately as university-administered federally funded research and development centers. The amounts involved are as follows:

TABLE B-7. FEDERAL DBL1GAT1ONS TO UNIVERSITIES AND COLLEGES FOR FELLOWSHIPS, TRAINEESHIPS, AND TRAINING GRANTS, BY DETAILED FIELD OF SCIENCE: FY 1971 - 78

(DOLLARS IN THOUSANDS)

| F1ELD OF SC1ENCE | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 |
|---|-------------------|---------------|------------------|---------------|------------------|--------------|----------------|-----------|
| | | | <u>1</u> | | 22. 27.1 | 174.871 | 184.671 | 205,865 |
| TCTAL. ALL FIELDS | 421.029 | 367.8881 | 287.210 | 326 .600 | 201.273 | 3.049 | ! | 1,441 |
| PHYSICAL SCIENCES, TOTAL | 15.821 | 6.4031 | 3.901 | 4.051 | 3.238! | ļ | ! | 0 |
| | 5001 | 189 | 116 l 2.699 l | 117! 2,777 | 100 l 2,368 l | 116 1.998 | 2.3201 | 1.117 |
| ASTRONOMY CHEMISTRY PHYSICS | 10.2271 4.9931 | 4.7531 | 1.031 | 1.0421 | 7341 361 | 901 | | 281 43 |
| PHYSICSPHYSICAL SCIENCES, NEC | 99 | 55 l l | 55! | 115 | _ l | 1.956 | ! | 558 |
| MATHEMATICAL & COMPUTER SCIENCES. TOTAL | 9.276 | 3.866 | 3.189 | 3.975l | 2,389 | | 1.852 | 496 |
| • | N/A | N/A I | N/A | N/A ! | N/A ! | N/A N/A | 231 | 62 |
| MATHEMATICS | N/A | N/A I | N/A I | N/A I | N/A | N/A | N/A [| 0 |
| HATHEMATICAL & COMPUTER SCIENCES, NEC . | N/A | 1 | i | | 3,285 | 1,629 | 764 | 663 |
| ENVIRONMENTAL SCIENCES. TOTAL | 5,385 | 5,741 | 4.124 | 4.927 | | - | i! | 442 |
| ATMOSPHERIC SCIENCES | ': | 780 | 4461 | 5111 | | | ::: | 4 |
| CEGLOCICAL SCIENCES | 1 5,010 | 5211 4321 | 4581 4171 | 472 ! 97 ! | | 22 | 29 | |
| OCEANOGRAPHY | | 4.008 | 2.803 | 3.847 | 2.150 | l | 1! | |
| ENGINEERING, TOTAL | | 12.631 | 12.631 | 10.361 | 10.821 | ! B,100 | 10,015 | |
| | | 52 | 46 | 40 | | | | |
| AERONAUT1CAL | | 01 | 0! | 0 | | • | | 53 |
| | | 375 5,188 | 6791 6.5871 | 374 4.632 | | 3.101 | 1,032 | |
| | | 828 | 6391 | 700 | 492 | | | |
| ELECTRICAL | | 395 [| 211 | | | | 2.1.1 | |
| | | 1921 | 148 | | | • | | 7,425 |
| ENGINEERING, NEC | 11,306 | 5,601 | 4,321 | | i | ! | 118,799 | 130,840 |
| LIFE SCIENCES. TOTAL | | 223.977 | 179,222 | 225.575 | ! | i | i | ! |
| | | 62.757 | 48.784 | | | | | |
| BIOLOGICAL | 149,242 | 148 - 194 | 122,004 | ļ | ! | 1 | 1 | 1 |
| CLINICAL MEDICAL | 129,5451 | | 99,462 | | : | | | |
| OTHER MEDICAL | ' | | | i | i | i _ | 5 48 | } . |
| LIFE SCIENCES, NEC | . 1 6.050 | 13.026 | , ,,,,, | i | i | 1 | ! 1 17,274 | 16,937 |
| PSYCHOLOGY: TOTAL | 42,491 | 32,706 | 20.513 | 27,209 | l | Ί., | i | 1 |
| | | 16,893 | | | | | | |
| BIOLOGICAL ASPECTS | 16,477 | 12,799 | | | | | | |
| PSACHOFORA WEC | ' | ! | 1 | 1 | İ | 1 | 3 21.759 | 20.311 |
| SOCIAL SCIENCES. TOTAL | . 66,676 | 68.150 | ! | i | 1 | i . | i | ! . |
| ANTHROPOLOGY | 3,663 | | | | | 11 71 | 5 656 | 51 |
| | | | | | 5 12 | 51 12 | 21 130 | |
| | | | | 1.51 | 51 63 | | 61 153 | |
| | | į 418 | j 217 | 1 31 | | | | |
| POLITICAL SCIENCE | 30,811 | 32,365 | 34,787 | | | | | |
| SOCIAL SCIENCES, NEC | 29,600 | I | ! | i | 1 | i | 1 | 41 22.48 |
| OTHER SCIENCES. NEC | . 34,118 | 34.414 | 20.115 | 9.76 | | | | _1 |

NOTE: DATA FOR EACH YEAR REFLECT THE AGENCIES INCLUDED IN THE SURVEY SYSTEM FOR THAT YEAR.

TABLE B-8. FEDERAL DBLIGATIONS TO UNIVERSITIES AND COLLEGES. BY AGENCY AND TYPE DF ACTIVITY: FY 1978

| ** | | | | | | | | | |
|--------------------------------------|----------------------|------------------------------|-------------------------------------|--------|---------------------------|--|--|----------------------|--------------------------------------|
| | ! ! ! | ! ! | | ACADEM | IC SCIEN | CE | | | ! ! |
| AG ENCY | TDTAL DBLIGA- TIDNS | TGTAL ACADEMIC SCIENCE | RESEARCH AND DEVELDP- MENT | PLANT | FDR I INSTR IIN SCI | FELLOH- SHIP5, TRAINEE- SHIPS, TRAINING GRANTS | GENERAL ISUPPORT I FOR ISCIENCE | ISCIENCE ACTIVI= | I INDNSCIENCE IACTIVITIES I |
| TOTAL | 7.479.177 | 3.057.430 | 3.362.174 | 34.320 | 34 444 | 305.845 | | | |
| DEPARTMENT OF AGRICULTURE | ļ | ! | , | ŀ | t . | l . | 1 | l . | ì |
| DEPARTMENT OF AGRICULTURE | 394,815 | 391,656 | 175,269 | . 0 | | 0 | | 216,387 | 3,159 |
| DEPARTMENT OF COMMERCE | 35,919 | 35,919 | 35+042 | | 0 | . 0 | | 877 | 0 |
| DEPARTMENT OF DEFENSE, TOTAL | 952.249 | 452.249 | 452,249 | | | | | | |
| ARMY | 69,413 | 69,413 | 69,413 | Ō | i ŏ | i ō | | | |
| NAVY | | | | | | | | | |
| AIR FDRCE | | | | | | | | | |
| | 10,331 | 10, 331 | 10.331 | D | 0 | . 0 | ! 0 | ! O | 0 |
| DEPARTMENT OF ENERGY | 269 • 506 | 266,966 | 250,912 | 13,424 | 1,314 | 665 | 329 | 322 | 2,540 |
| ENVIRONMENTAL PROTECTION AGENCY | 55+844 | 54,719 | 51 - 145 | 9 | 0 | 3,565 | 0 | 0 | 1,125 |
| DEPARTMENT OF HEALTH+ EDUCATION AND | i | | ٠ | | | | | | |
| WELFARE | | | | | i oi | 184,147 | 44,677 | 4,111 | 3,512,593 |
| NATIONAL INSTITUTES OF HEALTH | | | 1,451,877 | | | | 44 - 677 | 3,993 | 0 |
| HEALTH RESDURCES ADMINISTRATION | | | | | | | | | |
| HEALTH SERVICES ADMINISTRATION | 2011241 | 3,673 | 3,673 | 0 | 0 | 0 | 0 | 0 | 55,051 |
| HEALTH ADMINISTRATION | 179.617 | 110,481 | 94 - 534 | 0 | 0 | 15.829 | 0 | 118 | 69.136 |
| CENTER FOR DISEASE CONTROL | | | | | | | | | |
| FDOD AND DRUG ADMINISTRATION | | | | | | | | | |
| DFFICE DF EDUCATION | | | 9 • 296 | . 0 | o | 4 . 403 | Ō | 0 | 2,880,307 |
| NATIONAL INSTITUTE OF EDUCATION | 22,818 | 22 +818 | 22.818 | 0 | 0 | 0 | 0 | 0 | 0 |
| DFFICE DF HUMAN DEVELOPMENT SERVICES | 68,291 | 44 001 | 34 - 314 | _ | ! | | | _ ! | |
| HEALTH CARE FINANCING ADMINISTRATION | | | | | | | | | |
| SDCIAL SECURITY ADMINISTRATION | | | | | | | | | |
| OFFICE OF HEALTH POLICY RESEARCH AND | | ĭ | i i | Ŭ | ١ | Ĭ | | | 1,007 |
| STATISTICS | 16,098 | 14,884 | 14,884 | oi | D | oj | וס | o | 1,214 |
| DTHER DHEN | 133.782 | 2,686 | 2,686 | 0 | 0 | 0 | 0 | D | 131,096 |
| DEPARTMENT OF HOUSING AND URBAN | | · | | | | | | | |
| DEVELOPMENT | 10,547 | 10,547 | 10,547 | oi | oi | oi | o | | |
| DEPARTMENT OF THE INTERIOR | 43,983 | 42,511 | 34 • 258 | o i | 46 | | | | |
| AGENCY FOR INTERNATIONAL DEVELOPMENT | | | | | | 599 | 0 | 2,593 | |
| DEPARTMENT OF LABOR | 12,613 | 12,613 | 12,613 | 0 ! | 0 | o! | 0 | 0 | 0 |
| ADMINISTRATION | 130,206 | 130,206 | 124,482 | 0 | 0 | 1,287 | 01 | 4,437 | . 0 |
| NATIONAL SCIENCE FOUNDATION | | | | | | | 23,783 | | |
| NUCLEAR REGULATORY COMMISSION | | | | | | | | | |
| DEPARTMENT OF TRANSPORTATION | 17,5861 | 17, 3481 | | | | | | | |
| | | | | 1 | L | l | i | | |



TABLE B-9. FEUERAL UBLIGATIONS TO UNIVERSITIES AND COLLEGES AND THE NUMBER OF RECIPIENT INSTITUTIONS, BY GEOGRAPHIC DIVISION, STATE, AND TYPE OF ACTIVITY: FY 1976

| | | | (100 | LAKS IN THE | | | · | | | |
|----------------------------------|--------------|-------------------|------------------------------|--------------------------------|----------------------|---|--|-----------------|-------------------------|-------------------|
| GEUGKAPHIL DIVISIUM ANU STATE | | TUTAL, ALL | TOTAL ACADEMIC SCIENCE | RÉSÉARCH AND DÉVELOPHENT | ACAU KED Plant | EHIL SCIENC FALIL FÜR INSTR IN SCI & ENG | FELLÜMSHIPS IKAINEESHIPS IKNG GRANTS | SUPPURT | ÜTHEK SCIENCÉ | NUN- SLIENCE |
| JNITEG STATES, TUTAL | AHT | 7,479,177 | 3,957,638 982 | 3,362,174 | 34,326 | 20,664 344 | 205,865 375 | 74 + 102 308 | 254,5J5 <i>a</i> 496 | ,521,534 2,705 |
| NEW ENGLAND, TUTAL | NU. AHT | 673,576 | 444,009 83 | 3d7,751 63 | 9,761 | 2,d36 3u | 24,629 30 | 4,901 26 | 14,131 59 | 229,507 222 |
| CDNNECTICUT | ND. Amī | 115,639 | 81,397 | 70,414 | 314 1 | 386 3 | 7,124 6 | 1,035 5 | 124ء 6 | 34,442 41 |
| MAINÉ | ND. AMT | 42 28,439 | 13 5,970 | | 0 | 47 3 | 105 1 | 319 2 | 1,715 3 | 22,469 24 |
| MASSACHUSETTS | .Or. THA | 25 430,692 | 7 305,500 | 268,139 | 9,335 | 1,952 | 15,347 16 | 2,748 14 | 7,00± 22 | 125,392 110 |
| NEW MAMPSHIRE | NŪ. Amt | 29,510 | 44 14,912 | 13,122 | 0 | 177 | 235 3 | 316 2 | 1,062 | 14,998 19 |
| RHOUE ISLAND | иD. AHT | 2u 37,776 | . 22,225 | | 112 | 217 2 | 463 | 263 2 | 976 3 | 15,551 11 |
| | AU. | 30,720 | 14,005 | | 1 0 | 57 | 355 1 | ∠05 1 | 1,245 | 16,715 17 |
| VERMUNT | ИL. | 1,220,170 | 650,179 | 4 | 0 8,613 | 4 4,459 | 33,623 | 9,530 63 | 24,994 80 | 559,991 417 |
| MIUDLE ATLANTIC, TOTAL | TMA . GK | 124,017 | 168 45,298 | 128 | 11 45 | 56 434 | 59 2,626 | 1,030 | 3,012 | 75+719 50 |
| NEW JERSEY | IMA UK | 55 | 23 | 3 17 | b,303 | 8 4,292 | 7 25,195 | 7 5,376 | 12,436 | 344,105 |
| NEW YURK | IMA .U. | 746,766 232 | 402,663 | υ 74 | 6 265 | 30 1,753 | 37 9,802 | 90 3,124 | 9,546 | 150,167 |
| PENNSYLVANIA | I MA • ÜK | | 199,216 5 | 5 37 | 3 | le 3,811 | 15 32,244 | 16 4,294 | 27 37,460 | 133 525,052 |
| EAST NORTH CENTRAL, TUTAL | AMT ND. | | 559,29 13 | 0 95 | 5,033 | 58 | 48 11,592 | 2,711 | 72 8,032 | 422 |
| 1LLINUIS . | AHT Nû. | | 170,21 | | 1,447 | 1,364 | 14 | 16 | 16 6,382 | 1 39 54 , 806 |
| 1 UNI ANA | IMA . ÜN | | | | 237 3 | 570 11 | 2,377 | 6 | 6,553 | 43 124,347 |
| MICHIGAN | AH1 | | | 0 95,286 3 14 | 525 2 | 733 12 | 7,026 | 2,430 | 12 | 124,855 |
| UHIU | AMA On | | | 94,304 5 26 | 0 | 658 17 | 4,768 14 | 1,949 12 | | 100 |
| H1 SCUNSIN | · AM ND | | | 9 81,d37 23 17 | 2,824 1 | 486 7 | 6,461 7 | 1,244 | | 69,015 57 |
| WEST NORTH CENTRAL. TOTAL | AM On | | |)4 202,602 96 62 | 2 | 2,032 36 | 15,617 28 | 4,193 30 | | |
| 10HA . | ' Ah | T 62,76 | | 73 33,536 12 7 | | 406 7 | 2,328 4 | 476 4 | | |
| KANSAS | AM ND | 1 67,527 | | u7 23,587 14 7 | | | 1,386 | 884 5 | | |
| MINNESDIA | AM ON | 1 128,79 | 5 71.5 | 47 59,948 24 13 | | | 4,061 5 | 1:138 6 | | |
| MISSUURI | AH | 1 145,62 | 4 01.9 | 25 65,746 23 17 | 39 | | 7,057 9 | 1,075 | | 76 |
| NEPKYZKY | ON AM | T 40.76 | 1 16,8 | |) (| | 521 3 | 164 | | |
| NDRTH DAKUTA | ND MA | 17 20195 | | | | 16 | 176 2 | 380 | | 18,562 |
| SDUTH GAKUTA | 1 M 4 A | 17 23.65 | 5 613 | · | 5 (| 15 | 86 1 | 76 | | 2 17,351 |
| SDUTH ATLANTIC, TOTAL | DK. | 17 1,296,69 | 3 647,9 | 73 553,559 | 9 2,10 | | 26,640 63 | | | |
| | , NL |). 44 4T 14,09 | 16 B,7 | | - 3 i | - i 160 | 47 | 9 | | 8 5,918 2 7 |
| OELAHARE DISTRICT OF TOLUMBIA | N | | 7 | 36,31 | - 9 94 | 7 179 | 2,052 | 2,08 | 7 1,39 | 2 163,248 7 14 |
| | N | | 14 | 8 152 65,24 | d 3 65 | 4 426 | 2,937 | 2,71 | 0 5,18 | |
| FLUKIDA | И | D. 6 | 58 | 18 1 | * | 3 6 3 267 | 2 .25 | 4,49 | 7 8,32 | |
| GE ORG I A | | | 54 | | | 2 5 | . 10 | , 1 | | |

SEE FOOTNOTES AT END OF TABLE.

TABLE 8-9. FEDERAL OBLIGATIONS TO UNIVERSITIES AND COLLEGES AND THE NUMBER OF RECIPIENT INSTITUTIONS, BY CONTINUED GEOGRAPHIC DIVISION, STATE, AND TYPE OF ACTIVITY: FY 1978

| GEUGRAPHIC DIVISION AND STATE | | TOTAL, ALL | TOTAL ACADEMIC SCIENCE | RESEARCH AND DE VELOPMEN. | RED PLANT | DEMIC SCIENC FACIL FUR INSTR IN SCI & ENG | FELLOWSHIPS TRAINEESHIPS TRNG GRANTS | GENERAL SUPPORT FOR SCI | OTHER SCIENCE | NON- SCIENCE |
|----------------------------------|------------|----------------|------------------------------|---------------------------------|---------------|--|--|-------------------------------|------------------|-----------------------|
| SOUTH ATLANTIC, CONTO | | | | | | | | | | |
| MARYLAND | AMT NO. | 308,507 50 | 247,411 23 | | 59 2 | 945 7 | 5 • 016 12 | 1:453 | 3 • 534 7 | 61+096 50 |
| HORTH CAROLINA | AMT NO. | 199,436 105 | 104,039 28 | | 60 1 | 611 8 | B•483 11 | 2,021 | 10,757 10 | 95•397 105 |
| SOUTH CAROLINA | AMT ND. | 68•76B 45 | 21,695 17 | 13,992 7 | 0 0 | 601 6 | 592 5 | 1,143 | 5 1367 7 | 47+073 44 |
| VIRGINIA | AMT ND. | 141,647 64 | 62 •68 1 2 7 | | 177 2 | 422 9 | 3,485 8 | 1,835 10 | 6,560 14 | 78,966 64 |
| HEST VIRGINIA | AMT ND. | 34,974 27 | 12,041 11 | 7,214 3 | 0 0 | 68 5 | 77 4 | 564 3 | 31921 | 22 , 933 27 |
| EAST SOUTH CENTRAL, TOTAL | AMT ND. | 424,632 196 | 160,433 65 | 110,992 51 | 3,014 3 | 697 24 | B +620 25 | 6,489 36 | 30 •621 39 | 264,199 196 |
| ALADAMA | AMT | 125,687 53 | 49 •830 22 | 34,570 17 | 2,244 | 274 9 | 3,189 6 | 1,809 | 7,744 11 | 75•857 53 |
| KENTUCKY | AMT ND. | 73,190 34 | 26,108 12 | 16,361 11 | 4 | 212 6 | . 862 | 1,081 | 7,588 9 | 47,082 34 |
| MISSISSIPPI | AMT ND. | 83,002 40 | 21,267 10 | 11,597 8 | 0 | 54 2 | 791 6 | 1,592 | 7•233 8 | 61,735 40 |
| TENNESSEE | AMT ND. | 142,753 69 | 63,228 21 | 48,464 15 | 766 1 | 157 7 | 3,778 9 | 2 • 0 0 7 1 4 | 8 • 056 11 | 79•525 69 |
| WEST SOUTH CENTRAL, TOTAL | AMT ND. | 593,127 235 | 282 •680 99 | 234,502 72 | 837 5 | 1,253 25 | 10,604 43 | 6,700 45 | 26,984 47 | 310,247 234 |
| ARKANSAS | AMT NÜ. | 50,061 28 | 17,631 12 | 11,774 | 0 0 | 43 3 | 465 7 | 167 | 5.182 | 32 • 430 28 |
| L'OUISIANA | AMT ND. | 94,428 26 | 32 , 893 16 | 24,516 10 | 0 - | 157 4 | 1,079 6 | 3 +602 9 | 5,539 10 | 61,535 26 |
| DKLAHUMA | AMT NO. | 71 • 260 40 | 23,785 15 | 16,779 10 | 0 | 227 | 1,386 | 652 5 | 4.741 | 47,475 40 |
| TEXAS | AHT ND. | 377,378 141 | 208 • 571 56 | 181,433 | 837 5 | 826 14 | 7,674 24 | 4 • 279 28 | 13•522 28 | 168,807 140 |
| MOUNTAIN, TOTAL | TMA On | 388.785 116 | 220,241 51 | 189,123 | 230 6 | 2,215 25 | 9 • 203 24 | 5,243 24 | 14.2:7 26 | 168,544 |
| AR1ZUNA | AMT Nû. | 71•867 22 | 35 • 36 6 8 | 30,122 4 | 21 | 753 5 | 1,38B 2 | 978 5 | 2+104 3 | 36,501 20 |
| COLURAUD | AMT ND. | 118,303 32 | 71,951 12 | 62,492 10 | 46 1 | 889 5 | 4,211 | 1.067 5 | 3,246 7 | 46,352 |
| IDAHU | AMT ND. | 15.928 8 | 6 • 582 | 4 • 085 3 | 12 | 45 3 | 508 · | 175 1 | 1.757 | 9,346 B |
| MONTHOM | AMT NO. | 19,637 13 | 8,527 6 | 6,280 4 | o 0 | 20 3 | 335 5 | 159 2 | 1,733 4 | 11,110 13 |
| NEVADA | AMT Nú. | 11.636 8 | 4,773 5 | 3,660 5 | 3 0 | 20 1 | 158 2 | 100 1 | 835 1 | 6,863 6 |
| NEW MEXICU | AMT ND. | 75.826 12 | 43,536 8 | 38,832 6 | 50 1 | 82 3 | 823 3 | 1,691 6 | 2,058 3 | 32,290 12 |
| UTAH | AMT ND. | 65 • 105 13 | 43 • 146 .5 | 38,729 5 | 101 | 381 4 | 1,546 | 912 3 | 1,477 | 21 , 959 12 |
| MYDMING | AMT ND. | 10,483 8 | 6 • 36 0 2 | 4,923 2 | 0 0 | 25 1 | 23 4 1 | 161 1 | 1,017 | 4.123 8 |
| PACIFIC, TUTAL | AMT ND. | 1,131,525 | 718,460 117 | 638,657 80 | 4.437 11 | 5,687 38 | 39,211 49 | 9,510 38 | 20.958 58 | 413.066 339 |
| ALASKA | AMT | 28,275 6 | 24,591 2 | 22,716 | 411 | 11 | 390 1 | 191 1 | 872 2 | 3+684 6 |
| CALIFURNIA | AMT Nů. | 800.246 23B | 523,273 80 | 467,315 53 | 3,702 7 | 4.515 23 | 29,445 33 | 7+052 27 | 11,244 37 | 276,973 233 |
| HAHAII | AMT ND | 44,070 13 | 28 • 206 4 | 24 • 864 + | 30 1 | 173 1 | 794 2 | 459 2 | 1,886 | 15.864 13 |
| UREGUN | AMT NO. | 93,217 42 | 44•285 16 | 37,416 12 | 119 1 | 370 6 | 2.132 6 | 949 5 | 3,299 | 48,932 42 |
| HASHINGTON | AMT ND. | 165,718 46 | 98 • 105 15 | 86+346 9 | 175 1 | 618 7 | 6•450 7 | 859 3 | 3,657 8 | 67.613 45 |

SEE FOOTNOTES AT END UP TABLE.

TABLE B-9. FEDERAL OBLIGATIONS TO UNIVERSITIES AND COLLEGES AND THE NUMBER OF RECIPIENT INSTITUTIONS, BY CONTINUED GEOGRAPHIC DIVISION, STATE, AND TYPE OF ACTIVITY: FY 1978

(DOLLARS IN THOUSANDS)

| | | | | | | DENIC SCIENC | F | | | |
|----------------------------------|--------------|---------------|------------------------------|--------------------------------|--------------|------------------------------------|--|-------------------------------|------------------|-----------------|
| GEOGRAPHIC DIVISION AND STATE | | TOTAL, ALL | TOTAL ACADEMIC SCIENCE | RESEARCH AND DEVELOPMENT | RED PLANT | FACIL FOR INSTR IN SCI & ENG | FELLOWSHIPS TRAINEESHIPS TRNG GRANTS | GENERAL SUPPORT FOR SCI | OTHER SCIENCE | NON+ SCIENCE |
| JUTLYING AREAS, TOTAL | AMT • On | 151,247 24 | 17,667 14 | 9,378 7 | 252 1 | 0 | 474 | 1,890 10 | 5,673 8 | 133,58C 23 |
| GUAM | AMT | 3,071 | 1,044 | 557 1 | Ç | 0 | - 3 1 | 15 1 | 469 I | 2,027 |
| PÜÉRTO ALCO | THA. | 145,192 20 | 15,269 12 | | 252 1 | 0 | 471 3 | 1,683 8 | 4,745 6 | 129,923 19 |
| AMERICAN SAMDA | AHT NO. | 411 | 0 | | 0 | 0 | 0 | 0 | 0 | 411 |
| VIRGIN ISLANDS | THA . Uh. | 2,056 | 1,359 | 703 | 0 | 0 | 0 | 192 1 | 459 1 | 702 1 |
| TRUST TERRITORY PAC ISL | THA . GN | 517 1 | C C | 0 0 | 3 0 | 0 | 0 0 | 0 | 0 | 517 |

NOTE: TABLE INCLUDES DATA FROM 14 FEDERAL AGENCIES RESPONSIBLE FOR MURE THAN 35 PERCENT OF ALL FEDERAL "OBLIGATIONS TO UNIVERSITIES AND CULLEGES.

TABLE B-1D. FEDERAL DBLIGATIONS TO UNIVERSITIES AND COLLEGES, BY GEOGRAPHIC DIVISION, STATE, AND AGENCY: FY 1078

(DDLLARS IN THOUSANDS) GEDGRAPHIC DIVISION AND STATE TOTAL USDA COM DDD DOE EPA HEN INT NASA NSE נחם DTHER UNITED STATES, TOTAL 7.479.177 394.815 35.919 452.249 269,506:55,844 5,411,826 43,983 130,206 607,119 17.586 60 - 124 NEW ENGLAND, TOTAL 673,576 16,873 5.466 39.888 62,418 3,499 436,156 922 5.072 CONNECTICUT 3,023 105 33,711 115,839 5,064 133 94.913 178 662 9.033 0 439 3,036 5,369 2,163 1,700 2,375 MAINE MASSACHUSETTS 184 2,514 1,294 23,208 249,100 21,386 119 54,799 2,214 379 1,761 28,439 430,892 14,313 1,371 0 876 15 4,512 NEW HAMPSHIRE 622 1,736 78 196 221 229 2,096 383 200 46 1,725 B,481 272 2,672 RHODE ISLAND 1,126 20,117 1,340 VE RHDNT 0 30.720 ō 105 331 MIDDLE ATLANTIC, TOTAL 1,220,170 31.439 3.152 3,619 52.047 39.332 4.279 947,287 12,404 113,589 2,924 10.098 NEW JERSEY NEW YORK PENNSYLVANIA 4,748 4,022 3,665 49B 538 746,768 349,385 2,108 21,240 24,154 11,513 2,583 1,198 591,403 260,977 1,306 74,901 27,185 7,784 7.110 13,162 304 1.708 1,761 EAST NORTH CENTRAL, TOTAL 1,084,344 56.361 3.812 40.168 35.877 10,481 795.052 3,573 4.585 12,434 TLLINDIS 578 2,621 774 2,478 240,694 78,636 178,635 174,261 8.706 34,107 12,991 6,417 505 1,898 3,241 5,163 19,374 7,007 6,492 2,679 120.287 9.748 325 16,816 21,978 13,211 15,737 248 788 734 760 11,411 1,083 85 1,741 HICHIGAN 238.897 2,670 586 90 2,389 6,231 1,156 5.810 OHID 3.600 450 589 W1SCONSIN 167,594 3.684 6,708 1.008 WEST NORTH CENTRAL, TOTAL 515,077 53.520 477 5.543 6.384 3.924 402,889 4,267 B .032 3,997 25,663 381 809 366 2,127 195 1,219 62.095 406 3.516 3.679 62 59 60 52,680 101,301 118,365 189 794 1,074 1,070 1,577 1,519 3,103 8,387 7,066 67,527 128,795 6,203 89 103 1.198 1,830 2.887 145,624 40,761 25,952 12,092 MISSDURI 35 1,828 1,145 136 0 456 421 154 31,449 19,147 17,852 45B 827 2,253 711 230 60 120 NORTH DAKOTA South Dakota 4,69C 4,08B 60 0 41 0 230 0 20 23,655 200 519 464 64 ō SOUTH ATLANTIC, TOTAL 1.296.693 73.035 4.107 176.525 28,465 12,315 907,823 , 462 15,793 66,468 2,897 4,803 DELAWARE
DISTRICT OF CDLUMB1A
FLOR1DA
GEDRGIA 967 724 .521 7.058 381 262 2.433 0 O 1,475 8,321 12,904 5,293 7,982 15,254 549 2,684 554 206,219 187,722 141,330 89 716 2,482 996 3,561 186,917 135,529 308,507 423 541 423 572 1,884 431 824 4,954 2,001 88,169 134,713 161,513 481 265 460 1,365 4,117 709 10,234 13,286 10,379 244 719 6.151 140,251 2,811 2,850 3,463 4 .9 ns NORTH CAROLINA SOUTH CAROLINA VIRGINIA WEST VIRGINIA 199,436 68,768 141,647 16,963 B,728 189 2,105 272 110 568 1 98 985 54.675 276 389 143 2,915 7,978 170 3.584 58 4,656 984 145 11.069 107,280 25,363 4,714 412 396 34,974 1,405 689 198 ō EAST SOUTH CENTRAL, TOTAL 424,632 48,740 289 4,258 13,640 1.443 340,496 9:087 641 1.052 125,687 12,732 77 1.618 374 105,331 55,109 1,351 1,064 486 2,083 80 491 KENTUCKY HISSISSIPP1 647 344 1,649 352 455 262 2,480 12.471 100 467 580 273 228 11,549 83,002 142,753 112 465 66.827 198 237 TENNESSEE 10.820 113.229 295 B40 3,372 WEST SOUTH CENTRAL . TOTAL 593.127 45.164 4,018 25,557 22,024 , 681 445,555 3,065 10,081 26,042 3,424 3.516 ARKANSAS 50,061 94,428 71,260 8,781 740 1,197 172 1,909 107 4,273 1,460 1,703 263 35,119 117 371 54 0 8,710 7,766 19,907 LOUISIANA 668 877 76,995 53,502 279,939 250 2.560 252 Ω 971 37B ,992 2,552 2,082 377.378 14,588 2,873 1,854 MDUNTAIN, TOTAL 388,785 29,303 30,719 16,202 7,871 245.200 11.470 11,720 30,918 203 3,624 AR120NA 71,867 3,619 208 1,030 1.270 2.767 8.276 O 1.217 COLDRADD IDAHD MONTANA 118,303 15,928 19,637 4,979 10 146 289 5,523 406 284 708 5,137 115 720 75,951 9,953 11,416 6,579 2,631 853 2,308 584 4,466 0 26 300 10,901 697 623 65 0 0 6,600 875 71 0 454 3.589 NEVADA 11,636 1,704 191 371 182 1.151 130 NEW MEXICO 75.826 130 271 17,339 1,942 1,044 2,105 2,487 5,760 65,105 3,035 2,085 3,941 367 6.085 42,603 1,420 1,547 108 153 WYDMING 0 224 276 509 30 PACIFIC, TOTAL 1.131.526 30.881 13.043 77,544 42,826 7,228 754,512 8,607 31,132 149,391 1.609 14.753 686 34,349 1,667 1,392 4,732 28.275 1.700 2.543 100 3,773 3,944 534,385 10.770 2,301 800,246 44,070 93,217 165,718 13,948 2,116 6,145 4,505 1,572 1,475 53,630 2,255 2,590 8,299 CALIFORNIA 26.591 4.463 114.560 1,026 9.016 480 1,082 1,793 24,438 69,277 122,468 420 361 1,062 2,135 811 1,263 56 102 370 DREGON NASHINGTON 403 727 6,972 15,084 DUTLYING AREAS, TOTAL 151,247 9.499 .0 0 2,338 123 136,856 188 0 1.468 0 775 1,002 0 2.027 39 Λ 0 0 775 PUERTO RICO AMERICAN SAMDA VIRGIN ISLANDS 133,199 411 702 110 0 39 145,192 411 0 1,282 000 0000 0 2,056 1.009 120 186 TRUST TERRITORY PAC 1SL 0 n 517 n



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INCLUDES A10, HUD, LABOR, AND NRC.
 SDURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-11. FEDERAL ACADEMIC SCIENCE OBLIGATIONS TO UNIVERSITIES AND COLLEGES, BY GEOGRAPHIC DIVISION, STATE, AND AGENCY: FY 1978

| | | BY GECCK | APHIC DI | A12104 - 3 | PIAIL 9 AN | D AULINO | ••. | | | | | | |
|--|-------------------------------|------------------|---------------------|---------------------------------|------------------|------------------|-------------------|--------------------|---|----------------------|-----------|--------------------|------------|
| | | | (D | OLLARS IN | THOUSAN | DS). | | | | | | | |
| GEOGRAPHIC DIVISION | | | | | DOE | EPA | MEW | INT | NASA | NSF | TOO | OTMER | |
| AND STATE | TOTAL | USDA | COH | DOD | | | 1,899,233 | | 20.206 | 607-119 | 17.348 | 59,712 | |
| UNITED STATES, TOTAL | 3,957,638 | | | | | | 206,859 | 2,914 | 17,654 | 82,664 | 922 | 5,072 | |
| NEH ENGLAND, TOTAL | 444,009 | 16,743 | 5,466 | 39,888 | | 3,474 | | | | 9,033 | | 439 | |
| CONNECTICUT | 81,397 | 2,242 | 134 | 3,023 | 5,064 119 | 133 22 | 60,539 765 | 128 379 | 662 0 | 1,371 | Ō | 15 | |
| MAINE | 5,970 305,500 | 3,010 5,301 | 184 2,514 | 105 33,711 | 54,799 | 2,214 | 123,776 | 1,761 | 14,313 | 61,723 1,725 | 876 46 | 4,512 106 | |
| MASSACMUSETTS New Hampshire | 14,912 | | 1,294 | 272 | 622 | | 6,393 4,656 | 196 221 | 2,096 383 | 8,481 | 70 | 100 | |
| RHODE ISLAND | 22,225 | 1,700 | 1,340 | 2,672 105 | 1,671 78 | 1,101 | 10,730 | 229 | 200 | 331 | , 0 | 0 | |
| VERMONT | 14,005 | 2,332 | U | | | | | 3,603 | 12-404 | 113,589 | 2,912 | 10,008 | |
| MIDDLE ATLANTIC, TOTAL | 650,179 | 31,370 | 3,152 | 52,047 | 39,329 | 4,264 | 377,501 | | | | 571 | 1,227 | |
| NEW JERSEY | 48,298 | 4,732 | 740 | 4.022 | 3,665 | 498 | 19,199 247,386 | 538 1,290 | 1,603 7,784 | 11,503 74,901 | 645 | 7,110 | |
| NEW YORK | 402,663 | 13,480 | 2,108 304 | 21,240 26,785 | 24,151 11,513 | 2,568 1,198 | 110,916 | 1,775 | 3,017 | 27,185 | 1,696 | 1,671 | |
| PENNSYLVAN1A | 199,218 | 13,158 | 304 | | | | | 3,342 | 20-152 | 101,849 | 4,517 | 12,359 | |
| EAST NORTH CENTRAL, TOTAL | 559,292 | 55,797 | 3,812 | 40,168 | 35,834 | 9,850 | 271,612 | | | | 505 | 1,898 | |
| | 170,214 | 12,165 | 578 | 8,706 | 12,991 | | 88,881 | | 6,417 2,598 | 34,107 16,816 | 734 | 703 | |
| ILLIND15 Ind1ana | 65,481 | 9,679 | 325 | 3,241 | 6,964 | 774 2,027 | 23,442 55,032 | | 5.810 | 21,978 | 2,670 | 2,371 | |
| M1CHIGAN | 114,550 | 11,136 12,173 | 1,083 85 | .5,163 19,374 | 2,679 | 3,420 | 49,680 | 450 | 2,647 | 13,211 | 518 90 | 6,231 | |
| OHIO | 110,468 98,579 | 10,644 | 1,741 | 3,684 | 6,708 | | 54,577 | 554 | 2,680 | 15,737 | 90 | | |
| WISCONSIN | | | 477 | 5,543 | 6,336 | 3,882 | 145,244 | 4,267 | 8,032 | 25,663 | 381 | 3,888 | |
| HEST NORTH CENTRAL, TOTAL | 256,504 | 52,791 | 4// | 51545 | | | | | 3,516 | 3,679 | 62 | . 297 | |
| AWOI | 42,573 | 9,935 | | 967 | 544 | | 22,354 15,089 | | 1,070 | | 59 | 2,127 | |
| KANSAS | 29,907 | | | 1,217 | 777 2.887 | | 44,077 | 794 | 1,577 | 8,387 | 60 | 195 1,179 | |
| MINNE SOTA | 71,547 81,925 | | | 1,828 | 1,145 | 1,095 | 54,768 | | 1,519 | | | | |
| MISSOURI Nebraska | 16,858 | 5,514 | 0 | 230 | . 408 | | | | 12) | | ō | 20 | |
| NORTH DAKOTA | 7,390 | 4,686 | | 60 43 | 4 2 1 1 5 4 | | | | 230 | | 54 | 0 | |
| SOUTH DAKOTA | 6,304 | | | | 20 340 | 12,148 | 259,75 | 7 4,409 | 15,793 | 66,468 | 2,814 | 4,745 | 1 |
| SOUTH ATLANTIC, TOTAL | 647,973 | 72,867 | . 4,107 | 176,525 | | | | | 262 | 2,433 | | | |
| DELAMARE | 8,778 | | | 724 5,293 | 521 3,830 | | | | 2 ,482 | 3,561 | . 75 | | |
| DISTRICT OF COLUMBIA | 42,971 77,152 | | | 7,982 | 4,867 | 7 2,679 | 31,76 | 9 663 | 2,001 1,365 | | | | 1 |
| FLORIDA Georgia | 71,20 | | 7 244 | 15,254 | 5,314 | | | | 4,117 | | | . B24 | ٠., |
| MARYLAND | 247,411 | 6,13 | | 140,251 | | | | | | 10,379 | 572 | | |
| NORTH CAROLINA | 104,039 | | | 2,811 568 | | | | 6 . 276 | 143 | | | | ٦, |
| SOUTH CAROLINA | 21,695 62,685 | | | 3,584 | 4,65 | 6984 | | | | | | | 1: |
| VIRGINIA Hest Virginia | 12,04 | | | 58 | 1,94 | 1 145 | 2,43 | 5 1,405 | | | 1 1 | | |
| the state of the s | 160,43 | 48,64 | 5 289 | 4,258 | 13,640 | 0 1,443 | 76,46 | 7 1,708 | 3,236 | 9,067 | 641 | 1,037 | ď, |
| EAST SOUTH CENTRAL, TOT/L | 100743. | , | | | 1,06 | 4 374 | 29,49 | 7 486 | 1,35 | 1 . 2,083 |) В(| | |
| ALABAMA | 49,83 | | | | | | B • 06 | 6 522 | 46 | 7 2,480 | | | |
| KENTUCKY | 26,10 21,26 | | | | 1,21 | 5 .455 | | | | | | | |
| MISSISSIPPI TENNESSEE | 63,22 | | | 1,649 | 10,82 | 0 262 | 33,78 | 8 233 | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | · | - |
| HEST SOUTH CENTRAL'S TOTAL | 282,88 | 0 44,98 | 3 4,018 | 25,557 | 21,52 | 7.4,56 | 136,71 | 5 2,461 | 10,08 | 1 26,042 | 2 3,42 | 100 | |
| MEZI ZOOLU CENTUALA LOLVE | | | 9 - 740 | 109 | 4,27 | 3 26: | 2,70 | 1 234 | | | | | |
| ARKANSAS | 17,63 32,89 | | | | | 0 66 | 8 15,47 | 4 250 | | | | | |
| LOUISIANA | 23,78 | | 3 172 | 2,082 | 2 1,70 | | | | | | | | |
| OKLAMOMA Texas | 208,57 | | 6 1,909 | 22,001 | 1 14,09 | 2,76 | | | | | | 8 3,568 | |
| MOUNTAIN, TOTAL | 220,24 | 1 28,40 | 7 1,555 | 30,719 | 9 15,51 | 8 7,87 | 1 78,54 | 1 11,240 | 5 11.72 | 0 30,91 | 8 17 | 5 A | |
| HUUNTAIN, TOTAL | | | 5 206 | 3,640 | e 1,03 | 30 87 | | | | | • | 0 1,217 | |
| AR 1ZONA | 35,36 71,95 | 6 3,53 | | 4,979 | 9 5,52 | 23 5,13 | | | | 6 10,90 0 69 | | 0 1,119 | |
| COLORADO 1DAHO | 6,58 | 2 3,85 | 12 _0 | | | | | | - | 6 62 | 3 | 0 454 | |
| MONTANA | 8,52 | | | | | | 1 40 | 0 58 | 4 30 | | I . | 0 130 | _ |
| NEVADA | 4,77 | | | | | | 1 13,07 | 24 1.04 | 4 2.10 | | . 10 | 0 999 B 153 | 2 |
| NEW MEXICO | 43,14 | | 78 27 | 3,94 | 1 6,00 | | | 22 1,39 87 1,36 | 9 1,54 0 50 | | 3 3 | 0 | <u>ة</u> د |
| UTAH WYDM1NG | 6,36 | | | D . 36 | 7 2 | 24 27 | | | _ | | | | |
| | 718.46 | 0 30,60 | 8 13 .04 | 3 77.54 | 4 41,7 | 51 . 7,09 | 9 343,2 | 07 8,37 | | | | 9 14,75 | |
| PACIFIC. TOTAL | man 2 man managan bangan 1988 | | and the second | the contract of the contract of | | | 0 4 | 15 2.18 | | | | 55 | 0 1 |
| ALA SKA | 24,59 523,21 | | 57 2,541 97 4,50 | 5 53,63 | 0 34,2 | 89 3,76 | 1 257,7 | 19 4,42 | 9 26,59 | 91 114,56 35 4,32 | | 76 9,01 36 4,60 | |
| CALIFORNIA | 28,20 | 06 2,0 | 94 1,57 | 2 2,25 | 5 1,3 | 04 48 | | | | | | 2 - 40 | 3 |
| MAHA11 Dregon | 44,21 | 35 6.1 | 34, 1,47 | 5 2,59 8 8,29 | 0 1,3 | 92 96 80 1,79 | | | | 63 15,06 | | 70 72 | |
| HA SHINGTON | 98,10 | 5 6,9 | 26 2,94 | 0 0,29 | | | | | | 0 1,46 | .8 | 0 77 | 5 |
| DUTLYING AREAS, TOTAL | 17,6 | 67 9,4 | 45 | 0 | 0 2,3 | 38 12 | 23 3,3 | | | | | | |
| | 1,0 | 44 1,0 | 02 | 0 ' | 0 | | 3 | | | 0 1,20 | . 0 32 | 0 77 | 5 |
| GUAM Puerto rico | 15,2 | 69 7,4 | 34 | 0 | 0 2,3 | | 0 3,3 20 | 30 11 0 3 | 10 19 | | 36 | | ó |
| VIRGIN ISLANDS | 1,3 | 54 1,0 | 09 | 0 | 0 | J 14 | | | | | | | |
| the contract of the contract o | | | | | | | | | | | | | |

[•] INCLUDES AID, HUO, LABOR, AND NRC.
SOURCE: NATIONAL SCIENCE FOUNDATION

| | | | | | | 2.22 | | | | |
|-------|--|----------------------|--------------------|--------------------|---------|--------------------------|--------------------|------------|----------------|--|
| | INSTITUTION (RANKED | • | TOTAL | RESEARCH | | CADEMIC SCI FACIL FOR | FELLOWSHIPS | GENERAL | | |
| | | TOTAL . ALL | ACADEMIC | AND | RED | INSTR IN | TRAINEESHIPS | SUPPORT | DTHER | NON- |
| RANK | | ACTIVITIES | SCIENCE | DEVELOPMENT | PLANT | SCI & ENG | TRNG GRANTS | FDR SC1 | SCIENCE | SCIENCE |
| | | | | | | | | | | 557252 |
| | UNITED STATES TOTAL | 7,479,177 | 3,957,638 | 3,362,174 | 34,328 | 26,664 | 205,865 | 74,102 | 254,505 | 3,521,539 |
| | INDIAN UNDERTHE DUTHER CTERT | , | 202 522 | | | | | | | |
| 1 | JOHNS HOPKINS UNIVERSITY! | / 212,866 130,586 | 202,533 126,604 | 196,081 114,021 | 7,082 | 846 697 | 4,826° 3,784 | 542 577 | 217 | 10,333 |
| 3 | HOWARD UNIVERSITY | 116,195 | 7,903 | 5,715 | 0,002 | 125 | 946 | 997 | 120 | 3,982 108,292 |
| | UNIVERSITY OF WASHINGTON | 105,671 | 83,370 | 76,080 | 175 | 419 | 5,477 | 571 | 648 | 22,301 |
| | UNIV OF WIS-MADISON | 99,330 | 79,896 | 65,225 | 2,824 | 324 | 5,532 | 482 | 5,509 | 19,434 |
| - | | ,,,,,,, | .,,,,, | 0,,,,,, | 2,004 | 264 | 34332 | 702 | 24307 | 177727 |
| 6 | UNIV OF CAL LOS ANGELES | 97,779 | 76,428 | 69,595 | 597 | 914 | 4,334 | 718 | 270 | 21,351 |
| 7 | STANFORD UNIVERSITY | 94,009 | 89,738 | 80,110 | 2,557 | 723 | 5,659 | 473 | 216 | 4,271 |
| 6 | UNIVERSITY OF MINNESOTA | 93,558 | 70.028 | 59,582 | 0 | 397 | 3,755 | 622 | 5,672 | 23,530 |
| 9 | HARVARD UNIVERSITY | 89,949 | 81,609 | 68,520 | 2,062 | 569 | 8,196 | 665 | 1,597 | 8,340 |
| 10 | UNIV OF CAL SAN DIEGO | 88,508 | 82,031 | 77,033 | 147 | 383 | 3,512 | 600 | 356 | 6,477 |
| *** | | | | | | | | | | |
| 10 | TAL 1ST 10 INSTITUTIONS | 1,128,451 | 900,140 | 811,962 | 15,465 | 5,397 | 46,021 | 6,247 | 15,048 | 228,311 |
| 11 | UNIVERSITY OF MICHIGAN | 86,527 | 64,895 | E0 444 | 125 | 210 | 4 (22 | 0.74 | | 20 / 22 |
| | COLUMBIA UNIV MAIN DIV | 84,941 | 73,257 | 58,444 64,687 | 140 | .316 577 | 4,632 | 874 463 | 502 | 21,632 |
| 13 | | 79,729 | 72,313 | 58,258 | 1,627 | 492 | 4,628 3,383 | 590 | 2,762 7,963 | 11,684 7,416 |
| 14 | | 78,350 | 63,174 | 56,138 | 180 | 820 | 5,316 | 515 | 205 | |
| | YALE UNIVERSITY | 67,892 | 60,733 | 53,805 | 314 | 232 | 5,812 | 437 | 133 | 15,176 7,159 |
| | | | 00,133 | 23,002 | 214 | 272 | 7,012 | 431 | 133 | 11139 |
| 16 | PENNSYLVANIA STATE UNIV 1/ | 66,767 | 52,252 | 41,974 | 10 | 135 | 1,659 | 476 | 7 •998 | 14,515 |
| | UNIV OF CAL BERKELEY | 65,720 | 55,399 | 49,663 | 0 | 823 | 4+009 | 467 | 437 | 10,321 |
| 16 | OHIO STATE UNIVERSITY | 64,107 | 43,691 | 33,983 | 0 | 223 | 1,255 | 418 | 7,812 | 20,416 |
| 19 | UNIVERSITY OF CHICAGO | 61,262 | 55,430 | 48,984 | 200 | 255 | 5,551 | 325 | 115 | 5,832 |
| 20 | UNIV OF SOUTHERN CAL | 61,039 | 45,281 | 42,458 | 28 | 479 | 1,749 | 384 | 183 | 15,758 |
| | 1.77 20 | | *** | | | | | | | |
| 101 | TAL 1ST 20 INSTITUTIONS | 1,899,785 | 1,486,565 | 1,320,356 | 18,D89 | 9,751 | 84+015 | 11,196 | 43,158 | 258,220 |
| 21 | UNIV DE CAL SAN FRANCISCO | 59,488 | £1 - 340 ·· | 44 300 | • | 24.0 | 4 201 | 201 | | |
| | UNIV OF THE URBANA | | 51,369 | | .0 | 240 | 4,291 | 386 | 64 | 8,119 |
| | NEH YORK UNIVERSITY | 58,840 | 53,010 | 42,947 | 73 | 567 | 1.760 | 399 | 7,264 | 5,830 |
| 24 | UNIVERSITY OF COLORADO | 54,905 53,375 | 42,847 35,912 | 38,235 | 42D | 48 | 3,685 | 270 | 189 | 12,058 |
| 25 | HASHINGTON UNIVERSITY | 52,162 | 47,561 | 32,091 41,974 | 46 0 | 166 302 | 2,586 4,729 | 469 449 | 554 107 | 17,463 |
| | THE STATE OF THE S | 227102 | ******** | 747717 | · | 302 | . 77167 | 777 | 107 | 4,601 |
| - 26 | UNIV DF TEXAS AT AUSTIN | 47,701 | 39,236 | 37,232 | 14. | 120 | 1,227 | 335 | 308 | 8,465 |
| 27 | DUKE UNIVERSITY | 46,870 | 40,374 | 34,632 | 60 | 158 | 4,726 | 299 | 499 | 6,496 |
| 28 | UNIVERSITY OF ROCHESTER | 46,653 | 42,355 | 33,616 | 5,682 | 217 | 2,507 | 308 | 25 | 4,298 |
| 29 | PURDUE UNIVERSITY | 44,383 | 37,014 | 29,554 | 62 | 332 | 832 | 341 | 5,893 | 7,369 |
| 30 | UNIV DF NC AT CHAPEL HILL | 43,691 | 30,188 | 26,555 | 0 | 219 | 2,680 | 642 | 92 | 13,503 |
| | | | | 5.2 | | | | | | la de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la |
| 101 | TAL 1ST 30 INSTITUTIONS | 2,352,853 | 1,906,431 | 1,683,580 | 24,446 | 12,120 | 113,038 | 15 +094 | 58,153 | 446,422 |
| | | | | | | | | | | |
| | MICHIGAN STATE UNIVERSITY UNIVERSITY OF UTAH | | 31,055 | 21.792 | 400 | 129 | 874 | 339 | 7,521 | 12,611 |
| | UNIVERSITY OF HIAMI | 42,863 - 41,713 | 31,975 28,074 | 29:352 25:744 | 101 | 224 17 | 1 • 4 3 5 8 4 2 | 820 | 43 | 10,888 |
| | UNIVERSITY OF PITTSBURGH | 41,319 | 27,737 | 25,984 | 441 | 81 | 1,030 | 858 438 | 172 204 | 13,639 |
| | UNIVERSITY OF ARIZONA | 39,534 | 30,354 | 25,828 | 9 | 636 | 1,381 | 543 | 1,957 | 9,180 |
| | | | | 277020 | • | | 17501 | 242 | .,,,, | 77200 |
| 36 | UNIVERSITY OF FLORIDA | 38,751 | 27,851 | 21,464 | 0 | 227 | 1,266 | 746 | 4,148 | 10,900 |
| 37 | UNIV OF CAL DAVIS | 38,476 | 29,997 | 27,721 | 25 | 286 | 1,120 | 736 | 109 | 8,479 |
| 38 | MORTHHESTERN UNIVERSITY | 38,401 | 30,501 | 26,635 | 1,174 | 340 | 1,861 | 332 | 159 | 7,900 |
| . 39 | INTER AM U P R-SAN GERMAN | 37,894 | 124 | 0 | 0 | 0 | 0 | 111 | 13 | 37,770 |
| 40 | UNIV ALABAMA BIRMINGHAM | 37,552 | 26,270 | 21,466 | 2,244 | 63 | 1,957 | 296 | 244 | 11,282 |
| | | | | | | | | | · | |
| 101 | AL 1ST 40 INSTITUTIONS | 2,753,022 | 2,170,369 | 1,909,566 | 28,840 | 14,123 | 124,804 | 20,313 | 72,723 | 582,653 |
| 41 | LUTHER CLTY DE 10H | 27 224 | 27 200 | 24 271 | | 207 | 2 1/2 | 202 | | |
| | LNIVERSITY OF IOWA BOSTON UNIVERSITY | 37,326 36,948 | 27,208 22,160 | 24,371 19,726 | 4 | 207 74 | 2,160 I,984 | 353 245 | 113 | 10,118 |
| | YESHIVA UNIVERSITY | 36,340 | 32,634 | 28,710 | 105 | ′3 | 1,984 3,619 | 200 | 131 | 14,788 3,706 |
| | UNIVERSITY OF NEW MEXICO | 34,786 | 19,861 | 18,392 | 105 | 48 | 421 | 641 | 359 | 14,925 |
| | CASE HESTERN RESERVE UNIV | | 27,666 | 24,730 | ŏ | 123 | 2,319 | 349 | 145 | 6,993 |
| | | 34,037 | 2,,000 | 2.,.50 | • | ••• | | | . 1, | 0.,,, |
| 46 | TEXAS AGM UNIVERSITY | 34,204 | 31,750 | 20,168 | 57 | 94 | 86 | 101 | 11,244 | 2,454 |
| 47 | U TENNESSEE KNOXVILLE | 33,329 | . 27,648 | 18,462 | 766 | 83 | 1.052 | 224 | 7,061 | 5,681 |
| | GALLAUDET CDLLEGE | 33,103 | 516 | 371 | 0 | 0 | 79 | 0 | 66 | 32,587 |
| | RUTGERS THE ST UNIV DF NJ | | 16,820 | 13,537 | 0 | 124 | 403 | 211 | 2,545 | 15,732 |
| 50 | UNIVERSITY OF KENTUCKY | 31,988 | 19,721 | 11,921 | 4 | 146 | 642 | 271 | 6,737 | 12,267 |
| | | 2 222 25- | 2 204 252 | 2 200 Gr | | | | | | |
| . 101 | AL. 1ST50 INSTITUTIONS | 3,098,257 | 2,396,353 - | 2,D89,954 | 29,776 | 15,022 | 137,569 | 22,908 | 101,124 | 701,904 |

SEE FOOTNOTES AT END OF TABLE.



37

FEDERAL OBLIGATIONS TO THE 100 UNIVERSITIES AND COLLEGES RECEIVING THE LARGEST AMOUNTS, BY TYPE OF ACTIVITY: FY 1978 TABLE B-12. CONTÍNUEO

(DOLLARS IN THOUSANDS)

| | | | | | | | : | | | |
|------|--|------------------|------------------|------------------|-------------|-----------------------|-----------------|----------|----------|---|
| | | | | | AI | CADEMIC SCI | FELLOHSHIPS | GENERAL | | |
| | INSTITUTION (RANKED | | TOTAL | RE SE ARCH | 0.00 | FACIL FOR | TRAINEESHIPS | SUPPORT | DTHER | NON- |
| | BY TOTAL FEDERAL | TOTAL, ALL | A CA DEM1C | AND | RED | INSTR IN SCI & ENG | TRNG GRANTS | FOR SCI | SC1ENCE | SC1ENCE |
| RANK | DBL1GAT1ONS) | ACT 1V 1T 1ES | SC1ENCE | DEVELOPMENT | PLANT | SCI & CNO | I KING GIVANITO | | | |
| | | | | 20 104 | 74.1 | 293 | 1,425 | 196 | 148 | 398 |
| 51 | CALIFORNIA INST OF TECH | 30.907 | 30.509 | 28,106 | 34 1 3 9 | 20 | 1,161 | 204 | 6,695 | 8,318 |
| 52 | UNIV OF MISSOURI COLUMBI | A 30,113 | 21,795 | 13.676 | . 0 | -0 | 1,013 | 200 | 0 ' | 2,353 |
| 5.3 | SAYLOR COL OF MEDICINE | 30,042 | 27,689 | 26,476 | | 595 | 607 | 205 | 2,174 | 5,065 |
| 54 | COLORADO STATE UNIVERSIT | Y 29.017 | 23,952 | 20.371 18.883 | 57 | 268 | 1,545 | 264 | 61 | 7.835 |
| 55 | UNIVERSITY OF VIRGINIA | 28,913 | 21,078 | 10,003 | | 200 | -• | | | |
| | | | | 19,347 | 38 | 54 | 410 | 109 | 2 .8 29 | 5,775 |
| 56 | UNIV OF HD COLLEGE PARK | 28.562 | 22,787 | 13,799 | - 0 | 87 | 445 | 327 | 4,956 | 8.287 |
| 57 | LOUISIANA STATE UNIV | 27,901 | 19,614 | 10,602 | ŏ | 387 | 284 | 146 | 2,727 | 13.730 |
| 58 | UNIV OF MASS AT AMHERST | 27.876 | 14,146 | 16,179 | 0 | 60 | 1,055 | 587 | 201 | 9,459 |
| 59 | UNIVERSITY OF KANSAS | 27.541 | 18,082 | 18,532 | 119 | 159 | 500 | 262 | 2,687 | 5,203 |
| 60 | DREGON STATE UNIVERSITY | 27,462 | 22,259 | .07750 | | | | | | |
| | | | 2,618,264 | 2,275,925 | 30.370 | 16,945 | 146,014 | 25,408 | 123,602 | 768,327 |
| TC | TAL 1ST 60 INSTITUTIONS | 3,366,591 | 2,010,201 | 2,2,3,,40 | | | | | | |
| | | 34 303 | 12,181 | 10,949 | 45 | 121 | 683 | 174 | 209 | 14,202 |
| 61 | I INDIANA UNIV-BLOOMINGTON | 26,383 | 19,536 | 17.233 | 30 | 173 | 791 | 399 | 910 | 6+348 |
| 62 | UNIV OF HAHAII-MANDA | 25.884 25.845 | 13.412 | 12,559 | Ō | 0 | 550 | 267 | 36 | 12.433 |
| 6 | TEMPLE UNIVERSITY | | 18.563 | 14,923 | 0 | 149 | 1,138 | 512 | 1,841 | 6,963 2,724 |
| 64 | UNIVERSITY OF CONNECTICE | 25.050 | 22,326 | 20,139 | 0 | 38 | 1.811 | 279 | 59 | 2,124 |
| 6: | VANDERBILT UNIVERSITY | 251050 | | | | | | | | 1 6 22 |
| _ | 105717075 DE 756 | H 24.877 | 23,355 | 22.122 | 19 | 164 | 648 | 243 | 159 | 1,522 |
| 6 | GEORGIA INSTITUTE OF TEC | 24,695 | 18,513 | 16,260 | 50 | 17 | 187 | 319 | 1,680 | 6,182 6,497 |
| 6 | 7 NEW MEXICO STATE UNIV | | 16,970 | 16,592 | 0 | . 0 | 234 | 144 | 0 855 | 1,433 |
| - 01 | B UNIV OF MD BALT PROF SCH 9 UNIV OF ALASKA-FAIRBANKS | | 21.991 | 20,133 | 411 | 11 | 390 | 191 | | 2,287 |
| 0. | ON C STATE UNIV AT RALEI | | 21,028 | 11,436 | 0 | 170 | 170 | 121 | 9,131 | 2,20, |
| , | D M C STATE ONTY AT MAEET | | | | | | | 20 257 | 120 402 | 828,918 |
| - | DTAL 1ST 70 INSTITUTION | 5 3.635.057 | 2,806,139. | 2,438,271 | 30,925 | 17,788 | 152.616 | 20,007 | 138,482 | 0207720 |
| 11 | UIAL IST TO INSTITUTE | | | | | | E44 | 200 | . 0 | 609 |
| 7 | 1 U TEX-ANDRSN HOSPETUMOR | 1 23,301 | 22,692 | 21,213 | 735 | _0 | 544 193 | 104 | 5,598 | 2,523 |
| , | 2 VA POLYTECH INST & ST U | 23,090 | 20,567 | 14,501 | 120 | 51 | 343 | 239 | 7,079 | 773 |
| | 3 UNIVERSITY OF GEORGIA | 22.876 | 22,103 | 14,180 | 184 | . 78 | 823 | 427 | 360 | 10,608 |
| , | | 22,732 | 12,124 | 10,385 | 0 | 129 | 608 | 168 | 41 | 8,375 |
| | 5 UNIVERSITY OF CINCINNAT | 1 22,631 | 14,256 | 13.362 | 0 | 77 | 800 | 100 | • | 70.7 |
| | , dillerally or our | - | | | | 0 | 1,123 | 200 | 70 | 2,056 |
| 7 | 6 CUNY MT SINAL SCH OF ME | D 22,317 | 20,261 | 18.868 | 0 | ŏ | 1,635 | 393 | 276 | 3,823 |
| 7 | 7 U TEX HLTH SC1 CTR-DALL. | AS 22,211 | 18,385 | 16,084 | 0 | 139 | 333 | 181 | 2.879 | 9,815 |
| 7 | B WASHINGTON STATE UNIV | 22,178 | 12,363 | 8,831 | | 4 | 330 | 0 | 1,649 | 0 |
| ż | 9 WOODS HOLE OCNGRPHIC IN | ST 21,465 | 21,465 | 19,621 | 191 | 42 | 355 | 205 | 1,233 | 7,196 |
| . 8 | O UNIV OF VT & ST AGRIC C | DL 21,090 | 13,894 | 12,059 | 0 | . 72 | ,,, | | | |
| _ | | | | 2 507 175 | 32,155 | 18,308 | 158,573 | 30,174 | 157,667 | 874,696 |
| T | OTAL 1ST BO INSTITUTION | S 3,858,948 | 2,984,252 | 2,587,375 | 32 11 33 | 10,7500 | | | | |
| | A Committee of the Comm | 24 | 10 027 | 16,759 | 43 | 209 | 1,679 | 117 | 20 | 1,894 |
| 8 | 1 PRINCETON UNIVERSITY | 20,721 | 18,827 | 11,368 | ō | | 1,306 | 260 | 85 | 7,426 |
| 8 | 2 V1RG1N1A COMMONHLTH-UNI | V20,456 | 13,030 | 9,511 | 127 | | 638 | 77 | 25 | 9,771 |
| 8 | 3 FLORIDA STATE UNIVERSIT | Y 20.303 | 10,532 14,879 | 13,155 | | | 1,204 | 351 | 116 | 5,308 |
| 8 | A SUNY AT BUFFALD | 20,187 | . 14,019 | 13,11,0 | ŏ | | 0 | 0 | . 0 | 19,942 |
| . 8 | 5 PUERTO RICO JR COL | 19,942 | U | | _ | | | | | 4 540 |
| | | 19,896 | 13,336 | 11,595 | 947 | | 368 | 360 | 52 | 6,560 11,176 |
| | 6 GEORGETOWN UNIVERSITY | | 8,659 | 7,924 | O | . 0 | 498 | 237 | 0 | |
| | 7 UNIV OF ILL MED CTP CHG | 19,459 | 8 879 | 7,347 | 0 | 128 | 1,033 | 248 | 123 | 10,580 |
| 8 | 88 UNIV OF OKLAHOMA | | 58 | 0 | 0 | 13 | . 0 | 145 | . 0 | 19,212 |
| | 9 CITY COLLEGES OF CHICAGO TOWN ST U OF SCI & TECH | 19,248 | 14,094 | 8,958 | 0 | 161 | 92 | 96 | 5,587 | 7,337 |
| , | O TOMA ST U UP SCI & ILCO | 1,,, | | * | | | 1/5 201 | 32.065 | 163,675 | 970,919 |
| | TOTAL 1ST 90 INSTITUTION | 4.058.365 | 3,087,446 | 2,673,992 | 33,272 | 19,051 | 165,391 | 32 1003 | 1037012 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| | 101AL 131 90 1.1311101101 | | | | | | 140 | 182 | 4 , 1 24 | 6.221 |
| | O LAHOMA STATE UNIVERSI | TY 18,926 | 12,705 | 8,181 | 0 | | | 200 | 77727 | 0 |
| | 2 ROCKEFELLER UNIVERSITY | 18,868 | 18,868 | | . 0 | | 1,195 | 188 | 233 | 4,903 |
| | 93 GEORGE WASHINGTON UNIV | 18,842 | 13,439 | 13,003 | | | 484 644 | 287 | 279 | 4,400 |
| | 94 EHDRY UNIVERSITY | 18,540 | 14,140 | 12 • 921 | 9 | | 133 | 20 | 6,437 | 5,248 |
| | 5 HISSISSIPPI STATE UNIV | 18,283 | 13,035 | 6,445 | C | 0 | 133 | | 2 | |
| | | | | | | . 48 | 4 5 4 | 14 | 6,132 | 5,521 |
| | 96 AUBURN UNIVERSITY | 18,126 | 12,605 | | (| | 325 | 117 | 192 | 3,018 |
| | 97 CARNEGIE MELLON UNIV | 17,699 | 14,681 | | 7 | | 916 | 453 | 60 | 4,263 |
| | 98 UNIV OF CAL IRVINE | 17,624 | 13,361 | | . (| | 735 | 210 | 3 + 364 | 5,931 |
| | 99 MEST VIRGINIA UNIVEKSI | TY 17,357 | 11,426 | | 320 | | 696 | 258 | 63 | 3,176 |
| 1 | OO SUNY AT STONY BROOK | 17.173 | 13,997 | 12.372 | 329 | , 617 | 2,0 | 230 | * | |
| | | | | 2.702.011 | 33.676 | 20,000 | 171.113 | 33,994 | 184,559 | 1,013,600 |
| | TOTAL 1ST 100 1NST1TUT10 | NS 4,239,803 | 3,226,203 | 2,782,861 | 221016 | | | | | |

NOTE: TABLE INCLUDES DATA FROM 14 FEDERAL AGENCIES RESPONSIBLE FOR MORE THAN 95 PERCENT OF ALL FEDERAL OBLIGATIONS TO UNIVERSITIES AND COLLEGES.

Applied Physics Laboratory (Johns Hopkins University): \$136.140 Applied Research Laboratory (Pennsylvania State University): 12.205

SOURCE: National Science Foundation

^{1/} Total and R&O data for Johns Hopkins University and Pennsylvania State University include funding for components formerly shown separately as university-administered federally-funded research and development centers. The amounts involved are as follows:

TABLE B-13. FEDERAL OBLIGATIONS TO THE 100 UNIVERSITIES AND COLLEGES RECEIVING THE LARGEST AMOUNTS. BY AGENCY: FY 1978

(DOLLARS IN THOUSANDS)

| | INSTITUTION (RANKED | | | | | | | | | | | | |
|----------|--|----------------------|-----------------|------------|----------------|----------------|------------|-------------------|------------|----------------|---------------------|------------|----------------|
| | BY TOTAL FEOERAL | | | CDM | DOD | | ·EP A | WE | . 1NT | NA SA | NSF | DOT | OTHER* |
| RANK | OBL 1GAT IONS) | TOTAL | USDA | CUM | טטט | DOE | ·EPA | HEW | 141 | NASA | NOF | 001 | O , ME K |
| | UNITED STATES TOTAL | 7,479,177 | 394,815 | 35.919 | .452,249 | 269,506 | 55.844 | 5.411.826 | 43,983 | 130.206 | 607.119 | 17,586 | 60+124 |
| 1 | JOHNS HOPKINS UNIVERSIT | | 346 | 89 | 137,344 | 1,386 | 1,098 | 65,481 | 51 | 1,275 | 5.020 | 366 | 410 |
| 2 | HASS INST OF TECHNOLOGY | | 385 | 1.926 | 15,273 35 | 49.044 173 | 608 188 | 26,280 114,130 | 1,124 | 9,154 626 | 25 •100 863 | 820 158 | 872 0 |
| 9 | HOWARD UNIVERSITY UNIVERSITY OF WASHINGTO | 116,195 N 105,671 | 17 910 | 2,466 | 7,797 | 4,157 | 1,028 | 73,915 | 412 | 1,209 | 12.925 | 255 | 597 |
| 5 | UNIV OF WIS-HADISON | 99,330 | 10,656 | 0 | 3.395 | 6.521 | 7 | 61.799 | 529 | 2,563 | 13,658 | . 15 | 187 |
| 6 | | 97,779 | 329 | 15 | 4,289 | 9,899 | 61 | 69,738 | 138 | 2.073 | 10.431 | 65 | 741 |
| 7 | | 94+009 | 112 | 433 | 9.735 | 4.504 | 539 | 49,161 | 264 | 5,955 | 22,949 | 154 | 203 |
| B 9 | UNIVERSITY OF MINNESOTA HARVARO UNIVERSITY | 93,558 89,949 | 10,458 524 | 4 323 | 1,198 3,046 | 2,887 2,059 | 1.830 | 67,181 66,994 | 793 49 | 1,558 4,246 | 7.394 10.763 | 60 0 | 195 1,515 |
| 10 | | 88.508 | 115 | 3.612 | 11,226 | 2.348 | 142 | 36,010 | 241 | 4,827 | 29,987 | ŏ | 0 |
| TO | TAL 1ST 10 INSTITUTION | 5 1.128.451 | 23,852 | 8,868 | 193.338 | 82,983 | 5.931 | 630,689 | 3,601 | 33,486 | 139,090 | 1,893 | 4,720 |
| | UNIVERSITY OF HICHIGAN | 86,527 | 341 | 1,063 | 3,260 | 3,051 | 1,651 | 56,706 | 41 | 5,636 | 11,016 | 2,670 | 1.092 |
| 12 13 | | 84,941 79,729 | 0 12.623 | 153 0 | 4,875 2,337 | 2,439 2,950 | 118 720 | 54.587 33.671 | 458 548 | 2,572 1,289 | 16,252 24,092 | 50 | 3,487 1,449 |
| 14 | | 78,729 | 12.023 | 5 | 3.785 | 2,531 | 31 | 61,373 | 17 | 248 | 9,186 | 252 | 907 |
| 15 | | 67.892 | 74 | 60 | 2,052 | 4,701 | 72 | 53,635 | Ó | 236 | 6 .638 | Ō | 424 |
| | PENNSYLVANIA STATE UNIV | | 13,086 | 173 | 15,415 | 2,598 | 506 | 27,442 | | 842 | | 445 | 80 |
| 17 | | 65,720 | 1,633 | .0 | 9.277 | 2,987 | 315 | 28,352 | 911 | 4,439 | 15.736 | 134 278 | 1,936 5,814 |
| 18 19 | OMIO STATE UNIVERSITY LNIVERSITY OF CHICAGO | 64.107 61.262 | 12.076 100 | 32 0 | 4,185 520 | 1,041 | 1,650 | 34,332 42,706 | | 4,780 | 3.564 8.823 | 210 | 93 |
| žó | | 61.039 | 48 | 215 | 11.597 | 1.603 | 227 | 40,249 | 612 | 615 | 5,356 | 226 | 29 1 |
| TO | TAL 1ST. 20 INSTITUTION | 5 1.844.785 | 63,848 | 10,569 | 250.641 | 111.124 | 11.221 | 1,063,742 | 8,147 | 54.843 | 244.409 | 5,948 | 20,293 |
| 21 | | CD 59.488 | 0 | 0 | 254 | 1.699 | 43 | 56,246 | 0 | 187 | 1,059 | 0 | . 0 |
| 22 | •11.1 | 58.840 | | . 0 | 4.962 | 6,495 | 2.065 | 17.870 | 768 | 992 | | 55 | 7 . |
| 23 24 | NEW YORK UNIVERSITY UNIVERSITY OF COLORADO | 54,905 53,375 | 25 337 | 850 | 1,314 1,881 | 3,379 2,048 | 364 202 | 44,058 39,369 | 252 623 | 516 2,733 | 4,444 5,307 | 0 | 553 25 |
| 25 | | 52.162 | ó | 65 | 472 | 5 26 | 511 | 45,238 | | 1,209 | 3,541 | Ŏ | 595 |
| 26 | UNIV OF TEXAS AT AUSTIN | 47,701 | 28 | 71 | 15,875 | 7,206 | 378 | 13.945 | 4 4 5 | 2,787 | 6,510 | 183 | 273 |
| 27 | DUKE UNIVERSITY | 46,870 | 94 | 0 | 1,288 | 1,209 | 311 | 40,099 | 0 | 131 | 3,708 | . 5 | : 25 |
| 28 29 | | 46.653 44.383 | 9.602 | 0 241 | 3.186 2.645 | 10,718 | 654 | 27.998 15.754 | 0 205 | 65 2,220 | 4 • 68 6 8 • 160 | 0 20 | 0 649 |
| 30 | | LL 43.691 | 109 | 39 | 702 | 381 | 2,162 | 36,294 | 118 | 30 | 3,675 | 81 | 100 |
| TO | TAL 1ST 30 INSTITUTION | S 2,352,853 | . 85 , 822 | 11,835 | 283,220 | 149.018 | 17,911 | 1,400,613 | 10,563 | 65,713 | 299.346 | 6,292 | 22,520 |
| 31 | HICHIGAN STATE UNIVERSI | | | 20 | 571 | 2,332 | 665 | 21.001 | 1 34 | 120 | 6.901 | 0 | 1,014 |
| 32 | | 42,863 41,713 | 51 0 | 227 60 | 823 2,497 | 5.535 1.151 | 116 828 | 30,447 29,947 | 758 67 | 496 308 | 4.355 6.605 | 250 | 0 |
| 33 | | | 58 | 126 | 1,499 | 599 | 216 | 33,984 | 54 | 927 | 3,491 | 185 | 180 |
| 35 | | 39,534 | 3.358 | 23 | 3.382 | 860 | 864 | 20.611 | 1.019 | 2,189 | 6,347 | 0 | 881 |
| 36 | UNIVERSITY OF FLORIDA | 38,751 | 7,267 | 28 | . 1.710 | 2,779 | 1 +044 | 20,444 | 253 | 859 | 3,694 | 173 | 500 |
| 37 | UNIV OF CAL DAVIS | 38.476 | 2,859 | 0 | 462 | 3,490 | 323 | 22,197 | 380 | 160 | 3,927 | 0 | 4,678 |
| 38 | NORTHWESTERN UNIVERSITY INTER AM U P R+SAN GERM | | 120 0 | 0 | 1.646 | 1,200 | . 11 | 27,083 37,770 | 250 0 | 154 | 6,489 124 | 106 | 1+342 |
| 40 | | | 80 | ő | 128 | 66 | Ö | 36,573 | ŏ | 96 | 609 | . ŏ | ŏ. |
| TO | TAL 1ST 40 INSTITE | \$ 2,753.022 | 110,523 | 12.319 | 295,938 | 167.030 | 21,978 | 1,680,670 | 13,478 | 71,022 | 341,888 | 7,061 | 31,115 |
| . 41 | UNIVERSITY TO THE | 37.326 | 1 | 0 | 764 | 246 | 390 | 30.638 | o | 3,282 | 1.908 | 62 | 35 |
| 42 | | 36,948 | 127 | 0 | 941 | 295 | 0 | 34,045 | | 149 | 1,118 | 0 | 273 |
| 43 | | 36,340 | 0 81 | 0 130 | 251 5,283 | 0 367 | 0 25 | 35,469 26,313 | 0 519 | 25 410 | 595 1,163 | . 0 | 0 495 |
| 45 | UNIVERSALY OF NEW MEXIC CASE KESTERN RESERVE UN | | 12 | 53 | 1,139 | 1.056 | 184 | 26,379 | 7.0 | 953 | 4.663 | 175 | 45 |
| .46 | TEXAS AGM UNIVERSITY | 34,204 | 16,982 | 1,598 | 1.838 | 9 2 5 | 104 | 4.103 | 375 | 1,301 | 5.101 | 1,847 | 30 |
| 47 | U TENNESSEE KNOXVILLE | 30,329 | 10,083 | 62 | 1.300 | 10,536 | 119 | 9.409 | 163 | 538 | 1.119 | . 0 | 0 |
| 40 | | 33,103 | 0 | . 130 | 0 488 | 0 299 | 0 205 | 33.018 21.608 | 0 449 | 0 60 | 85 3,840 | 0 40 | 0 695 |
| 49 50 | | NJ 32.552 31.988 | 4,748 10,814 | 120 100 | 423 | 541 | 322 | 17,380 | 453 | 298 | 1,371 | 273 | 13 |
| TO | TAL 1ST 50 1NST1TUTION | S 3,0°6,257 | 153.371 | 14,382 | 308.365 | 181.295 | 23.327 | 1.919.032 | 15,437 | 78.038 | 362.851 | 9.458 | 32,701 |

SEE FOOTNOTES AT ENO OF TABLE.

70) -(Color €0) TABLE 8-13. FEDERAL OBLIGATIONS TO THE 100 UNIVERSITIES AND COLLEGES RECEIVING THE LARGEST AMOUNTS. CONTINUED

RY AGENCY: FY 1978

(DDLLARS IN THOUSANDS)

| RANI | INSTITUTION (RANKED BY TOTAL FEDERAL K DBLIGATIONS) | TOTAL | USDA | СОм | 000 | ODE | EPA | HEW | INT | : NASĀ | NSF | TOO | DT HER* | |
|------|---|--|------------------------------------|-----------------------------|---|---|-----------------------------------|--|----------------------------------|-----------------------------------|--|---------------------------|------------------------------|---|
| : 5 | 3 BAYLOR COL OF MEDICINE 4 COLORADO STATE UNIVERSITY | 30,907 30,113 30,042 29,017 | 20 10,531 0 6,223 | 80 0 0 25 | 2,743 703 197 1,273 1,056 | 4,130 314 0 2,176 1,702 | 141 579 162 2+120 188 | 7,956 15,587 29,255 10,441 21,570 | 8 35 4 35 0 8 10 3 7 | 3,820 159 266 821 522 | 11.182 1.664 156 3.998 3.482 | 0 0 0 60 266 | 0 141 6 1.070 65 | |
| 5 | 5 UNIVERSITY OF VIRGINIA 6 UNIV OF MD COLLEGE PARK 7 LOUISIANA STATE UNIV 8 UNIV OF MASS AT AMHERST | 28,913 28,562 27,901 27,876 | 0 4.361 7.378 4.272 | 25 0 1-,165 131 | 2.407 933 1.231 | 3,495 1,409 448 | 973 386 324 | 7.614 15.147 16.149 | 214 201 213 | 2 • 4 2 0 0 2 6 2 | 6,956 1,273 4,703 | 57 0 56 59 | 65 9 87 864 | |
| 5 | 9 UNIVERSITY OF KANSAS O DREGON STATE UNIVERSITY | 27,541 27,462 | 152 5•983 | 0 1 • 4 7 5 | 659 1,827 | 75 971 | 89 873 | 22,972 | 20 361 | 850 351 | 1 • 78 1 5 • 5 1 4 403 • 5 60 | 102 | 403 | |
| T | DTAL IST 60 INSTITUTIONS | 3,386,591 | 192•291 | 17.283 | 321.394 | | | 2,075,325 | | | 6,274 | 245 | 0 | |
| 6 | 1 INDIANA UNIV-BLODMINGTON 2 UNIV OF HAWAII-MANDA 3 TEMPLE UNIVERSITY 4 UNIVERSITY OF CONNECTICUT 5 VANDERBILT UNIVERSITY | 26,383 25,884 25,845 25,526 25,050 | 48 147 0 2•186 150 | 0 62 0 74 0 | 294 2•255 188 952 180 | 727 1.667 150 338 193 | 0 0 100 55 83 | 18.615 14.878 24.070 19.706 23.102 | 43 360 0 128 0 | 137 2•135 72 426 138 | 4.324 940 1.646 1.164 | 56 0 0 | 0 325 15 40 | |
| 6 | 66 GEDRGIA INSTITUTE DF TECH 67 NEM MEXICO STATE UNIV 68 LNIV DF MD BALT PROF SCH UNIV DF ALASKA-FAIRBANKS 70 N C STATE UNIV AT RALEIGH | 24,877 24,695 23,467 23,424 23,315 | 0 4,696 0 1,617 14,517 | 200 0 0 0 0 | 14,795 9,037 410 10,770 663 | 2 • 4 76 1 • 1 43 0 686 459 | 39 32 450 100 918 | 3+205 7+129 22+251 1+736 4+236 | 286 171 0 2•301 322 | 938 1,650 38 332 303 | 2,329 837 318 5,827 1,820 | 378 0 0 55 70 | 231 0 0 0 7 | |
| | • | 3,635,057 | 215+652 | 17.619 | 360,938 | 203 +854 | | 2,214,253 | | | | 10,862 | 36+049 | |
| 1 | 71 U TEX-ANORSN HDSP&TUHDR 1 72 VA POLYTECH INST & ST U 73 UNIVERSITY OF GEORGIA 74 HAYNE STATE UNIVERSITY 75 UNIVERSITY OF CINCINNATI | 23,301 23,090 22,876 22,732 22,631 | 0 9,636 11,393 25 34 | 160 44 0 0 | 0 1,851 334 611 1,121 | 2,900 2,681 699 310 | 0 88 260 0 1•594 | 22,976 3,835 4,139 19,630 18,184 | 0 331 195 0 0 | 0 1,500 84 27 212 | 325 2.617 3.746 1.740 1.176 | 75 0 0 0 | 97 0 0 0 | |
| | 76 CUNY HT SINAI SCH DF HED 77 U TEX HLTH SCI CTR-DALLAS 78 WASHINGTON STATE UNIV 79 HODOS HOLE DCNGRPHIC INST 80 UNIV DF VT & ST AGRIC COL | 22,317 22,211 22,178 21,465 21,090 | 0 0 6,054 0 2,345 | 0 0 175 114 0 | 8 0 314 6•793 105 | 0 0 575 1,263 68 | 0 0 656 34 0 | 21,339 21,834 12,380 0 17,848 | 229 | 0 35 41 0 200 | 214 342 1,554 13,151 295 | 0 0 65 0 | 756 0 0 0 0 | |
| | TOTAL 1ST 80 INSTITUTIONS | 3,858,948 | 245 • 139 | 18.112 | 372,075 | 212,350 | 33,571 | 2,356,418 | | | 454,199 | 4. | 36,902 | |
| | 81 PRINCETON UNIVERSITY 82 VIRGINIA COMMONHLTH UNIV 83 FLORIDA STATE UNIVERSITY 84 SUNY AT BUFFALD 85 PUERTO RICO JR COL | 20,721 20,456 20,303 20,187 19,942 | 0 0 85 0 | 248 0 1,392 0 0 | 2,438 443 1,088 756 | 3 • 1 2 0 0 8 7 0 1 4 8 0 | 253 299 6 | 6,472 19,324 12,641 16,384 19,942 | 89 0 215 0 | 1 •533 30 166 44 0 | 5,917 406 3,129 2,774 | 511 0 0 75 0 | 233 0 418 0 0 | 1 |
| | 86 GEDRGETOHN UNIVERSITY 87 UNIV DF ILL HED CTR CHGD 88 UNIV DF DKLAHDHA 89 CITY COLLEGES DF CHICAGD 90 10MA ST U DF SCI & TECH | 19,896 19,835 19,459 19,370 19,248 | 186 0 71 0 10•318 | 0 | 927 0 316 0 203 | 3•092 0 331 0 298 | 0 346 0 407 | 15.020 19.633 15.335 19.212 5.553 | 0 333 | 15 0 135 0 234 | | 0 0 175 0 0 | 0 524 0 331 | 1 |
| | TOTAL 1ST 90 INSTITUTIONS | 4,058,365 | 255,799 | 19,889 | 378 • 246 | 220 + 209 | 35+042 | 2,505,934 | | | 470 • 232 | | 38+408 | |
| | 91 DKLAHDMA STATE UNIVERSITY 92 ROCKEFELLER UNIVERSITY 93 GEDRSE MASHINGTON UNIV 94 EMDRY UNIVERSITY 95 MISSISSIPPI STATE UNIV | 18,926 18,868 18,842 18,540 18,283 | 0 | 50 | 1.766 91 2.388 79 196 | 157 | 60 219 7 43 | 17,441 | 0 0 0 190 | 277 0 1,533 194 456 | 2,232 900 626 95 | 203 0 0 198 | 167 214 99 0 227 | |
| . 1 | 96 AUBURN UNIVERSITY 97 CARNEGIE MELLON UNIV 98 UNIV DE CAL IRVINE 99 WEST VIRGINIA UNIVERSITY 100 SUNY AT STONY BROOK | 18,126 17,699 17,624 17,357 17,173 | 75 75 5 • 1 74 | 0 0 | 740 58 110 | 3,8',256 ,1,373 1,682 528 | 5 40 3 151 2 135 3 1 | 5,32 11,92 8,28 10,20 | 148 0 7 1.405 3 22 | | 4,417 2,963 418 5,488 | 144 237 198 0 | 0 0 0 | |
| | TOTAL 1ST 100 INSTITUTIONS | 4+2,39+803 | 287,562 | 20,051 | 388,781 | 230.637 | 7 36,518 | 2,606,60 | 27,029 | 101.570 | 1881/02 | 12+143 | 37,000 | |

[#] INCLUDES A10. HUO. LABOR. AND NRC.

Applied Physics Laboratory (Johns Hopkins University): \$136,140 Applied Research Laboratory (Pennsylvania State University): 12,205

SOURCE: National Science Foundation

^{1/} Total and DOD data for Johns Hopkins University and Pennsylvania State University include funding for components formerly shown separately as university-administered federally funded research and development centers. The amounts involved are as follows:

TABLE B-14. FEDERAL OBLIGATIONS FOR ACADEMIC SCIENCE TO THE 100 UNIVERSITIES AND COLLEGES RECEIVING THE LARGEST AMOUNTS, BY AGENCY: FY 1978

| | | | | | OULLAND I | | | | ~~~. | | | | | |
|--------|--|--|-------------------------------------|--------------------------------------|---|--|-------------------------------------|--|----------------------------------|---|--|-------------------------------|---------------------------------------|-----|
| RAN | INSTITUTION (RANKED BY AMOUNT RECEIVED) | TOTAL | USDA | СОМ | 000 | 00E | EPA | HEM | INT | NA S A | NSF | 001 | OTHER# | |
| | UNITED STATES TOTAL | 3,957,638 | 391.656 | 35,919 | 452,249 | 266,966 | 54,719 | 1,899,233 | 42,511 | 130,206 | 607,119 | 17.348 | 59.712 | |
| · . | 1 JOHNS HOPKINS UNIVERSITY 1/2 2 MASS INST OF TECHNOLOGY 3 STANFORD UNIVERSITY 4 LNIVERSITY OF HASHINGTON 5 UNIV OF CAL SAN OIEGO | 202,533 126,604 89,738 83,370 82,031 | 346 385 109 906 115 | 89 1,926 433 2,466 3,612 | 137,344 15,273 9,735 7,797 11,226 | 1,386 49,044 4,504 3,505 2,348 | 1,098 608 539 1,028 142 | 55,148 27,298 44,893 52,315 29,533 | 51 1,124 264 367 241 | 1,275 9,154 5,955 1,209 4,827 | 5,020 25,100 22,949 12,925 29,987 | 366 820 154 255 0 | 410 872 203 597 0 | |
| 1 | 6 HARVARD UNIVERSITY 7 UNIV DF HIS-HADISON 8 UNIV DF CAL LOS ANGELES 9 COLUMBIA UNIV MAIN DIV 0 CORNELL UNIVERSITY | 81,609 79,896 76,428 73,257 72,313 | 515 10•574 329 0 12•596 | 323 0 15 153 0 | 3,046 3,395 4,289 4,875 2,337 | 2,059 6,521 9,839 2,439 2,950 | 430 7 61 103 720 | 58,663 42,447 48,447 42,934 26,282 | 49 529 138 442 548 | 4,246 2,563 2,073 2,572 1,289 | 10,763 13,658 10,431 16,252 24,092 | 0 15 65 0 50 | 1,515 187 741 3,487 1,449 | |
| 1 | OTAL 1ST 10 INSTITUTIONS | 967,779 | 25,875 | 9,017 | 199,317 | 84,595 | 4,736 | 422,960 | 3,753 | 35 •163 | 171,177 | 1,725 | 9,461 | |
| i i | 1 UNIVERSITY OF MINNESOTA 2 UNIVERSITY OF MICHIGAN 3 UNIV OF PENNSYLVANIA 4 YALE UNIVERSITY 5 UNIVERSITY OF CHICAGO | 70,028 64,895 63,174 60,733 55,430 | 10,447 335 15 65 99 | 1,063 5 60 0 | 1,198 3,260 3,785 2,052 520 | 2,887 3,051 2,531 4,701 4,240 | 1,817 1,200 31 72 0 | 43,675 35,549 46,197 46,485 36,875 | 41 17 0 | 1,558 5,636 248 236 4,780 | 7,394 11,016 9,186 6,638 8,823 | 2.670 252 0 0 | 195 1,074 907 424 93 | |
| . 1 | 6 UNIV OF CAL BERKELEY 7 UNIV OF ILL URBANA 8 PENNSYLVANIA STATE UNIV_/ 9 UNIV OF CAL SAN FRANCISCO 0 HASHINGTON UNIVERSITY | 55,399 53,010 52,252 51,369 47,561 | 1,623 11,753 13,085 0 | 0 0 173 0 65 | 9,277 4,962 15,415 254 472 | 2,987 6,495 2,598 1,699 526 | 315 2,065 506 43 511 | 18,041 12,066 12,937 48,127 40,677 | .1,524 0 | 4,439 992 842 187 1,209 | | 134 55 445 0 | 1,936 7 71 0 555 | |
| i | OTAL 1ST 20 1NST1TUT1ONS | 1,541,630 | 63,297 | 10,387 | 240,512 | 116,310 | 11,296 | 763,589 | 7.812 | 55,290 | 253,073 | 5,341 | 14,723 | |
| | 21 UNIV OF SOUTHERN CAL 22 DHID STATE UNIVERSITY 23 NEW YORK UNIVERSITY 44 UNIVERSITY OF ROCHESTER 25 DUKE UNIVERSITY | 45,281 43,691 42,847 42,355 40,374 | 40 12,057 25 0 94 | 215 32 0 0 | 11,597 4,185 1,314 3,186 1,288 | 1,603 1,041 3,379 10,718 1,209 | 1,650 364 0 | 24,499 13,935 32,000 23,700 33,603 | 435 252 0 | 615 700 516 65 131 | 5,356 3,564 4,444 4,686 3,708 | 226 278 0 0 5 | 291 5•814 553 0 25 | |
| | 26 UNIV OF TEXAS AT AUST1:. 27 PURDUE UNIVERSITY 28 UNIVERSITY OF CULGRADD 29 YESHIVA UNIVERSITY 30 UNIVERSITY OF UTAH | 39,236 37,014 35,912 32,634 31,975 | 21 9,561 276 0 50 | 71 241 850 0 227 | 15,875 2,645 1,881 251 823 | 6,709 4,190 2,048 0 5,535 | 654 202 0 | 5,984 8,469 21,967 31,763 19,560 | 205 623 0 | 2,787 2,220 2,733 25 496 | 6,510 8,160 5,307 595 4,355 | 183 20 0 0 55 | 273 649 25 0 | |
| | TOTAL 1ST 30 INSTITUTIONS | 1,932,949 | 85,421 | 12,023 | 283,557 | 152,742 | 15,198 | 979,069 | 11.142 | 65,578 | 299,758 | 6,108 | 22,353 | |
| | 31 TEXAS AGM UNIVERSITY 32 MICHIGAN STATE UNIVERSITY 33 CALIFORNIA INST OF TECH 34 NORTHHESTERN UNIVERSITY 35 UNIVERSITY OF ARIZONA | 31,750 31,055 30,509 30,501 30,354 | 10,639 20 120 | 1,598 20 80 0 23 | 1,838 571 2,743 1,646 3,382 | 925 2,332 4,130 1,200 860 | 665 141 | 1,795 8,659 7,558 19,183 11,472 | 134 835 250 | | 5,101 6,901 11,182 6,489 6,347 | 1,847 0 0 106 0 | 30 1,014 0 1,342 881 | |
| | 36 UNIV OF NC AT CHAPEL HILL 37 UNIV OF CAL DAVIS 38 UNIVERSITY OF HIAHI 39 UNIVERSITY OF FLORIDA 40 UNIVERSITY OF PITTSBURGH | 30,188 29,997 28,074 27,851 27,737 | 2,818 0 7,211 | 39 0 60 28 126 | 702 462 2,497 1,710 1,499 | 381 3,490 1,151 2,779 599 | 311 828 1,044 | 9,600 | 380 67 253 | 160 308 | 3,675 3,927 6,605 3,694 3,491 | 81 0 250 173 185 | 100 4,678 0 500 180 | |
| | TOTAL 1ST 40 INSTITUTIONS | 2,230,965 | 126,653 | 13,997 | 300,607 | 170,589 | 21,278 | 1,110,770 | 14,627 | 75,446 | 357 • 170 | 8,750 | 31,078 | |
| | 41 BAYLOR COL OF MEDICINE 42 CASE WESTERN RESERVE UNIV 43 U TENNESSEE KNOXVILLE 44 UNIVERSITY OF 10HA 45 UNIV ALABAMA BIRMINGHAM | 27,689 27,666 27,648 27,208 26,270 | 12 10,059 | 0 53 62 0 0 | 197 1,139 1,300 764 128 | 0 1,056 10,536 246 66 | 184 119 390 | 19,386 3,812 20,521 | 0 103 0 | 953 538 3,282 | 4,663 1,119 1,908 | 0 62 | 6 45 0 35 0 | . • |
| | 46 COLORADO STATE UNIVERSITY 47 GEORGIA INSTITUTE DF TECH 48 UNIV OF MD COLLEGE PARK 49 U TEX-ANDRSN HOSPETUMOR I 50 VANDERBILT UNIVERSITY | 23,952 23,355 22,787 22,692 22,326 | 0 4,350 | 0 | 1,273 14,795 2,407 0 180 | 2,176 2,476 3,495 0 | 39 5 973 0 0 8 83 | 1,701 1,850 22,367 20,378 | 286 214 7 0 | 938 2,420 0 | 2,329 6,956 325 1,164 | 378 57 0 | 1,070 213 65 0 40 | |
| | TOTAL 1ST 50 INSTITUTIONS | 2,482,558 | 147,112 | 14,337 | 322,790 | 190,833 | 25,348 | 1,258,794 | 16,040 | 84,898 | 380,397 | 9,457 | 32,552 | |

SEE FOOTNOTES AT ENO OF TABLE.



TABLE R-14. FEDERAL OBLIGATIONS FOR ACADEMIC SCIENCE TO THE 100 UNIVERSITIES AND COLLEGES RECEIVING CONTINUED THE LARGEST AMOUNTS, BY AGENCY: FY 1978

(DOLLARS IN THOUSANDS)

| ŖAN | INSTITUTION (RANKED 8Y K AMOUNT RECEIVED) | TOTAL | USDA | СОМ | 000 | . OOE | EPA. | HEW | INT | NA SA | NSF | 001 | OTHER* | |
|-----|--|----------------------------|---------------------------|---------------|----------------------|---------------------|-----------------|--------------------------|-----------------|-------------------|-------------------------|---------------|-----------------|----|
| | I OREGON STATE UNIVERSITY 2 BOSTON UNIVERSITY | 22,259 | 5,974 127 | 1.475 | 1,827 | 971 295 2,681 | 756 0 260 | 4,540 19,257 3,403 | 346 0 195 | 351 149 84 | 5,514 1,118 3,746 | 102 0 | 403 273 0 | |
| 5 | 3 UNIVERSITY OF GEORGIA 4 UNIV OF ALASKA-FAIRBANKS 5 UNIV OF MISSOURI COLUMBIA | 22,103 21,991 21,795 | 11,356 1,617 10,486 | 4 4 0 0 | 334 10•770 703 | 686 | 100 579 | 415 7,314 | 2,189 435 | 332 159 | 5.827 1.664 | 55 0 | 0 141 | |
| 5 | 6 WOODS HOLE OCNGRPHIC INST | 21,465 21,078 | 0 | 114 25 | 6,793 1,056 | 1,263 | 34 188 | 0 13•775 | 110 37 | 522 | 13,151 | 266 | 0 25 | |
| 5 | 7 UNIVERSITY OF VIRGINIA 8 N C STATE UNIV AT RALEIGH 9 VA POLYTECH INST & ST U | 21.028 20.567 | 9,634 | 0 160 | 663 1,851 | 459 2,900 0 | 918 88 0 | 1,980 1,314 19,283 | 322 331 0 | 303 1,500 0 | 1,820 2,617 214 | 70 75 0 | 7 97 756 | |
| - | O CUNY MT SINAI SCH OF MEO | 20.261 | 0 .792 | 0 16,155 | 8 347,736 | - | - | 1,330,075 | | 88,298 | 419,550 | 10,025 | 34,254 | |
| | 1 UNIVERSITY OF NEW MEXICO | 19,861 | 80 | 130 | 5.283 | 367 | 25 | 11,389 | 519 | 410 | 1.163 | . 0 | 495 | |
| | 2 UNIVERSITY OF KENTUCKY | 19,721 | 10,791 | 100 | 423 | 541 | 322 386 | 5,136 6,869 | 453 201 | 298 0 | 1,371 1,273 | 273 0 | 13 0 | |
| 6 | 3 LOUISIANA STATE UNIV | 19,614 19,536 | 7,378 147 | 1,165 | 933 2.255 | 1,409 1,304 | 0 | 8,893 | 360 | 2,135 | 4,324 | 56 | 0 | |
| | 4 UNIV OF HAWAII-MANDA 5 ROCKEFELLER UNIVERSITY | 18,868 | 72 | Ō | 91 | 5 25 | 60 | 15,674 | 0 89 | 0 1,533 | 2,232 5,917 | 0 511 | 214 233 | • |
| | 6 PRINCETON UNIVERSITY | 18.827 18.563 | 0 2,177 | 248 74 | 2,438 952 | 3,120 338 | 160 55 | 4,578 12,752 | 128 | 426 | 1,646 | 0 | 15 | |
| | 57 UNIVERSITY OF CONNECTICUT | 18,513 | 4,519 | , d | 9,037 | 1,143 | 32 | 1.124 | 171 | 1,650 | 837 | 0 | 0 | |
| ě | OF U TEX HLTH SCI CTR-DALLAS OF UNIVERSITY OF KANSAS | 18,388 18,082 | 0 151 | 0 | 0 659 | 0 75 | . 0 89 | 18,011 13,514 | 0 20 | 35 850 | 342 1,781 | 59 | 884 | |
| 1 | TOTAL 1ST 70 INSTITUTIONS | 2.887.238 | 226,107 | 17,934 | 369.807 | | | 1,428.015 | | | 440,436 | 10,924 | 36,108 | |
| ٠. | TI UNIV OF HO BALT PROF SCH | 16,970 | 0 | 0 | 410 488 | 0 299 | 450 205 | 15,754 5,892 | 0 449 | 38 60 | 3,840 | 40 | 695 | |
| | 72 RUTGERS THE ST UNIV OF NJ 73 IOHA ST U OF SCI & TECH | 16,820 14,894 | 4,732 9,939 | 120 0 | 203 | 298 | 407 | 1,647 | 333 | 2 34 | 1.571 | 0 | 262 | |
| | 73.IDHA ST U OF SCI & TECH 74 SUNY AT BUFFALO 75 CARNEGIE MELLON UNIV | 14.879 14.681 | 0 | 0 | 756 4•302 | 145 3,256 | 40 | 11.079 2.319 | 0 148 | 44 67 | 2,774 | 75 132 | 0 | |
| | 76 UNIVERSITY OF CINCINNATI | 14,256 | 34 | 0 | 1,121 | 310 | 1,414 | .9,989 | 0 | 212 | 1,176 | 0 | 0 87 | |
| | 77 UNIV OF MASS AT AMHERST | 14,146 | 4,213 | 131 | 1,231 | 448 | 324 43 | 2,478 13,041 | 213 | 262 194 | 4,703 | 56 0 | . 0 | |
| | 78 EMORY UNIVERSITY | 14,140 13,997 | 0 | 0 | 79 110 | 157 528 | | 7,032 | 22 | 816 | 5,488 | Ō | 0 | |
| | 79 SUNY AT STONY BROOK BO GEORGE WASHINGTON UNIV | 13,939 | 29 | 50 | 2,388 | 410 | | 8,311 | 0 | 1,533 | 900 | 0 | 99 37•251 | |
| | TOTAL 1ST 80 INSTITUTIONS | 3,035,960 | | | 380.895 | 216,777 | | 1,505,557 | 229 | 200 | 295 | 0 | 0 | |
| | 81 UNIV OF VT & ST AGRIC COL | 13,894 13,412 | 2,332 | . 0 | 105 188 | 150 | | 11,637 | 0 | 72 | 940 | . 0 | 325 | |
| | 82 TEMPLE UNIVERSITY 83 Univ of Cal Irvine | 13,361 | 75 | ō | 740 | 1,373 | | 7,712 8,460 | | 160 15 | 2,963 656 | 187 | . 0 | |
| | 84 GEORGETOWN UNIVERSITY | 13,336 13,035 | 186 10,051 | . 0 | 927 196 | -3,092 976 | | 321 | | 456 | 95 | 198 | 227 | |
| | 85 HISSISSIPPI STATE UNIV | | | | _ | 0 | 253 | 11,898 | . 0 | 30 | 406 | O | | |
| | 86 VIRGINIA COMMONALTH UNIV | 13,030 | -0 6•574 | 0 35 | 443 1.766 | 1.337 | | 692 | 199 | 277 | 1,169 | 203 | 167 | |
| | 87 OKLAHOMA STATE UNIVERSITY 88 AUBURN UNIVERSITY | 12,605 | 9,706 | 77 | 805 | I 84 | 216 | 675 109 | | 133 · 278 | | 65 | 491 51 | |
| | 89 UNIVERSITY OF CAYTON | 12,445 | 0 50 | 0 | 11,515 1,627 | 939 | | 4,001 | | 328 | | 0 | 0 | |
| | 90 BROWN UNIVERSITY TOTAL 1ST 90 INSTITUTIONS | 3,166,220 | | - | 399,207 | 224,896 | 33,907 | 1,561,727 | 23,978 | 101.044 | 478,694 | 11,880 | 38,512 | |
| | 91 WASHINGTON STATE UNIV | 12,363 | 6,014 | 175 | 314 | 575 | | 2 • 60 5 | | 41 | | 65 | . 0 | |
| | 92 INDIANA UNIV-BLOOMINGTON | 12.181 | 48 | 0 | 294 | 727 | | 4,456 9,022 | | 137 27 | | 245 | | |
| | 93 WAYNE STATE UNIVERSITY | 12,124 | 25 5,170 | 0 | 611 58 | 699 1,682 | | | | | 418 | 198 | 0 | |
| • | 94 HEST VIRGINIA UNIVERSITY 95 KANS ST U - AG & APP SCI | 11,426 | 6.023 | 13 | 558 | 702 | 0 | 1,304 | | | | 0 | 1,243 | |
| | 96 FLORIDA STATE UNIVERSITY | 10,532 | 85 40 | | 1.088 77 | 870 406 | | | | 39 | 1,927 | Ō | 594 | ., |
| | 97 BRANDEIS UNIVERSITY 98 UNIV OF NEBRASKA LINCOLN | 9,985 9,855 | 5,499 | | 181 | 408 | 3 7 | 1,03 | 7 456 | | | .0 | 70 0 | |
| | 99 UNIV OF RHOOE ISLAND | 9,605 | 1,650 | 1,340 | 1,045 | 732 186 | | | | | | | | |
| 1 | LOO UTAH STATE UNIVERSITY | 9,538 | 2,742 | | | | | | | | | | | |
| | TOTAL 1ST 100 INSTITUTIONS | 3,274,901 | 301,324 | 21.267 | 406 • 425 | 231,883 | 36,171 | 1,593,600 | 27.265 | 102,801 | 2001/34 | 16 177 1 | 701770 | |

[#] INCLUDES AID. HUD. LABOR, AND NRC.

Applied Physics Laboratory (Johns Hopkins University): \$136,140 Applied Research Laboratory (Pennsylvania State University): 12,205

SOURCE: National Science Foundation

^{1/} Total and DOO data for Johns Hopkins University and Pennsylvania State University include funding for components formerly shown separately as university-administered federally funded research and development centers. The amounts involved are as follows:

TABLE B-15. FEDERAL DBL1GATIONS FOR RESEARCH & DEVELOPMENT TO THE 100 UNIVERSITIES AND COLLEGES RECEIVING THE LARGEST AMOUNTS, BY AGENCY: FY 1978

(DOLLARS IN THOUSANDS)

| <i>1</i> 1 | | t. 1 | | | | | | • | | | , | - | | | | | | |
|------------|----------------|---|-------------------------|----------------------------|----------------------|--|-------------------------------------|--------------------------------------|---|--|-----------------------------------|--|---------------------------------|---|---|--------------------------------|-------------------------------------|--|
| RAN | | INSTITU AMOU | | (RANK CEIVE | | TOTAL | USDA | СОМ | 000 | DDE | EPA | HEN | 1nT | NA SA | NSF | DOT . | OT HER¢ | |
| | | . UNIT | ED ST | ATES | T DT AL | 3,362,174 | 175,269 | 35,042 | 452,249 | 250,912 | 51,145 | 1,656,410 | 34,258 | 124,482 | 509,732 | 16,183 | 56,492 | |
| | 3 | JOHNS H MASS IN Stanfor Univ of Univers | ST:DF D Uni Cal | TECH VERSI SAN D | NDLDGY Ty 1egd | 196.081 114.021 80.110 77.033 76.080 | 346 385 109 115 906 | 89 1,926 433 3,612 2,466 | 137,344 15,273 9,735 11,226 7,797 | 1,386 45,564 4,498 2,181 3,378 | 1,081 602 512 142 923 | 49,843 19,466 40,413 25,680 46,235 | 5 854 264 241 367 | 1,275 9,154 5,664 4,827 1,184 | 4,052 19,107 18,305 29,009 12,025 | 250 818 154 0 202 | 410 872 23 0 597 | |
| | 7 8 9 | UNIV DF HARVARD UNIV DF CDLUPBI UNIVERS | UN1V -S14 UN1 | ERSIT MADIS V MAI | Y On N D1V | 69,595 68,520 65,225 64,687 59,582 | 329 515 5,138 0 4,922 | 15 323 0 153 4 | 4,289 3,046 3,395 4,875 1,198 | 9,220 1,883 6,236 2,379 2,887 | 61 341 7 100 1,750 | 42,642 48,609 35,710 37,932 39,732 | 138 49 486 442 481 | 2,073 4,173 2,563 2,507 1,558 | 10,022 8,066 11,488 15,305 6,795 | 65 D 15 D 60 | 741 1,515 187 994 195 | |
| 1 | TOT | AL 1ST | 10 | 1NST1 | TUT 10NS | 870,934 | 12,765 | 9,021 | 198,178 | 79,612 | 5,519 | 386,262 | 3,327 | 34,978 | 134,174 | 1,564 | 5,534 | |
| 1 | 12 13 | UNIVERS CORNELL UNIV OF YALE UN UNIV OF | UN1V PENN 1VERS | ERSIT ISYLVA ITY | Y N1A | 58,444 58,258 56,138 53,805 49,663 | 335 4,737 15 65 1,623 | 1.051 0 5 60 0 | 3,260 2,337 3,785 2,052 9,277 | 2,926 2,908 2,351 4,387 2,985 | 1,189 623 0 60 298 | 30,900 22,633 40,522 40,538 14,591 | 516 .17 0 641 | 5,636 1,289 248 236 4,439 | 9,549 21,716 8,036 5,983 13,739 | 2,608 50 252 0 134 | 949 1,449 907 424 1,936 | |
| | 17 18 19 | UNIVERS UNIV OF UNIV OF UNIV OF WASHING | CAL 1LL SDUT | SAN F URBAN HERN | RANCISCO A Cal | 48,984 46,388 42,947 42,458 41,974 | 99 0 4,566 40 0 | 0 0 0 215 0 | 520 254 4,962 11,597 472 | 4,040 1,599 6,422 1,603 526 | 0 43 2,037 0 511 | 31,481 43,439 10,275 22,799 35,744 | 0 0 730 612 5 | 4,780 187 992 600 1,209 | 7,971 866 12,901 4,701 2,952 | 0 0 55 0 0 | 93 0 7 291 555 | |
| 1 | TOT | AL 1ST | 20 | 1NST1 | TUT 10NS | 1,369,993 | 24,245 | 10,352 | 236,694 | 109,359 | 10,280 | 679,184 | 5,889 | 54,594 | 222,588 | 4,663 | 12,145 | |
| 1 | 22 23 24 | PENNSYL NEW YOR UNIV OF DUKE UN OHIO ST | K UNI TEXA IVERS | VERS1 | AUST 1N | 41,974 38,235 37,232 34,632 33,983 | 5,194 25 21 94 4,450 | 173 0 71 0 32 | 15,415 1,314 15,875 1,288 4,185 | 2,588 2,959 6,709 1,209 1,041 | 479 364 309 305 1,549 | 11,260 28,065 4,929 28,692 12,728 | 1,193 252 175 0 132 | 842 516 2,787 131 657 | 4,314 4,187 5,900 2,883 3,127 | 445 0 183 5 278 | 71 553 273 25 5+804 | |
| | 27 28 29 | UNIVERS UNIVERS PURDUE UNIVERS YESHIVA | 1TY C Unive 1Ty C | F COL RS1TY F UTA | DRADD H | 33,616 32,091 29,554 29,352 28,710 | 0 276 3,940 50 | 0 450 94 227 0 | 3,186 1,881 2,645 823 251 | 5,326 2,002 4,128 5,434 | 0 202 640 105 0 | | 97 381 | 65 2,733 2,202 496 25 | 4,437 4,897 7,715 3,861 595 | 0 0 20 55 0 | 0 25 649 0 | |
| 1 | tot | AL 1ST | 30 | 1NST1 | TUT 1DNS | 1,709,372 | 38,295 | 11,399 | 283,557 | 140,755 | 14,233 | 857,645 | 8,742 | 65 •D •8 | 264,504 | 5,649 | 19,545 | |
| | 32 33 34 | CAL1FOR UNIV OF NORTHHE UNIV OF BAYLOR | CAL STERM NC A | DAVIS UNIV T CHA | ERSITY PEL HILL | 28,106 27,721 26,635 26,555 26,476 | 20 2,818 120 109 0 | 80 0 0 39 0 | 2,743 462 1,646 702 197 | 3,966 3,295 1,200 381 | 213 11 1,957 | 6,052 12,400 15,904 19,877 25,710 | 250 116 | 3,820 160 139 30 266 | 10,449 3,320 6,017 3,163 141 | 0 0 106 8 | 0 4,678 1,242 100 0 | |
| | 37 38 39 | UNIVERS UNIVERS | 1TY (1TY (Stern |)F AR1)F.Mla RESE | M1 RVE UNIV | 25,984 25,828 25,744 24,730 24,371 | 58 1,748 0 12 0 | 126 23 60 53 0 | 1,499 3,382 2,497 1,139 764 | 599 851 1,011 1,056 242 | 845 | 18,939 9,955 15,260 16,740 18,018 | 54 690 67 0 | 927 2,102 308 822 3,282 | 3,222 5,351 5,713 4,504 1,5/ | 185 0 0 175 62 | 180 881 0 45 35 | |
| ٠. | TOT | AL 1ST | 40 | 1NST1 | TUT 10NS | 1,971,522 | 43,180 | 11,780 | 298,588 | 153,356 | 19,153 | 1,016,500 | 11,129 | 76 • 9 04 | 307,96€ | , 258 | 26,706 | |
| | 42 43 44 | M1CH1GA UNIV AL UNIVERS | N STA Abama 1ty (| TE UN 1.81RM OF FLO | | 22,122 21,792 21,466 21,464 21,213 | 0 4,372 80 3,096 0 | 200 20 0 28 0 | 14,795 571 128 1,710 | 2,257 1,932 66 2,775 | 0 936 | 8,098 | 84 | 884 120 96 859 0 | 1,928 5,464 321 3,073 325 | 80 0 0 173 0 | 213 1,014 0 500 0 | |
| . (| 47 48 49 | COLORAD TEXAS A VANDERB UNIV DF 80ST ON | EM UN | NIVERS JNIVER Ska-fa | SITY 1R8 ANKS | 20,371 20,168 20,139 20,133 19,726 | 3,679 5,911 150 862 127 | 25 1,598 0 0 0 | 1,273 1,838 180 10,770 941 | 2,176 918 191 486 295 | 0 70 | 1,661 18,333 392 | 344 0 1,838 | 821 1,247 138 332 149 | 3,358 4,774 1,037 5,298 885 | 35 1,847 0 55 0 | 1,070 30 40 0 27 | |
| | 101 | TAL 1ST | 50 | 1NST1 | TUT 10NS | 2,180,116 | 61,457 | 13,651 | 330,794 | 164,452 | 22,773 | 1,118,363 | 14,597 | 81,550 | 334,431 | 8,448 | 29,600 | |

SEE FOOTNOTES AT END OF TABLE.

| RAN | | | (RANKED BY ECEIVED) | TOTAL | USDA | СОМ | DDD | ODE | EPA | HEH | 1NT | NA SA | NSF | DOT | DTHER# |
|-----|---------------------------|------------|------------------------------------|------------------|----------------|------------|----------------|--------------|-----------|------------------|------------|-------------|--------------|----------|---------------|
| | 1 WOODS HO | LE | DCNGRPHIC INST | 19.621 19.347 | 0 1,673 | 114 0 | 6,793 2,407 | 1,263 | 34 955 | 0 1.382 | 110 178 | 2,412 | 11,307 | 0 57 | 0 65 |
| . 5 | | TY | OF VIRGINIA | 16.883 | ő | 25 | 1,056 | 1,645 | 179 | 12,005 | 37 | 522 | 3,123 | 266 | 25 756 |
| 5 | | SIN | A1 SCH DF MED | 18,868 | Ō | 0 | 8 | 0 | . 0 | 17,890 | 0 | 0 326 | 214 5,040 | . 102 | 403 |
| 5 | | | E UNIVERSITY | 18,532 | 3,571 | 1,475 | 1,827 | 664 | 736 | 4,079 | 309 | | | | |
| 5 | A 1 TENNES | SEE | KNDXV1LLE | 18,462 | 3,277 | 62 | 1,300 | 9,770 | 119 | 2,543 | 103 519 | 388 150 | 900 964 | 0 | 0 495 |
| | 7 UNIVERSI | TY | DF NEW MEXICO | 18,392 | 80 | 130 | 5,283 | 367 | 25 | 10,379 14,374 | 219 | 150 | 2,137 | ŏ | 214 |
| 5 | 8 RDCKEFEL | LER | UNIVERSITY | 17,473 | 72 | .0 | 91 2,255 | 525 1,304 | 60 | 7,776 | 314 | 1,315 | 4.004 | 56 | 0 |
| | 9 UNIV DF O PRINCETO | HAH N U | All-MANDA Niversity | 17,233 16,759 | 147 0 | 62 348 | 2,438 | 3,077 | 160 | 3,431 | 89 | 1,533 | 5,039 | 511 | 233 |
| _ | OTAL 1ST | | 1NST1TUT1ONS | 2,363,686 | 70,277 | 15,767 | 354,252 | 186,524 | 25.041 | 1,192,222 | 16,256 | 89,196 | 373,920 | 9,440 | 21,791 |
| | 1 UNIV DE | MD | BALT PROF SCH | 16,592 | 0 | 0 | 410 | 0 | 450 | 15,376 | 0 127 | 38 1.650 | 318 726 | 0 | 0 |
| | 2 NEW MEXI | | STATE UNIV | 16,260 | 2,911 | 0 | 9,037 | 1,093 | .0 | 716 12•165 | 20 | 850 | 1,241 | 59 | 884 |
| 6 | 3 UNIVERSI | ΤY | DF KANSAS | 16,179 | 151 | 0 | 659 0 | 75 0 | 75 0 | 15,722 | ō | 35 | 327 | 0 | 0 |
| | 4 U TEX HL | TH | SC1 CTR-DALLAS OF CONNECTICUT | 16,084 | · 0 676 | 74 | 952 | 338 | 51 | 11,170 | 85 | 86 | 1,476 | 0 | 15 |
| | | | | | | | 1 051 | 2.780 | 59 | 1.097 | 283 | 1,500 | 2,532 | 75 | 97 |
| | | | I INST & ST U | 14,501 | 4,067 4,487 | 160 | 1,851 334 | 2,472 | 260 | 3.021 | 99 | 16 | 3,44? | 0 | 0 |
| | | | DF GEDRG1A | 14,180 13,799 | 2,446 | 1.165 | 933 | 1,409 | 386 | 6,132 | 173 | 0 | 1,155 | 0 | . 0 |
| | 8 LDUISIAN | M 1 C | TATE UNIV Souri Columbia | | 4,256 | 0 | 703 | 314 | 556 | 5,974 | 402 | 159 | 1,171 | 0 | 141 |
| | 9 UNIV DF O CARNEGII | ME | LLON UNIV | 13,569 | 0 | . 0 | 4,302 | 3,181 | 40 | 2,022 | 148 | 67 | 3,677 | 132 | . 0 |
| • | DTAL 1ST | 70 | 1NSTITUTIONS | 2,513,449 | 89,271 | 17,210 | 373,433 | | 26,918 | 1,265,617 | | | 389,990 | 9,706 | 32,928 695 |
| • | 1 RUTGERS | THE | ST UNIV DE NJ | 13,537 | 2,227 | 120 | 488 | 299 310 | 141 | 5,401 9,324 | 397 0 | 60 210 | | 40 | 073 |
| | 2 UNIVERS | LTY | DF CINCINNATI | 13+362 | 34 | . 0 | 1,121 756 | 145 | 0 | 9,496 | ō | 44 | 2,639 | 75 | . 0 |
| | TA YHUR ET | BUF | FALD | 13,155 13,003 | . 0 29 | 50 | 2,388 | 410 | 216 | 7,644 | 0 | 1,533 | 634 | 0 | 99 |
| | 74 GEDRGE 1 75 EMDRY U | | INGTON UNIV | 12,921 | ťó | ő | 79 | 157 | 43 | 11,952 | . 0 | 194 | 496 | 0 | .0 |
| | - | | | 12 550 | 0 | 0 | 188 | 150 | 100 | 10.820 | 0 | 72 | | 0 | 325 |
| | 6 TEMPLE | | | 12,559 12,372 | ŏ | ŏ | 110 | 528 | | 6,079 | 22 | 816 | | 0 | 0 |
| | 77 SUNY AT | | OF DAYTON | 12,222 | . 0 | Ō | 11,515 | 0 | | 109 | 0 | 272 | | 65 | 51 0 |
| | 78 UNIVERS 79 UNIV DF | ٧Ť | & ST AGRIC COL | | 1,183 | 0 | 105 | 68 | | 10,087 | 191 | 200 | | 0 273 | 13 |
| | O UNIVERS | 1 ŤÝ | DF KENTUCKY | 11,921 | 4,258 | 100 | 423 | 541 | | 4,527 | 165 | 123 | | | |
| | TOTAL 1ST | 8 | INSTITUTIONS | 2,640,560 | 97.002 | 17,480 | 390 •6 06 | | | 1,341,056 | 18.368 | 96,121 | 405.749 | 10.159 | 34 • 111 |
| | 91 UNIV OF | CAI | L IRVINE | 11,861 | 75 | 0 | 740 | 1,363 | | 6,652 | 17 | 328 | | 130 | . 0 |
| | B2 ERDNN U | | | 11,618 | 50 | 0 | 1,627 | 939 | | 3,500 6,949 | 16 | 15 | | ō | 0 |
| | | | UNIVERSITY | 11,595 | 106 | 0 | 927 | 3,092 | | 1,762 | 289 | 303 | | 70 | 54.7 |
| | B4 N C.STA | TE | UNIV AT RALEIGI DMHO: " 14 UNIV | H 11:936 | 109 | 0 | 653 443 | 0 | | 10,276 | 0 | 30 | | 0 | . 0 |
| | 1. | | | | ř | _ | | | | 3,644 | . 0 | 137 | 5,899 | 245 | . 0 |
| | 36 INDIANA | UN | IV-BLUOMINGTON | 10,949 | 48 | 0 | 294 | 682 448 | | 2,161 | 172 | 262 | | 56 | 87 |
| | 87 UNIV DF | MA | SS AT AMHERST | 10+602 | 1,745 | 131 | 1,231 611 | 699 | | 7,568 | | 27 | | . 0 | 0 |
| | 88 HAYNE S | TAT | E UNIVERSITY | 10,385 9,511 | . 85 | 0 1,392 | 1,088 | 867 | | 2,240 | | 166 | 2,804 | . 0 | 418 |
| | 89 FLDRIDA 90 BRANDEI | ST S U | ATE UNIVERSITY | 9,040 | 40 | 0 | 77 | 406 | | 6,080 | | 39 | 1,804 | . 0 | 594 |
| | TOTAL 1ST | | 0 1NST1 TUT 1DNS | 2,748,925 | 104.665 | 19,003 | 398,307 | 209,749 | 31.039 | 1,391,888 | | | 431.793 | | 35.217 |
| | OI INUA ST | ш | DF SC1 & TECH | 8,958 | 4,401 | 0 | 203 | 2 98 | | | | 234 | | | 262 |
| | | | STATE UNIV | 8.831 | 3,217 | 175 | 314 | | | | | 41 | | . 0) | ŏ |
| | 93 U TEX H | LTH | SC CTR HOUSTO | N 8,727 | 140 | | 0 | | | | | | | ŏ | . 0 |
| | SA U TEX M | ED | BRNCH GALVESTO | N 8,530 8,413 | 0 82 9 | | 287 1,045 | 732 | | | 78 | 55 | | 0 | 0 |
| | | | DDE 1SLAND | _ | | | 547 | | | | 66 | 366 | 3,651 | 0 | 517 |
| | | | L SANTA BARBAR | A 8,288 | | | 106 | | | | 0 | | | | 0 |
| | | | LTH SCI CTR | 8,242 Y 8,181 | | | 1,766 | | | 547 | 179 | | | | 167 |
| | | | TATE UNIVERSIT | | | | 274 | 159 |) (| 5,048 | | | | 0 | 0 |
| 1 | OC INDIANA | U- | PURDUE U INDPL | | | | 124 | | , (| 7 • 75 1 | 0 | 19 | 5 173 | U | |
| • | | | O INSTITUTIONS | | 115 • 920 | 20,553 | 402,973 | 213,531 | 34,150 | 1,434,960 | 19,945 | 99,29 | 1 444,865 | 10,936 | 36,163 |

[#] INCLUDES AID. HUD. LABOR. AND NRC.

Applied Physics Laboratory (Johns Hopkins University): \$136,140 Applied Research Laboratory (Pennsylvania State University): 12,205

SDURCE: National Science Foundation

^{1/} Total and DDD data for Johns Hopkins University and Pennsylvania State University include funding for components formerly shown separately as university-administered federally funded research and development centers. The amounts involved are as follows:

TABLE B-16. FEDERAL OBLIGATIONS FOR FELLOWSHIPS, TRAINEESHIPS, AND TRAINING GRANTS TO THE 100 UNIVERSITIES AND COLLEGES RECEIVING THE LARGEST AMOUNTS, BY AGENCY: FY 1978

(DDLLARS IN THOUSANDS)

| S 44 19 | | | | | | | | | | | | | | |
|---------|---|---|------------------|------------------|------------------|-------------------|---------------------------|---|---------------------------|-------------------------|-------------------------------------|-------------------------|-------------------------|---|
| RAN | INSTITUTION (RANKED BY APOUNT RECEIVED) | TOTAL | USD A | CDM | 00 D | DDE | EPA | HEH , | INT | NASA | NSF | DOT | OTHER# | |
| | UNITED STATES TOTAL | 205.865 | 0 | 0 - | 0 | 6 6 5 | 3,565 | 184,147 | 3,200 | 1,287 | 11,739 | 635 | 627 | • |
| | 1 HARVARD UNIVERSITY 2 YALE UNIVERSITY 3 STANFORD UNIVERSITY 4 UNIVERSITY OF CHICAGO 5 UNIV OF MIS-MADISON | 8,196 5,812 5,659 5,551 5,532 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 21 0 0 0 | 89 12 27 0 0 | 6,988 5,510 4,092 5,069 5,150 | 0 0 0 0 | 0 0 291 0 0 | 1,098 290 1,069 482 382 | 0 0 0 0 | 0 0 180 0 0 | |
| 1 | 6 UNIVERSITY OF WASHINGTON 7 UNIV DF PENNSYLVANIA 8 JOHNS HOPKINS UNIVERSITY 9 WASHINGTON UNIVERSITY 10 DUKE UNIVERSITY | 5,477 5,316 4,826 4,729 4,726 | 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 0 | 105 31 17 0 6 | 5,196 5,160 4,696 4,632 4,612 | 0 0 0 0 | 0 0 0 0 | 176 125 113 97 108 | 0 0 0 0 | 0 0 0 0 | |
| | TOTAL 1ST 10 INSTITUTIONS | 55,824 | 0 | 0 | 0 | 21 | 287 | 51,105 | 0 | 291 | 3,940 | 0 | 180 | |
| .1 | 11 UNIVERSITY OF MICHIGAN 12 COLUMBIA UNIV MAIN DIV 13 UNIV OF CAL LOS ANGELES 14 UNIV OF CAL SAN FRANCISCO 15 UNIV OF CAL BERKELEY | 4,632 4,628 4,334 4,291 4,009 | 0 0 0 0 | 0 0 0 | 0 0 0 0 | 0 0 0 0 | 11 3 0 0 | 4,057 4,539 4,254 4,240 3,177 | 0 0 0 0 160 | 0 0 0 0 | 377 86 80 51 655 | 62 0 0 0 | 125 0 0 0 0 | |
| | 16 MASS INST OF TECHNOLOGY 17 UNIVERSITY OF MINNESOTA 18 NEW YORK UNIVERSITY 19 YCSHIVA UNIVERSITY 20 UNIV OF CAL SAN DIEGO | 3,784 3,755 3,685 3,619 3,512 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 6 67 0 0 | 2,632 3,411 3,665 3,619 3,253 | 160 160 0 0 | 0 0 0 0 | 986 117 20 0 259 | 0 0 | 0 0 0 0 | |
| | TOTAL 1ST 20 INSTITUTIONS | 96,073 | . 0 | 0 | , 0 , | 21 | 391 | 87,952 | 480 | 291 | 6,571 | 62 | 305 | |
| | 21 CORNELL UNIVERSITY 22 UNIV DF NC AT CHAPEL HILL 23 UNIVERSITY OF COLDRADD 24 UNIVERSITY OF ROCHESTER 25 CASE WESTERN RESERVE UNIV | 3,383 2,680 2,586 2,507 2,319 | 0 0 0 0 | 0 0 0 | 0 0 0 0 | 0 0 0 0 | 97 43 0 0 | 2,704 2,637 2,529 2,500 2,174 | 0 0 0 0 | 0 0 0 0 131 | 582 0 57 7 14 | 0 0 0 0 | 0 0 0 0 | |
| | 26 UNIVERSITY OF IOHA 27 BOSTON UNIVERSITY 28 UNIV ALABAMA BIRHINGHAM 29 NORTHESTERN UNIVERSITY 30 VANDERBILT UNIVERSITY | 2,160 1,984 1,957 1,861 1,811 | 0 0 0 0 | 0 0 0 | 0 0 0 0 | 0 0 0 0 | 6 0 0 0 13 | 2,154 1,710 1,957 1,773 1,768 | 0 0 0 0 | 0 0 0 15 | 0 28 0 73 30 | 0 0 0 0 | 0 246 0 0 | |
| | TOTAL 1ST 30 INSTITUTIONS | 119,321 | . 0 | 0 | 0 | 21 | 550 | 109,858 | 480 | 437 | 7,362 | 62 | 551 | |
| | 31 UNIV OF ILL URBANA 32 UNIV OF SOUTHERN CAL 32 PRINCETON UNIVERSITY 34 PENNSYLVANIA STATE UNIV 35 U TEX HLTH SCI CTR-DALLAS | 1,760 1,749 1,679 1,659 1,635 | 0 0 0 | 0 0 0 | 0 0 0 0 | 0 0 0 0 | 28 227 0 27 0 | 1,576 1,281 1,030 1,372 1,620 | 0 0 0 160 0 | 0 0 0 0 | 156 15 649 100 15 | 0 226 0 0 0 | 0 0 0 0 | |
| | 36 UNIVERSITY OF VIRGINIA 37 UNIVERSITY OF UTAH 38 CALIFORNIA INST OF TECH 39 UNIVERSITY OF ARIZONA 40 VIRGINIA COMMONWLTH UNIV | 1,545 1,435 1,425 1,381 1,306 | 0 0 0 0 | 0 0 0 0 | 0 | 0 0 0 0 | 9 11 0 19 4 | 1,492 1,249 969 1,143 1,295 | 0 160 0 160 0 | 0 0 0 0 | 15 456 59 7 | 0 0 0 0 | 0 0 0 0 | |
| | TOTAL 1ST 40 INSTITUTIONS | 134,895 | 0 | 0 | | 21 | 875 | 122,885 | 9 60 | 437 | 8,878 | 288 | 551 | |
| | 41 UNIVERSITY OF FLORIDA 42 OHIO STATE UNIVERSITY 43 UNIV OF TEXAS AT AUSTIN 44 SUNY AT BUFFALO 45 ROCKEFELLER UNIVERSITY | 1,266 1,255 1,227 1,204 1,195 | 0 0 0 0 | 0000 | 0 0 0 0 | 0 0 0 0 | 108 101 69 6 | 1,067 932 918 1,198 1,100 | 0 160 160 0 | 0 2 0 0 | 91 50 80 0 95 | 0 0 0 0 | 0 10 0 0 | |
| | 46 UNIV OF HISSOURI COLUHBIA 47 UNIVERSITY OF CONNECTICUT 48 CUNY HT SINAI SCH OF HED 49 UNIV OF CAL DAVIS 50 UNIVERSITY OF KANSAS | 1,161 1,138 1,123 1,120 1,055 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 23 4 0 98 14 | 1,131 1,113 1,123 956 1,012 | · 0 | 0 0 0 0 | 7 21 0 66 29 | 0 0 | 0 0 0 0 | |
| | TOTAL 1ST 50 INSTITUTIONS | 146,639 | c | 0 | 0 | 21 | 1,298 | 133,435 | 1,280 | 439 | 9,317 | 288 | 561 | |

SEE FOOTNOTES AT END OF TABLE.

TABLE B-16. FEDERAL OBLIGATIONS FOR FELLOWSHIPS, TRAINEESHIPS, AND TRAINING GRANTS TO THE 100 UNIVERSITIES AND CONTINUED COLLEGES RECEIVING THE LARGEST AMOUNTS, BY AGENCY: FY 1978

(DOLLARS IN THOUSANDS)

| RANK | INSTITUTION (RANKED BY AMOUNT RECEIVED) | TOTAL | USDA | СОМ | DOD | DOE | EPA | HEW | INT | NA SA | NSF | DOT | OT HER * | |
|----------|---|--------------|------|-----|-----|----------|----------|------------|----------|----------|-----------|---------|----------|--|
| - 51 | U TENNESSEE KNOXVILLE | 1,052 | 0 | 0 | 0 | 0 | 0 | 1,045 | 0 | 0 | 7 37 | 0 | 0 | |
| 52 | UNIV OF OKLAHOMA | 1,033 | 0 | 0 | 0 | 0 | . 6 | 823 | 160 D | 7 | 22 | ŏ | . 0 | |
| | | 1.030 | 0 | 0 | 0 | 0 | 21 0 | 987 992 | ő | ŏ | 19 | ŏ | 6 | |
| . 54 | | 1,013 966 | . 0 | ŏ | ŏ | ŏ | ŏ | 791 | 160 | Ō | 15 | 0 | 0: | |
| 55 | SUUTHERN TEL O-CARBOUNDALE | ,,,, | · | • | | | | | | | | _ | | |
| 56 | HOWARD UNIVERSITY | 946 | 0 | 0 | 0 | 0 | 0 | 548 | 0 | 139 0 | 259 11 | 0 49 | 0 | |
| 57 | UNIV OF CAL IRVINE | 916 | 0 | 0 | 0 | 0 | 0 | 856 814 | 0 | Ö. | 54 | ő | ŏ | |
| 58 | | 874 842 | . 0 | 0 | 0 | 0 | 6 0 - | 827 | ő | ŏ | 15 | Ď. | . 0 | |
| 59 60 | | 832 | . 0 | ő | ŏ | ŏ | 14 | 764 | ō | Ō | 54 | 0 | Ü | |
| 60 | PORDUE ONIVERSITI | 072 | - | - | | | | | | - 0- | 9 . 806 | 337 | 567 | |
| TO | TAL 1ST 60 INSTITUTIONS | 156,143 | 0 | 0 | 0 | 21 | 1,345 | 141,882 | 1,600 | 585 | | - | | |
| 61 | WAYNE STATE UNIVERSITY | 823 | 0 | 0 | 0 | 0 | 0 | 808 | 0 | 0 | 15 | 0 | 0 | |
| 62 | UNIV OF HAWAII-MANDA | 791 | 0 | 0 | 0 | 0 | 0 | 784 575 | 160 | ٠ ٥ | ò | ŏ | ŏ | |
| 63 | | 735 696 | 0 | ŏ | ŏ | ŏ | ĭ | 695 | 0 | . 0 | 0 | 0 | 0 | |
| 64 65 | | 683 | ŏ | ŏ | ō | ō | ō | 683 | 0 | 0 | 0 | 0 | . 0 | |
| 05 | INDIANA ONIV-BEGONINGTON | - | - | | | | | | _ | • | 0 | 0 | | |
| 66 | | 678 | . 0 | 0 | 0 | 0 200 | 0 | 678 141 | σ 0 | 0 | 3 | 298 | ŏ | |
| 67 | | 648 644 | 0 | 0 | 0 | 200 | ŏ | 623 | ŏ | ŏ | 21 | 0 | 0 | |
| 68 69 | | 642 | ŏ | ŏ | ŏ | ō | 0 | 635 | 0 | 0 | . 7 | 0 | 0 | |
| | UNIVERSITY OF KENTUCKY | 642 | 0 | 0 | 0 | 0 | 1 | 466 | 160 | 0 | 15 | . 0 | 0 | |
| | ITAL 1ST 70 INSTITUTIONS | 163,125 | 0 | 0 | 0 | 221 | 1,353 | 147,970 | 1,920 | 585 | 9,874 | 635 | 567 | |
| | | 420 | 0 | 0 | 0 | 0 | 10 | 606 | 0 | 0 | 22 | o · | 0 | |
| 71 | FLORIDA STATE UNIVERSITY UNIVERSITY OF OREGON MAIN | 638 617 | ŏ | ŏ | ŏ | ŏ | ŏ | 617 | ŏ | ō | 0 | 0 | 0 | |
| | UNIVERSITY OF CINCINNATI | . 608 | ō | ō | Ö | . 0 | 102 | 497 | 0 | 2 | 7 | 0 | 0. | |
| 74 | | 607 | . 0 | 0 | 0 | 0 | 298 | 309 | 0 | 0 | 0 22 | 0 | 0 | |
| 75 | | 571 | 0 | 0 | 0 | 0 | . 0 | 549 | 0 | U | 22 | ٠, | • | |
| 74 | TEHPLE UNIVERSITY | 550 | 0 | 0 | . 0 | 0 | . 0 | 550 | O. | 0 | 0 | 0 | . 0 | |
| 77 | U TEX HLTH SC CTR HOUSTON | 548 | Ō | 0 | 0 | 0 | 0 | 548 | 0 | 0 | 0 | 0 | 0 | |
| 78 | | 544 | 0 | 0 | 0 | 0 | 0 5 | 544 500 | 0 | ő | 0 | ŏ | Ö | |
| 79 | | 505 | 0 | 0 | 0 | 0 | 0 | 34 I | 160 | ŏ | ŏ | ŏ | ō | |
| 80 | UNIVERSITY OF IDAHO | 501 | 0 | 0 | U | Ū | = | | | | | | | |
| TO | ITAL 1ST 80 INSTITUTIONS | 168,814 | 0 | 0 | 0 | 221 | 1,768 | 153,031 | 2,080 | 587 | 9,925 | 635 | 567 | |
| A 1 | L OREGON STATE UNIVERSITY | 500 | 0 | 0 | 0 | 200 | 20 | 258 | . 0 | 0 | 22 | 0 ' | 0 | |
| | UNIV OF ILL MED CTR CHGO | 498 | 0 | Ō | 0 | . 0 | 0 | 498 | 0 | 0 | . 0 | | Ö | |
| 83 | THOMAS JEFFERSON UNIV | 488 | 0 | 0 | 0 | 0 | 0 3. | 488 462 | Ö | ŏ | 19 | 0 | ŏ | |
| 84 | | 484 474 | 0 | 0 | 0 | ŏ | ő | ^-~467 | . ŏ | 0 | 7 | . 0 | . 0 | |
| 65 | 5 U OREGON HLTH SCI CTR | 717 | • | _ | | | • | | | | .0 | 0. | 0 | |
| . 86 | AUBURN UNIVERSITY | 454 | 0 | 0 | 0 | 0 | 6 | 448 | . 0 | 0 | 0 | o | Ô | |
| 87 | 7. CALIF ST UNIV LOS ANGELES | 446 | 0 | 0 | . 0 | O | 0 | 446 | Ö | ŏ | 7. | ŏ | ō | |
| 88 | B LOUISIANA STATE UNIV | 445 438 | Ö | . 0 | ő | ŏ | ž | 436 | ŏ | ō | 0 | 0 | 0 | |
| 90 | 9 ALBANY MEDICAL COLLEGE D NORTH TEXAS STATE UNIV | 430 | ŏ | ō | ō | 0 | 24 | 406 | 0 | 0 | 0 | 0 | 0 | |
| | DTAL 1ST 90 INSTITUTIONS | 173.471 | | 0 | 0 | 421 | 1,823 | 157,378 | 2,080 | 587 | 9,980 | 635 | 567 | |
| | | | | _ | 0 | 0 | .0 | 424 | . 0 | . 0 | 0 | . 0 | 0 | |
| | 1 UNIV OF SAN FRANCISCO | 424 421 | 0 | 0 | 0 | . 0 | .0 | 389 | ő | ; 10 | 22 | ŏ | 0 | |
| | 2 UNIVERSITY OF NEW MEXICO 3 THE UNIVERSITY OF ALABAMA | 417 | ŏ | ŏ | ō | ō | Ó | 268 | 0 | 149 | 0 | . 0 | .0 | |
| | WESTERN MICHIGAN UNIV | 413 | ō | 0 | 0 | 0 | C. | 413 | 0 | 0 | 0 | 0 | 0 | |
| 9 | 5 UNIV OF HD COLLEGE PARK | 410 | 0 | 0 | 0 | 0 | 18, | 370 | . 0 | 0 | 22 | | 7 | |
| 9 | 6 COLORADO SCHOOL OF MINES | 410 | 0 | 0 | 0 | 0 | 0 | 250 403 | 160 | 0 | 0 | . 0 | . 0 | |
| 9 | 7 SUNY DOWNSTATE MED CTR | 403 | 0 | 0 | 0 | 0 | 64 | 332 | . 0 | ŏ | ž | ŏ | ŏ | |
| 9 | B RUTGERS THE ST UNIV OF NJ | ·403 401 | 0 | | 0 | ő | ő | 401 | ŏ | ō | Ō | 0 | 0 | |
| 10 | 9 U TEX HLTH SCI CTR-5 ANT O BROWN UNIVERSITY | 395 | Ö | 0 | ŏ | ō | D | 359 | 0 | 0 | 36 | 0 | 0 | |
| | OTAL 1ST 100 INSTITUTIONS | 177,568 | 0 | 0 | 0 | 421 | 1,905 | 160,987 | 2,240 | 746 | 10,067 | 635 | 567 | |
| | 0.mc 101 100 1 | | | | | | | | | | | | | |

[.] INCLUDES AID. HUD. LABOR, AND NRC.

| | | | | | | | | | | | 3 | | |
|-------------|---|---------------------------------|------------------|------------------|------------------|-------------------------|------------------|--------------------|-------------------|------------------|---------------------------------|------------------|------------------|
| RAN | INSTITUTION (RANKED BY A MOUNT RECEIVED) | TOTAL | USDA | сом | DOD | DDE | EPA | HEW | INT | NASA | NSF | DOT | DTHER* |
| | UNITED STATES TOTAL | 26,664 | . 0 | 0 | 0 | 1,314 | 0 | 0 | 46 | 0 | 25,304 | 0 | 0 |
| | 1 UNIV OF CAL LOS ANGELES 2 JOHNS HOPKINS UNIVERSITY 3 UNIV OF CAL BERKELEY 4 UNIV OF PENNSYLVANIA 5 STANFORD UNIVERSITY | 914 846 823 820 723 | 0 0 0 0 | 0 0 | 0 0 0 0 | 615 0 2 0 6 | 0 0 0 | 0 0 0 0 | 0 46 0 0 | 0 0 0 0 | 299 800 821 820 717 | 0 0 0 0 | 0 0 0 0 |
| | 6 MASS INST OF TECHNOLOGY 7 UNIVERSITY OF ARIZONA 8 UNIV OF NEBRASKA LINCOLN 9 COLORADO STATE UNIVERSITY 0 COLUMBIA UNIV MAIN DIV | 697 636 602 595 577 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 | 0 0 0 0 | 0 0 0 0 | 697 636 602 595 577 | 0 0 0 0 | 0 0 0 0 |
| T | OTAL 1ST 10 INSTITUTIONS | 7,233 | . 0 | 0 | 0 | 623 | 0 | 0 | 46 | 0 | 6,564 | 0 | 0 |
| 1 1 1 | 1 HARVARD UNIVERSITY 2 UNIV DF ILL URBANA 3 UNIV OF SDUTH CAROLINA 4 CORNELL UNIVERSITY 5 UNIV DF SDUTHERN CAL | 569 567 549 492 479 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 569 567 549 492 479 | 0 0 0 0 | 0 0 0 0 |
| 1 1 1 | 6 UNIVERSITY OF MASHINGTON 7 CARNEGIE MELLON UNIV 8 UNIVERSITY OF MINNESOTA 9 UNIV OF MASS AT AMMERST 0 UNIV OF CAL SAN DIEGO | 419 403 397 387 383 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 167 | 0 0 0 0 | . 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 419 403 397 387 216 | 0 0 0 0 | 0 0 0 0 |
| 1 | DTAL 1ST 20 INSTITUTIONS | 11,878 | 0 | . 0 | . 0 | 790 | 0 | 0 | 46 | 0 | 11,042 | 0 | 0 |
| 2 | 1 NORTHHESTERN UNIVERSITY 2 PURDUE UNIVERSITY 3 UNIV OF HIS-MADISON 4 UNIVERSITY OF HICHIGAN 5 RENSSELAER POLYTECH INST | 340 332 324 318 307 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 | 0 0 0 0 | 0 0 0 0 | 340 332 324 318 307 | 0 0 0 0 | 0 0 0 0 |
| 2 | 6 HASHINGTON UNIVERSITY 7 CALIFORNIA INST OF TECH 8 UNIV OF CAL DAVIS 9 SUNY AT STONY BROOK 50 UNIVERSITY OF VIRGINIA | 302 293 286 279 268 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 164 170 0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 302 129 116 279 268 | 0 0 0 0 | 0 0 0 0 |
| .: 1 | TOTAL 1ST 30 INSTITUTIONS | 14,927 | . 0 | 0 | 0 | 1,124 | . 0 | 0 | 46 | 0 | 13,757 | 0 | 0 . |
| 3 | 11 UNIVERSITY OF CHICAGO 12 UNIV OF CAL SAN FRANCISCO 13 YALE UNIVERSITY 14 UNIVERSITY OF FLORIDA 15 UNIVERSITY OF UTAH | 255 240 232 227 224 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 100 0 0 | 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 255 140 232 227 224 | 0 0 0 0 | 0 0 0 0 |
| 3 | 06 DHIO STATE UNIVERSITY 17 UNIV OF NC AT CHAPEL HILL 18 UNIVERSITY OF ROCHESTER 19 PRINCETON UNIVERSITY 10 UNIVERSITY OF IDWA | 223 219 217 209 207 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 223 219 217 209 207 | 0 0 0 0 | 0 0 0 0 |
| 1 | DTAL 1ST 40 INSTITUTIONS | 17,180 | 0 | 0 | 0 | 1,224 | . 0 | o | 46 | 0 | 15,910 | . 0 | 0 |
| 4 | RICE UNIVERSITY OF HOUSTON CENTRAL CAM UNIV OF HAMAII-MANDA HARDMY UNIVERSITY N C STATE UNIV AT RALEIGH | 200 179 173 171 170 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 200 179 173 171 170 | 0 0 0 0 | 0 0 0 0 |
| 4 | 66 UNIVERSITY OF COLORADO 67 GEORGIA INSTITUTE OF TECH 68 IDMA ST U OF SCI & TECH 69 DREGON STATE UNIVERSITY 60 DUKE UNIVERSITY | 166 164 161 159 158 | 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 | 0 0 0 0 | 0 0 0 0 | 166 164 161 159 158 | 0 0 0 0 | 0 0 0 0 |
| 1 | TOTAL 1ST 50 INSTITUTIONS | 18,881 | . 0 | 0 | 0 | 1,224 | 0 | o | 46 | . 0 | 17,611 | 0 | 0 |

SEE FOOTNOTES AT END OF TABLE.

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TABLE 8-17. FEDERAL OBLIGATIONS FOR FACILITIES AND EQUIPMENT FOR INSTRUCTION IN THE SCIENCES AND ENGINEERING CONTINUED

TO THE 100 UNIVERSITIES AND COLLEGES RECEIVING THE LARGEST AMOUNTS.

BY AGENCY: FY 1978

(DOLLARS IN THOUSANDS)

| | | | | ,,,,, | | | | | | | | 10.7 | · · · | er Valid |
|----------|---|------------|----------|-------|---------|---------|-----|--------------|------|------|-------------------|-------|-----------|----------|
| RANK | INSTITUTION (RANKED BY AMOUNT RECEIVED) | TOTAL | USDA | CDM | DOD | DOE | EPA | нен | 1 NT | NASA | NSF | DOT | OTHE | R¢ ∩ |
| 51 52 | FLORIDA STATE UNIVERSITY UNIVERSITY OF DELAWARE | 154 152 | 0 · 0 | · 0 | 0 | 0 | 0 | 0 0: 0 | 0 | . 0 | 154 152 149 | , , | | 0 |
| 53 | | 149 | 0 | 0 | . 0 | 0 | 0 | ŏ | ŏ | ŏ | 146 | . 0 | A 1 1 | 0 |
| 54 | | 146 | 5 | . 0 | 0 | 0 | 0 | ñ | Ò | ŏ | 143 | 0 | Santa a | 0 |
| 55 | LEHIGH UNIVERSITY | 143 | . o | 0 | 0 | · | • | • | - | 100 | | 18.42 | 4 - May - | |
| | | 139 | n | 0 | . 0 | 0 | 0 | 0 | . 0 | 0 | 139 135 | 0 | 4 - 1 - | 0 |
| 56 | WASHINGTON STATE UNIV PENNSYLVANIA STATE UNIV | 135 | ŏ | . 0 | 0 | 0 | 0 | 0 | 0 | 0 | 129 | Ö | | ŏ |
| 58 | HICHIGAN STATE UNIVERSITY | 129 | 0 | 0 | υ | 9 | 0 | ŭ | ŏ | ŏ | 129 | . 0 | | 0 |
| 59 | HAYNE STATE UNIVERSITY | 129 | 0 | 0 | 0 | 0 | Ö | ŏ | Ď | 0 | 128 | 0 | | 0 |
| 60 | UNIV OF OKLAHOHA | 128 | 0 | 0 | 0 | Ū | • | | | | | _ | | 0 |
| TO | TAL 1ST 60 INSTITUTIONS | 20,285 | 0 | 0 | 0 | 1,224 | 0 | 0 | 46 | 0 | 19,015 | .0 | | 0 |
| 61 | HOWARD UNIVERSITY | 125 | 0 | 0 | 0 | Ŏ | 0 | 0 | 0 | Ö | 124 | ő | | ŏ |
| 62 | RUTGERS THE ST UNIV DF NJ | 124 | 0 | 0 | 0 | 0 | ů | ŏ | ŏ | ō | 123 | 0 | | 0 |
| 63 | CASE WESTERN RESERVE UNIV | 123 | 0 | 0 | 0 | ŏ | ő | ŏ | . 0 | 0 | 121 | : 0 | | 0 |
| 64 | INDIANA UNIV-BLOUMINGIUN | 121 120 | 0 | ŏ | ·ŏ | ō. | ō | 0 | 0 | 0 | 120 | . 0 | | 0 |
| 65 | UNIV OF TEXAS AT AUSTIN | 120 | | - | | | _ | 0 | 0 | 0 | 110 | 0 | | 0 |
| 66 | BRANDEIS UNIVERSITY | 110 | 0 | 0 | 0 | 0 89 | 0 | ŏ | ŏ | ŏ | 27 | Ö | | 0 |
| 67 | UNIV OF CAL RIVERSIDE | 107 | . 0 | 0 | ŏ | 0 | ŏ | ō | Ō | 0 - | 105 | 0 | | 0 |
| 68 | BRIGHAH YOUNG UNIVERSITY | 105 105 | . 0 | ŏ | ŏ | ŏ | ō | 0 | 0 | 0 | 105 | . 0 | | 0 |
| 69 | UNIV DE CAL SANTA BARBARA DARTHOUTH COLLEGE | 97 | ŏ | ŏ | ō | 0 | 0 | 0 | 0 | 0 | 97 | C | dis | |
| 70 | | | | • | 0 | 1,304 | 0 | 0 | 46 | 0 | 20,072 | C | | 0 |
| | OTAL 1ST 70 INSTITUTIONS | 21,422 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 96 | | | 0 |
| 71 | ILLINDIS INST OF TECH | 96 94 | 0 | 0 | ŏ | ŏ | ō | 0 | 0 | 0 | 94 | | | 0 |
| 72 | TEXAS AGH UNIVERSITY HARQUETTE UNIVERSITY | 94 | . 0 | ŏ | ō | 0 | 0 | C | 0 | 0 | 94 89 | | | 0 |
| 7: | | 89 | ō | 0 | Ō | .0 | 0 | 0 | ŏ | ŏ | 88 | · | | . 0 |
| 79 | ARIZONA STATE UNIVERSITY | 88 | 0 | 0 | 0 | 0 | U | · | • | - | | | | 1.2 |
| | | 87 | 0 | . 0 | 0 | 0 | 0 | 0 | 0 | 0 | 87 | • | | 0 |
| | 6 LOUISIANA STATE UNIV | 85 | ŏ | Ö | ō | o | 0 | ç | 9 | 0 | 87 | 1 1 | 5 | Ö |
| 7 | | 83 | ŏ | ō | 0 | 0 | 0 | 0 | 0 | 0 | 183 31. | | , . | ŏ |
| 7: 7: | O INTVERSITY OF PITTSBURGH | 81 | 0 | 0 | 0 | 0. | | ŭ | ŏ | ŏ | 78 | | Ď | 0 |
| 8 | | 78 | 0 | 0 | U | ٠. | • | - | | | | | 2000 | 0 |
| T | OTAL 15T BO INSTITUTIONS | 22,297 | 0 | 0 | 0 | 1,304 | 0 | . 0 | . 46 | 0 | 20,947 | | 0 0 | 0 |
| • | 1 UNIVERSITY OF GEORGIA | 78 | 0 | 9 | . 0 | 0 | 0 | 0 | . 0 | 0 | 78 77 | | 0 | ŏ |
| 8 | 2 UNIVERSITY OF CINCINNATI | 77 | . 0 | 0 | 0 | 0 | 0 | ŏ | ŏ | Ö | 74 | | ō san b | . 0 |
| 8 | 3 BOSTON UNIVERSITY | 74 | 0 | 0 | 0 | 10 | ŏ | ŏ | 0 | . 0 | 61 | | 0 | . 0 |
| . 8 | 4 UNIV OF CAL IRVINE | 71 70 | . 0 | ŏ | ŏ | ō | 0 | 0 | 0 | 0 | 70 | | 0 | 0 |
| 8 | 5 KENT STATE UNIVERSITY | 70 | | - | | | _ | a | 0 | . 0 | 70 | | 0 | 0 |
| | 6 UNIVERSITY OF NOTRE DAHE | 70 | 0 | 0 | 0 | . 0 | 0 | Ü | ŏ | ŏ. | 69 | | Ō | 0 |
| . в | 7 IINTV DE TEXAS AT DALLAS | 69 | 0 | 0 | 0. | ŏ | ŏ | , ŏ | . 0 | Ō | 69 | 2.0 | 0 | 0 |
| В | 8 UNIVERSITY OF DREGON MAIN | 69 67 | . 0 | ŏ | ŏ | ŏ | 0 | 0 | 0 | . 0 | 67 | • | 0 | 0 |
| 8 | 9 UNIV OF N H DURHAH | 63 | . ŏ | ō | Ō | 0 | o - | 0 | 0 | . 0 | 63 | | 0 | |
| 9 | O UNIV ALABAHA BIRHINGHAH | | | | | | 0 | 0 | 46 | . 0 | 21,645 | as T | 0 | 0 |
| - | DTAL 1ST 90 INSTITUTIONS | 23,005 | 0 | 0 | 0 | 1,314 | 0 | G | 0 | 0 | 61 | | 0 | 0 |
| 9 | I DREGON GRADUATE CENTER | 61 | 0 | 0 | . 0 | ŏ | ŏ | ŏ | ō | Ō. | 60 | | 0 | 0 |
| 9 | 2 UNIVERSITY OF KANSAS | 60 59 | 0 | ŏ | ŏ | , ō | Ö | . 0 | . 0 | 0 | . 59 | | 0 | Ö |
| 9 | UNIVERSITY OF NEW ORLEANS | 55 | ŏ | Ō | · О | , o | 0 | 0 | 0 | 0 | 55 54 | 1, | 0 | ŏ |
| 9 | 94 HOPE COLLEGE 95 UNIV OF HD COLLEGE PARK | 54 | Ō | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 53 | | 0 | 0 |
| | 6 CLEVELAND STATE UNIV | 53 | 0 | 0 | 0 | 0 | 0 | . 0 | 5 | ŏ | 53 | | 0 | 0 |
| | 7 SUNY AT BUFFALD | 53 | 0 | 0 | Ö | ŏ | ŏ | ŏ | . 0 | ō | 51 | | 0 | 0 |
| | A COL DE HED & DENT OF N J | 51 | 0 | 0 | Ö. | Ö | ŏ | 0 | 0 | 0 | 51 | | 0 | 0 |
| | 99 VA POLYTECH INST & ST U | 51 50 | Ü | ŏ | ŏ | ŏ | _ 0 | <⇒ 0 | 0 | 0 | 50 | ! | 0 | 0 |
| | OO CLARKSON COL OF TECH TOTAL 1ST 100 INSTITUTIONS | 23,552 | 0 | 0 | 0 | 1,314 | 0 | 0 | 46 | 0 | 22,192 | | 0 | 0 |
| 1 | Inive 121 too tusitioitans | , | • | | | | | | | | | 1.0 | | 1.144 |

^{*} INCLUDES AID, HUC, LABOR, AND NRC.
SOURCE: NATIONAL SCIENCE FOUNDATION

| RANK | INSTITUTION (RANKED BY AMOUNT RECEIVED) | TOTAL | · USDA | CDM | 000 | 00 E | EPA | неи | 1 NT | NASA | NSF | DOT. | DT HER* |
|------------------|--|-----------------------------------|------------------|------------------|-------------------|-------------------------|------------------|---------------------------------|----------------------------|------------------|-------------------------------|-------------------------|------------------|
| | UNITED STATES TOTAL | 74,102 | 0 | 0 | 0 | 329 | 0 | 44,677 | 5,007 | 0 | 23,783 | 306 | 0 |
| 2 3 4 | | 2,767 997 874 858 823 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 140 0 | 0 0 0 0 | 0 997 592 221 823 | 0 0 0 0 | 0 0 0 0 | 2,767 0 282 247 0 | 0 0 0 250 0 | 0 0 0 0 |
| 6 7 8 9 | UNIV DE CAL DAVIS UNIV DE CAL LOS ANGELES | 820 746 736 718 705 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 4 0 0 | 0 0 0 0 | 391 435 369 708 705 | 217 37 5 0 | 0 0 0 0 | 212 270 362 10 0 | 0 0 0 0 | 0 0 0 0 |
| TC | OTAL 1ST 10 INSTITUTIONS | 10,044 | 0 | 0 | 0 | 144 | 0 | 5,241 | 259 | 0 | 4,150 | 250 | 0 |
| 12 13 14 | I HARVARD UNIVERSITY UNIV OF NC AT CHAPEL HILL UNIVERSITY OF NEW HEXICO HEHARRY HEDICAL COLLEGE UNIVERSITY OF MINNESOTA | 665 642 641 626 622 | 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 647 390 621 626 470 | 0 2 0 0 152 | 0 0 0 0 | 18 250 20 0 0 | 0 0 0 0 | 0 0 0 0 |
| 17 16 | S UNIV OF CAL SAN DIEGO 7 CORNELL UNIVERSITY 8 UNIVERSITY OF KANSAS 9 MASS INST OF TECHNOLOGY 0 UNIVERSITY OF MASHINGTON | 600 590 587 577 571 | 0 0 0 0 | 0 0 0 0 | 0. 0 0 0 | 0 0 0 0 | 0 0 0 0 | 600 462 337 200 571 | 0 32 0 110 0 | 0 0 0 0 | 0 96 250 267 0 | 0 0 0 0 | 0 0 0 0 |
| T | OTAL 1ST 20 INSTITUTIONS | 16,165 | 0 | 0 | 0 | 144 | 0 | 10,165 | 555 | 0 | 5,051 | 250 | 0 |
| 22 | 1 UNIVERSITY OF ARIZONA 2 JOHNS HOPKINS UNIVERSITY 3 UNIV OF PENNSYLVANIA 4 UNIVERSITY OF CONNECTICUT 5 JACKSON STATE UNIVERSITY | 543 542 515 512 505 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 374 542 515 469 470 | 169 0 0 43 0 | 0 0 0 0 | 0 0 0 0 0 35 | 0 0 0 0 | 0 0 0 0 |
| 21 26 29 | 6 UNIV OF HIS-MADISON 7 PENNSYLVANIA STATE UNIV 8 STANFORD UNIVERSITY 9 UNIVERSITY OF COLORADO 0 UNIV OF CAL BERKELEY | 482 476 473 469 467 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 439 305 388 436 273 | 43 171 0 0 110 | 0 0 0 0 | 0 85 33 84 | 0 0 | 0 0 0 0 |
| Ţ | DTAL 1ST 30 INSTITUTIONS | 21,149 | o | 0 | 0 | 144 | . 0, | 14,376 | 1,091 | . 0 | 5,288 | 250 | 0 |
| 3; 3; | 1 COLUMBIA UNIV MAIN DIV 2 UNIV OF CAL IRVINE 3 MASHINGTON UNIVERSITY 4 UNIVERSITY OF PITTSBURGH 5 YALE UNIVERSITY | 463 453 449 438 437 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 463 204 301 399 437 | 0 0 0 0 | 0 0 0 0 | 0 249 148 39 0 | 0 0 0 0 | 0 0 0 0 |
| 3 3(| 6 MAYNE STATE UNIVERSITY 7 CHID STATE UNIVERSITY 8 UNIVERSITY DF D C 9 UNIV DF CAL SANTA CRUZ 0 UNIV DF ILL URBANA | 427 418 416 404 399 | 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | · 0 0 0 | 405 275 150 330 215 | 0 143 28 0 38 | 0 0 0 0 | 22 0 238 74 146 | 0 0 0 0 | 0 0 0 0 |
| Ţ | DTAL 1ST 40 INSTITUTIONS | 25,453 | 0 | 0 | 0 | 144 | 0 | 17,555 | 1,300 | 0 | 6,204 | 250 | 0 |
| 4 | 1 UMIV OF HAMAII-MANDA 2 U TEX HLTH SCI CTR-OALLAS 3 SELMA UNIVERSITY 4 UNIV OF CAL SAN FRANCISCO 5 TUSKEGEE INSTITUTE | 399 393 390 386 384 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 333 393 0 386 384 | 46 00 0 | 0 0 0 0 | 20 0 390 0 0 | 0 0 0 0 | 0 0 0 0 |
| | 7 TOUGALDO COLLEGE | 384 374 360 353 353 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 384 102 165 187 349 | 0 0 0 | 0 0 0 0 | 0 272 195 166 4 | 0 0 0 0 | 0 0 0 0 |
| TI | DTAL 1ST 50 INSTITUTIONS | 29,229 | 0 | 0 | · o . | 144 | 0 | 20,238 | 1,346 | 0 | 7,251 | 250 | 0 |

SEE FOOTNOTES AT END OF TABLE.

ERIC Full Text Provided by ERIC

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TABLE B-18. FEDERAL OBLIGATIONS FOR GENERAL SUPPORT FOR SCIENCE TO THE 100 UNIVERSITIES AND COLLEGES CONTINUED. RECEIVING THE LARGEST AHOUNTS. BY AGENCY: FY 1978

(DOLLARS IN THOUSANDS)

| INSTITUTION (RANKED BY RANK AMOUNT RECEIVED) | TOTAL | USDA | сон | DØD | DOE | EPA | HE W | INT | NA SA | NSF | OOT | OTHER* |
|--|---------------|------|-----|-----|-----|-----|------------|-------|-------|------------|-----|--------|
| 51 SUNY AT BUFFALD | 351 | 0 | 0 | 0 | Q | 0 | 351 | 0 | 0 | 0 176 | 0 | 0 |
| 52 NEW HEXICO HIGHLANDS UNIV | 349 | 0 | 0 | 0 | 0 | 0 | 173 349 | 0 | 0 | 1/0 | 0 | ŏ |
| 53 CASE WESTERN RESERVE UNIV | 349 | 0 | 0 | 0 | 0 | 0 | 93 | Ö | ŏ | 255 | ō | ō |
| 54 GRAMBLING STATE UNIV | 348 | 0 | 0 | 0 | 0 | Ö | 233 | 108 | Ō | 0 | 0 | 0 |
| 55 PURDUE UNIVERSITY | 341 | 0 | U | Ū | · | • | | | | | | _ |
| 56 HICHIGAN STATE UNIVERSITY | 339 | 0 | 0 | 0 | 0 | 0 | 289 | 50 | 0 | 0 88 | 0 | 0 |
| 57 UNIV OF TEXAS AT AUSTIN | 335 | 0 | 0 | 0 | 0 | 0 | 137 | 110 | 0 | 0 | 0 | Ö |
| 58 NORTHWESTERN UNIVERSITY | 332 | 0 | 0 | 0 | 0 | 0 | 332 321 | 0 | ŏ | 8 | ŏ | ŏ |
| 59 FLORIDA A & H UNIVERSITY | 329 | 0 | 0 | 0 | Ö | 0 | 299 | 28 | Ō | Ō | 0 | 0 |
| 60 LOUISIANA STATE UNIV | 327 | 0 | 0 | Ū | Ū | • | | | | | | |
| TOTAL 1ST 60 INSTITUTIONS | 32,629 | 0 | 0 | 0 | 144 | 0 | 22,815 | 1,642 | 0 | 7.778 | 250 | 0 |
| | | _ | | ' | 0 | 0 | 325 | 0 | 0 | n | 0 | 0 |
| 61 UNIVERSITY OF CHICAGO | 325 | 0 | 0 | 0 | 0 | ŏ | 61 | ŏ | ō | 239 | 0 | 0 |
| 62 UNIVERSITY OF LOUISVILLE | 320 319 | 0 | ò | 0 | ŏ | ŏ | 275 | 44 | 0 | 0 | 0 | 0 |
| 63 NEW MEXICO STATE UNIV 64 KNOXVILLE COLLEGE | 313 | ŏ | ŏ | ŏ | 0 | . 0 | 78 | 0 | 0 | 235 | 0 | 0 |
| 65 ALCORN STATE UNIVERSITY | 311 | ō | Ō | 0 | 0 | 0 | 311 | 0 | 0 | 0 | 0 | 0 |
| | | _ | _ | • | 0 | 0 | 308 | 0 | 0 | 0 | 0 | 0 |
| 66 UNIVERSITY OF ROCHESTER | 308 | 0 | 0 | 0 | 0 | Ö | 45 | ŏ | ŏ | 260 | 0 | 0 |
| 67 U.DF HOUSTON CENTRAL CAM | 305 299 | 0 | Ô | ŏ | ō | Ō | 299 | 0 | 0 | 0 | 0 | 0 |
| 68 DUKE UNIVERSITY ⇒ 69 COL OF MED & DENT OF N J | 297 | ŏ | ŏ | ŏ | 0 | 0 | 297 | 0 | 0 | 0 | 0 | 0 |
| 70 UNIV ALABAHA BIRHINGHAH | 296 | 0 | 0 | 0 | 0 | 0 | 296 | 0 | 0 | 0 | 0 | U |
| TDTAL 1ST 70 INSTITUTIONS | 35.722 | 0 | 0 | 0 | 144 | 0 | 25,130 | 1.686 | 0 | 8,512 | 250 | 0 |
| | | | _ | | 0 | 0 | 266 | 0 | 0 | 28 | 0 | 0 |
| 71 TEXAS SOUTHERN UNIV | 294 290 | 0 | 0 | 0 | 0 | ŏ. | 116 | Ō | 0 | 172 | 0 | Ō |
| 72 MILES COLLEGE 73 EMBRY UNIVERSITY | 287 | Ö | ŏ | ŏ | ŏ | ŏ | 264 | 0 | 0 | 23 | 0 | 0 |
| 74 VANDERBILT UNIVERSITY | 279 | ŏ | 0 | 0 | 2 | 0 | 277 | Ŏ | 0 | 277 | 0 | 0 |
| 75 HAMPTON INSTITUTE | 277 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | U | 211 | · | ŭ |
| | | 0 | 0 | 0 | 0 | 0 | 105 | 0 | 0 | 170 | 0 | 0 |
| 76 BETHUNE CODKHAN COLLEGE | 275 271 | 0 | 0 | ŏ | ŏ | ŏ | 143 | 128 | 0 | 0 | 0 | 0 |
| 77 UNIVERSITY OF KENTUCKY 78 NEW YORK UNIVERSITY | 270 | ŏ. | ŏ | Ö | 0 | 0 | 27 C | 0 | 0 | 0 | 0 | 0 |
| 79 DAKLAND UNIVERSITY | 267 | ŏ | Ō | Ō | 0 | 0 | 45 | 0 | 0 | 222 | 0 | Ö |
| BO TEMPLE UNIVERSITY | 267 | 0 | 0 | 0 | 0 | 0 | 267 | U | U | • | • | - |
| | 38,499 | . 0 | 0 | 0 | 146 | 0 | 26.885 | 1.814 | 0 | 9 . 404 | 250 | 0 |
| TOTAL 1ST BO INSTITUTIONS | 301477 | | | | 0 | 0 | 16 | 0 | 0 | 250 | 0 | 0 |
| 81 CUNY BROOKLYN COLLEGE | 266 | 0 | 0 | 0 | 0 | 0 | 265 | ŏ | ŏ | 0 | ō | 0 |
| B2 SOUTHERN U & A&M COLLEGE | 265 265 | Ö | ŏ | ŏ | ŏ | Ŏ. | 80 | 0 | 0 | 185 | 0 | . 0 |
| B3 JOHNSON C SMITH UNIV B4 INCARNATE WORD COLLEGE | 265 | ŏ | Ō | 0 | 0 | 0 | 265 | 0 | 0 | . 0 | 0 | 0 |
| B5 UNIV OF ALBUQUERQUE | 265 | 0 | 0 | 0 | 0 | 0 | 265 | 0 | 0 | 0 | U | Ū |
| | | | 0 | 0 | 0 0 | 0 | 264 | 0 | 0 | 0 | 0 | 0 |
| B6 UNIVERSITY OF VIRGINIA | 264 ·= 262 | , O | 0 | ŏ | ŏ | | 203 | 37 | ŏ | 22 | Ō | Ō |
| B7 DREGON STATE UNIVERSITY BB CUNY CITY COLLEGE | 261 | ŏ | ŏ | Ŏ | Ō | 0 | 0 | 0 | 0 | · 261 | 0 | 0. |
| B9 XAVIER UNIVERSITY OF LA | 261 | 0 | 0 | 0 | 0 | 0 | 261 | 0 | 0 | 0 | Ö | Ö |
| 90 VIRGINIA COMHONWLTH UNIV | 260 | 0 | 0 | 0 | 0 | 0 | 260 | U | U | ٠ | • | • |
| TOTAL 1ST 90 INSTITUTIONS | 41,133 | 0 | 0 | 0 | 146 | 0 | 28,764 | 1.851 | 0 | 10.122 | 250 | 0 |
| | 258 | n | 0 | 0 | 0 | 0 | 258 | 0 | . 0 | 0 | . 0 | 0 |
| 91 SUNY AT STONY BROOK 92 Golden West College | 250 | . 0 | ŏ | ō | Ō | Ō | 0 | 0 | 0 | 250 | 0 | 0 |
| 93 UNIVERSITY OF SCRANTON | 250 | Ō | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 250 250 | 0 | 0 |
| 94 LAKE FOREST COLLEGE | 250 | 0 | 0 | 0 | 0 | 0. | 0 | 0 | . 0 | 250 | | ŏ |
| 95 STEVENS INSTITUTE OF TECH | 250 | 0 | 0 | 0 | 0 | 0 | - | • | | | | |
| 96 BAPTIST COL AT CHARLESTON | 250 | 0 | 0 | . 0 | 0 | 0 | . 0 | 0 | 0 | 250 250 | 0 | 0 |
| 97 UNIV OF THE SACRED HEART | 250 | 0 | 0 | 0 | 0 | 0 | ŏ | ŏ | ő | 250 | ō | 0 |
| 98 DENISON UNIVERSITY | 250 | 0 | 0 | . 0 | 0 | 0 | ő | ŏ | Ŏ | 250 | 0 | . 0 |
| 99 REED COLLEGE | 250 250 | 0 | ő | ŏ | ŏ | ō | 0 | 0 | 0 | 250 | 0 | 0 |
| 100 BERFA COLLEGE | | | • | . 0 | 146 | 0 | 29.022 | 1,851 | 0 | 12,372 | 250 | 0 |
| TOTAL 1ST 100 INSTITUTIONS | 43,641 | 0 | ٥ | . 0 | 140 | U | . 71022 | ., | · | | | - |

INCLUDES AID, HUD, LABOR, AND NRC.
 SDURCE: NATIONAL SCIENCE FOUNDATION

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TABLE 8-19. FEOERAL OBLIGATIONS TO UNIVERSITIES AND COLLEGES FOR RESEARCH AND DEVELOPMENT, 8Y DETAILED FIELD OF SCIENCE AND AGENCY: FY 1978

(OULLARS IN THOUSANDS)

| ********************* | | | | | | | | | | | | |
|--------------------------|----------------------|---------------------|---------------|--------------------|--------------|--------------------|-----------|------------------|---------------------|---------------------|--------------|------------------|
| FIELO OF SCIENCE | Total | USOA | CDH | | | EPA | | I I Int | nasa |] NSF | -007 | OTHER¢ |
| | <u> </u> | L | ļ | | ļ | ļ | i | ļ | | ļ | | - |
| TOTAL, ALL FIELOS | 3,362,174 | 175,269 | i 35,042 | i 452,249 | 250,912 | j 51,145 | 1,656,410 | 34,258 | 124•482 | j 509•732 | 16,183 | 56,492 |
| PHYSICAL SCIENCES. TOTAL | 438,707 | 10,263 | 484 | 68,191 | 104,607 | 5.167 | 48,998 | 533 | 50,721 | 1147,433 | 1,190 | 1,120 |
| A STRONOHY |] 37,864 |] 0 |] 301 | i I 332 |) 20 | ! 0 |) 0 |] 0 |] 23.200 | 1 14,011 | 0 | 0 |
| CHEMISTRY | 134,530 | 10,159 | | 13,219 | 11,001 | 3,569 | | 1 486 | 1 3,749 | 1 44,615 | 97 | į č |
| PHYSICS | | | | 44,494 10,146 | 91,135 | | | | | 70,688 1 18,119 | | |
| HATHEHATICAL & COMPUTER | | } ! | ļ | <u> </u> | ! ! | ! | | ! | ! | ł | ! | ļ . |
| SCIENCES, TOTAL | 75,965 | 248 | 330 | 27,642 | 728 | 247 | 6,283 | 887 | 1,507 | 37,652 | 441 | į (|
| MATHEMATICS | | | | 14,963 | | | | | | 21,060 | | |
| COMPUTER SCIENCES | 33,227 |] 0] | l 330 I | 12,017 | 293 | 1 0 | 2,406 | 1 433 |] 777 | 16,592 | l 379 | (|
| SCIENCES, NEC | 1,055 | 0 | į o | 662 | 365 | | 0 | 28 | į o | į o | į o | į |
| ENVIRONMENTAL SCIENCES. | i | i | i | i | i | ¦ | | ¦ . | i | l | | ¦ |
| TOTAL | 303,189 | 983 I | 26,284 | 40,612 | 52,140 | 10,384 | 0 | 14,313 | 36,421 | 118,087 | 124 | 3,841 |
| ATHOSPHERIC SCIENCES | | | | 11,980 | | | | | | 28 , 525 | | 291 |
| GEOLOGICAL SCIENCES | | | 0 25,901 | 18,231 9,699 | | | | 112,119 1 297 | | 47,460 18,347 | | |
| ENVIRONMENTAL SCIENCES, | 45.143 | j | 1 | j | i | 1 | · | i | 1 |) | İ | ĺ |
| NEC | 42,143 | l 0 I | 0 |) 702 |] 3,728] | 8,111 | 0 |] 30] | 7,838 | 23,755 | l 39 |) 940 |
| ENGINEERING, TOTAL | 498,495 | l 6,632 | 1 3,683 | 270,720 | 68,779 | 4.933 | 32,424 | 8,046 | 23,710 | 63,669 | 112,291 | 3,608 |
| AERONAUTICAL | 20,732 849 | | | 10,030 130 | | | | | | | | |
| CHEMICAL | | | | | | | | | | | | |
| CIVIL | | 35 | 921 | | | | | 1,999 | | 15,690 | | |
| HECMANICAL | | | | 1 45,323 5,628 | | | | | | | | |
| HETALLURGY & MATERIALS | | | | 13,334 | | | | 3,983 | | 1 11,651 | | |
| ENGINEERING, NEC | | | | 186,886 | | 1,052 | | 1,277 | | | 3,157 | |
| LIFE SCIENCES, TOTAL | 1,713,436 | 128,933 | 42 | 32,818 | 23,382 | 24,050 | 1,384,695 | 6,177 | 8,646 | 89,507 | 619 | 14,567 |
| BIDLOGICAL | 972.309 | 124,215 | 1 42 | 21,438 | 21.624 | 17,673 | 694,020 | 6.031 | 4.113 | 73,007 | 0 | 10,146 |
| HEOICAL | 710,193 | 4,718 | l · 0 | 11,259 | 65 | 4 + 6 7 9 1 | 681,025 | 146 | | | | 1 4,421 |
| LIFE SCIENCES, NEC | 30,934 | 0 | [0 | 121 | 1,693 | 1,698 | 9,650 | 0 | 1 +871 | 15,901 | . 0 | |
| PSYCHOLOGY, TOTAL | 71.785 | 0 | 36 | 3,937 | 49 | 408 | 49,029 | 10 | 870 | 9,386 | 462 | 7,598 |
| BIOLOGICAL ASPECTS | | | | | | | | | | | | |
| SOCIAL ASPECTS | | | | | | | | 10 0 | | | | 7,598 |
| - | ji | | j i | | | i - i | | | | j | i | ĺ |
| SUCIAL SCIENCES, TOTAL | | 28,210 | 4 • 183 | 1,227 | 969 | 450 | | 4,172 | , | 30,068 | 1 807 | 25,758 |
| ANTHROPOLUGY | | 0 21,505 | | | | | | 2,664 | | | | 12•061 |
| HISTORY | | | | | | | | | | | | |
| LINGUISTICS | | | | | | | | | | | | |
| POLITICAL SCIENCE | 4,843 | 0 | l oi | 423 | 0 | 0 | 1,113 | 35 | 29 | | | |
| SOCIOLOGY | | | | | | | 16,791 | 179 | 0 | 4 , 6 6 5 | 213 | 11,309 |
| SOCIAL SCIENCES, NEC | l 76•050∫ I | 583 | l 0: | 141 | 0 | 0 | 67,2061 | 497 | l 25 | 5 • 063 | 147 | l 2,388 ! |
| OTHER SCIENCES, NEC | 76,174 | 0 | 0 | 7 +102 | 258 | 5,506 | 46,456 | 120 | 2,553 | 13,930 | 249 | į c |
| | | | | | | | | 1 | L | L | L | L |

[#] _INCLUDES AID+ HUD. LABOR, AND NRC.



TABLE 8-20. HEN ÜBLIGATIONS TU UNIVERSITIES AND CULLEGES FOR RESEARCH AND DEVELOPMENT, BY DETAILED FIELD OF SCIENCE AND HEN COMPONENT: FY 1978

(DULLARS IN THOUSANUS)

| FIELD OF SLIENCE | TUTAL | N1H | HRA I | H5A | ADAMHA I | coc | FUA | OE I | nić l | аноѕ [| HCFA | SSA | 1 0HPRS 1 1 | JIHEK DHEH |
|--|----------------|--------------|--------|-------|--------------|--------|-------|------------|--------|-----------------|-------|------|-------------------|---------------|
| | | | ! | | <u>-</u> | | | | | , , | 1 | | i I | |
| TUTAL, ALL FIELDS | 1,656,410 | 1,451,677 | J | 3,673 | 94,534 | 5,073 | 9,467 | 9,295 | 22,818 | 34,314 | 6,783 | U | 14,664 | 2,086 |
| PHYSICAL SCIENCES, TUTAL | | | | ΰ | 573 | 715 | ٥ | ٥į | ٥١ | 11,355 | أد | Ü | | |
| CHEMISTRY | ا 5ده, 47 | | | | | | | | 0 | 11,355 | | 0 | | ຸ ນ |
| PHYSICS | 1,363 | 1,279 | U | ٥ | | יים | | | Ĭ | i | Ĭ | | | |
| MATHEMATICAL & CUMPUTER SCIENCES, TUTAL | l 6,283 |] 3,103 | ان | v | 972 | 3 | U | οį | v | 1,937 | งเ | 0 | 270 | v |
| MATHEMATILS | 1 |]] 3,103 | | | | | | | | 0 1,937 | | U | | |
| COMPUTER SCIENCES | 2,406 | i 0; | U | i | i | i i | i | i i | | i i | . ! | | i | İ |
| ENGINEERING, TOTAL | 32,424 | 28,102 | 0 | 10 | j 0 | i | i | i į | | 3,523 | | | i | i |
| CHEMILAL | i 127 i 134 | | _ | | | | | | U | į ūi | . 0 | Ü | i | i o |
| MECHANICAL | | | | į o | į 0 | 538 | l u | i i | | 3,523 | | į | i - | i i |
| LIFE SLIENCES, TUTAL | 1,384,695 | 1,319,829 | U | 3,622 | 40,185 | 4,215 | 9,407 | ا ا | J | 1,377 | Ì | i | i | ĺ |
| alulüülcal | 694,020 | | o O | 0 | 25,330 | 12,23b | 1,799 | ו סו וט | | 1.377 | | | i o | į v |
| MEDICAL | 1 001,025 | | | | 6,168 | | 1,462 | • | | i 0 | i U | l o | 1 0 | l o |
| PSYCHOLOGY, TUTAL | 49,029 | 20,511 | , 0 | ٥ | 27,357 | 118 | ٥ | 0 | υ | 1,043 | į o | i o | į o | 1 0 |
| BIULOGICAL ASPECIS | 15,586 | | | | 14,930 | | | | | i oi i 1.043 | | | • | |
| SUCIAL ASPECTS | 13,279 | | • | | 12,236 | | | | • | 1 | • | | i | |
| SOCIAL SCIENCES, TOTAL | i | 1 | 0 | 1 51 | 17,848 | 1 0 | 1 0 | 8,623 | 22,717 | 14,974 | 0 | | 14,614 | 976 |
| ANTHRUPOLUGY | 1 | 1 | . | 1 0 | 1 1,231 | 1 0 | | | | | | • | 989 | |
| ECONUMICS | 1 1,346 | j 0 | į o | | 1 34 1 54 | | | 0 | | 173 | į s | į .ū | 1 0 | i o |
| HISTORY LINGUISTICS | 1 784 | ii i | i e | i | 784 1 104 | i o | i o | 0 | | 1 934 | i o | i | 17 | ن ز |
| PULITICAL SCIENCE | . 16,791 | 371 | į c | 51 51 | 14,280 | ni o | iā | i o | |) 137, 130 | | | 1,952 11,656 | |
| SUCTAL SLIENCES, NEC | 1 | 1 | i | i | 1 1,596 | i | ĺ | 673 | 1 | l | 6,783 |] | 1 | 1 1,710 |
| OTHER SCIENCES, NEC | . 46,456 | 35,255 | 1 | 1 | 1 1,596 | .1 | i | i | i | i | İ | İ | .1 | .1 |

TABLE 8-21. DDD D8L1GATIONS TO UNIVERSITIES AND COLLEGES FOR RESEARCH AND DEVELOPMENT, 8Y DETAILED FIELD OF SCIENCE AND DOD COMPONENT: FY 1978

(DOLLARS IN THOUSANDS)

| | | | | | |
|---|-----------|--------|---------|-----------|---------|
| FIELD OF SCIENCE |] TOTAL : | ARMY | I NAVY | AIR FORCE | I OTHER |
| | L | | l | | |
| TOTAL, ALL FIELDS | 452,249 | 69,413 | 280,596 | 91,909 | 10,331 |
| PHYSICAL SCIENCES, TOTAL | 68,191 | 18,712 | 25,449 | 23,667 | 363 |
| ASTRONOMY | 332 | | | | |
| CHEMISTRY | 13,219 | | | | |
| PHYSICS | 44,494 | | | | |
| PHYSICAL SCIENCES, NEC | 10,146 | 1,259 | 5 • 996 | 2,891 | . • |
| HATHEMATICAL & COMPUTER SCIENCES, TOTAL | 27,642 | 5,483 | 12.300 | 9,543 | 316 |
| MATHEMATICS | 14,963 | 4.142 | 2,309 | 8,196 | 316 |
| COMPUTER SCIENCES | 1 12,017 | 1,025 | 9.645 | 1,347 | Ō |
| PATHEMATICAL & COMPUTER SCIENCES, NEC . | 662 | 316 | 346 | 0 | 0 |
| ENVIRONMENTAL SCIENCES, TOTAL | 40,612 | 2,735 | 27,606 | 10,241 | 30 |
| ATMOSPHERIC SCIENCES | 11.980 | 1,915 | 1.811 | 8,224 | 30 |
| GEOLOGICAL SCIENCES | | | | | |
| GCEANDGRAPHY | | | | | |
| ENVIRONMENTAL SCIENCES. NEC | 702 | 59 | 195 | 448 | Ō |
| ENGINEERING. TOTAL | 270,720 | 31,614 | 187,273 | 43,062 | 8,771 |
| AERONAUTICAL | 10.030 | 703 | 398 | 8,929 | 0 |
| ASTRONAUTICAL | | | | | |
| CHEMICAL | 3,145 | 1,373 | 159 | 1,613 | i ō |
| CIVIL | | 163 | 1,966 | 4,115 | 0 |
| ELECTRICAL | | 18,393 | 9,546 | 16,155 | 1,229 |
| MECHANICAL | | | | 2,417 | 0 |
| METALLURGY & MATERIALS | | | | | |
| ENGINEERING, NEC | 186,886 | 6,369 | 171,046 | 1,929 | 7,542 |
| LIFE SCIENCES. TOTAL | 32,818 | 9,199 | 20,355 | 3,264 | 0 |
| 810LOGICAL | 21,438 | | | | 0 |
| WEDICAL | | | | | |
| LIFE SCIENCES, NEC | 121 | 110 | 11 | 0 | 0 |
| PSYCHOLOGY. TOTAL | 3.937 | 716 | . 1,979 | 1,242 | 0 |
| BIOLOGICAL ASPECTS | 480 | ⊢ oi | 35 | 445 | . 0 |
| SOCIAL ASPECTS | | | | | |
| . PSYCHOLOGY. NEC | | 288 | | | 0 |
| SOCIAL SCIENCES, TOTAL | 1,227 | | | 5 2 | 0 |
| ECONOMICS | | | 48: |) 0 | 0 |
| POLITICAL SCIENCE | 4231 | | | | |
| SDC 10L DGY | | | | | |
| SOCIAL SCIENCES, NEC | 141 | | | | |
| OTHER SCIENCES, NEC | 7,102 | 837 | 4,576 | 838 | 851 |
| | · | | | | |



TABLE B-22. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT TO THE 100 UNIVERSITIES AND COLLEGES RECEIVING THE LARGEST AMOUNTS, BY BROAD AREA OF SCIENCE: FY 1978

| | | | | 1000 | L4 (1) | | | | | |
|----------|--|--------------------------|---|------------------|--------------------------------|------------------|------------------|-----------------|----------------|----------------------------|
| | · INSTITUTION (RANKEO | | PHYSICAL SCIENCES | HATHE- HATICS | ENVIRON- MENTAL Sciences | ENGI- NEERING | LIFE SCIENCES | PSYCHOL- OGY | SOCIAL S | OTHER SCIENCES • NEC |
| RANK | AMOUNT RECEIVED) | 3.362.174 | 438,707 | 75.965 | 303,189 | 498,495 | 1,713,436 | 71.785 | 184 . 423 | 76,174 |
| | UNITED STATES TOTAL | 3,302,117 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | , | | | | | - 450 | 1.629 |
| | | y ¹ / 196,081 | 4,015 | 365 | 1,973 | 137,802 | 45,686 | 961 | 3,650 | 1,190 |
| 1 | JOHNS HOPKINS UNIVERSIT | 114,021 | 42.747 | 3.265 | 14.328 | 30,477 | 17.999 | 684 | 3,331 3,043 | 2.061 |
| Z | MASS INST OF TECHNOLOGY | 80.110 | 15,440 | 3,666 | 4,893 | 13,249 | 35,680 | 2,078 569 | 443 | 157 |
| 3 | STANFORD UNIVERSITY UNIV OF CAL SAN DIEGO | 77,033 | 12,738 | 687 | 27,911 | 2,632 | 31.896 | 1,325 | 2.029 | 1.351 |
| 5 | UNIVERSITY OF WASHINGTO | | 8 • 183 | 985 | 9,985 | 4,415 | 47,807 | 11323 | | |
| | | | 9.464 | 1,912 | 3.778 | 6.256 | 39,606 | 2,312 | 4 . 4 4 5 | 1.822 |
| 6 | UNIV OF CAL LOS ANGELES | 69.595 | 10,283 | 554 | 3.197 | 2,210 | 44,593 | 2,046 | 3,314 | 2,323 |
| 7 | HARVARD UNIVERSITY | 68.520 65.225 | 9,492 | 1.898 | 4,258 | 3,529 | 38.35C | 1.116 | 4,161 | 2•421 726 |
| | UNIV OF HIS-HADISON | 64,687 | 9,928 | 726 | 10,264 | 2,254 | 36,417 | 462 | 3,910 | 890 |
| .9 10 | COLUMBIA UNIV HAIN DIV UNIVERSITY OF MINNESOTA | | 6 . 8 3 2 | 1.654 | 2.020 | 3,407 | 40,289 | 1,349 | 3,141 | 070 |
| | | | 129,122 | 15,712 | 82,607 | 206,231 | 378.323 | 12,902 | 31,467 | 14.570 |
| | ITAL 1ST 10 INSTITUTION | - | | | F 343 | 7.422 | 24,609 | 3,245 | 7.822 | 1.302 |
| 11 | UNIVERSITY OF HICHIGAN | 58,444 | 7.900 | 901 | 5,243 2,162 | 4.871 | 27,110 | 317 | 2,603 | 1.402 |
| 12 | CORNELL UNIVERSITY | 58+258 | 18,698 | 1,135 | 357 | 2.417 | 39 +617 | 979 | 4,507 | 802 |
| 13 | JUNIO OF PENNSYLVANIA | 56,138 | 7 • 631 | 828 1•190 | 975 | 1,137 | 38,996 | 1,912 | 2,155 | 1 • 397 |
| 14 | YALE UNIVERSITY | 53.805 | 6 • 043 | 3,512 | 2,476 | 7,927 | 16 .655 | 2 . 851 | 3,900 | 894 |
| 15 | UNIV OF CAL BERKELEY | 49.663 | 11,448 | 31312 | 2,,,0 | | | | • | |
| | | | 9.038 | 931 | 4,140 | 1,023 | 29 .844 | 1.018 | 1.101 | 1,889 |
| 16 | UNIVERSITY OF CHICAGO | 48,984 300 46,388 | 279 | 65 | 0 | 512 | 41,929 | 1,108 | 1,613 | 882 |
| 17 | UNIV OF CAL SAN FRANCIS | 42,947 | 12.804 | 1,444 | 2,231 | 9,372 | 10,758 | 1,412 | 4,127 | 1,799 3,374 |
| 18 | UNIV OF ILL URBANA | 42,458 | 8 981 | 1,348 | 1,932 | 6 • 258 | 18,476 | 407 | 1,682 885 | 1.121 |
| 15 | UNIV OF SOUTHERN CAL | 41,974 | 1.868 | 207 | 491 | 2,054 | 34,611 | 737 | 000 | 14161 |
| | C WASHINGTON UNIVERSITY | | 213,812 | 27,273 | 102.614 | 248,184 | 659,928 | 26,888 | 61,862 | 29,432 |
| | DTAL 1ST 20 INSTITUTION | | | | | 10 477 | 15 •255 | 202 | 1.788 | 259 |
| 21 | 1 PENNSYLVANIA STATE UNI | y 1, 41,974 | 2.947 | 524 | 2,526 | 18,473 596 | 24,690 | 1,347 | 1,162 | 1 . 578 |
| 2 | 2 NEW YORK UNIVERSITY | 38,233 | 4 • 189 | 1.709 | 2 • 964 3 • 4 36 | 7,949 | 4,732 | 514 | 841 | 1,961 |
| 2 | 3 UNIV OF TEXAS AT AUSTI | N 37.232 | 9,039 | 8 • 760 | 1,233 | 716 | 27,789 | 626 | 1,739 | 638 |
| 2 | 4 DUKE UNIVERSITY | 39,632 | 1.754 | 137 940 | 860 | 4,214 | 13,935 | 661 | 9,100 | 796 |
| 2 | 5 CHIO STATE UNIVERSITY | -33,983 | 3,477 | 940 | 880 | | | | 504 | 977 |
| _ | | g 33,616 | 4.856 | 676 | 2,312 | 3,470 | 20,039 | 782 | 705 | 552 |
| - 21 | 6 UNIVERSITY OF ROCHESTE | | 6,320 | 390 | 3,085 | 1,693 | 18,470 | 876 568 | 1.855 | 252 |
| | 7 UNIVERSITY OF COLORADO 8 PURDUE UNIVERSITY | 29,554 | 6,170 | 1,826 | 2,571 | 5,970 | 10,342 | | 0 | 363 |
| | 9 UNIVERSITY OF UTAH | 29,352 | | 939 | 5 • 3 3 2 | 3,440 | 16.076 | | 255 | 248 |
| | C YESHIVA UNIVERSITY | 28,710 | | 82 | 0 | 25 | 27,436 | , ,,,,, | | |
| _ | | NS 1,709,372 | 255,799 | 43,256 | 126,933 | 294,730 | 838,692 | 33,095 | 79,811 | 37,056 |
| T | OTAL 1ST 30 INSTITUTIO | | | | 7 744 | 4,660 | 6,723 | 137 | 235 | 253 |
| 3 | 1 CALIFORNIA 1NST OF TEC | H 28,106 | | 4 05 | 3,744 661 | 943 | | | 622 | 264 |
| 3 | 2 UNIV OF CAL DAVIS | 27,721 | | | 369 | | | | 1,384 | |
| 3 | 13 NORTHWESTERN UNIVERSIT | Y 26+635 | | 805 1,046 | 1 • 3 9 3 | | | | 1,482 | |
| 3 | 4 UNIV OF NC AT CHAPEL H 5 BAYLOR COL OF HEDICINE | 11 20,000 | 1,853 2,050 | 1,040 | 162 | | | . 3 | C | 435 |
| | | | | 879 | 461 | 1.924 | 14,346 | | 3,119 | |
| 3 | 6-UNIVERSITY OF PITTSBUR | GH 25,984 | | | _ | | | | 1,163 | |
| 3 | 7 UNIVERSITY OF ARIZONA | 25,828 | | | | | 15,568 | 271 | 749 | |
| 3 | 38 LNIVERSITY OF MIAMI | 25,744 | | | | | 15,724 | | 391 | |
| 3 | 9 CASE WESTERN RESERVE L O UNIVERSITY OF 10WA | INIV 24,730 24,371 | | 535 | | | 15.260 | 439 | 786 | |
| | | INS 1,971,522 | 294.196 | 47.857 | 145,857 | 315,609 | 997.202 | 37.373 | 89,74 | |
| | in the second of the second of the second | | | 672 | 1.5B9 | 14,251 | 1 ,462 | | | |
| 4 | AT GEORGIA INSTITUTE OF | TECH 22,122 | | | | | | 245 | | |
| - | 42 HICHIGAN STATE UNIVER: | 5114 21,194 | | | 22 | . (| 20,085 | 5 42 | | |
| 4 | 43 UNIV ALABAMA BIRMINGH | 21,466 21,466 | | | | 4,37 | 11,419 | | | |
| | 44 UNIVERSITY OF FLORIDA 45 U 7EX-ANORSN HOSPETUH | OR 1 21,21 | | | | | 18,56 | 3 0 | | |
| | * /* | | | | 4,038 | 2.17 | 9 9 133 | 919 | | |
| | 46 COLDRADO STATE UNIVER | SITY 20,37 | | | | | | | 1,58 | |
| | 47 TEXAS ASH UNIVERSITY | 20.16 | | | | | | 7 328 | 32 | |
| | 48 VANDERBILT UNIVERSITY | 20,139 | | | | | | 2 0 | 1.57 | |
| | 49 UNIV OF ALASKA-FAIKOA | NKS 20,13 19,72 | | | | | | | 59 | 3 500 |
| , | 50 BOSTON UNIVERSITY | | _ | 7 .51,271 | | | 3 1.111.32 | 4 40.545 | 100.67 | 9 48,027 |
| | TOTAL 1ST 50 INSTITUTI | ONS · 2,180,11 | 9 311 400 | | | | | | • | |

SEE FOOTNOTES AT END OF TABLE.

| | | | | | F 9 B B | | | | | | |
|------|---|------------------|----------------|---------------|--------------------|-----------|-----------------|----------|------------|--------------------|---|
| | INSTITUTION (RANKEO BY | | PHYSICAL | MATHE- | ENVIRON~ Mental | E NG 1- | LIFE | PSYCHOL- | SOCIAL | OTHER Sciences. | |
| RANK | AMOUNT RECEIVED) | TOTAL | SCIENCES | MATICS | SCIENCES | NE ER ING | SCIENCES | DGY | SC LENCE S | NEC | |
| 51 | WOODS HOLE DENGRPHIC INST | 19,621 | 422 | 0 | 17,363 | 621 | 409 | 0 | 0 | 806 | |
| | UNIV OF MO COLLEGE PARK | 19,347 | 8.885 | 1,641 | 1,974 | 1.840 | 3,408 | 552 | 1.047 | 0 | |
| | LNIVERSITY OF VIRGINIA | 18,883 | 1.669 | 739 | 889 | 2,904 | 11.820 | 202 | 513 | 147 | |
| | CUNY MT SINAL SCH OF MEO | 18,868 | 198 | 0 | 0 | 0 | 17,614 | 200 | 737 | 119 | |
| 55 | OREGON STATE UNIVERSITY | 18,532 | 833 | 238 | 7,101 | 499 | 8,816 | 383 | 662 | ó | |
| 56 | U TENNESSEË KNOXVILLE | 18,462 | 1.080 | 350 | 358 | 9.542 | 5,636 | 238 | 1.086 | 172 | |
| 57 | UNIVERSITY OF NEW MEXICO | 18.392 | 1,024 | 91 | 556 | 4,860 | 11,255 | 42 | 564 | 1/2 | |
| 58 | | 17,473 | 1,167 | 285 | 10 | 76 | 14.939 | 597 | 77 | 322 | |
| 59 | UNIV OF HAWAII-MANCA | 17,233 | 2,010 | 353 | 5,789 | 539 | 7.573 | 195 | 541 | 233 | |
| 60 | PRINCETON UNIVERSITY | 16,759 | 6.046 | 945 | 924 | 4.102 | 3,179 | 704 | 606 | 252 | |
| | TAL 1ST 60 INSTITUTIONS | 2,363,686 | 335,221 | 55,914 | 209,224 | 367,106 | 1,195,973 | 43,658 | 106.512 | 50,078 | |
| | UNIV OF HO BALT PROF SCH | 16,592 | 12 | 44 | . 0 | 40 | 15,483 | 202 | 244 | 567 | |
| | NEH MEXICO STATE UNIV | 16,260 | 350 | 146 | 1,576 | 10.268 | 3,205 | 118 | 575 | 22 | |
| | UNIVERSITY OF KANSAS | 16,179 | 879 | 285 | 883 | 1.375 | 10,429 | 720 | 1,421 | 187 | |
| | U TEX HLTH SCI CTR-OALLAS | | 29 | .0 | . 0 | 0 | 15,474 | 203 | 130 | 248 | |
| | UNIVERSITY OF CONNECTICUT | 14,923 | 633 | 81 | 296 | 648 | 11.707 | 200 | 1.059 | 299 | |
| | VA POLYTECH INST & ST.U | 14.501 | 1,616 | 722 | 2,487 | 3.346 | 4.957 | 347 | 862 | 164 | |
| | UNIVERSITY OF GEORGIA | 14,180 | 818 | 123 | 554 | 706 | 9,608 | 159 | 1,478 | 734 | |
| | LOUISIANA STATE UNIV | 13,799 | 995 | 134 | 2,906 | 908 | 8.237 | Ö | 535 | 84 | |
| | UNIV OF MISSOURI COLUMBIA | | 8 75 | 261 | 435 | 1,276 | 7.801 | 405 | 2,492 | 131 | |
| 70 | CARNEGIE MELLON UNIV | 13.569 | 3,979 | 1,187 | 850 | 4,719 | 1,456 | 417 | 798 | 163 | |
| | TAL 1ST 70 INSTITUTIONS | | 345.407 | 58,897 | 219,211 | 390,392 | 1,284,330 | 46,429 | 116,106 | 52.677 | |
| | RUTGERS THE ST UNIV OF NJ | 13,537 | 3,541 | 650 | 306 | 415 | 5,182 | 1,343 | 1,402 | 698 | |
| | UNIVERSITY OF CINCINNATI SUNY AT BUFFALO | 13,362 | 744 | 104 | 290 | 1,476 | 10,031 | 519 | 41 | 157 | |
| | GEORGE WASHINGTON UNIV | 13,155 13,003 | 1,089 | 387 | 534 | 1,462 | 9,248 | 220 | 169 | 46 | |
| | EMORY UNIVERSITY | 12,921 | 789 | 436 0 | 255 | 2,751 | 5,833 | 273 | 823 | 1,612 | |
| ., | EMURI UNITERSITI | 12,721 | 709 | U | 148 | 152 | 10,730 | 866 | , 1 | 235 | * |
| 76 | TEMPLE UNIVERSITY | 12,559 | 1.083 | 46 | 114 | 143 | 10 727 | 50 | 508 | 202 | |
| | SUNY AT STONY BROOK | 12,372 | 3 • 5 75 | 517 | 856 | 666 | 10,323 5,717 | 588 | | 292 | |
| | UNIVERSITY OF OAYTON | 12,222 | 222 | 72 | 255 | 11,389 | 166 | 32 | .413 86 | 40 0 | |
| 79 | UNIV OF VT & ST AGRIC COL | 12,059 | 514 | B | 308 | 87 | 7,733 | 86 | 3.034 | 289 | |
| 80 | UNIVERSITY OF KENTUCKY | 11,921 | 502 | 237 | 70 | 2,231 | 7,351 | ō | 1,247 | 283 | |
| TOT | AL 1ST 80 INSTITUTIONS | 2,640,560 | 358 • 486 | 61,354 | 222,347 | | | | | | |
| | | | | | | 411,164 | 1,356,644 | 50,406 | 123.830 | 56,329 | |
| | UNIV OF CAL IRVINE | 11,861 | 2.808 | 179 | 390 | 1.061 | 6 •2 93 | 395 | 389 | 346 | |
| | BROWN UNIVERSITY | 11,618 | 3,105 | 1.607 | 1.559 | 1,397 | 3,200 | 362 | 315 | 73 | |
| | GEORGETOHN UNIVERSITY N C STATE UNIV AT RALEIGH | 11,595 | 673 | 20 | 254 | 2.992 | 6.782 | 38 | 648 | 183 | |
| • | VIRGINIA COHMONWLTH UNIV | 11,436 | 1.071 | 115 | 676 | 1.501 | 6,670 | 0 | 787 | 616 | |
| | | 11,368 | 110 | 0 | 0 | 87 | 10.450 | 0 | 302 | 419 | |
| | INDIANA UNIV-BLOOMINGTON | 10,949 | 4 • 4 3 4 | 425 | 199 | 307 | 3,339 | 787 | 923 | 535 | |
| | UNIV OF HASS AT AMHERST | 10,602 | 3,406 | 435 | 312 | 1,322 | 3,898 | 515 | 576 | 138 | |
| | WAYNE STATE UNIVERSITY | 10,385 | 1.440 | 131 | 134 | 793 | 6,954 | 432 | 330 | 171 | |
| 89 | FLORIDA STATE UNIVERSITY | 9,511 | 1.555 | 306 | 2.470 | 324 | 2 •695 | 361 | 755 | 1,045 | |
| | BRANDEIS UNIVERSITY | 9,040 | 1,124 | 205 | 23 | 45 | 5 •606 | 359 | 1,030 | 648 | |
| | AL 1ST 90 INSTITUTIONS IONA ST U OF SCI & TECH | 8.958 | 378,217 954 | 64.777 150 | 228,364 | 420.993 | 1.412.531 | 53.655 | 129,885 | 60 + 503 | |
| | WASHINGTON STATE UNIV | 8.831 | | 76 | 246 704 | 1,040 | 5,131 | 200 | 1.093 | 144 | |
| | U TEX HLTH SC CTR HOUSTON | | 1,349 57 | | | 468 | 4,974 | 95 | 1,010 | . 155 | |
| | U TEX MED BRNCH GALVESTON | 8,727 8,530 | 92 | 151 0 | 0 289 | 27 107 | 8,259 | . 8 | 171 | . 54 | |
| 95 | UNIV OF RHOOF ISLAND | 8,413 | 513 | 69 | 5,198 | 454 | 7,766 1,964 | 66 0 | 122 215 | 88 0 | |
| 96 | UNIV OF CAL SANTA BARBARA | 8,288 | 2,125 | 355 | 1.436 | 362 | 2,564 | 392 | 788 | 166 | |
| | U DREGON HLTH SC1 CTR | 8,242 | 0 | 0 | 0 | 198 | 7.155 | 6.3 | , 00 | 826 | |
| | DKLAHOMA STATE UNIVERSITY | 8,181 | 539 | 137 | 731 | 3,227 | 2,529 | 167 | 621 | 230 | |
| | UNIVERSITY OF DREGON MAIN | 8.129 | 1,472 | 617 | 426 | 238 | 3 . 2 4 9 | 662 | 1,465 | 200 | |
| 100 | INDIANA U-PUROUE U INDPLS | 8.063 | 70 | 14 | 39 | 147 | 7.524 | 0 | 200 | 69 | |
| TOT | AL 1ST 100 INSTITUTIONS | 2,833,287 | 385.388 | 66,346 | 237,433 | 427,261 | 1,463,746 | 55,308 | 135,570 | 62.235 | |

NOTE: TABLE INCLUDES DATA FROM 14 FEDERAL AGENCIES RESPONSIBLE FOR MORE THAN 95 PERCENT OF ALL FEDERAL OBLIGATIONS TO UNIVERSITIES AND COLLEGES.

Applied Physics Laboratory (Johns Hopkins University): \$136,140 Applied Research Laboratory (Pennsylvania State University): 12.205

SOURCE: National Science Foundation

Total and engineering data for Johns Hopkins University and Pennsylvania State University include funding for components formerly shown separately as university-administered federally funded research and development centers. The amounts involved are as follows:

| FIELD DF SCIENCE | TOTAL I | USDA | COM | DOD | DOE | EPA | HEW | INT I | NA SA I | NSF I | TGG | OTHER* |
|-------------------------|-----------|----------|----------|-------------|----------|----------|-------------------|----------------|---------|------------|------|-------------|
| 1 1220 5 | -1 | · | | | | ! | ! !! | | | ا ا | | |
| | 1 | | | l | ! | 1 | i | i | | , | | |
| TOTAL, ALL FIELDS | 205,865 | 0 | ٥ | ٥ | 665 1 | 3,5651 | | - 1 | i 1 | 11,739 | | İ |
| HYSICAL SCIENCËS, TOTAL | 1,441 | 0 | oi | οį | 01 | 31 | 1,350 | 0 | 42 | | | i |
| CHEMISTRY | 1,117 | | | οį | 0 | | | 2.3 | | | | |
| PHYSICS | 281 | 0 | | 10 01 | 0 1 | | | | | | | |
| PHYSICAL SCIENCES, NEC | 43 | | i ĭi | ĭ | | i | | | | | | - |
| ATHEMATICAL & COMPUTER | 558 | 0 | 0 | . oi | 0 | 111 | 485 | 0 | 0 | . 0 | 62 | |
| SCIENCES, TOTAL | 2201 | | i ĭi | - i | - 1 | i i | ĺ | | 1 0 | | | |
| MATHEMATICS | 4961 | | | 01 01 | 0 | | | | | | | |
| COMPUTER SCIENCES | 62 | 0 | " | , i | · · | Ĭ | Ĭ | · | • | | ļ | ! |
| NVIRONMENTAL SCIENCES. | į | _ | <u> </u> | | 400 | 221 | l 28 | 0 | 1 0 | 14 | 0 | , 0 |
| TOTAL | 663 |) 0 | 0 | 0 | 41,0 | 221 | | i | i | i | į . | Ï, |
| ATMOSPHERIC SCIENCES | 442 | 0 | | | | | | | | | | |
| GEOLOGICAL SCIENCES | 41 | i 0 | 01 | - 01 | 0 |] 31 | i | i | j - | i . | i ' | i |
| ENVIRONMENTAL SCIENCES. | 217 | i 1 0 | j o | 0 | 0 | 217 | 0 | , 0 | . 0 | 1 0 | ! ⁰ | 0 |
| | l | l | 1 0 | 0 | 200 | 1,012 |] 6.759 | 3,200 | 1.066 | 14 | 347 | i 28 |
| NGINEERING, TOTAL | 12,626 | 1 , | 1 | | | 1 | 1 | l | 1 | 1 | ! | 1 0 |
| CHEMICAL | i 53 | | | | | | | | | | | • • |
| CIVIL | 1 443 | | | | | | • | į ŏ | i o | | | |
| ELECTRICAL | 274 | | | j o | | • | | • | : - | • | • |) 0) 22 |
| METALLURGY & MATERIALS | 4,425 | | | | | | | 1 0 1 3,200 | | | |) 6 |
| ENGINEERING, NEC | 7,425 | 1 . 0 | 1 0 | " | 200 | 1 ,00 | 1 | 1 | 1 | l | į , | Î 31 371 |
| .IFE SCIENCES, TOTAL | 130.840 | i . • | j o | 0 | ļ 0 | 1 29 | 130,331 | , 0 | 1 0 | 1 109 |) (|) 371 |
| | 1. 34.885 | 1 0 | 1 0 | 1 0 | 1 0 | 1 20 | 34,756 | | | | • | oi |
| BIOLOGICAL | 95,955 | | | | | 9 | 95.575 | . 0 | . 0 | 1 0 | 1 (| 371 |
| | i | 1 0 | 1 0 | 1 0 | ! ! 0 | 0 | 16,709 | ! 0 | i o | | 1 | oj 228 |
| SYCHOLOGY, TOTAL | 16,937 | " | 1 | i | i | i - | i iiii | 1 | j | i • • • | ! . | 228 |
| SOCIAL ASPECTS | 10,947 | | i o | | | | 10,719 1 5,990 | | | 1 0 | | 01 22 |
| PSYCHOLOGY, NEC | 5,990 | 1 0 | 1 0 | ! 0 | 1 0 | 1 0 | 1 21990 | i | ì | i | i i | İ |
| SOCIAL SCIENCES, TOTAL | ; | | 0 | . 0 | i · | į 3 | 20,308 | 0 | 1 0 | i · | i i | |
| ECONOMICS | , | i c | . 0 | ; 0 | | | si c | | . , |) 0 | | 0 |
| SUCTULUES | . 1.000 | | 9 | | | | 1,608 18,700 | | |) | | oi i |
| SDCIAL SCIENCES, NEC | 18,700 | 1 (|) | 0 | <u> </u> | Ή . | l | i i | i | i . | | .! . |
| OTHER SCIENCES, NEC | 22.489 | i (| oj o | i o | 65 | 1 2,286 | 8,177 | 'j (|) 179 | 11.556 | 1 22 | b j |

DINCLUDES AID. HUD. LABOR. AND NRC.

ABLE 8-24. MEM JBLIGATIONS TO UNIVERSITIES AND COLLEGES FOR FELLOMSHIPS, TRAINEESHIPS, AND TRAINING GRANTS, BY DETAILED FIELD OF SCIENCE AND HEM COMPONENT:

(DOLLARS IN THOUSANDS)

| FIELD UF SCIENCE | TOTAL | NIH | HR A | HSA | I I a d a mha I I | CDC | FDA | J UE | NIE | DHDS | HCFA | SSA | i i iohprs i | OTHER DHEW |
|-----------------------------------|-----------------|---------|------|----------|----------------------------|-----------|-----------|------------|-----|----------------|------|--------------------|-----------------------|---------------------------|
| | | | | ! | ŀ | | | | ļ | ! | ! | ! | i | <u> </u> |
| TOTAL, ALL FIELDS | 184,147 | 131,238 | 0 | 0 | 15,829 | 0 | 0 | 4,403 | | 32.677 | د | | | 1 |
| PHYSICAL SCIENCES, TOTAL | 1,350 | 1,350 | 0 | 0 | 0 | 0 | ٥ | . 0 | | | | 0 | 1 0 | i |
| CHEMISTRY PHYSICS | 1,069 281 | | 0 | | | | | | | | | | | |
| MATHEMATICAL & COMPUTER | | | | | | | | | ĺ | į | į | ľ | į | • |
| SCIENCES, TOTAL | 485 | 485 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | o | 0 | | |
| MATHEMATI <u>C</u> S | 485 | 485 | 0 | 0 | o | 0 | o | | . 0 | | ا | ٥ | ! ! o | |
| ENVIRUNMENTAL SCIENCES, TUTAL | ! ! 28 ! | ! ! | 0. | | | | | | | ! | | | | į |
| 'ATMOSPHERIC SCIENCES | i | i | i | | 0 | 1 01 | 0 | 1 01 | 0 | 2B | 0 | 0 | . 0 | ! |
| | 281 | 0 1 | 0 | G | 01 | 0 | 0 | 0 | 0 | 28 | 0 | 0 | 0 | i |
| ENGINEERING, TOTAL | 6,759 | 2,356 | ٥į | 0 | oj | 0 | o | 4,403 | 0 | 0 | 0 | o | 0 | |
| METALLURGY & MATERIALS | 4,403 | oi | o | | | . 0 | 0 | 4,403 | 0 | o | o | 0 | 0 | |
| ENGINEERING, NEC | 2,356 | 2,356 | ١٥ | U- | 0 | . 0 | O | 0 | 0 | | | ŏ | | |
| .IFE SCIENCES, TOTAL | 130,331 | 119,015 | ا ه | 0 | 3,832 | ٥ | 0 | ٥ | o | 7,484 | o | 0 | O | (|
| BIULOGICAL | 34,756 | 30,924 | oj | | | οi | 0 | 0 | . 0 | | ol | 0 | . 0 | |
| MEDICAL | 95,575 | 88,091 | 0 ! | 0 | 0 [| 0 1 | 0 | 0 ! | 0 | 7,484 | | | | |
| SYCHOLOGY, TUTAL | 16,709 | 2,429 | ٥į | 0 | 4,498 | ٥١ | 0 | o | 0 | 9,782 | ٥ | 0 | 0 | |
| SOCIAL ASPECTS | 10,719 | oi | oi | اه | 937 | οi | 0 | o | o. | 9,782 | ا | o | 0 | |
| PSYCHOLOGY, NEC | 5,9901 | 2,429 | إه | اِن | 3,561 | õ | ō | | ŏį | | | ői | ŏi | |
| OCIAL SCIENCES, TOTAL | 20,308 | 2,806 | 0 | ٥ | 4,985 | 0 | o | اِه | o | 12,515 | إه | ٥ | o | c |
| SUCIDLUGY SUCIAL SCIENCES, NEC | 1,608 18,700 | 2,808 | o i | 0 | | 0 | 0 | | 0 | 0 12,515 | 01 | 0 | 0 I | 0 |
| ITHER SCIENCES, NEC | 8,177 | 2,795 | o | ا | 2,514 | 0 | 0 | oi oi | ĺ | 2,8681 | 0 | 0 1 | o i | |



TABLE 8-25. FEDERAL OBLIGATIONS FOR FELLOWSHIPS, TRAINEESHIPS, AND TRAINING GRANTS TO THE 100 UNIVERSITIES AND COLLEGES RECEIVING THE LARGEST AMOUNTS, BY BROAD AREA OF SCIENCE: FY 1978

| | | | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | * | -: | *** | OTHER |
|------|--|---------|------------|---|----------|---------|----------|----------|----------|---------------|
| | | | | | ENVIRON- | | | | SOCIAL | SCIENCES. |
| | | | PHYSICAL | HATHE- | HENTAL | ENGI- | LIFE | PSYCHOL- | | NE C |
| | INSTITUTION (RANKED BY | | | HATICS | SCIENCES | NÉERING | SCIENCES | DGY | SCIENCES | NEC |
| RANK | AHOUNT RECEIVED) | TOTAL | SC I ENCES | MATTES | 3012 | | | | | 22 400 |
| NAIN | , | | | | 447 | 12,626 | 130,840 | 16,937. | 20,311 | 22,489 |
| | UNITED STATES TOTAL | 205.865 | 1,441 | 558 | 663 | , | • • • • | • | | |
| | Diti i La Caracia de la Caraci | | | • | 13 | 233 | 5,837 | 28 | 653 | 1,300 |
| , | HARVARD UNIVERSITY | 8,196 | 132 | 0 | 10 | - 76 | 4,769 | 133 | 466 | 416 |
| | YALE UNIVERSITY | 5,812 | 28 | 0 | • | 497 | 3.252 | 334 | 273 | 1,218 |
| ۷. | TALE UNIVERSITY | 5,659 | 85 | 0 | 0 | | 4,277 | 116 | 516 | 562 |
| | STANFORD UNIVERSITY | 5,551 | 0 | 80 | 0 | 0. | | 25 | 586 | 454 |
| 4 | UNIVERSITY OF CHICAGO | 5,532 | 129 | 0 | 0 | 78 | 4,260 | | | |
| 5 | UNIV OF HIS-HADISON | 2,752 | | | | | | 150 | 47 | 644 |
| | | 5,477 | 0 | 166 | 0 | 237 | 4,233 | 208 | 'n | 230 |
| 6 | UNIVERSITY OF WASHINGTON | 5,316 | 13 | 0 | 0 | 22 | 4,843 | | 195 | 406 |
| 7 | UNIV OF PENNSYLVANIA | | ő | ō | 0 | 103 | 4,053 | 69 | | 386 |
| В | JOHNS HOPKINS UNIVERSITY | 4,826 | _ | ŏ | ō | 0 | 4,220 | 58 | 65 | |
| 9 | HASHINGTON UNIVERSITY | 4,729 | ō | 0 | ŏ | 296 | 3,193 | 257 | 525 | 452 |
| 10 | CUKE UNIVERSITY | 4,726 | 3 | U | · | | | | | |
| 10 | DONE DITTELLE | | | | | 1,466 | 42,937 | 1,378 | 3,326 | 6.068 |
| 70 | TAL 1ST 10 INSTITUTIONS | 55,824 | 390 | 246 | 13 | 2,700 | | | | |
| 10 | TAL 131 10 INC. | | | | _ | 199 | 2,707 | 390 | 590 | 623 |
| | UNIVERSITY OF HICHIGAN | 4,632 | 20 | 103 | | • • • | 3,687 | 73 | 351 | 33 I |
| 11 | UNIAEKZIII OL IIICIIIO | 4,628 | 69 | 0 | 0 | 117 | | 150 | 214 | 402 |
| 12 | COLUMBIA UNIV HAIN DIV | 4,334 | 13 | 17 | 0 | 161 | 3,377 | | 410 | 51 |
| 13 | UNIV OF CAL LOS ANGELES | | • 3 | -0 | | 0 | 3+689 | 138 | | 799 |
| 14 | UNIV OF CAL SAN PRANCISCO | 4,291 | 183 | . 0 | . 0 | 465 | 1,893 | 309 | 360 | |
| 15 | UNIV OF CAL BERKELEY | 4,009 | 103 | | - | | | | _ | 992 |
| _ | | | | 0 | . 0 | 554 | 2,037 | 155 | 0 | 204 |
| 14 | HASS INST OF TECHNOLOGY | 3,784 | 46 | | | | 2,503 | 331 | 275 | |
| | UNIVERSITY OF HINNESOTA | 3,755 | 0 | | _ | _ | 2.345 | 640 | 493 | 207 |
| | NEW YORK UNIVERSITY | 3,685 | 0 | | | | 3,485 | 134 | 0 | 0 |
| 16 | YESHIVA UNIVERSITY | 3,619 | 0 | . 0 | | | 2,916 | 53 | 92 | 259 |
| 19 | AEZHIAN ONIAEKZILI | 3,512 | | . 0 | · C | 192 | 2,710 | ,, | | |
| 20 | UNIV OF CAL SAN DIEGO | ,,,,, | | | • | | 71 474 | 3,751 | 6,111 | 9,936 |
| | | 96,073 | 724 | 400 |) 13 | 3,462 | 71,676 | 3,174 | -, | |
| TO | OTAL 1ST 20 INSTITUTIONS | 70,012 | | | | | | 94 | 222 | 732 |
| | | | 27 | |) (| 39 | 2,148 | | 333 | |
| 2 | 1 CORNELL UNIVERSITY | 3,383 | | | | 0 | 1,994 | 221 | 172 | * 1 1 1 |
| 5 | S LINITU OF NO AT CHAPEL HILL | 2,680 | | | • | | 2,141 | 249 | 50 | |
| 2 | | 2,586 | | | | 175 | 2.181 | 95 | 0 | |
| - 6 | UNIVERSITY OF ROCHESTER | 2,507 | 13 | • | | 257 | 1,702 | 55 | 288 | 14 |
| 2 | S CASE WESTERN RESERVE UNIV | 2,319 | • |) : | • | | | | | |
| ۷ | 5 CASE MESTERN MESERVE | | | | | n 0 | 1,855 | 171 | 116 | , 18 |
| | | 2,160 |) (| | | • | | | 197 | |
| 2 | 6 UNIVERSITY OF IOHA | 1,984 | | | | 0 0 | | 61 | . 196 | |
| 2 | 7 BOSTON UNIVERSITY | 1,95 | , | | 0 | 0 0 | | 96 | 62 | |
| 2 | B UNIV ALABAHA BIRHINGHAH | 1,86 | | | 0 | 0 15 | | | | |
| 2 | O NORTHWESTERN UNIVERSITY | 1,00 | | | | ō 5 | 1,617 | 92 | • | , |
| 3 | O VANDERBILT UNIVERSITY | 1.81 | | • | - | | | | | 11,260 |
| _ | | | | 7 54 | 7 1 | 3 4,000 | 90,157 | 5,032 | 7,525 | 11,200 |
| τ. | OTAL 1ST 30 INSTITUTIONS | 119,32 | 1 78 | 7 24 | | ., | | | | |
| • | OTAL 131 30 Inch | | | | _ | n 90 | 830 | 356 | 189 | |
| _ | 1 UNIV OF ILL URBANA | 1,76 | 0 1 | 7 | | • :: | | | 236 |) 32 <u>3</u> |
| - 2 | 2 UNIV OF SOUTHERN CAL | 1.74 | 9 I | _ | o 14 | | | | 73 | 675 - |
| 3 | 2 UNIV UP SUUTHERN CAL | 1,67 | 9 1 | - | - | 0 16 | | | | 2 75 |
| 3 | 3 PRINCETON UNIVERSITY | 1,65 | | σ | 0 | 0 528 | | | | D 148 |
| 3 | 4 PENNSYLVANIA STATE UNIV | | | 0 | 0 | 0 0 | 1,40 | , 00 | | |
| 3 | S U TEX HLTH SCI CTR-DALLAS | 1,00 | | | | | | a 65 | | 0 88 |
| | | | | 0 | 0 | 0 69 | | | | • :: |
| • | 6 UNIVERSITY OF VIRGINIA | 1,54 | • | .4 | ō | 0 376 | 63 | | | 0 455 |
| | TIMEVERSITY OF UTAH | 1,43 | | 5 | ŏ | i (|) B6· | | | |
| | O CALIEDRATA INST OF TECH | 1,42 | • | 0 | ŏ | 0 39 | | 9 213 | . 16 | |
| | 9 UNIVERSITY OF ARIZONA | 1,38 | I | | | o i | | 7 94 | 10 | B 153 |
| | | 1,30 | 6 | 0 | 0 | v | • | | | |
| | 40 VIRGINIA CUMHUNACIH DNIV | | | | _ | 12 5,56 | 1 98.99 | B 6.366 | 8,82 | 2 13,540 |
| | TOTAL 1ST 40 INSTITUTIONS | 134.89 | 5 89 | 99 54 | 47 1 | 52 5,56 | , ,,,,, | | | |
| | TOTAL 1ST 40 INSTITUTIONS | •••• | - | | | | . 02 | 6 . 147 | 10 | 2. 129 |
| | | 1,26 | .6 | 0 | 0 | 0 6 | | | | 1 140 |
| | 41 UNIVERSITY OF FLORIDA | 1,25 | | 15 | 0 | 0. 23 | | | | |
| | 42 OHIO STATE UNIVERSITY | 1,2 | · - | ó | Ō | 0 34 | | | | 6 207 |
| | 43 UNIV OF TEXAS AT AUSTIN | 1,22 | | | ŏ | | 0 73 | | | • |
| | AA SIINY AT BUFFALO | 1,20 | 99 | 13 | Ö | | 0 97 | 2 | 3 | 0 207 |
| | 45 ROCKEFELLER UNIVERSITY | 1,19 | 75 | 13 | v | - | | | | |
| | 45 MOONEL CHAPTE OFFICE AND ADDRESS OF THE PARTY OF THE P | | | _ | • | 20 | 0 45 | 6 127 | 7 34 | |
| | 46 UNIV OF HISSOURI COLUHBIA | A 1.16 | 51 | 0 | | | 0 96 | | , . | 0 90 |
| | 40 ONIT OF HISSOURI COCONCI. | | | 0 | 0 | • | | | | 9 34 |
| | 47 UNIVERSITY OF CONNECTICU | 1,17 | | 0 | 0 | • | • | | | 0 178 |
| | 48 CUNY HT SINAI SCH CF HEO | 1,1 | | 0 | 0 | 0 9 | | | - | 0 57 |
| | 49 UNIV OF CAL DAVIS | | | 87 | ō | 0 2 | :3 46 | 30 30 | 9 | • |
| | 50 UNIVERSITY OF KANSAS | 1,0 | | | | | | | 9,69 | 99 14,882 |
| | · · | | 39 1,1 | 27 K | 47 1 | 90 6,32 | 1 106.26 | 3 7,59 | יס, ע | 77 419006 |
| | TOTAL 1ST 50 INSTITUTIONS | 146,6 | 27 | | - | | ** | | | |
| | | | | | | | | | | |

SEE FOOTNOTES AT END OF TABLE.

TABLE B-25. FEDERAL OBLIGATIONS FOR FELLOMSHIPS, TRAINEESHIPS, AND TRAINING GRANTS TO THE 100 UNIVERSITIES CONTINUED AND COLLEGES RECEIVING THE LARGEST AMOUNTS, 87 BROAD AREA OF SCIENCE: FY 1978

| | | | | | ENVIRDN- | | | | | OTHER |
|----------|---|--------------|----------------------|------------------|--------------------|------------------|------------------|-----------------|--------------------|------------------|
| RANK | INSTITUTION (RANKED BY AMOUNT RECEIVED) | TOTAL | SCIENCES SCIENCES | MATHE- MATICS | MENTAL SCIENCES | ENGI- NEERING | LIFE SCIENCES | PSYCHOL~ OGY | SOCIAL SCIENCES | SCIENCES. NEC |
| | L TENNESSEE KNOXVILLE | 1.052 | 0 | 0 | 0 | 0 | 486 | 92 | 97 | 377 |
| | UNIV OF OKLAHOMA | 1.033 | 0 | 0 | C | 276 | 261 | 76 | 0 | 420 |
| | UNIVERSITY OF PITTSBURGH | 1.030 | 39 | 0 | 0 | 15 | 686 | 262 | 0 | 28 |
| 54 55 | BAYLOR COL OF MEDICINE SOUTHERN ILL U-CARBONDALE | 1,013 966 | 0 | 0 | 0 | . 6 | 992 | 2.0 | 0 | 15 |
| | JOSTILAN ICE O-CARDONDACE | 700 | U | U | U | 215 | 18 | 365 | 353 | 15 |
| | HOWARD UNIVERSITY | 946 | 0 | 0 | 0 | 0 | 544 | 0 | 4 | 398 |
| | UNIV OF CAL IRVINE | 916 | 0 | 0 | 0 | 49 | 780 | 18 | 0 | 69 |
| | MICHIGAN STATE UNIVERSITY LNIVERSITY OF MIAMI | 874 | . 0 | 0 | 0 | 6 | 399 | 238 | 141 | 90 |
| | PURDUE UNIVERSITY | 842 832 | 0 1 | 0 | 0 | 0 69 | 768 | 5 9 3 9 | ,0 | 15 |
| | | 0,52 | • | • | · | 0,7 | 654 | 37 | 16 | 53 |
| | TAL IST 60 INSTITUTIONS | 156,143 | 1,167 | 547 | 190 | 6,957 | 111,871 | 8,739 | 10.310 | 16,362 |
| 61 | HAYNE STATE UNIVERSITY | 823 | 0 | 0 | 0 | 0 | 486 | 152 | 170 | 15 |
| 62 | LNIV OF HAWAII-MANDA WEST VIRGINIA UNIVERSITY | 791 | 0 | 0 | 0 | . 0 | 197 | 125 | 385 | 84 |
| | SUNY AT STONY BROOK | 735 696 | 0 | 0 | 0 | 332 0 | 196 567 | 134 128 | 58 0 | 15 |
| | INDIANA UNIV-8LOOMINGTON | 683 | ŏ | ŏ | ŏ | 39 | 275 | 248 | 107 | 1 14 |
| | | | | | | | | 2.0 | | • 1 |
| | BRANDE IS UNIVERSITY | 678 | 0 | 0 | 0 | 0 | 487 | 3 | 99 | 89 |
| | GEORGIA INSTITUTE OF TECH | 648 644 | 0 | 0 | 0 | 560 | 79 | 0 | 0 | 9 |
| | INDIANA U-PURDUE U INDPLS | 642 | 0 | 0. | 0 | 0 | 630 552 | 0 | 0 | 14 90 |
| | UNIVERSITY OF KENTUCKY | 64.2 | 3 | ă | ŏ | 222 | 152 | ŏ | 242 | 23 |
| TOI | TAL 1ST 70 INSTITUTIONS | 163,125 | 1,170 | 547 | 190 | 8,110 | 115,492 | 9,529 | 11,371 | 16,716 |
| | | | | | _ | | | | | |
| | FLORIDA STATE UNIVERSITY UNIVERSITY OF DREGON MAIN | 638 617 | 14 0 | 0 | 3 | 55 | 225 | 76 | Z6 - | 237 |
| | UNIVERSITY OF CINCINNATI | 608 | ŏ | ŏ | 0 | 87 86 | 298 372 | 70 47 | 143 | 19 103 |
| | COLDRADO STATE UNIVERSITY | 507 | 42 | 5 | ŏ | 274 | 254 | 13 | ŏ | 19 |
| 75 | SYRACUSE UNIVERSITY | 571 | 0 | 0 | 0 | 0 | 78 | Z30 | 241 | 22 |
| | TEMPLE UNIVERSITY | 550 | 0 | 0 | 0 | 0 | 525 | 0 | 6 | 19 |
| | U TEX HLTH SC CTR HOUSTON | 548 | 2 | 0 | 0 | 0 | 534 | 0 | 0 | 14 |
| 79 | U TEX-ANDRSN HOSPETUMOR I SEATTLE UNIVERSITY | 544 505 | 0 | 0 | . 0 | 0 | 544 0 | 0 52 | 2.0 | 200 |
| | UNIVERSITY OF IDAHO | 501 | ŏ | ŏ | Ö | 371 | ŏ | 130 | 253 0 | 200 0 |
| | | | • | - | _ | ٠.٠ | - | | · | · |
| | TAL 1ST 80 INSTITUTIONS | 168,814 | 1 • 2 26 | 552 | 193 . | 8 • 98 3 | 118.322 | 10.149 | 12.040 | 17,349 |
| | DREGON STATE UNIVERSITY UNIV OF ILL MED CTR CHGD | 500 | 0 | 0 | 200 | 0 | 70 | 0 | 111 | 119 |
| | THOMAS JEFFERSON UNIV | 498 488 | 0 | 0 | 0 | 0 | 423 412 | 0 | 0 | 75 76 |
| | GEDRGE WASHINGTON UNIV | 484 | ŏ | ŏ | ŏ | ő | 117 | 107 | 238 | 22 |
| | U DREGON HLTH SCI CTR | 474 | ō | ō | ō | ō | 460 | ó | ő | 14 |
| | AUBURN_UNI VER SITY | 454 | 0 | 6 | 0 | 0 | 76 | 372 | 0 | 0 |
| | CALIF ST UNIV LOS ANGELES | 446 | .0 | 0 | 0 | 0 | 34 | 88 | 324 | 0 |
| | LOUISIANA STATE UNIV ALBANY MEDICAL COLLEGE | 445 | 21 | 0 | 0 | 0 | 417 | 0 | 0 | 7 |
| | NORTH TEXAS STATE UNIV | 438 430 | 0 | 0 | 0 | 0 | 329 14 | 0 119 | 0 273 | 109 24 |
| TOT | AL 15T 90 INSTITUTIONS | 173,471 | 1.247 | 558 | 4 393 | 8,983 | 120,674 | 10.835 | 12,986 | 17.795 |
| | UNIV DE SAN FRANCISCO | 424 | . 0 | 0 | 0 | 0 | 0 | 107 | 317 | 0 |
| | UNIVERSITY OF NEH MEXICO | 421 | Ō. | 0 | 0 | 10 | 247 | 142 | 0 | 22 |
| | THE UNIVERSITY OF ALABAMA | 417 | 0 | 0 | 0 | 196 | . 0 | 147 | 74 | 0 |
| | HESTERN MICHIGAN UNIV | 413 | 0 | 0 | 0 | 0 | 77 16 | 0 95 | 336 259 | 0 |
| | COLORADO SCHOOL OF MINES | 410 | 0 | 0 | 0 | 410 | 0 | . 0 | | 40 |
| | SUNY ODWNSTATE MED CTR | 403 | 0 | 0 | 0 | 410 | 403 | ŏ | 0 | 0 |
| 98 | RUTGERS THE ST UNIV OF NJ | 403 | ŏ | ŏ | ŏ | ŏ | 79 | 99 | 133 | 92 |
| 99 | U TEX HLTH SCI CTR-S ANT | 401 | Ō | Ō | ō | ŏ | 386 | 15 | | Õ |
| 100 | BROWN UNIVERSITY | 395 | 0 | 0 | 0 | 0 | 258 | 41 | 60 | 36 |
| TOT | AL 1ST 100 INSTITUTIONS | 177,568 | 1.247 | 558 | 393 | 9,599 | 122,140 | 11,481 | 14,165 | 17,985 |

NOTE: TABLE INCLUDES DATA FROM 14 FEDERAL AGENCIES RESPONSIBLE FOR MORE THAN 95 PERCENT OF ALL FEDERAL OBLIGATIONS TO UNIVERSITIES AND COLLEGES.

SOURCE: NATIONAL SCIENCE FOUNDATION



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TABLE 8-26. FEDERAL DBL1GATIONS TO UNIVERSITIES AND COLLEGES. 8Y HIGHEST DEGREE GRANTED IN THE SCIENCES AND ENGINEERING. TYPE DF CONTROL. AND AGENCY: FY 1978

| HIGHEST DEGREE GRANTED AND TYPE DF CONTROL | TOTAL 1 | USDA | I CDH L | DDD 1 | DOE | EPA I | HEW | 1NT | NASA | NSF I | 1 DDT 1 | DTHER* |
|---|-------------|----------|--|-------------------------------------|-------------------------------|-------------------------------------|--|-------------------------------------|---------|-------------------------------|------------|---------------------------------|
| TOTAL, ALL DEGREE LEVELS ALL INSTITUTIONS PUBLIC | 4,565,1111 | 311,070 | 35.919 30.740 5.179 | 452.249 l 193.045 l 259.204 l | 269,506 141,834 127,672 | 55.844 42.303 13.541 | 5,411,826 3,263,279 2,148,547 | 43,983 37,818 6,165 | 80.3941 | 607.119 344.776 262.343 | 12.503 | 41,321 |
| DOCTORATE ALL INSTITUTIONS PUBLIC PRIVATE | | | | | | | 3.547.029 3.547.029 2.154.712 1.392.317 | | 74.5571 | 576,592 329,751 246,841 | 11,442 | 38,018 |
| MASTER'S ALL INSTITUTIONS PUBLICPRIVATE | 435.225 | 18.336 | 3.154 3.154 3.154 | 3.854 | 1.253 | 2.249 1.352 897 | 329.022 | 2.391 2.395 2.305 | 5,199 | 9.280 | 676 | 2.154 1.794 390 |
| eacheldr's ALL INSTITUTIONS PUBLIC PRIVATE | 1 190.683 | 1 12.115 | 199 | 86 | 911 | 386 | 173,606 | 99 | 618 | 1 1 678 | į 0 | 2.206 1.485 721 |
| ND SCIENCE DEGREES ALL INSTITUTIONS PUBLIC | 1 556 • 157 | 1 70 | 1 0 | į o | | 1 525 | 546 +939 | 45 | j 20 | 4.067 | 385 | 1 24 |

^{⇒ 1}NCLUDES AID. HUD. LABOR. AND NRC.

SDURCE: NATIONAL SCIENCE FOUNDATION

TABLE 8-27. FEDERAL OBLIGATIONS TO UNIVERSITIES AND COLLEGES, 8Y HIGHEST DEGREE GRANTED IN THE SCIENCES AND ENGINEERING, TYPE OF CONTROL. AND TYPE OF ACTIVITY: FY 1978

(DDLLARS IN THOUSANDS)

| | | | - | | | <u></u> | | | |
|---|--|-------------------------------------|---|-----------------------------|----------------------------|---|--|-----------------------------|---|
| | ! | | | ACADEM | IC SCIE | ICE | | | |
| H1GHEST DEGREE GRANTED AND TYPE DF CONTROL | TDTAL I DBLIGA- I TIDNS I | TDTAL ACADEMIC SCIENCE | RESEARCH AND DEVELOP- MENT | RED I | FDR INSTR IN SCI | TRAINEE- | GENERAL I SUPPORT FDR ~ I SCIENCE ! | DTHER SCIENCE ACTIVI- | NDNSCIENCE ACTIVITIES |
| TOTAL, ALL DEGREE LEVELS ALL INSTITUTIONS PUBLIC | 7,479,177 4,565,111 2,914,066 | 3,957,638 2,295,934 1,661,704 | 3.362.174 1.887.928 1.474.246 | 34 •328 10•394 23•934 | 26.664 15.863 10.801 | | 74 • 102 43 • 235 30 • 867 | 230.272 | 1 1 1 3.521.539 1 2.269.177 1 1.252.362 |
| DDCTORATE ALL INSTITUTIONSPUBLICPRIVATE | | | | | 15.177 | 1 1 196.876 1 102.600 1 94.276 | 31.177 | 210.501 | 1.687.891 1.179.657 508.234 |
| MASTER'S ALL INSTITUTIONS PUBLIC PRIVATE | 652.079 652.079 435.225 216.854 | 62,264 | 37.800 | 12 | 1 411 | 3.792 | 1 6.045 | 1 14 . 204 | 372.961 |
| BACHELDR'S ALL INSTITUTIONS PUBLIC PRIVATE | 629.264 1 629.264 1 190.683 1 438.581 | 20.021 | 11.149 | 1 0 | 80 | i 939 | 2.431 | 5.422 | 170.662 |
| NO SCIENCE DEGREES ALL INSTITUTIONSPUBLIC | 556.157 | 10,260 | 5,427 | 1 0 | 195 | 911 | 1 3,582 | 145 | |

NDTE: TABLE INCLUDES DATA FROM 14 FEDERAL AGENCIES RESPONSIBLE FOR MORE THAN 95 PERCENT OF ALL FEDERAL DBLIGATIONS TO UNIVERSITIES AND COLLEGES.

| CENCEARMIC CONTENTS | | | | LLARS IN THO | | | | | | |
|------------------------------------|------------|--------------------------|------------------------|--------------------|------------|---------------------------|-----------------------------|------------------|---------------|--------------------|
| GEOGRAPHIC DIVISION, STATE, AND | | | TOTAL | RESEARCH | ACA | DEMIC SCIENC FACIL FOR | E* | | | |
| TYPE OF CONTROL | | TOTAL, ALL ACTIVITIES | ACADEMIC SCIENCE | AND | RED | INSTR IN | FELLUHSHIPS TRAINEESHIPS | SUPPURT | DTHER | NDN- |
| UNITED STATES, TOTAL | | A0111111123 | SCIENCE | <u>GEVELDPMENT</u> | PLANT | SCI & ENG | TRNG GRANTS | FOR SCI | SCIENCE | SCIENCE |
| | | | | | • | | | | | |
| PUBLIC INST'S | AHT ND. | 4,565,111 | 2,295,934 540 | 1,687,928 409 | 10,394 | 15+863 194 | 103,242 249 | 43,235 | 230,272 | 2,269,177 |
| PRIVATE INST'S | AMT ON. | 2,914,066 | 1,661,704 | 1,474,246 | 23,934 | 10.801 | 97,623 | 237 30,867 | 291 24,233 | 1,307 1,252,362 |
| NEW ENGLAND, TOTAL | | 1,40. | 116 | 270 | 25 | 150 | 124 | 151 | 205 | 1,398 |
| PUBLIC INST'S | AHT | 180,404 | 75,136 | 60,637 | 112 | 750 | 2,385 | 1,669 | 9,583 | 105,269 |
| PRIVATE INST'S | ND. Amt | 84 493,172 | 27 368,873 | 22 327,114 | 1 9,649 | 10 2,086 | 11 22,244 | 10 3,232 | 12 | 79 |
| CONNECTICUT | ND. | 145 | 56 | 41 | 4 | 20 | 19 | 16 | 27 | 124,299 143 |
| PUBLIC INST'S | . AHT | 35,486 | 10,571 | 14,931 | ٥ | • | | | | |
| PRIVATE INST'S | NU. | 21 80,353 | 2 | 2 | 0 | 149 1 | 1,138 1 | 512 1 | 1,841 | 16,915 21 |
| MAINE | NO. | 21 | 62,826 | 55•483 ช | 314 I | 237 2 | 5,986 5 | 523 4 | 283 5 | 17,527 |
| * | | | | | | | | | - | |
| PUBLIC INST'S | THA ND. | 23,004 11 | 5,605 3 | 31645 3 | 0 | 29 1 | 105 1 | 115 | 1,711 | 17,399 |
| PRIVATE INST'S | AMT ND. | 5,435 14 | 365 4 | 144 | 0 | 18 2 | 0 | 199 | 2 | 10 5•070 |
| HASSACHUSETTS | | _ | | - | • | • | U | 1 | 1 | 14 |
| PUBLIC INST'S | AMT ND. | 64,929 35 | 20,209 | 15,767 | p | 406 | 576 | 634 | 2,826 | 44,720 |
| PRIVATE INST'S | THA | 365,563 | 285,291 | 10 252:342 | 0 9•335 | 3 1,546 | 15,771 | 5 2,114 | 5 4,183 | 33 80,672 |
| NEW HAMPSHIRE | ND. | 76 | 31 | 24 | 3 | 11 | 12 | 9 | 17 | 77 |
| PUBLIC INST'S | AHT | -i. 14+825 | 7,020 | 5,625 | b | 74 | 143 | 138 | 1 040 | |
| PRIVATE INST'S | ND. Amt | 8 15,085 | 7,892 | 3 7,497 | Ö | 2 103 | . 2 92 | 1 | 1,040 | 7,805 7 |
| KHUDE ISLAND | , Ov | 12 | 4 | 3 | ŏ | 2 | 1 | 178 1 | . 22 | 7,193 12 |
| PUBLIC INST'S | AHT | 17,011 | 9,776 | 8,553 | 112 | 46 | 4.0 | | -7" | |
| PRIVATE INST'S | ND. THA | 3 20,765 | 12,449 | 2 | I | 1 | 68 | . 65 1 | 932 1 | 7,235 3 |
| VERHONT | ND. | В | 3 | 11,621 | 0 | 171 1 | 395 1 | 218 1 | 44 | 8,316 B |
| PUBLIC INST'S | THA | 25,149 | 12.055 | | _ | | | | | |
| PRIVATE INST'S | ND. THA | 6 | 13,955 | 12,116 |)) | 46 , 2 , | 355 1 | 205 1 | 1,233 1 | 11,194 |
| HIDDLE ATLANTIC, TOTAL | ND. | 5,571 12 | 50 3 | 27 2 | 0 | 11 2 | 0 | 0 | 12 | 5,521 12 |
| | Na. | | | | | | | | - | |
| PUBLIC INST'S | AMT NÜ. | 522,219 144 | 181,709 66 | 156,313 52 | 339 2 | 894 23 | 9+042 23 | 4,023 28 | 12,089 31 | 340,519 |
| PRIVATÉ INST'S | AMT ND. | 697,951 277 | 46 6,479 102 | 407,847 76 | 8,274 9 | 3,565 33 | 30,581 36 | 5 • 5 0 7 3 5 | 12,905 | 229,472 |
| NEW JERSEY | | | | | • | | | | 49 | <i>≫</i> 275 |
| PUBLIC INST'S | AMT No. | 84+305 30 | 26,378 12 | 21,957 | 0 | 224 | 699 | 568 | 2,930 | 57,927 |
| PRIVATE INST'S | AMT ND. | 39,712 | 21,920 | 19,19 | 0 45 | 210 | 1,927 | 462 | . 5 82 | 30 17,792 |
| NEW YORK | NO. | 25 | 11 | В | 2 | 2 | 3 | 3 | 4 | 25 |
| PUBLIC INST'S | AHT | 263,386 | 61,075 | 53.489 | 329 | 444 | 4,060 | 2,091 | 662 | 202,311 |
| PRIVATE INST'S | ND. TMA | 81 483,382 | 38 341,588 | 34 294,572 | 1 7,974 | 13 1,848 | 15 22,135 | 19 3,285 | 16 11,774 | 80 141:794 |
| PENNSYLVANIA | NO- | 151 | 52 | 40 | 5 | 17 | 22 | 21 | 28 | 149 |
| PUBLIC INST'S | AHT | 1747528 | 94,247 | 80,867 | 10 | 226 | 3,283 | 1.364 | 8,497 | 80,281 |
| PRIVATE INST'S | NO. Tha | 33 174,657 | 16 104,971 | 9 93,681 | 1 255 | 1,507 | 6,519 | 5 | 10 | 32 |
| AST NORTH CENTRAL. TOTAL | ND. | 101 | 39 | 28 | 2 | 14 | 11 | 11 | 17 | 69,886 101 |
| PUBLIC INST'S | AHT | 771,957 | 403,652 | 334,197 | 2 522 | 2 450 | | _ | | |
| PRIVATE INST'S | NO. THA | 175 312,387 | 69 | 55 | 3,529 | 21650 32 | 21:438 35 | 5,639 28 | 36,199 40 | 368,305 173 |
| ILLINDIS | ND. | 250 | 155,640 61 | 137•253 40 | 1,504 3 | 1,161 26 | 13,806 13 | 3,655 21 | 1,261 32 | 156+747 249 |
| PUBLIC INST'S | | 145 *** | | | | | | | | |
| PRIVATE INST'S | AMT ND. | 165,666 58 156,577 | 72,648 | 13 | 73 1 | 661 6 | 3•760 8 | 1,322 | 7.641 10 | 93 • 01 t 58 |
| | TMA LÜN | 156,577 76 | 97,566 13 | 85,877 11 | 1,374 2 | 703 5 | 7,832 6 | 1,389 8 | 391 | 59,011 76 |
| · | _ | | | | | | • | • | J | .0 |
| PUBLIC INST'S | AMT ND. | 100,971 10 | 59,045 7 | 49,317 7 | 107 2 | 459 4 | 2,162 | 736 4 | 6,264 | 41,926 |
| PRIVATE INST'S | AMT ND. | 19,316 34 | 6,436 12 | 5,638 7 | 130 1 | 11 <u>1</u> | 215 | 224 | 118 | 10 12,850 |
| | | | | • | • | • | • | 2 | . 3 | 33 |

SEE FUDTNITES AT END OF TABLE.

ERIC

| | | | ,,,,,, | | ACADE | MIC SCIENC | E | | | |
|---|------------|----------------|------------------------------|--------------------------------|--------------|------------------------------------|--|-------------|------------------|-----------------|
| GEOGRAPHIC DIVISION, STATE, AND TYPE OF CONTROL | | | TOTAL ACADEMIC SCIENCE | RESEARCH AND DEVELOPMENT | REO PLANT | FACIL FOR INSTR IN SCI & ENG | FELLOWSHIPS TRAINEESHIPS TRNG GRANTS | SUPPART | OTHER SCIENCE | NON- SCIENCE |
| EAST NURTH CENTRAL, CONT'O | | | | | | | | | | |
| MICHIGAN | | | | | | | | | | 96,003 |
| PUBLIC INST'S | AMT | 211,675 | 113,872 | 94,986 10 | 525 2 | 664 9 | 5,976 7 | 2,240 | 6,481 7 | 42 |
| PRIVATE 1957'S | ND. AMT | 27,022 | 14 678 9 | 300 | 0 | 69 3 | 50 i | 190 1 | 69 5 | 26,344 46 |
| оніо | NO. | 46 | 7 | • | • | | | | | |
| PUBLIC INST'S | AMT | 147,645 | 68,013 | | . 0 | 494 B | 2,368 11 | 821 6 | 6,143 10 | 79,835 32 |
| PRIVATE 145T+5 | NŪ. Amt | 32 87,475 | 42,455 | 38,117 | 5 | 164 | 2,420 3 | 1,128 6 | 626 14 | 45,020 68 |
| W1SCUNSIN | и0• | 68 | 21 | 13 | · | · | | | | |
| PUBLIC INST'S | AMT | 145,597 | 90,074 | | 2,824 1 | 372 5 | 5,172 5 | 520 2 | 5,670 7 | 55,523 |
| PRIVATE INST'S | MO. | 33 21,997 | 8,505 | 7,321 | 0 | 114 | 289 2 | 724 4 | 57 4 | 13,492 26 |
| WEST NORTH CENTRAL, TOTAL | 40. | 26 | 6 | , 5 | Ü | - | | | | |
| PUBLIC INST'S | AMI | 373,975 | 198,349 | | 43 | 1,523 14 | 10,282 22 | 2,523 18 | 31,254 31 | 175,625 |
| PRIVATE INST'S | NÜ. Amt | 137 141,102 | 51 58,155 | 50,078 | 2 | 509 22 | 5,335 | 1,670 12 | 563 19 | 82,947 163 |
| | и0. | 163 | 45 | 5 28 | 0 | 22 | - | | | * |
| . 10HA | ÄMT | 65,961 | 42,165 | 33,334 | 4 | 368 | 2,264 3 | 466 3 | 5,729 3 | 23,796 19 |
| PUBLIC INST'S | ND. | 19 16,802 | 401 | • | 1 0 | 2 38 | 64 1 | 10 | 94 | 16,394 38 |
| PRIVATE INST'S | NO. | . 38 | (| в 4 | 0 | 5 | • | • | | |
| KANSAS | AMT | 57,747 | 29.74 | 6 23,574 | 0 | 84 | 1,386 | 768 | 3,934 5 | 28,001 28 |
| PUBLIC INST'S | 4D• | 28 9,780 | 1 16 | 0 6 | 0 | 3 10 | Ò | 116 | 22 1 | 9,619 22 |
| PRIVATE 145T'S | AMT NG. | 22 | | 4 . 1 | 0 | . 2 | O | • | • | |
| MINNESOTA | • | 500 | 70,47 | 3 59,687 | ٥ | 403 | 3,96B | 629 | 5,786 | 41,027 |
| PUBLIC INST'S | AMT NÜ. | 111,500 | 1,07 | 0 4 | 0 | 2 83 | 3 93 | 509 | 128 | 16,221 |
| PRIVATE 1457'S | AMT NG. | 17,295 31 | | 4 9 | 0 | а | 2 | • | | |
| MISSOURI | | 0. | 27,04 | 6 17,164 | 39 | 45 | 1,879 | 401 | 7,518 | 37,280 |
| PUBLIC INST'S | TMA Oh | 64,325 29 | 1 | 5 10 | 1 3 | 4 338 | 6 5,178 | 674 674 | 10 107 | 26,419 |
| PRIVATE INST'S | AMT NO. | 81,295 46 | | 8 70,302 | ō | 4 | 3 | 3 | . 1 | 46 |
| NEBRASKA | | | | 2 11,240 | э | 607 | 521 | 128 | 3,596 | 17,123 |
| PUBLIC INST'S | AMT NO. | 33,215 17 | | 5 4 | 0 | 25 | 3 0 | 2 36 | 115 | 17 6,780 |
| PRIVATE INST'S | AMT NO. | 7,540 13 | | 590 4 3 | ŏ | 2 | 0 | 1 | 2 | 13 |
| NORTH DAKUTA | | | | | 0 | 16 | 178 | 55 | | 15,606 |
| PUBLIC INST'S | AMT ND. | 22,342 10 | 1 | 3 3 | , 0 | 1 | . 2 | 325 | . 0 | 2,956 |
| PRIVATE INST'S | AMT NO. | 3,610 4 | | 54 329 4 3 | . 0 | _ | ; 0 | 2 | 0 | 4 |
| SOUTH DAKUTA | | | | | 0 | | 86 | 76 | | 12,793 |
| PUBLIC INST'S | AMT ND. | 18,684 | 3 | 4 . 4 | 0 | . 0 | 1 0 | . 2 | . · · · | 4,558 |
| PRIVATE 1957 S | AMT NU. | 4,771 | L 2 | 13 101 3 1 | | 1 | ŏ | C |) 3 | 9 |
| SOUTH ATLANTIC, TUTAL | | | | | | . 2.724 | 12,683 | 7,546 | 43,436 | 331,562 |
| PUBLIC INST'S | AMT | 637,000 | | 96 72 | . 7 | 7 31 | 43 | 47 | 2 50 | |
| FRIVATE 1957'S | AMT NO. | 659,69 | 2 342,5 | 34 314,662 63 36 | 1,555 | | 20 | | | |
| DELAWARE | 1101 | - | | | | | 47 | 9. | 2 1,098 | 5,102 |
| PUBLIC INST'S | . AMT | 13,68 | 0 8,7 | 7,373 3 7,373 | 1 | L Ž | . 1 | | 1 2 | 3 |
| .PRIVATE INST'S | ND. | 61 | - | 0 0 | | 0 0 | | | o o | |
| DISTRICT OF COLUMBIA | ND. | | • | | | | | 41 | 6 844 | 4,391 |
| PUBLIC INST'S | AMT | 6,41 | 7 2,1 | u26 639 | | 0 0 | , , | L | 1 1 | <u>1</u> |
| PRIVATE INST'S | -OK TMA | 199,60 | | 945 35,680 7 | | 7 174 1 4 | 1,925 | | 5 | |
| FLURIDA | NO. | 1 | · - | | | | | | 2 4,78 | 7 79,640 |
| PUBLIC INST'S | AMT | 127,04 | 2 47, 38 | 402 38,52 11 1 | | 7 386 | | 1,48 | 5 | |
| | МО. | - | | - | | * | | | | |

SEE FOOTNOTES AT END OF TABLE.

TABLE 8-28. FEDERAL UBLIGATIONS TO UNIVERSITIES AND COLLEGES AND THE NUMBER OF RECIPIENT INSTITUTIONS, CONTINUED BY GEOGRAPHIC DIVISION, STATE, TYPE OF CONTROL, AND TYPE OF ACTIVITY: FY 1978

(OULLARS IN THOUSANDS)

| | | | (00 | LLARS IN THOU | JSANDS) | | | Indugan pur | ** | | |
|---|-------------------------------|----------------|--------------------------------|--|--------------|--|-----------------------------|-------------|--------------|---------------|--|
| GEOGRAPHIC DIVISION, STATE, AND TYPE OF CONTROL | | TOTAL, ALL | . TOTAL ACADEMIC SCIENCE | RESEARCH AND OE VELUPMENT | RED PLANT | DEMIC SCIENC FACIL FOR INSTR IN SCI & ENG | FELLOWSHIPS TRAINEESHIPS | SUPPORT | ÜTHER | ทบิท- | |
| SOUTH ATLANTIC, CONT'D | | | | or irrolling. | FLANT | JUI & END | TRNG GRANTS | FOR SCI | SCIENCE | SCIENCE | |
| PRIVATE INST'S | THA | 59,875 | 29,750 | 36 330 | 627 | | | | | | |
| GEORGIA | ND. | 30 | 7 | | 527 2 | 38 3 | 842 1 | 1,228 3 | 395 4 | 30,125 30 | |
| PUBLIC INST'S | AMT | 85,757 | 52,960 | 42.057 | 202 | 245 | | | | | |
| PRIVATE 1951'S | NŪ. AMT | 33 49,772 | 16 18,245 | 11 | 203 | 245 3 | 1,323 | 1,194 7 | 7,938 10 | 32,797 33 | |
| MARYLAND | . מא | 31 | 8 | 13,648 5 | 0 | 22 2 | 931 4 | 3,253 5 | 391 5 | 31,527 30 | |
| PUBLIC INST'S | AMT | 88,738 | 44,410 | 30 160 | 7.0 | | | | | | * - * · · · · · · · · · · · · · · · · · |
| PRIVATE INST'S | ND. | 29 219,769 | 16 203,001 | 13 | 38 1 | 71 | 1,180 | 661 | 3,302 5 | 44,328 29 | |
| NORTH CAROLINA | ND. | 21 | 7 | 196,246 3 | 21 1 | 874 3 | 4,836 2 | 792 | 232 | 16,768 21 | |
| PUBLIC INST'S | AMT | 115,768 | 56,270 | 41 147 | _ | | | | • | | |
| PRIVATE INST'S | NU. | 61 | 18 | 14 | 0 | 453 7 | 3,242 7 | 1,153 7 | 10,255 8 | 59,498 61 | |
| SOUTH CAROLINA | NO. | 44 | 47,769 10 | 40,940 6 | 60 1 | 158 1 | 5,241 4 | 868 4 | 502 2 | 35,899 44 | |
| PUBLIC INST'S | AMI | 51,166 | 31 1/3 | | _ | | | | | | |
| PRIVATE INST'S | NO. | 22 | 21,162 | 13,992 | 0 | 600 5 | 547 4 | 695 6 | 5,328 4 | 30,004 21 | |
| VIRGINIA | NO. | 17,602 23 | 533 7 | . 0 | 0 | 1 | 45 1 | 448 3 | 39 3 | 17,069 23 | |
| PUBLIC INSTIS | 4 W T | 119 +04 | 10.531 | | | | | | | • • • | |
| PRIVATE INST'S | AMT NÜ. | 118,696 | 60,536 | 48,866 | 177 2 | 375 5 | . 3.348 6 | 1,289 7 | 6,481 10 | 58,160 36 | |
| WEST VIRGINIA | TMA . GM | 22,951 28 | 2,145 14 | 1,336 9 | 0 | 47 4 | 137 2 | 546 3 | 79 4 | 20,806 28 | |
| PUBLIC INST'S | | | | | - | | • | | | | |
| | AMT ND. | 29,537 17 | 11,895 8 | 7,122 2 | . 0 | 32 2 | 774 | 564 3 | 3,403 3 | 17,642 17 | |
| PRIVATE INSTA | TMA . ON | 5,437 10 | 146 3. | 92 11 | | 36 3 | 0 | . 0 | 18 | 5,291 10 | a la la la la la la la la la la la la la |
| EAST SOUTH LENTRAL, TOTAL | | | | | | | | • | . • - | | |
| PUBLIC INST'S | AMT ND. | 307,589 89 | 129,604 40 | 87,516 35 | 3,014 3 | 621 . 19 | 5,925 18 | 3,036 22 | 29,692 25 | 177,785 89 | |
| PRIVATE INSTIS | TMA . UN | 117,043 107 | 30,629 25 | 23,476 16 | 0 | 76 5 | 2 + 6 9 5 | 3,453 | 929 14 | 86,414 107 | |
| ALADAMA | | | | | | | • | • • • | • • | 107 | |
| PUBLIC INST'S | AMT ON. | 98,752 32 | 46,278 14 | 33,367 12 | 2,244 | 254 8 | 2.849 | 477 | 7,087 | 52,474 | |
| PRIVATE INSTIS | AMI ND. | 26,935 21 | 3,552 8 | 1,203 | ō o | 20 1 | ن46 2 | 1,332 | 657 3 | 32 23,383 | |
| KENTUCKY | | | | | | - | - | . | , | 21 | |
| PUBLIC INST'S | AMT NÜ. | 59,916 | 25 ₁ 749 7 | 16,306 | , 4 1 | 212 6 | 862 | 831 | 7,534 | 34,167 | |
| PRIVATE INST'S | TMA ND. | 13,274 26 | 359 5 | 55 5 . | 5 | . 0 | . 0 | 250 | 54 3 | 12.915 | |
| HISSISSIPPI | | | | - , | • | • | | | ٠. | . 26 | |
| PUBLIC INST'S | AMT NÜ. | 72,273 24 | 20,671 | 11,590 7 | 0 | 44 1 | 725 5 | 1,159 | 7,153 | 51.602 | |
| PRIVATE INSTIS | AMT Nû. | 10,729 16 | 596 3 | ; 1 | ŏ | 10 | 66 | 433 | 5 80 | 10,133 | |
| TENNESSEE TENNESSEE | ,,, ,,, ,,, ,,, ,, | | | ************************************** | · | | | | | | |
| PUBLIC INST'S | AM I | 76,648 25 | 37,106 12 | 26,253 10 | 766 1 | 111 | 1,489 | 569 | 7,918 | 39,542 | |
| PRIVATE INST'S | AMT ND. | 66,105 | 26,122 | 22,211 | . 0 | 46 | 2,289 | 1,438 | 138 | 39,983 | |
| HEST SOUTH CENTRAL, TOTAL | | | | | ŭ | 3 | 9 | . 6 | . 5 | . 44 | 1.54 |
| PUBLIC INST'S | AMT NO. | 470,640 148 | 233,067 69 | 188,478 | 811 4 | 995 | 8,683 | 5,389 | 28,711 | 237,573 | |
| PRIVATE INST'S | AMT ND. | 122,487 87 | 49,813 | 46.C24 | 26 | 19 258 | 34 1,921 | 35 1,311 | 35 273 | 147 72,674 | 1.4 |
| ARKANSAS | | | 50 | 23 | 1 | 6 | 9 | 10 | 12 | 87 | |
| PUBLIC INST'S | THA OD. | 43,129 16 | 17,600 | 11,744 | 0 | 42 | 465 | 167 | 5,182 | 25,529 | e i e |
| PRIVATE INST'S | AMI No. | 6,932 | . 31 | 5 30 | 0 | 1 | 7 | . 0 | 0 | 16 6,901 | |
| LOUISIANA | .4u• | 12 | 3 | 2 | 0 | 1 | 0 | . 0 | 0 | . 12 | |
| PUBLIC INST'S | AMT OO. | 70,080 | 23,860 | 16,479 | 0 | 157 | 726 | 1,020 | 5,478 | 46,220 | |
| PRIVATE INST'S | AHT | 15 24,348 | 9,033 | B,037 | 0 | 9 | 5 353 | 6 582 | 91 R | 15 15,315 | |
| | NO. | 11 | 4 | . 3 | 0 | . 0 | 1 | 3 | 2 | 11 | ., |
| | | | | | | | | | | | ., |

SEE FOOTNOTES AT END UF TABLE.

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TABLE B-28. FEOERAL UBLIGATIONS TO UNIVERSITIES AND COLLEGES AND THE NUMBER OF RECIPIENT INSTITUTIONS, CONTINUED BY GEOGRAPHIC DIVISION, STATE, TYPE OF CONTROL, AND TYPE OF ACTIVITY: FY 1978

| | GEOGRAPHIC DIVISION, STATE, AND TYPE OF CONTROL ST SOUTH CENTRAL, CONT'O DKLAHOMA PUBLIC INST'S | AC | TAL, ALL ATIVITIES | CADENIC | RESEARCH AND DEVELOPMENT | R&D | FAGIL FOR INSTR IN SCI & ENG | FELLOWSHIPS TRAINEESHIPS TRNG GRANTS | GENERAL SUPPURT FUR SCI | DTHER SCIENCE | NDN- SCIENCE | 100 m 100 m |
|--------|--|--------------|--------------------|---------------|--------------------------------|-----------|------------------------------------|--|-------------------------------|------------------|------------------|---------------------|
| ₩E\$ | DKLAHOHA | | « | | | | | | | | | |
| | | | لا الووي وسنسوون | r | | | | | | | | |
| | PUBLIC INST'S | | e consider | | | | | | 652 | 4,734 | 40,184 | |
| | | AHT | 63,498 27 | 23,314 .11 | 16,387 7 | 0. | 214 3 | 1,327 | 5 | 5 7 | 27 7,291 | |
| | PRIVATE INST'S | MD. AMT | 7,762 | 471 | 392 3 | 0 | 13 1 | 59 2 | ŏ | i | 13 | *: |
| | TEXAS | ND. | 1,5 | | | | | | 2 650 | 11,317 | 125,640 | |
| | PUBLIC INST'S | AHT | 293,933 | 168,293 37 | 143,868 30 | 811 4 | 582 10 | 5,165 15 | 3,550 21 | 19 | 89 43,167 | |
| | PRIVATE INSTIS | AD. | 83,445 | 40,278 | 37,565 15 | 26 1 | 244 4 | 1,509 6 | 729 7 | 205 9 | 51 | |
| - на | JUNTAIN, TOTAL | ND. | 51 | • 7 | •• | _ | | | | | 154 537 | |
| | PUBLIC INST'S | AHT | 364,184 | 209,647 | 179,979 | 230 | 2,052 20 | 8,974 22 | 4,673 | 13,739 | 154,537 85 | |
| | PRIVATE 14ST'S | - ON TMA | 90 24,601 | 10,594 | 9,144 | 0 | 163 5 | 229 2 | 570 3 | 488 | 14,007 . 26 | |
| | ARIZONA | , ND. | 26 | 11 | ь | ŭ | • | | | | | |
| | PUBLIC INST'S | . AHT | 70,525 | 35,164 | 30,122 | 21 | 753 5 | 1,368 | 776 4 | 2,104 3 | 35,361 17 | 1.5 |
| | PRIVATE INST'S | ND. | 19 1,342 | 7 202 | 0 | 5 | ó | . 0 | 202 | 0 | -1,140 3 | State of the second |
| | | ND. | 3 | 1 | 0 | 0 | U | · · | | | | |
| | COLORADO | AMT | 104,027 | 63,375 | 54,689 | 46 | 857 | 3,986 | 964 | 2,833 | 40,652 | |
| | PUBLIC INST'S | NO. | 21 14,276 | 9 8,576 | 7,603 | 0 | 4 32 | 225 | 103 | 413 | | 1.0 |
| | PRIVATE INST'S | NU. | 11 | 3 | 3 | 0 | 1 | . 1 | • | • | | 1.14 |
| | UHADI | | 14 ((0.3 | 6,546 | 4,085 | 12 | 40 | 508 | 175 | 1,726 | 6,357 6 | |
| | PUBLIC INST'S | AMT. ND • | 14,903 | 36 | 3 | 1 | 2 5 | 2 0 | . 0 | 2 31 | 989 | |
| | PRIVATE INST'S | TMA NO. | 1,025 2 | 2 | | Ō | 1 | . 0 | . 0 | . 1 | 2 | |
| | MONTANA | | | | 6,280 | 0 | 16 | 335 | 159 | | 9,599 | |
| | PUBLIC INST'S | AMT ND. | 18,122 | 8,523 | 4 | 0 | - 2 4 | 5 0 | . 2 | . 0 | 10 1,511 | |
| | PRIVATE INST'S | AMI ND. | 1,515 | 1 | . 0 | . 0 | ĭ | Ō | 0 | 0 | 3 | |
| | NEVADA | | | | | | 20 | 158 | 100 | 835 | 6,766 | |
| | PUBLIC INST'S | AMT ND. | 11,525 7 | 4,759 | 4 | 0 | 1 | 2 | 1 | . 1 | | |
| | PRIVATE INSTIS | TMA • Oh | 111 | 14 | | 0 | 0 | ő | Ō | | | |
| | NEW MEXICO | 1101 | - | | | | _ | 0.22 | 1,426 | 2,058 | 28,655 | |
| | PUBLIC INST'S | AHT | 71,843 | 43,186 | | . 50 1 | ხ5 2 | 823 3 | 5 | 3 | 9 | • |
| | PRIVATE INST'S | HD. AMT | 3,983 | 34 | 66 | 0 | 17 1 | 0 0 | 265 1 | _ | | 3 |
| | uT AH | ND. | , | | - | | | | | | 21,024 | Δ . |
| | PUBLIC INST S | AHT | 62,756 | 41,73 | 2 37,468 | 101 | 276 3 | 1,542 2 | 912 | 3 . 3 | 9 | 9 |
| | PRIVATE INST'S | ND. Amt | 10 2,349 | 1,41 | 1,261 | 0 | 105 1 | 4 | | 0 44 0 1 | | |
| | HY CHING | ND. | 3 | | • | | | | | | | |
| | PUBLIC INST'S | AHT | 10,483 | 6,36 | | 0 0 | 25 1 | 234 | 16 | 11-, 01-7 1 1 | 4,123 | 8 |
| | PACIFIC, TOTAL | ND. | 8 | | | J | - | | | | | |
| | PUBLIC INST'S | AHT | 878,408 | | | 1,511 | | 29,356 37 | 7,70 2 | | | 5 |
| * | PRIVATE INST'S | ND. | 209 253,118 | 176,04 | 7 158.842 | 2,926 | 1,633 | 9,855 12 | 1,80 | 2 989 | 77,07 | |
| | | ND. | 136 | . 4 | | 3 | | | | | | |
| | ALASKA | AHT | 27,743 | 24,59 | 1 22,716 | 411 | . 11 | - 390 1 | | | 2 | 4 |
| | PUBLIC INST'S | ND. | 532 | + | 2 2 | L L |) 0 | 0 | * | | 53 | |
| | PRIVATE INST'S | ND. | 2 | | ō o | |) . 0 | 0 | | 7 | | i, |
| * 1, 2 | CALIFORNIA | | 570.095 | 350,36 | 310,528 | . 776 | 2,989 | | | | 5 219,70 4 13 | |
| | PUBLIC INST'S | TMA NU. | 140 230,151 |) 5 | 0 34 | | 16 | 9,350 | 1,41 | 9 87 | 9 57.26 | 54 |
| | PRIVATE 1951'S | TMA ON | | | | | 7 | | | 8 1 | 3 9 | - |
| 1 | HANAI I | | | 20.24 | 06 24,864 | 3 | 173 | 794 | | | | |
| | PUBLIC INST'S | AMT | 42,65 | 3 | 4 4 | | | . 2 | | ō | 0 1,41 | 19 |
| 1 | PRIVATE INST'S | AMT No. | 1,41 | • | 0 0 | | o o | | ··· · | o | o | , |

SEE FOOTNOTES AT END OF TABLE.

TABLE 8-28. FEDERAL OBLIGATIONS TO UNIVERSITIES AND COLLEGES AND THE NUMBER OF RECIPIENT INSTITUTIONS, CONTINUED BY GEOGRAPHIC DIVISION, STATE, TYPE OF CONTROL, AND TYPE OF ACTIVITY: FY 1978

| | | | ,,,, | | JAN 0 3 / | | | | | |
|-------------------------------|-------------|--------------------------|------------------------------|--------------------------------|--------------|------------------------------------|--|-------------------------------|------------------|------------------|
| GEUGRAPHIC DIVISION, | | | | | 46 4 | DEMIC SCIENC | C | ::- | | |
| STATE, AND TYPE OF CONTROL | - | TUTAL, ALL ACTIVITIES | TOTAL ACADEMIC SCIENCE | RESEARCH AND DEVELOPMENT | RED PLANT | FACIL FOR INSTR IN SC1 & ENG | FELLOWSHIPS TRAINEESHIPS IRNG GRANTS | GENERAL SUPPURT FUR SCI | OTHER SCIENCE | NUN- SC IENCE |
| PACIFIC, CUNT'D | | | | | | | | | | |
| OKEGON | | | | | | | | | | |
| PUBLIC INST'S | AHT | 84,114 | 42,120 | 35,789 | 119 | 286 | 2,132 | 566 | 3,228 | 41,994 |
| PRIVATE INST'S | . On Tha | 22 9,103 | 10 2,165 | | 1 0 | 4 84 | 6 | 3 383 | 7 71 | 22 6,933 |
| HASHINGTUN | м0. | 20 | 6 | 5 | ō | Ž | ō | 2 | . 2 | 20 |
| PUBLIC INST'S | AHT | 153,605 | 97,110 | 85.918 | 175 | 595 | 5,945 | 859 | 3,618 | E4 40E |
| PRIVATE INST'S | NO. AHT | 33 11,913 | 995 | 4 | 1 0 | 23 | 505 | 3 | 5 | 56,695 |
| DUTLYING AREAS, TOTAL | ND. | 13 | "7 | 5 | ŏ | 3 | 1 | 0 0 | 39 | 10,918 13 |
| PUBLIC INST'S | THA | 58,734 | 16,727 | 9,372 | 252 | 0 | 474 | 1,029 | 5,600 | 42.007 |
| PRIVATE INSTAS | NO. AHT | 12 92,513 | 940 | 6 | 1 | ō | 4 | 5 | 5 | 12 |
| GUAH | NO. | 12 | 940 | 6 1 | 0 | 0 0 | 0 0 | 861 5 | 73 3 | 91,573 11 |
| OUAN | | | | | | | | | | |
| PUBLIC INST'S | THA ON . | 3,071 | 1,044 | 557 | Ó | 0 | 3 | 15 | 469 | 2,027 |
| PUERTO RICO | NO. | 1 | | 1 | 0 | 0 | 1 | 1 | 1 | 1 |
| PUBLIC INST'S | AHT | 52,679 | 14,329 | 8,112 | 252 | 0 | 471 | 822 | 4,672 | 36,350 |
| PRIVATE INSTES | ND. Amt | 92,513 | 6 940 | 6 | 1 0 | 0 0 | 3 0 | 3 861 | 3 73 | 91.573 |
| AMERICAN SAMJA | NO. | 12 | . 6 | 1 | 0 | 0 | 0 | 5 | 3 | 11 |
| PUBLIC INST'S | AHT | 411 | 0 | 0 | 0 | 0 | 0 | 0 | . 0 | 411 |
| VIRGIN ISLANDS | 40. | 1 | 0 | 0 | ٥ | Ō | ō | . 0 | Ŏ. | . 1 |
| PUBLIC INST'S | THA | 2,056 | 1,354 | 703 | 0 | . 0 | 0 | 192 | 459 | 702 |
| TRUST TERRITORY PAC ISL | NO. | 1 | 1 | 1 | э | Ō | Ō | ī | i | ì |
| PUBLIC INST'S | AMT NO. | 517 1 | 0 . 0 | 0 | 0 D | · 0 | 0 | 0 | 0 | 517 1 |

NOTE: TABLE INCLUDES OATA FROM 14 FEDERAL AGENCIES RESPONSIBLE FOR MORE THAN 35 PERCENT OF ALL FEDERAL UBLIGATIONS TO UNIVERSITIES AND CULLEGES.

TABLE B-29. PERCENT DISTRIBUTION OF FEDERAL DBLIGATIONS TO PUBLIC AND PRIVATE UNIVERSITIES AND COLLEGES. 8Y GEOGRAPHIC DIVISION, STATE. TYPE OF CONTROL. AND TYPE OF ACTIVITY: FY 1978

| GEOGRAPHIC DIVISION, STATE, AND TYPE OF CONTROL | TOTAL, ALL | TOTAL ACADEHIC SCIENCE | TE, TYPE OF CO RESEARCH AND DEVELOPHENT | RED | ADEMIC SCIE FACIL FOR | NCE FELLOWSHIPS TRAINEESHIPS TRNG GRANTS | SUPPORT | OTHER SCIENCE | NON- SCIENCE | |
|--|--------------|------------------------|--|--------------|--------------------------|---|--------------|---------------------|----------------------|-----|
| UNITED STATES. TOTAL PUBLIC INST'S PRIVATE INST'S. | 61.0 39.0 | 58.0 42.0 | 56.2 43.8 | 30.3 69.7 | 59.5 40.5 | 52.6 47.4 | 58.3 41.7 | 90.5 9.5 | 64 . 4 35 . 6 | |
| NEW ENGLAND, TOTAL PUBLIC INST'S PRIVATE INST'S | 26.8 73.2 | 16.9 83.1 | 15.6 84.4 | 1.1 98.9 | 26.4 73.6 | 9.7 90.3 | 34.0 66.0 | 67.8 32.2 | 45.8 54.2 | |
| CONNECTICUT PUBLIC INST'S PRIVATE INST'S | 30.6 69.4 | 22.8 77.2 | 21.2 78.8 | 0.0 | 38.6 61.4 | 16.0 84.0 | 49.5 50.5 | 86.7 13.3 | 49.1 50.9 | |
| MAINE PUBLIC INST'S PRIVATE INST'S | 80.9 19.1 | 93.9 6.1 | 96.2 3.8 | 0.0 | 61.7 38.3 | 100.0 | 36.6 63.4 | 99.8 0.2 | 77.4 22.6 | |
| MASSACHUSETTS PUBLIC INST'S PRIVATE INST'S | 15.1 84.9 | 6.6 93.4 | 5.9 94.1 | 0.0 | 20.8 79.2 | 3.5 96.5 | 23.1 76.9 | 40.3 59.7 | 35.7 64.3 | |
| NEW HAMPSHIRE PUBLIC INST'S PRIVATE INST'S | 49.6 50.4 | 47.1 52.9 | 42.9 57.1 | 0.0 | 41.8 58.2 | 60.8 39.2 | 43.7 56.3 | 97.9 2.1 | 52.0 48.0 | |
| RHODE ISLAND PUBLIC INST'S PRIVATE INST'S | 45.0 55.0 | 44.0 56.0 | 42.4 57.6 | 100.0 | 21.2 78.8 | 14.7 85.3 | 23.0 77.0 | 95.5 4.5 | 46.5 53.5 | |
| VERMONT PUBLIC INST'S PRIVATE INST'S | 81.9 18.1 | 99.6 0.4 | 99.8 0.2 | 0.0 | 80.7 19.3 | 100.0 | 100.0 | 99.0 | 67.0 33.0 | ٠. |
| HIDOLE ATLANTIC, TOTAL PUBLIC INST'S PRIVATE INST'S | 42.8 57.2 | 27.9 72.1 | 27.7 72.3 | 3.9 96.1 | 20.0 80.0 | 20.8 79.2 | 42.2 57.8 | 48.4 | 59.7 40.3 | : |
| NEW JERSEY PUBLIC INST'S PRIVATE INST'S | 68.0 32.0 | 54.6 45.4 | 53.4 46.6 | 100.0 | 51.6 48.4 | 26.6 73.4 | | 97.3 2.7 5.3 | 76.5 23.5 58.8 | : . |
| NEW YORK PUBLIC INST'S PRIVATE INST'S | 35.3 64.7 | 15.2 84.8 | 15.4 84.6 | 4.0 96.0 | 19.4 80.6 | 15.5 84.5 | 38.9 61.1 | 94.7 | 41.2 53.5 | • |
| PENNSYLVANIA PUBLIC INST'S PRIVATE INST'S | 50.0 50.0 | 47.3 52.7 | 46.3 53.7 | 3.8 96.2 | | 33.5 66.5 | 43.7 | 89.0 11.0 | 70.1 | 1 |
| EAST NORTH CENTRAL, TOTAL PUBLIC INST'S PRIVATE INST'S | 71.2 28.8 | 72.2 27.8 | 70.9 29.1 | 70.1 29.9 | | 66.5 33.5 | 60.7 39.3 | 96.6 3.4 95.1 | 29.9 | |
| ILLINDIS PUBLIC INST'S PRIVATE INST'S | 51.4 48.6 | 42.7 57.3 | 40.8 59.2 | 5.0 95.0 | | 32.4 67.6 | 48.8 | 4.9 | 38.8 76.5 | |
| INDIANA PUBLIC INST'S PRIVATE INST'S | 83.9 16.1 | 90.2 9.8 | 89.7 10.3 | 45.1 54.9 | | 91.D 9.0 | 76.7 23.3 | 1.8 | 23.5 | |
| MICHIGAN PUBLIC INST'S PRIVATE INST'S | 88.7 11.3 | 99.4 0.6 | 99.7 0.3 | 100.0 | | 99.3 | 92.2 7.8 | 0.8 | 21.2 | |
| OHIOOHIO | 6278 37.2 | 61.6- 38.4 | 59.6 40.4 | 0. 0. | | 49,4 50.6 | 42.1 57-9 | | 36 • 1 | _ |
| WISCONSIN PUBLIC INST'S PRIVATE INST'S | 86.9 13.1 | 91.4 8.6 | 91.0 | 100. | | 95.5 4.5 | 91.8 58.2 | 2 1.0 | 19.6 | |
| WEST NORTH CENTRAL, TOTAL PUBLIC INST'S PRIVATE INST'S | 72.6 27.4 | 77.3 22.7 | 75.3 24.7 | 100. | | 65.8 34.2 | 60.2 39.0 | B 1.8 | 32.1 | |
| 10hA PUBLIC INST'S PRIVATE INST'S | 79.7 20.3 | 99.0 1.0 | 99.4 0.6 | 100 | | 97.2 2.8 | 97. | 1 1.6 | 40.8 | ì |
| KANSAS PUBLIC INST'S PRIVATE INST'S | · 85.5 | 99.5 | | . 0 | 0 89.4 0 10.6 | | | 1 0.6 | 25.6 | |
| MINNESDTA PUBLIC INST'S PRIVATE INST'S | 86.6 13.4 | 98.5 1.5 | 99.6 | . 0 | .0 82.9 .0 17.1 | | 55. 44. | 7 2.7 | 2 28.3 | |
| MISSDURI PUBLIC INST'S PRIVATE INST'S | 44.2 55.8 | 33.0 67.0 | | 100 | .0 11.7 .0 88.3 | 73.4 | 62• | 7 1.0 | 41.5 | |
| NEBRASKA PUBLIC INST'S PRIVATE INST'S | 81.5 18.5 | 95.4 4.6 | | | .0 96.0 .0 4.0 | | | | | |

TABLE 8-29. PERCENT DISTRIBUTION OF FEDERAL DBLIGATIONS TO PUBLIC AND PRIVATE UNIVERSITIES AND COLLEGES, CONTINUED BY GEOGRAPHIC DIVISION, STATE, TYPE OF CONTROL, AND TYPE OF ACTIVITY: FY 1978

| CONTINUED | SY GEOGRAPHIC D | IVISION ST | ATE: TYPE OF C | DNTRDL. | AND TYPE DE | | 1978 | | | |
|--|--------------------------|------------------------------|--------------------------------|---------------|-----------------------|---|--------------------|------------------|------------------|--|
| GEDGRAPHIC DIVISION, STATE, AND TYPE DF CONTROL | TDTAL, ALL ACTIVITIES | TDTAL ACADEMIC SCIENCE | RESEARCH AND DEVELDPMENT | R ED PLANT | FACIL FOR INSTR IN | ENCE FELLOWSHIPS TRAINEESHIPS TRNG GRANTS | GENERAL SUPPORT | DTHER SCIENCE | NDN- SCIENCE | |
| WEST NORTH CENTRAL . CONT.O | | ÷, | | | | | | | 30121102 | |
| NDRTH DAKDTA PUBLIC INST'S PRIVATE INST'S | 86.1 13.9 | 91.2. 8.8 | 92.7 7.3 | 0.0 | 100.0 | 100.0 | 14.5 85.5 | 100.0 | 84.1 15.9 | |
| SDUTH DAKDTA PUBLIC INST'S PRIVATE INST'S | 79 •8 20 • 2 | 96.6 3.4 | 97.2 2.8 | 0.0 | 0.0 | 100.0 | 100.0 | 96.1 3.9 | 73.7 26.3 | |
| SDUTH ATLANTIC, TOTAL PUBLIC INST'S PRIVATE INST'S | 49.1 50.9 | 47.1 52.9 | 43.2 56.8 | 26.2 73.8 | 63.2 36.8 | 47.6 52.4 | 46.1 53.9 | 95.2 4.8 | 51 • 1 48 • 9 | |
| DELAWARE PUBLIC INST'S PRIVATE INST'S | 94.4 5.6 | 100.0 | 100.0 0.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 86.2 13.8 | |
| DISTRICT DF CDLUMBIA PUBLIC INST'S PRIVATE INST'S | 3.1 96.9 | 4.7 95.3 | 1.8 93.2 | 0.0 | 0.0 | 6.2 93.8 | 19.9 | 60.6 39.4 | 2.7 97.3 | |
| FLDRIDA PUBLIC INST'S PRIVATE INST'S | 68.0 32.0 | 61.4 38.6 | 59.0 41.0 | 19.4 80.6 | 91.1 | 71.3 28.7 | 54.7 45.3 | 92.4 7.6 | 72,6 27.4 | |
| GECRGIA PUBLIC INST'S PRIVATE INST'S | 63.3 36.7 | 74.4 25.6 | 75.5 24.5 | 100.0 | 91.8 8.2 | 58.7 41.3 | 26 . B 73 . 2 | 95.3 4.7 | 51.0 49.0 | |
| MARYLAND PUBLIC INST'S PRIVATE INST'S | 28.8 71.2 | 17.9 82.1 | 16.6 83.4 | 64.4 35.6 | 7.5 92.5 | 19.6 80.4 | 45.5 | 93,4 6.6 | 72.6 27.4 | |
| NDRTH CARDLINA PUBLIC INST'S PRIVATE INST'S | 58.0 42.0 | 54.1 45.9 | 50.1 49.9 | 0.0 100.0 | 74.1 25.9 | 38.2 61.8 | 57.0 43.0 | 95.3 4.7 | 62.4 37.6 | |
| SDUTH CARDLINA PUBLIC INST'S PRIVATE INST'S | 74.4 25.6 | 97.5 2.5 | 100.0 | 0.0 | 99.8 | 92.4 7.6 | 60.8 39.2 | 99.3 0.7 | 63.7 36.3 | |
| VIRGINIA PUBLIC INST'S PRIVATE INST'S | 83.8 16.2 | 96.6 3.4 | 97.3 2.7 | 100.0 | 88 • 9 11 • 1 | 96.1 3.9 | 70.2 29.8 | 98.8 1.2 | 73.6 26.4 | |
| HEST VIRGINIA PUBLIC INST'S PRIVATE INST'S | 84 .4 15 .6 | 98.8 1.2 | 98.7 1.3 | 0.0 | 47.0 53.0 | 100.0 | 100.0 | 99.5 0.5 | 76.9 23.1 | |
| AST SOUTH CENTRAL, TOTAL PUBLIC INST'S PRIVATE INST'S | 72.4 27.6 | 80.9 19.1 | 78.8 21.2 | 100.0 | 89.1 10.9 | 68.7 31.3 | 46.8 53.2 | 97.0 3.0 | 67.3 32.7 | |
| ALABAMA PUBLIC INST'S PRIVATE INST'S | 78.6 21.4 | 92.9 7.1 | 96.5 3.5 | 100.0 | 92.7 7.3 | 89.3 10.7 | 26.4 73.6 | 91.5 8.5 | 69.2 30.8 | |
| KENTUCKY PUBLIC INST'S PRIVATE INST'S | 81.9 18.1 | 98.6 1.4 | 99.7 0.3 | 100.0 | 100.0 | 100.0 | 76.9 23.1 | 99.3 0.7 | 72.6 27.4 | |
| MISSISSIPPI PUBLIC INST'S PRIVATE INST'S | 87.1 12.9 | 97.2 2.8 | 99.9 0.1 | 0.0 0.0 | 81.5 18.5 | 91.6 8.4 | 72.8 27.2 | 98.9 1.1 | 83.6 16.4 | · |
| TENNESSEE PUBLIC INST'S PRIVATE INST'S | 53.7 46.3 | 58.7 41.3 | 54.2 45.8 | 100.0 | 70.7 29.3 | 39.4 60.6 | 28.4 71.6 | 98.3 1.7 | 49.7 | |
| EST SDUTH CENTRAL, TOTAL PUBLIC INST'S PRIVATE INST'S | 79.3 20.7 | 82.4 17.6 | 80.4 19.6 | 96.9 3.1 | 79.4 20.6 | 81.9 18.1 | 80 • 4 19 • 6 | 99.0 | 76.6 23.4 | |
| ARKANSAS PUBLIC INST'S PRIVATE INST'S | 86.2 13.8 | 99.8 0.2 | 99.7 0.3 | 0.0 | 97.7 2.3 | 100.0 | 100.0 | 100.0 | 78.7 21.3 | |
| PUBLIC INST'S PRIVATE INST'S | 74 • 2 25 • 8 | 72.5 27.5 | 67.2 32.8 | 0.0 | 100.0 | 67.3 32.7 | 63.7 36.3 | 98.9 1.1 | 75.1 24.9 | |
| DKLAHDHA PUBLIC INST'S PRIVATE INST'S TEXAS | 89.1 10.9 | 98.0 2.0 | 97.7 2.3 | 0.0 | 94.3 5.7 | 95.7 4.3 | 100.0 | 99.8 0.2 | 84.6 15.4 | |
| PUBLIC INST'S PRIVATE INST'S | 77.9 22.1 | 80.7 19.3 | 79.3 20.7 | 96.9 3.1 | 70.5 29.5 | 80.3 19.7 | 83.0 17.0 | 98.5 1.5 | 74.4 25.6 | ************************************** |
| DUNTAIN, TOTAL PUBLIC INST'S PRIVATE INST'S | 93.7 6.3 | 95.2 4.8 | 95.2 4.8 | 100.0 | 92.6 7.4 | 97.5 2.5 | 89.1 10.9 | 96.6 3.4 | 91.7 8.3 | |
| SEE EDDINGTES AT END DE | 74015 | ÷ | | | | | | | | |

TABLE B-29. PERCENT DISTRIBUTION OF FEDERAL OBLIGATIONS TO PUBLIC AND PRIVATE UNIVERSITIES AND COLLEGES, CONTINUED BY GEOGRAPHIC DIVISION. STATE. TYPE OF CONTROL, AND TYPE OF ACTIVITY: FY 1978

| CONTINUED | BY GEOGRAPHIC D | 1413100. 317 | | | | E N/ | | | | |
|--|--------------------------|------------------------------|--------------------------------|--------------|------------------------------------|--|------------------|------------------|-----------------|-------------|
| GEOGRAPHIC DIVISION. STATE, AND TYPE OF CONTROL | TOTAL. ALL ACTIVITIES | TOTAL ACADEMIC SCIENCE | RESEARCH AND DEVELOPMENT | R &D | FACIL FOR INSTR IN SCI & ENG | FELLOWSHIPS TRAINEESHIPS TRNG GRANTS | SUPPORT | OTHER SCIENCE | NDN- SCIENCE | |
| MDUNTAIN, CONT'D | | | Mark Control of the Control | | | | | | | |
| ARIZONA PUBLIC INST°S PRIVATE INST°S | 98.1 1.9 | ~ 99.4 0.6 | 100.0 | 100.0 | 100.0 | 100.0 | 79.3 20.7 | 100.0 | 96.9 3.1 | |
| COLORADO PUBLIC INST'S PRIVATE INST'S | 87.9 12.1 | 88.1 11.9 | 87.5 12.5 | 100.0 | 96 • 4 3 • 6 | 94.6 5.4 | 90.3 9.7 | 87.3 12.7 | 87.7 12.3 | |
| IDAHD PUBLIC INST°S PRIVATE INST°S | 93.6 6.4 | 99.4 | 100.0 | 100.0 | 88.9 11.1 | 100.0 0.0 | 100.0 | 98.2 1.8 | 89.4 10.6 | |
| HONTANA PUBLIC INST'S PRIVATE INST'S | 92.3 7.7 | 100.0 | 100.0 | 0.0 | 80.0 20.0 | 100.0 | 100.0 | 100.0 | 86.4 13.6 | : : |
| NEVADA Public inst*s Private inst*s | 99.0 1.0 | 99.7 | 99.6 0.4 | 0.0 | 100.0 | 100.0 | 100.0 | 100:0 | 98.6 1.4 | |
| NEW MEXICO Public inst*s Private inst*s | 94 • 7 5 • 3 | 99•2 0•8 | 99.8 0.2 | 100.0 | 79.3 20.7 | 100.0 | 84.3 15.7 | 100.0 | 88.7 11.3 | |
| UTAH PUBLIC INST'S PRIVATE INST'S | 96.4 3.6 | 96.7 3.3 | 96.7 3.3 | 100.0 | 72.4 27.6 | 99.7 0.3 | 100.0 | 97.0 3.0 | 95.7 4.3 | |
| HYDHING PUBLIC INST'S | 100.0 | 100.0 | 100.0 | 0.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | |
| PACIFIC, TOTAL PUBLIC INST'S PRIVATE INST'S | 77.6 22.4 | 75.5 24.5 | 75.1 24.9 | 34.0 66.0 | | 74.9 25.1 | 61.0 19.0 | 95.3 4.7 | 81.3 18.7 | |
| ALASKA PUBLIC INST'S PRIVATE INST'S | 98 • I 1 • 9 | 100.0 | 100.0 0.0 | 100.0 | | 100.0 | 100.0 | 100.0 | 85.6 14.4 | |
| CALIFORNIA PUBLIC INST°S PRIVATE INST'S | 71 • 2 28 • 8 | 67.0 33.0 | 66.4 33.6 | 21.0 79.0 | | 68.2 31.8 | 79.9 20.1 | 92.2 7.8 | 79.3 20.7 | |
| HAWA11 PUBLIC INST'S PRIVATE INST'S | 96.8 3.2 | 100.0 | 100.0 | 100.0 | | 100.0 | 100.0 | 100.0 | 91.0 9.0 | |
| DREGON PUBLIC INST'S PRIVATE INST'S | 90.2 9.8 | 95.1 4.9 | 95.6 4.4 | 100.0 | | 100.0 | 59.6 40.4 | 97.8 2.2 | 85.8 14.2 | |
| WASHINGTON PUBLIC INST'S PRIVATE INST'S | 92 •8 7 • 2 | 99.0 1.0 | 99.5 | 100.0 | | 92.2 7.8 | 100.0 | | 83.8 16.2 | |
| DUTLYING AREAS, TOTAL PUBLIC INST'S PRIVATE INST'S | 38.8 61.2 | 94.7 5.3 | 99.9 | 100. | | 100.0 | 54.4) 45.6 | | 31.4 68.6 | |
| GUAM PUBLIC INST'S | 100.0 | 100.0 | 100.0 | 0. | 0.0 | 100.0 | 100.0 | 100.0 | 100.0 | |
| PUERTO-RIGO | 36.3 63.7 | 93.8 6.2 | 99.9 0.1 | 100. | | 100.0 | 48 • 8 51 • 2 | | 29.5_ 70•5 | |
| AMERICAN SAMDA PUBLIC INST'S | 100.0 | 0.0 | 0.0 | 0. | .0 0.0 | 0.0 | 0.0 | 0.0 | 100.0 | |
| VIRGIN ISLANDS PUBLIC INST'S | 100.0 | 100.0 | 100.0 | 0. | .0 0.0 | 0.0 | 100.0 | 0 100.0 | 100.0 | |
| TRUST TERRITORY PAC 19 | 5L 100.0 | 0.0 | 0.0 | 0. | .0 0.0 | 0.0 | 0.0 , ne | 0.0 | 100.0 | |

NOTE: TABLE INCLUDES DATA FROM 14 FEDERAL AGENCIES RESPONSIBLE FOR MORE THAN 95 PERCENT OF ALL FEDERAL OBLIGATIONS TO UNIVERSITIES AND COLLEGES.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 8-30. FEDERAL DBLIGATIONS TO THE 100 PUBLIC UNIVERSITIES AND COLLEGES RECEIVING THE LARGEST AMOUNTS.

BY AGENCY: FY 1978

(DOLLARS IN THOUSANDS)

| 4 1 | A CONTRACT OF THE CONTRACT OF | | • | | | | | | | | | | | |
|----------------|---|----------------------|-----------|-----------|-----------------|----------------|--------------|------------------|--------------|----------------|----------------|-----------|------------|----------|
| 11 11 11 | INSTITUTION (RANKED | | | | | | | | | | | | | |
| 21 <u>2</u> 21 | BY TOTAL FEDERAL | | | | | | | | | | | | | |
| RANK | DBL IGATIONS) | TOTAL | USDA | CDM | 000 | DDE | EPA | HEM | INT | - NA SA | NSF | TOO | OTHER# | |
| - 4 | UNITED STATES TOTA | AL 4,565,111 | 377,098 | 30,740 | 193,045 | 141,834 | 42,303 | 3,263,279 | 37,818 | 80,394 | 344,776 | 12,503 | 41,321 | |
| 1 | UNIVERSITY OF WASHING | TON 105,671 | 910 | 2,466 | 7,797 | 4,157 | 1,028 | 73,915 | 412 | 1,209 | | | -07 | |
| | UNIV OF WIS-MADISON | 99,330 | | 2,,00 | 3,395 | 6,521 | 7 | 61,799 | 412 529 | 2,563 | | 255 15 | 597 187 | |
| | UNIV DE CAL LOS ANGEL | .ES 97,779 | 329 | | 4,289 | 9,899 | | 69,738 | | 2,073 | | 65 | 74 1 | |
| 4 | UNIVERSITY OF MINNESCUNIV OF CAL SAN DIEGO |)TA 93,558 | | | 1,198 | 2,887 | | 67,181 | 793 | 1,558 | | 60 | 195 | |
| | ONLY OF CAL SAN DIEGE | 88,508 | 115 | 3,612 | 11,226 | 2,348 | 142 | 36,010 | 241 | 4 •827 | 29,987 | 0 | 0 | |
| | UNIVERSITY OF MICHIGA | | | 1,063 | 3,260 | 3,051 | 1,651 | 56,706 | 41 | 5 +636 | 11,016 | 2,670 | 1.092 | |
| | | | | 173 | 15,415 | 2,598 | 506 | 27,442 | | 842 | | 445 | 80 | |
| | UNIV OF CAL BERKELEY DHID STATE UNIVERSITY | 65,720 64,107 | | 0 32 | 9,277 | 2,987 | 315 | 28,352 | | 4,439 | | 134 | 1,936 | |
| | UNIV DE CAL SAN FRANC | | | 92 | 4,185 254 | 1,041 | 1,650 | 34,332 56,246 | 435 | 700 187 | 3,564 1,059 | ·278 0 | 5,814 | |
| 7.01 | TAL 1ST 10 INSTITUTI | ONE 937 455 | | 7 7/- | | | | | | | • | | • | 1.1 |
| | • | IDNS 827,455 | 49,604 | 7,365 | 60,296 | 37,188 | 7,233 | 511,721 | 5,024 | 24,034 | 110,426 | 3,922 | 10,642 | |
| 11 | UNIV DE ILL URBANA | 58,840 | | 0 | 4,962 | 6,495 | | 17,870 | 768 | 992 | | . 55 | 7. : | |
| | UNIVERSITY OF COLORAG | | | 850 71 | 1,881 | 2,048 | . 202 | 39,369 | 623 | 2,733 | 5,307 | . 0 | 25 | • |
| | PURDUE UNIVERSITY | 44,383 | | 71 241 | 15,875 2,645 | 7,206 4,233 | 378 654 | 13,945 15,754 | 445 205 | 2.787 2.220 | | 183 20 | 273 649 | |
| | UNIV DE NC AT CHAPEL | | | 39 | 702 | 381 | | 36,294 | 118 | 30 | 3,675 | 81 | 100 | * |
| . 16 | MICHIGAN STATE UNIVER | SITY 43.666 | 10.908 | 20 | 571 | 2,332 | 665 | 21,001 | 134 | 120 | 6,901 | o | 1 014 | |
| 17 | LNIVERSITY OF UTAH | 42.863 | 51 | 227 | 823 | 5,535 | 116 | 30,447 | 758 | . 496 | 4,355 | 55 | 1,014 | |
| 18 | UNIVERSITY OF PITTSBL UNIVERSITY OF ARIZONA | | | 126 | 1,499 | 599 | 216 | 33,984 | 54 | 927 | 3,491 | 185 | 180 | |
| | UNIVERSITY OF FLORIDA | | | 23 28 | 3,382 1,710 | 860 2,779 | 864 1.044 | 20,611 | 1,019 | 2,189 | 6,347 | 0 | 881 | |
| 100 | | | - | | | | 11044 | 20,444 | 253 | 859 | 3,694 | 173 | 500 | |
| | | DNS 1,281,578 | 93,101 | 8,990 | 94,346 | 69,656 | 15,599 | 761,440 | 9,401 | 37,387 | 172,713 | 4,674 | 14,271 | |
| | UNIV DF CAL DAVIS | 38,476 | | . 0 | 462 | 3,490 | 323 | 22,197 | 380 | 160 | 3,927 | . 0 | 4,678 | · '. |
| | UNIV ALABAMA BIRMINGH | | | 0 | 128 | 66 | 0 | 36,573 | . 0 | 96 | 609 | . 0 | 0 | |
| | UNIVERSITY OF IOWA UNIVERSITY OF NEW MEX | 37,326 1CD 34,786 | | 0 130 | 764 5,283 | 246 367 | 390 . 25 | 30,638 26,313 | 0 519 | 3,282 410 | 1,908 | 62 | 35 | |
| | TEXAS AEM UNIVERSITY | 34,204 | | 1,598 | 1,838 | 925 | 104 | 4,103 | 375 | 1,301 | 1,163 5,101 | 1.847 | 495 30 | |
| 26 | U TENNESSEE KNDXVILLE | 33.329 | 10,083 | 62 | 1,300 | 10 536 | 119 | 0.400 | | | | | | |
| | RUTGERS THE ST UNIV | | | 120 | 488 | 10,536 299 | 205 | 9,409 21,608 | 163 | 538 | 1,119 3,840 | 0 40 | 0 695 | 100 |
| | UNIVERSITY OF KENTUCK | Y 31,988 | | 100 | 423 | 541 | 322 | 17,380 | 453 | 298 | 1,371 | 273 | 13 | |
| | UNIV OF MISSOURI COLU | | | 0 | 703 | 314 | 579 | 15,587 | 4 3 5 | 159 | 1,664 | 0 | 141 | 4000 |
| 30 | COLDRADD STATE UNIVER | S1TY 29,017 | 6,223 | 25 | 1,273 | 2,176 | 2,120 | 10,441 | 810 | 821 | 3 • 998 | | 1,070 | 18 |
| דםד | AL 1ST 30 INSTITUTI | DNS 1,620,921 | 155,503 | 11,025 | 107,008 | 88,616 | 19,786 | 955,689 | 12,985 | 44,512 | 197,413 | 6,956 | 21.428 | 11 11 |
| 31 | UNIVERSITY OF VIRGINI | A 28,913 | . 0 | 25 | 1,056 | 1,702 | 188 | 21,570 | 37 | 522 | 3,482 | 266 | 65 | |
| | UNIV OF MD COLLEGE PA | RK 28,562 | 4,361 | 0 | 2,407 | 3,495 | 973 | 7,614 | 214 | 2,420 | 6,956 | 57 | 65 | |
| | LOUISIANA STATE UNIV | 27,901 | | 1,165 | 933 | 1,409 | 386 | 15,147 | 201 | 0 | 1,273 | | 9 | |
| | UNIVERSITY OF KANSAS | ST 27,876 27,541 | | 131 | 1,231 659 | . 448 75 | 324 89 | 16,149 22,972 | 2 1 3 2 0 | 262 850 | 4,703 1,781 | 56 59 | 87 | file for |
| | The second second | | | - • | | | | | | | | | 884 | |
| | DREGON STATE UNIVERSI | | | 1,475 | 1,827 | 971 | 873 | 9,602 | 361 | 351 | 5,514 | 102 | 403 | |
| | INDIANA UNIV-BLOOMING | TDN 26,383 25,884 | 48 147 | 0 62 | 294 2,255 | 727 1,667 | 0 | 18,615 | 360 | 137 | 6,274 | 245 | 0 | |
| 39 | TEMPLE UNIVERSITY | 25,845 | 177 | 0 | 188 | 150 | 100 | 14,878 24,070 | 360 0 | 2,135 72 | 4,324 940 | . 56 0 | 0 325 | |
| | UNIVERSITY OF CONNECT | | 2,186 | 74 | 952 | 3 38 | 55 | 19,706 | 128 | 426 | 1,646 | . 0 | 15 | **** |
| TOT | AL 1ST 40 INSTITUTE | DNS 1,892,814 | 180,030 | 13,957 | 118,810 | 99,598 | 22,774 | 1,126,012 | 14,562 | 51,687 | 234,306 | 7,797 | 23,281 | |
| 41 | GEDRGIA INSTITUTE DE | TECH 24.877 | 0 | 200 | 14,795 | 2,476 | | | | | | , . | | *. * |
| 42 | NEW MEXICO STATE UNIV | 24,695 | | 200 | 9,037 | 1,143 | 39 32 | 3,205 7,129 | 286 171 | 938 1,650 | 2,329 837 | 378 0 | 231 0 | |
| 43 | UNIV OF MD BALT PROF | SCH 23.46/ | 0 | ŏ | 410 | 0 | 450 | 22,251 | 0 | 38 | 318 | Ö | . 0 | |
| 44 | UNIV DF ALASKA-FAIRBA N C STATE UNIV AT RAL | | 1,617 | . 0 | 10,770 663 | 686 459 | 100 918 | 1,736 | 2,301 | 332 | 5,827 | 55 | ō | |
| | | | . 144511 | _ | 003 | 407 | 718 | 4,236 | 322 | 303 | 1,820 | 70 | . 7 ' | |
| | U TEX-ANORSH HOSPETUM VA POLYTECH INST & ST | | 9,636 | 160 | 1,851 | 2,900 | 0 88 | 22,976. 3,835 | 0_ 331 | 1.500 | 325_ 2,617 | 0 75 | 0 97 | |
| - 48 | UNIVERSITY OF GEORGIA | 22,876 | 11,393 | 44 | 334 | 2,681 | 260 | 4,139 | 195 | - 84 | 3,746 | . (3 | 97 | |
| | WAYNE STATE UNIVERSIT | | 25 | 0 | 611 | 699 | 0 | 19,630 | 0 | 27 | 1.740 | Ö | ŏ | |
| - 50 | UNIVERSITY OF CINCINN | AT1 22,631 | 34 | 0 | 1,121 | 310 | 1,594 | 18,184 | . 0 | 212 | 1,176 | . 0 | 0. | |
| TOT | AL 1ST 50 INSTITUTI | DNS 2,127,222 | 221,948 | 14,361 | 158,402 | 110,952 | 26,255 | 1,233,333 | 18,168 | 56,771 | 255,041 | 8,375 | 23,616 | |
| . ' | | | | | | | | | | , . | | | | |

TABLE 8-3D. FEDERAL DBLIGATIONS TO THE 100 PUBLIC UNIVERSITIES AND COLLEGES RECEIVING THE LARGEST AMOUNTS, BY AGENCY: FY 1978

(DOLLARS IN THOUSANDS)

| | | INSTITUT BY TOT OBLIG | AL F | FEDERA | rr ED | TOTAL | USDA | сом | 000 | DDE | EPA | HEW | INT | NA S A | NSF | 700 | OTHER® | |
|---|------|-----------------------------|---------------|------------|---|--------------|-----------|----------|-----------|---------|------------|-------------------|-------------|----------|--------------|------------|--------------|--------|
| * | ANK, | | | | 70-DALLAS | 22,211 | 0 | 0 | o | 0 | 0 | 21,834 | 0 364 | 35 41 | 342 1,554 | 0 65 | 0 0 | |
| | 51 | U TEX HL | IH : | 561 61 | INTV | 22,178 | 6,054 | 175 | 314 | - 575 | 656 | 12,380 | 229 | 200 | 295 | 0 | 0 | |
| | 52 | WASHINGT | UN | CCT | COLC COL | 21.090 | 2,345 | 0 | 105 | 68 | 0 | 17,848 19,324 | 227 | 30 | 406 | 0 | 0 | |
| | 53 | VIRGINIA | 4 L U | MMUNH! | TH UNIV | 20,456 | 0 | 0 | 443 | 0 ' | 253 299 | 12,641 | 215 | 166 | 3,129 | 0 | 418 | |
| | 24 | FLORIDA | STA | TF UN | VERSITY | 20,303 | 85 | 1,392 | 1,088 | 870 | . 277 | 12,011 | | | | | _ | |
| | 22 | FLUKIUM | " | | | | | _ | 764 | 148 | 6 | 16,384 | 0 | 44 | 2,774 | 75 | 0 | |
| | 54 | SUNY AT | RUF | FALD. | | 20,187 | 0 | 0 | 756 | 140 | Ô | 19,633 | Ü | 0 | 202 | . 0 | 0 | |
| | 57 | UNIV OF | IL.L | MED | CTR CHGD | 19,835 | _0 | 0 | 0 | 331 | 346 | 15,335 | 869 | 1 35 | 1.220 | 175 | ·524 0 | |
| | 58 | UNIV OF | DKL | AHDMA | | 19,459 | 71 | 137 | 31 6 0 | | 5.0 | 19,212 | 0 | 0 | 158 | 0 | 331 | |
| | 59 | CITY COL | LE G | ES OF | CHICAGD | 19,370 | | ٥ | 203 | 298 | 407 | 5,553 | 333 | 234 | 1,571 | . U | . 551 | |
| | 60 | IDHA ST | UD | F 5C1 | & TECH | 19,248 | 10,318 | Ū | | | | | | | | 8,690 | 24,889 | |
| | | | | | | 2,331,559 | 260 821 | 16.065 | 161,627 | 113,242 | 28,222 | 1,393,477 | 20,178 | 57,656 | 200,072 | 0,070 | 24,007 | 100 |
| | TO | TAL IST | 60 | INST | ITUT 10NS | 2,331,339 | 240,021 | .0,003 | | | | | | 277 | 1.169 | 203 | . 167 | |
| | | | | | 11 VCD C 1 T V | 18,926 | 6,610 | 35 | 1,766 | 1,337 | 286 | 6,877 | 199 190 | 456 | 95 | 198 | 227 | |
| | 61 | HISSISS | 16 4 | CTAT | NIVERSITY | 18,283 | 10.075 | 0 | 196 | 976 | 325 | 5,545 6,176 | 156 | 133 | 162 | 0 | 491 | |
| | 6.2 | AUBURN I | 11111 | CPCIT | Y | 18,126 | 9,726 | 77 | 805 | 184 | 216 | 11,925 | 1,0 | 160 | 2,963 | 237 | 0. | 1.2 |
| | 03 | UNIV DF | CAL | TRVI | NF: | 17,624 | 75 | 0 · | 740 | 1,373 | 151 135 | 8,287 | 1,405 | _ 0 | 418 | 198 | .0 | |
| | 04 | HEST VI | מואם | ILA UN | IVERSITY | 17,357 | 5,174 | 0 | . 58 | 1,682 | 133 | 0,20 | • • • • • • | | | | | |
| | . 02 | , MC31 11 | | , | • | | _ | | 110 | 528 | 1 | 10,208 | 22 | 816 | 5,488 | 0 | . 0 | |
| | 66 | SUNY AT | STO | ONY BR | DOK | 17,173 | . 0 | 0 | 124 | 720 | ô | 16,785 | 0 | 15 | 209 | . 0 | 0 | 3.1 |
| 1 | 67 | ANA IONT 1 | U-F | PURDUE | U INDPLS | 17,133 | 0 | Ö | 274 | 159 | Ō | 13,917 | O | 286 | 2,469 | . 0 | 1,243 | |
| | 68 | UNIVERS | ITY | OF OR | EGON MAIN | 17,105 | 6,043 | 13 | 558 | 702 | 0 | 6,246 | 166 | 123 | 940 | 0 | 70 | |
| | 69 | KANS ST | υ. | - AG E | APP SCI | 16,034 | 5,650 | 10 | 181 | 456 | 36 | 6,757 | 456 | 120 | 2,077 | . • | | |
| | 70 | UNIV OF | NE | 8 R A SK A | LINCOLN | 15,803 | 3,030 | • | _ | | | | | 40 043 | 282,682 | 9.526 | 27,087 | |
| | | | | A 1NS1 | ITUT LONS | 2,505,123 | 284,174 | 16,190 | 166,439 | 120,639 | 29,372 | 1,486,200 | 22,112 | 00,042 | 202 7002 | " Virginia | | |
| | 11 | TAL 1ST | • | 0 11131 | | | | | | 170 | 15 | 11.312 | 233 | 578 | 1,608 | . 0 | 336 | . 1. |
| | 7 | 1 ARIZONA | ST. | ATE U | IVERSITY | 14,831 | 128 | 185 | 266 | 1,0 | | | 0 | 0 | 127 | 0 | . 0 | |
| | · . | 2 COL OF | MED | 130 3 | IT OF N J | 14,251 | ō | 0 | | 0 | . 0 | | O | . 0 | 0 | 0 | 0 | |
| | 7 | 3 MIAHI-C | ADE | CHTY | COLLEGE | 14,113 | ō | 0 | 1:18 | 189 | ŏ | | 270 | 0 | 222 | 0 | 10 | • : |
| | 7 | 4 UNIV DE | HI. | SSISS | IPPI | 13,596 | 0 | 0. | 16 | ó | 13 | 11,583 | ¢ | 119 | . 0 | 0 | 627 | |
| | 7 | 5 SOUTHER | N U | 3A 3 | M COLLEGE | 13,494 | 1,116 | Ū | | | | | | ~`332 | 118 | 0 | 0 | 100 |
| | | | _ | | | 13,488 | 0 | . 0 | 2:37 | . 69 | 16 | | 0 | . 426 | 3,794 | . 0 | 517 | |
| | 7 | 6 U TEX 1 | 1ED | BRNCH | GALVESTON | 13,267 | | 0 | 517 | 528 | 568 | | 66 67 | 830 | 1.667 | 600 | 0 | |
| | 7 | 7 UNIV OF | . CA | L SAN | TA BARBARA | 13,179 | | 42 | 635 | 529 | 233 | | 606 | 1,049 | 908 | 53 | 153 | |
| | 7 | B U DF HI |)US 1 | DN CE | NTRAL CAM | 12.995 | 2.798 | 0 | 2,992 | 186 | 66 | | 128 | 55 | 3.073 | . 0 | 0 | · |
| | . 7 | 9 UTAH S | IAIL | DOE 1 | SIAND | 12,957 | 1,650 | 1,340 | 1,045 | 732 | 1,126 | 3,000 | 120 | | | | | |
| | | | | | | • . | | | 172,395 | 122.042 | 31.409 | 1,586,019 | 24,142 | 63,431 | 294,199 | 10,179 | 28,730 | |
| | . т | DTAL 15T | e | O ÎNS | TITUT IONS" | 2,641,294 | 289,991 | 17,757 | 172,393 | 123,072 | | | | | | | 0 | |
| | | | | | | | | 0 | 106 | Ó | 104 | 12,245 | | 100 | 253 245 | 0 | _ | |
| | 8 | 1 U DREG | א אם | ILTH 5 | CI CTR | 12,808 | | ŏ | ····· | 84 | | | | 29 60 | | 0 | Ö | |
| | 8 | ED'IL TEX I | HI. TH | 1 SC C | IK HOOZION | 12,804 | | 110 | 264 | 57 | | 9,923 | 94 | . 60 | 1,850 | . 0 | ŏ | |
| | | 3 UNIV D | F _ SC | DITH C | AROLINA | 12,146 | | 0 | 36 | 54 | | | | ŏ | | . 0 | 0 | 1. 44 |
| | | 4 U TENN | | (. FUK | HLTH SCI CAROLINA | 11,687 | _ | 0 | 0 | 0 | 501 | 11,131 | | _ | | | | |
| | 6 | S MED UN | 1 A C | JF 30 | CANCE | | | | | 119 | 22 | 2 6,873 | 379 | 0 | 1,087 | 0 | | |
| | | 6 UNIV D | E M/ | AINE C | ROND | 11,621 | 3,036 | | 105 | 119 | | | | 1,885 | 775 | . 0 | | |
| | | T HNIV D | FN | H DUR | MAM | 11,585 | 5 2,129 | 100 | 187 | - 50 | (| | . 0 | 31 | | 0 | | |
| | | RR JACKSD | N 51 | TATE L | INIVERSITY | 11,370 | | 967 | 724 | 521 | | | 381 | 262 | | 0 | | |
| | | R9 UNIVER | 51 TY | Y OF C | JELAWARE | 10,79 | | | ·-ò | 0 | | 0 10,722 | 2 0 | 0 | 0 | | , | |
| | • | O GERMAN | NA (| CMTY (| DLLEGE | 10,72 | 2 0 | Ÿ | • | | | | | | 301,194 | 10.179 | 28.730 | 1 |
| | | | | | | 2,759,43 | 997.095 | 18.934 | 173,817 | 123,936 | 32,37 | 8 1,682,18 | 5 25,192 | 65 + 170 | 301+17,7 | 10,11,2 | 20, | |
| | | TOTAL 15T | ' | 90 IN: | SHOI TUT I TS | 2,107,13 | , 2,1,0,, | | | | | | | | 1,554 | 4 5 | 5 0 | |
| | | | | | TOACD CIP | 10.48 | 2 57 | | | | | 8 7,55 0 10,06 | | | | - (| | |
| | | 91 UNIV | JF 1 | L | CTR-S ANT | 10,47 | | | | | , | | · | | | | | |
| | | 92 U TEX 93 SAN DI | EGO | STATI | E UNIV | 10,29 | 3 (| | | | 3 | 0 7,36 | • | 3 (| 177 | | | |
| | | 94 NORTH | DAK | DTA 5 | TATE UNIV | 10,15 | 9 3,907 | | | | - | | | 83 | 3 296 | 176 |) (| , |
| | | 95 CLEMS |)N U | NIVER | SITY | 10,15 | 6 7,487 | , 0 | , 304 | . 14. | | - | | | | | n ' ' (| |
| | | | | | | | 8 138 | 3 0 | 87 | , , | 0 7 | 3 8,16 | | 2 28 | | | 0 (0 15(| |
| | | 96 SOUTHE | RN. | ILL U | -CAREDNDAL | E 9,75 | T | | | 1 | Ō | 0 8,18 | 9 | | | | | Ď |
| | | 97 FLDRIG |)A A | ιεм | ONTAFK21 1'1 | 9,60 9,47 | | | | 2.2 | | 6 3,60 | 2 1,36 | 50 | | | : | |
| | | 98 UNIVER | ₹ 51 T | Y-0F- | WYDH IN G | 9,18 | | | | | | 8,56 | 5 3 | • | 958 | | | 0 |
| | | 99 TEXAS | | | | 0.16 | . 41 | n (|) 110 | 9 | | 0 7,84 | - | - | | | | 11 113 |
| | 1 | VINU 00 | DF M | (12-H] | LHAUNEE | , ,,10 | | | | | | | 5 27.44 | 5 66 97 | 1 307.242 | 10,56 | 2 29,38 | 3 |
| | | TOTAL 15 | , , | 00 14 | STITUTIONS | 2,858,17 | 2 311.77 | 5. 19,17 | 7 176,935 | 124,89 | 1 33,31 | 10 1,750,45 | , 21,10 | | | | | |
| | | INIME 12 | | . 50 11 | | | | | | | | | | | | , i | | |
| | | | | | | | | | | | | | | | | | | |

INCLUDES AID, HUD, LABOR, AND NRC.

SDURCE: National Science Foundation

Data for Pennsylvania State University include \$12,205,000 obligated to the Applied Research Laboratory. In previous years, obligations to ARL were reported separately under "university-administered federally funded research and development centers."

TABLE B-31. FEDERAL DBL IGATIONS TO THE 190 PRIVATE UNIVERSITIES AND COLLEGES RECEIVING THE LARGEST AMOUNTS, 8Y AGENCY: FY 1978

(DOLLARS IN THOUSANDS)

| | 10571707100 (040450 | | | | | | | | | | • | | | |
|-----|--|---------------------------|-------------|------------|----------------|--------------------|------------|-------------------|-----------|--------------|----------------|------------|------------|--|
| | INSTITUTION (RANKED By Total Federal | | | | | * | | * | | | | | | |
| RAN | | TOTAL | USDA | COH | 000 | DDE | EPA | HEW | 1NT | NASA | NSF | OOT | OTHER# | |
| | UNITED STATES TOTAL | 2,914,066 | 17,717 | 5,179 | 259,204 | 127,672 | 13,541 | 2,148,547 | 6+165 | 49,812 | 262,343 | 5,083 | 18,803 | |
| | 1 JOHNS HOPKINS UNIVERSITY 1 | | 346 | 89 | 137,344 | 1,386 | | 65.481 | 51 | 1,275 | 5,020 | 366 | 410 | |
| | 2 MASS INST OF TECHNOLOGY 3 HOWARD UNIVERSITY | 130,586 | 385 17 | 1.926 | 15,273 | 49.044 178 | 608 188 | 26,280 114,130 | 1,124 | 9.154 626 | 25,100 | 820 158 | 872 | |
| | 4 STANFORD UNIVERSITY | 94,009 | 112 | 433 | 9,735 | 4,504 | 539 | 49,161 | 264 | 5,955 | 863 22,949 | 154 | 203 | |
| | 5 HARVARD UNIVERSITY | 89,949 | 524 | 323 | 3,046 | 2.059 | 430 | 66,994 | 49 | 4 . 2 4 6 | 10.763 | 0 | 1.515 | |
| | 6 COLUMBIA UNIV HAIN DIV | 84,941 | 0 | 153 | 4 .875 | 2 • 4 3 9 | 118 | 54,587 | 458 | 2,572 | 16,252 | 0 | 3,487 | |
| | 7 CORNELL UNIVERSITY 8 ENIV OF PENNSYLVANIA | 79,729 | 12.623 | ō | 2,337 | 2,950 | | 33,671 | 548 | 1,289 | 24,092 | 50 | 1,449 | |
| | 8 UNIV DF PENNSYLVANIA 9 YALE UNIVERSITY | 78,350 67,892 | 15 74 | 5 60 | 3,785 2,052 | 2.531 4.701 | 31 72 | 61,373 53,635 | 17 0 | 248 236 | 9,186 6,638 | 252 0 | 907 424 | |
| - 1 | O UNIVERSITY OF CHICAGO | 61,262 | 100 | ő | 520 | 4,240 | ō | 42,706 | ŏ | 4 , 780 | 8,823 | ŏ | 93 | |
| T | OTAL 1ST 10 INSTITUTIONS | 1,015,779 | 14.196 | 2,989 | 179,002 | 74 • 0 32 | 3,804 | 568,018 | 2,511 | 30 • 381 | 129,686 | 1.800 | 9.360 | |
| | 1 UNIV DE SOUTHERN CAL | 61.039 | 48 | 215 | 11,597 | 1:603 | 227 | 40,249 | 612 | 615 | 5,356 | 226 | 291 | |
| | 2 NEW YDRK UNIVERSITY 3 WASHINGTON UNIVERSITY | 54,905 52,162 | 25 0 | 0 65 | 1,314 | 3,379 | 364 | 44,058 | 252 | 516 | 4,444 | 0 | 553 | |
| ī | | 46,870 | . 94 | ő | 1.288 | 526 1,209 | 511 311 | 40.099 | . 0 | 1,209 131 | 3,541 3,708 | 5 | 595 25 | |
| 1 | 5 UNIVERSITY OF ROCHESTER | 46,653 | . 0 | 0 | 3,186 | 10,718 | 0 | 27,998 | . 0 | 65 | 4,686 | . 0 | 0 | |
| | 6 UNIVERSITY OF HIAMI | 41,713 | 0 | 60 | 2,497 | 1,151 | 828 | 29,947 | 67 | 308 | 6+605 | 250 | 0 | |
| 1 | | 38,401 37,894 | 120 | 0 | 1,646 0 | 1,200 | 11 0 | 27,083 37,770 | 250 0 | 154 | 6,489 | 106 | 1.342 | |
| | 9 BOSTON UNIVERSITY | 36,948 | 127 | ŏ | 941 | 295 | ŏ | 34.045 | ŏ | 149 | 1,118 | 0 | 273 | |
| 2 | O YESHIVA UNIVERSITY | 36,340 | 0 | 0 | 251 | t | ō | 35,469 | ñ | 25 | 595 | ŏ | : 0 | |
| , T | DTAL 1ST 20 INSTITUTIONS | 1,468,704 | 14,610 | 3.329 | 202,194 | 94,113 | 6.056 | 929,974 | 3,697 | 33,553 | 166,352 | 2.387 | 12,439 | |
| | CASE WESTERN RESERVE UNIV | | . 12 | 53 | 1,139 | 1.056 | 184 | 26,379 | 0 | 953 | 4 .663 | 175 | 45 | |
| | 2 GALLAUDET COLLEGE 3 CALIFORNIA INST OF TECH | 33,103 30,907 | ۰۰. 0 20 | 0 80 | 2.743 | 0 4 • 1 30 | 141 | 33,018 7,956 | 0 1835 | 0 3 •820 | 85 11•182 | . 0 | 0 | |
| | 4 BAYLOR COL OF MEDICINE | 30,042 | ő | ő | 197 | 47130 | 162 | 29.255 | 0 | 266 | 11,102 | . 0 | 6 | |
| 2 | 5 VANDERBILT UNIVERSITY | 25,050 | 150 | 0 | 180 | 193 | 83 | 23,102 | . 0 | 138 | 1 : 12:2 | Ö | 40 | |
| 2 | | 22,317 | 0 | 0 | 8 | 0 | 0 | 21.339 | 0 | . 0 | 1.0 | 0 | 756 | |
| | 7 HODDS HOLE DENGRPHIC INST | 21,465 | 0 | 114 | 6,793 | 1,263 | 34 | _0 | 110 | Ō | 13,.51 | . 0 | 0 | |
| 2 | 8 PRINCETON UNIVERSITY 9 PUERTO RICO JR COL | 20,721 | 0 | 248 ~ 0 | 2,438 | 3,120 | 160 0 | 6,472 19,942 | 89 0 | 1,533 | 5,717 | 511 | 233 0 | |
| 3 | O GEORGETOWN UNIVERSITY | 19,896 | 186 | ŏ | . 927 | 3,092 | ŏ | 15,020 | ŏ | 15 | 656 | . 9 | ŏ | |
| Т | OTAL 1ST 30 INSTITUTIONS | 1.726.806 | 14.978 | 3.824 | 216.619 | 106,967 | 6,820 | 1.112.457 | 4,731 | 40,278 | 203,540 | 3.073 | 13,519 | |
| | 1 ROCKEFELLER UNIVERSITY | 18,868 | 72 | 0 | 91 | 525 | 60 | 15,674 | 0 | . 0 | 2 , 232 | Ō | 214 | |
| 3 | - 010001 | 18,842 | 31 | 50 | 2,388 | 4 10 | 219 | 13,212 | 0 | 1,533 | 900 | . 0 | 99 | |
| 3 | | 18,540 17,699 | 0 | 0 | 79 4 • 30 2 | 157 3.256 | 43 40 | 17,441 5,325 | 0 148 | 194 67 | 626 4,417 | 0 144 | 0 | |
| , 3 | | 16,581 | 307 | ŏ | 1.521 | 4 05 | 56 | 12,451 | . "0 | . 33 | 1,808 | . 0 | ă | |
| 3 | 6 UNIVERSITY OF DAYTON | 15,661 | 0 | 0 | 11.515 | . 0 | 67 | 3,325 | . 0 | 2 78 | 360 | 65 | 51 | |
| 3 | | 15,115 | 50 | . 0 | 1.627 | 1 +004 | 0 | - 6 • 614 | 93 | 3 28 | 5,399 | . 0 | ũ | |
| 3 | | 13,923 | . 0 | 20 0 | 166 | 699 | 228 | 13,830 | 0 | 131 | 579 33 | 0 | 0 | |
| . 4 | | 13,863 13,628 | 44 | ŏ | 93 | ő | 224 | 12,570 | ŏ | 63 | 509 | ŏ | 125 | |
| T | DTAL 1ST 40 1NST1TLTIONS | 1.889.526 | 15,482 | 3,894 | 238,401 | 113,423 | 7,757 | 1,224,999 | 4 • 9 7 2 | 42,905 | 220.403 | 3.282 | 14,008 | |
| | NORTHEASTERN UNIVERSITY | 13.137 | . 0 | 0 | 1,215 | 132 | 174 | 10,125 | 0 | 0 | 1,306 | 0 | 185 | |
| 4 | | 12.123 | 0 | 0 | 0 | . 0 | 0 | 11,948 | 0 | ′ 0 | 175 | 0 | 0 | |
| . 4 | | 11,920 11,845 | 0 | 0 | 118 377 | 60 0 | 131 0 | 11,611 10,514 | 201 | 0 20 | 495 | 0 | 0 238 | |
| 4 | | 11,669 | 40 | ŏ | 77 | 406 | ŏ | 8,586 | . 0 | 39 | 1,927 | . 0 | 594 | |
| | 6 UNIVERSITY OF DENVER | 10 • 476 | 40 | 0 | 1,719 | 344 | 2,616 | 3.556 | 338 | 756 | 1,046 | 5 | 56 | |
| | 7_BOSTON_COLLEGE 8 TUSKEGEE INSTITUTE | 10,260 <u>_</u> 10,183 | 1,463 | 00. | 1.+.721 40 | -0 -0- | | 7,260- 8,489 | 240- 0 | 96- 75 | 339- 111 | 0 | 465 0 | |
| | 9 DARTHOUTH COLLEGE | 9,944 | 34 | ŏ | 85 | 2 73 | ó | 8,272 | ŏ | 205 | 923 | 46 | 106 | |
| | RENSSELAER POLYTECH INST | 9,510 | 100 | 45 | 1.437 | 866 | 231 | 3,193 | ŏ | 1,193 | 2,028 | 60 | 357 | |
| . T | DTAL 1ST 50 INSTITUTIONS | 2.000.593 | 17,159 | 3,939 | 245,190 | 115,504 | 11.053 | 1,308,553 | 5 , 751 | 45,289 | 228,753 | 3,393 | 16,009 | |



TABLE B-31. FEDERAL OBLIGATIONS TO THE 10C PRIVATE UNIVERSITIES AND COLLEGES PECETVING THE LARGEST AMOUNTS. BY AGENCY: FY 1978

(OOLLARS IN THOUSANDS)

| | | INSTITUTION (RANKED | • | | | | | | | | | | DOT | OTHERP | |
|---|------|--|---|--------|-------|---------|-----------|----------|----------------|---------|----------|------------|-------|-----------------|------|
| | | BY TOTAL FEDERAL | TOTAL | USDA . | СОМ | DOD | DOE | EPA | HE H | INT | NA SA | NSF | יטט | O THEK | |
| R | ANK | OBLIGATIONS) - | IUIAL | 030 | | _ | | | | | 0 | 0 | 0 | 0 | |
| | | NEH YORK MEDICAL COLLEGE | 8,489 | 0 | . 0 | 30 | 4 42 | o o | 8.017 | 0 | 0 | 35 | ő | ŏ | |
| | 51 | MEDICAL COLLEGE OF HISC | 8,385 | 0 | 0 | 36 | .0 | 0 | 8.314 | Ö | ő | 183 | ŏ | ō | |
| | 22 | WAKE FOREST UNIVERSITY | 8.064 | 0 | ~0 | 0 | 56 | 0 | 7,825 | ·ŏ | 25 | žó | ō | Ō | |
| | 23 | HAHNEMANN MED COL & HOSP | 7,978 | 0 | 0 | 129 | 0 | 0 | 7,824 | ő | .0 | ő | ō | 0 | |
| | 24 | ALBANY MEDICAL COLLEGE | 7,657 | 0 | 0 | 9 | 0 | 2 | 7,655 | U | • | - | | | |
| | ככ | ALBAN; HEDICAE COLLEGE | ., | | _ | | _ | | 7 122 | 0 | 0 | 129 | 0 | 0 | |
| | - 4 | LONG ISLAND UNIVERSITY | 7,252 | 0 | ٠ ٥ | 0 | 0 | 0 | 7,123 | ŏ | 226 | 1,651 | 84 | 24 | |
| | 57 | UNIVERSITY OF NOTRE DAME | 7,236 | 70 | 84 | 17B | 2.047 | 25 | 2.B47 6.799 | ŏ | 0 | 33 | . 0 | 0 | |
| | 50 | LOYOLA UNIV - CHICAGO | 6,961 | 0 | 11 | 72 | 46 0 | . 6 | 6,695 | ŏ | ŏ | 0 | 0 | 0 | |
| | 50 | HORLD UNIVERSITY | 6,695 | 0 | 0 | 0 | 0 | 50 | 3,621 | ŏ | 25 | 2,950 | 0 | 0 | |
| | 60 | ATLANTA UNIVERSITY | 6,646 | 0 | ၁ | 0 | U | 50 | 3,021 | | | | | | |
| | 00 | | | | | | | 11 130 | 1,375,273 | 5,751 | 45,565 | 233,734 | 3,477 | 16.033 | |
| | τn | TAL 1ST 60 INSTITUTIONS | 2,075,956 | 17.229 | 4,034 | 245,635 | 110,095 | 11,150 | | | | | | _ | |
| | | | | | 0 | 559 | 1,092 | 212 | 1,671 | 10 | 628 | 2.273 | 160 | 0 | |
| | 61 | RICE UNIVERSITY | 6.606 | 1 0 | ő | 776 | 1,0,2 | | 6.099 | 0 | 0 | 277 | ō | 0 | |
| | 62 | UNIV OF THE SACRED HEART | 6,376 | 0 | ž | ŏ | ŏ | ō | 5,863 | 0 | 0 | . 0 | 5 | 0 | |
| | 63 | RUSH UNIVERSITY | 5,863 | 35 | ó | ŏ | ō | C | 5,766 | 0 | 39 | 11 | . 0 | 0 | |
| | 64 | XAVIER UNIVERSITY OF LA | 5.851 | 0 | · ŏ | 2,230 | 4 38 | 5 | 1,410 | 0 | 304 | 1,016 | 404 | 0 | |
| | 65 | POLYTECHNIC INST OF N Y | 5,807 | ۰, | | 2,250 | | • | | | | | 0 | 0. | |
| | | THE COLLECT | 5,755 | С | ٠ ٥ | 0 | 0 | 0 | 5,575 | 0 | 0 | 180 779 | Ö | 45 | |
| | 66 | CENTRAL YHCA CHTY COLLEGE | 5,608 | ŏ | 400 | 977 | 511 | 115 | 2,658 | 0 | 123 | 552 | ŏ | 81 | |
| | ∴67 | ILLINDIS INST OF TECH | 5,531 | ŏ | Ö | 518 | 1,661 | 145 | 2,207 | 32 | 335 | 37 | 0 | Ĭ. | |
| | 6 B | DREXEL UNIVERSITY | 5,472 | ō | 0 | 0 | 0 | 0 | 5,435 | 0 | 0 | 393 | 0. | 811 | |
| | 69 | FORDHAM UNIVERSITY | 5,444 | ī | 0 | 989 | 102 | 142 | 2,994 | 12 | U | 373 | | | |
| | 70 | AMERICAN UNIVERSITY | | _ | | | | | | - 005 | 44 004 | 239.252 | 4.041 | 16,970 | |
| | | TAL 1ST 70. INSTITUTIONS | 2,134,269 | 17,266 | 4,434 | 250,908 | 121,899 | 11,749 | 1,414,951 | 5,805 | 40,777 | 2371232 | 1,01. | | |
| | 10 | TAL 1ST 70. INSTITUTIONS | 2,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | _ | 214 | 4.577 | 0 | 239 | 277 | 0 | 0 | |
| | 71 | HAMPTON INSTITUTE | 5,409 | 0 | 0 | 0 | 0 | 316 | 5,317 | ŏ | 20 | Ö | 55 | 0 | |
| | 7.1 | BISHOP COLLEGE | 5,372 | . 0 | 0 | o | 0 | | 5.073 | ŏ | ō | 7 | 0 | . 0 | |
| | 72 | LOMA LINDA UNIVERSITY | 5,315 | e | 0 | 0 | 0 | _ | 4,782 | ŏ | 41 | 65 | 64 | 200 | |
| | 74 | | 5,152 | 0 | 0 | 0 | 0 | | 992 | ő | 486 | 1,570 | 682 | 178 | |
| | 75 | LEHIGH UNIVERSITY | 5,107 | 0 | . 0 | · 759 | 4 40 | | ,,, | • | | | | 1 | |
| | | | | _ | • | . 1 0 | 0 | . 0 | 5,058 | 0 | 0 | 0 | 0 | . 0 | |
| | . 76 | S BAYAMON CENTRAL UNIV | 5,058 | | 0 | 0 | ŏ | | 5,005 | 0 | . 0 | 0 | : 0 | . 0 | ٠. |
| | | 7 BENEDICT COLLEGE | 5,005 | 0 | 0 | 89 | 90 | | 4,189 | 0 | 40 | 317 | . 0 | . 0 | |
| | 78 | B MARQUETTE UNIVERSITY | 4,747 | 0 | . 0 | 0 | Ź | _ | 4,402 | 0 | 0 | 268 | . 0 | . 0 | |
| | 79 | 9 ANTIOCH UNIVERSITY | 4,730 | 0 | 0 | ŏ | č | | 4,554 | 0 | 0 | 25 | . 0 | 0 | |
| | 80 | UNIVERSITY OF DETROIT | 4,579 | U | Ū | - | | | | | | 701 | 4.842 | 17,348 | |
| | _ | A.T. OO INSTITUTIONS | 2,184,743 | 17,266 | 4,434 | 251,756 | 122,429 | 12,322 | 1,458,960 | 5,805 | 47.800 | 241,781 | 7,072 | .,,,,,, | |
| | T | OTAL 15T 80 INSTITUTIONS | 211041143 | 11,200 | ., | | | | | _ | | 114 | 0 | . 0 | |
| | | | 4,543 | 0 | 0 | 0 | | | 4,429 | . 0 | . ပ ဝ | 185 | Ö | ō. | |
| | | THE MED COL OF PENNA | 4,503 | 0 | 0 | 0 | (| | 4,318 | 0 | . 0 | | ŏ | 0 | - 4 |
| | 8 | | | 0 | 0 | . 0 | (| | 4,180 | ő | . ŏ | - | 57 | 140 | |
| | . 8 | | 4,177 | 30 | 0 | . 0 | | | 3,950 2,390 | ő | 128 | | 0 | 86 | ×1.1 |
| | 0 | 5 CATHOLIC UNIV OF AMERICA | 4,032 | | 0 | 954 | . 48 | в 0 | 2,370 | · | | | | 4 | |
| | ٥ | 5 CATHOLIC CHILL | | _ | _ | | | n o | 3,873 | . 0 | 0 | 0 | . 0 | | |
| | A | 6 FAIRLEIGH DICKINSON UNIV | 3,933 | 0 | 0 | 50 | 10 | 0 0 | | 36 | 351 | 45 | 0 | | |
| | Ä | 7 UNIV OF SAN FRANCISCO | 3,916 | , Q | 0 | 0 | | 0 0 | | | 0 | 10 | · 0 | | |
| | . A | 8 MORRIS BROWN COLLEGE | 3,836 | 0 | 0 | 0 | | 0 29 | | | 0 | | 0 | | - " |
| | _ | O ST AUGUSTINES COL | 3,821 | .0 | 0 | ŏ | | 0 24 | | | 0 | 39 | . 0 | 0 | - |
| | 9 | O CREIGHTON UNIVERSITY | 3,793 | U | U | • | | _ | • | | | | | 17,574 | 1.7 |
| | | | | | 4,434 | 252,760 | 122.48 | 7 12.375 | 1,496,932 | 5,841 | 48,279 | 242,600 | 4.899 | 111514 | |
| | T | OTAL 15T 90 INSTITUTIONS | 2,225,477 | 17,296 | 4,454 | 272,100 | | | | | | | 0 | | |
| | | | 2 767 | D | 0 | . 0 | | 0 0 | | | 0 | | | | |
| | 9 | 1 COLUMBIA U TEACHERS COL | 3,757 3,677 | ŏ | ŏ | ŏ | | 0 0 | | | Q | | | | |
| | 9 | 2 WILBERFORCE UNIVERSITY | | ŏ | ō | | | 0 0 | | | 18 | , . | | | |
| | | ON UNIVERSITY OF THE PACIFI | 3,537 | · 0 | 0 | | | 0 0 | | | | | | | |
| | | A ADELPHI UNIVERSITY S BETHUNE COOKHAN COLLEGE | 3,512 | c | | 0 | 1 | 0 0 | 3,213 | , , | • | | | | |
| | 9 | 95 BETHUNE COOKMAN COLLEGE | | | | | | | 3,342 | 2 0 | (| 115 | | . 0 | |
| | | 6 GEORGE PEASODY COL TCHR | 3,457 | 0 | | | | 0 0 | | | | | | | |
| | 2 | 7 FISK UNIVERSITY | 3,419 | 0 | | | | 0 0 | | | | | , (| | |
| | č | OD TEYAS CHRISTIAN UNIV | 3,401 | 0 | | | | 7 | | | | 631 | | 299 | |
| - | | 9-STEVENS-INSTITUTE-OF-TE | H3,·378 | | | | |)./ | | | (| OC | |) 0 | **** |
| | | O MERCY COLLEGE | 3,217 | 0 | 0 | | , | • | | | | | | | |
| | _ | | A 40 | | 4 004 | 252.050 | 122.62 | 4 12.37 | 5 1,528,35 | 1 5,841 | 48,37 | 6 244,164 | 4,89 | 9 17,873 | |
| | 1 | TOTAL IST 100 INSTITUTION | 5 2,260,464 | 17,296 | 9,806 | 253,859 | , 122,102 | | | | | | | | |
| | | • • | | | | | | | | | | | | | |

^{*} INCLUDES AID, HUD, LABOR, AND NRC.

SOURCE: National Science Foundation

^{1/} Data for Johns Hopkins University include \$136,140,000 obligated to the Applied Physics Laboratory. In previous years, obligations to APL were reported separately under "university-administered federally funded research and development centers."

TABLE B-32. FEDERAL OBLIGATIONS TO UNIVERSITIES AND COLLEGES, BY STATE, INSTITUTION, AND TYPE OF ACTIVITY: FY 1978 (ODLLARS IN THOUSANDS)

| and the first of the second se | | | | | CADEMIC SCI | ENCE | | | | |
|--|--|--|---|---|---|---|---|---|--|-------------------------|
| STATE & INSTITUTION | TOTAL, ALL ACTIVITIES | TOTAL ACADEMIC SCIENCE | RESEARCH AND DEVELOPMENT | R&O Plant | FACIL FOR INSTR IN SCI & ENG | FELLOWSHIPS TRAINEESHIPS TRNG GRANTS | GENERAL SUPPORT FOR SC1 | OTHER SCIENCE | NON- SCIENCE | |
| UNITED STATES, TOTAL | 7,479,177 | 3,957,638 | 3,362,174 | 34,328 | 26,664 | 205,865 | 74,102 | 254,505 | 3,521,539 | |
| ALABAMA, TOTAL | 125,687 | 49,830 | 34,570 | 2,244 | 274 | 3,189 | 1,809 | 7,744 | 75,857 | |
| ALA LUTHERAN ACAD AND C ALABAMA A & M UNIVERSITY ALABAMA ARRISTIAN COLLEGE ALABAMA STATE UNIVERSITY ALEXANDER CITY ST JR COL ATHENS STATE COLLEGE AUBURN UNIVERSITY BIRMINGHAM SOUTHERN COL BREMER STATE JR COLLEGE CALHOUN ST CHTY COLLEGE CHATTAH-DOCHEE VALLEY C C OANIEL PAYNE COLLEGE ENTERPRISE JR COLLEGE FAULKNER STATE JUNIOR COL G C HALLAGE ST CC OOTHAN G C HALLAGE ST CC OOTHAN G C HALLAGE ST CC OUTHAN G C HALLAGE ST CC OUTHAN G C HALLAGE ST CC DUTHAN G C HALLAGE ST CC DUTHAN G C HALLAGE ST CC OUTHAN G C HALLAGE ST CC OUTHAN G C HALLAGE ST CC OUTHAN G C HALLAGE ST CC OUTHAN G C HALLAGE ST CC OUTHAN G C HALLAGE ST CC OUTHAN G C HALLAGE ST CC OUTHAN G C HALLAGE ST CC OUTHAN G C HALLAGE ST CC OUTHAN G C HALLAGE ST CC COLLEGE LIVINGSTON STATE JR COL JUSSIN COLLEGE LAMSON STATE JR COL JUSSIN STATE JR COL JUSSIN STATE CHTY COLLEGE LIVINGSTON UNIVERSITY LOMAX-HANNON JR COLLEGE MORTHEAST, ALA ST JR COL NORTHHEST ALA ST JR COL NORTHHEST ALA ST JR COL NORTHHEST ALA ST JR COL NORTHHEST ALA ST JR COL SOLLEGE PATRICK HENRY ST JR COL SOLTHEASTEN BIBLE COL SOUTHERN UNION ST JR COL SOUTHERN UNION ST JR COL SPRING HILL COLLEGE STHRN BENEDICTINE COL STILLMAN COLLEGE TALLADEGA COLLEGE TALLADEGA COLLEGE TALLADEGA COLLEGE TALLADEGA COLLEGE TALLADEGA COLLEGE TALLADEGA COLLEGE TALLADEGA COLLEGE TALLADEGA COLLEGE TALLADEGA COLLEGE THE UNIVERSITY USKEGEE INSTITUTE UNIV ALBBAMA BIRNINGHAM UNIV ALBBAMA HUNTSVILLE UNIV OF SOUTH ALABAMA UNIVERSITY OF HONTEVALLO WALKER COLLEGE | 287 4,828 713 4,402 403 537 18,126 638 643 1,486 694 1,45 453 473 433 396 347 1,564 588 1,472 163 958 933 2,685 1,047 209 637 27,737 209 21,519 7,1673 10,183 37,552 1,326 4,77 7,50 170 | 0 2,421 0 187 187 12 2,238 26,270 1,186 112 0 | 0 1,721 0 163 0 88 5,957 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 000000000000000000000000000000000000000 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 115 0 7 7 0 0 1 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 585 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 287 2,407 713 4,215 409 5,521 596 643 1,474 145 453 396 7,588 1,472 163 944 933 2,685 1,047 209 5,99 633 2,438 2,734 4,68 2,734 4,68 2,734 812 1,65 7,2 1,95 800 2,734 812 1,65 7,2 1,95 800 2,734 812 1,65 7,2 1,95 800 2,734 812 1,65 7,2 1,95 800 2,734 812 1,65 7,2 1,95 800 2,734 812 1,65 7,2 1,95 800 2,734 812 1,65 7,2 1,95 800 2,734 812 1,65 7,2 1,95 800 2,734 812 1,65 7,24 812 1,65 7,24 812 1,65 7,24 812 1,65 7,24 812 1,65 7,24 812 1,65 7,24 812 1,65 7,24 812 1,65 800 2,74 812 1,65 800 2,74 812 1,65 800 2,74 812 1,65 800 2,74 812 1,74 81 1,74 81 81 81 81 81 81 81 81 81 81 81 81 81 | |
| ALASKA, TOTAL | 28,275 | 24,591 | 22,716 | 411 | 11 | 390 | 191 | 872 | 3,684 | |
| ALASKA PACIFIC UNIV SHELDON JACKSON COLLEGE UNIV OF ALASKA-ANCHORAGE UNIV OF ALASKA-FAIRBANKS UNIV OF ALASKA-FIHEASTRN UNIV OF ALASKA-STYPOFF | 102 430 4,132 23,424 144 | 2,600 21,991 0 | 2,583 20,133 0 | 0 0 0 411 0 | 0 0 0 11 0 | 0 0 0 390 0 | 0 0 0 191 0 | 0 0 17 855 0 | 102 430 1,532 1,433 144 | |
| AKIZONA, TOTAL | 71,867 | 35.366 | 30,122 | 21 | 753 | 1,388 | 978 | 2,104 | | : |
| ARER GR SCH INTL MANAGHT ARIZONA COLLEGE OF TECH ARIZONA STAYE WIVERSITY ARIZONA HESTERN COLLEGE CEMIRAL ARIZONA COLLEGE CEMIRAL ARIZONA COLLEGE COLNISE COLLEGE GLENOALE"COMMUNITY COLL GRAND CANYON COLLEGE HARICOPA TECH CHTY COLL HESA COMMUNITY COLLEGE NOAVAJO COMMUNITY COLLEGE NOAVAJO COMMUNITY COLLEGE NORTHERN ARIZONA UNIV NORTHLAND PIONEER COLLEGE PHEM COMMUNITY COLLEGE PHEM COMMUNITY COLLEGE UNIV E ST COL OF ARIZ S UNIVERSITY OF ARIZONA YAVAPAI COLLEGE | 23 14,831 1,191 1,191 827 497 638 629 1,263 681 488 1,475 81 1,962 3,694 18 1,585 2,625 2,753 19 39,534 527 | 0 0 0 4,344 0 2 2 0 0 0 0 0 0 0 164 263 18 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 | 0 88 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 000000000000000000000000000000000000000 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 79 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 23 4 10,487 1,191 825 497 436 629 1,263 681 488 1,475 81 798 2,625 275 0 9,180 527 | |
| ARKANSAS, TOTAL | 50,061 | 17,631 | 11,774 | 0 | 43 | 465 | 167 | 5,182 | 32,430 | * . |
| ARKANSAS BAPTIST COLLEGE ARKANSAS COLLEGE | 357 696 | 0 | 0 | 0 | 0 | 0 | · 0 | 0 | 357 696 | - 150 - 150 - 150 |

| | | | (DOLLARS IN | HUUSANU | 31 | | | | |
|--|--|---|--|----------------|---|--|---|---------------------------------------|--|
| STATE & INSTITUTION | TOTAL ALL | TOTAL ACADEMIC SCIENCE | RESEARCH ANO DEVELOPHENT | R & D Plant | CADEHIC SCI FACIL FOR INSTR IN SCI & ENG | FFI LOWSHIPS TRAINEESHIPS TRNG GRANTS | GENERAL SUPPORT FOR SCI | OTHER SCIENCE | NON- SCIENCE |
| ARKANSAS, CONT'D | 7. The state of th | | | * | | | eri yaya e | | |
| ARKANSAS STATE UNIVERSITY ARKANSAS TECH UNIVERSITY CENTRAL BAPTIST COLLEGE COLLEGE OF THE DZARKS CRGMLEY'S RIDGE COLLEGE EAST ARK CHTY COL. GARLAND CHTY COLLEGE HARDING COLLEGE HENDERSON STATE UNIV HENDRIX COLLEGE JOHN BROWN UNIVERSITY HISS COUNTY CMTY COLLEGE NORTHERN ARKANSAS C COLL OUACHITA BAPTIST UNIV PHILANDER SMITH COLLEGE SHORTER COLLEGE SOUTHERN ARKANSAS UNIV SOUTHERN BAPTIST COLLEGE SUUTHERN BAPTIST COLLEGE U OF ARK AT HONTICELLO U OF ARK AT HONTICELLO U OF ARKANSAS HOUSE UNIV OF ARK ITTLE BLUFF U OF ARKANSAS HOUSE UNIV OF ARK ITTLE ROCK UNIV OF CENTRAL ARKANSAS HESTARK COMMUNITY COLLEGE | 1,316 334 417 4,145 319 1,100 1,339 793 349 1,486 481 1,088 6,385 4,424 8,825 6,956 1,711 | 71 34 0 0 0 0 15 3.936 0 0 0 0 1.309 1.309 1.324 5.267 5.119 5 | 0 0 0 0 0 0 0 15 0 0 0 0 0 0 0 0 0 0 0 0 | | | 71 34 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 3.116 1.004 87 545 33 426 597 1.179 1.316 334 402 209 319 1.100 1.339 793 349 1.486 480 1.088 5.076 2.600 3.558 1.837 1.706 398 |
| CALIFORNIA, TOTAL | 800,246 | 523.273 | 467,315 | 3,702 | _ | 29,445 | 7,052 | 0 | 194 |
| ACADEMY OF ART ALLAN HANGOCK COLLEGE AMBASSADOR COLLEGE AMERICAN RIVER COLLEGE ANTELOPE VALLEY COLLEGE ARTSTRONG SCH OF BUSINESS ART CTR COL OF DESION AZUSA PACIFIC COLLEGE BARSTOM COLLEGE BETHANY BIBLE CCLLEGE BIOLA COLLEGE CABRILLO COLLEGE CABRILLO COLLEGE CABRILLO COLLEGE CABRILLO COLLEGE CAL COL OF PODIATRIC HED CAL COL OF PODIATRIC HED CAL INST. OF ASIAN STUD CAL POLY ST U SAN LUIS DI CAL SCH PROF PSYCH-BERKLY CAL SCH PROF PSYCH-FRESNI CAL SCH PROF PSYCH-FRESNI CAL SCH PROF PSYCH-FRESNI CAL SCH PROF PSYCH-FRESNI CAL SCH PROF PSYCH-FRESNI CAL SCH PROF PSYCH-S D CAL ST COL SAN BERNARONINI CAL ST COL SAN BERNARONINI CAL ST UD DOMINGUEZ HILLS CALIF ST UNIV GULERTION CALIF ST UNIV GULERTION CALIF ST UNIV FULLERTION CALIF ST UNIV FULLERTION CALIF ST UNIV FULLERTION CALIF ST UNIV LOS ANGELE CALIF ST UNIV LOS ANGELE CALIF ST UNIV LOS ANGELE CALIF ST UNIV FULLERTION CALIF STATE UNIV CHICD CALIF STATE UNIV CHICD CALIF STATE UNIV CHICD CALIF STATE UNIV CHICD CALIF STATE UNIV CHICD CALIF STATE UNIV CHICD CALIF STATE UNIV CHICD CALIF STATE UNIV CHICD CALIF STATE UNIV CHICD CALIF STATE UNIV FRESMO CALIF STATE UNIV CHICD CALIF STATE UNIV CHI | 138 769 769 780 247 292 500 791 809 352 394 4 641 1.081 1.742 441 1.007 A 2.621 2.271 7.277 5 6.516 5.696 4.7342 5.020 2.762 2.762 30.907 263 275 456 231 861 87 347 347 347 347 65 661 87 347 347 661 87 | 0 0 0 189 73 5 0 0 0 0 | 0 0 0 0 0 0 0 0 189 73 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 34 | | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | 6,938 5,264 3,609 3,620 2,033 3,16 32 378 263 275 456 231 805 87 349 1,279 533 26 174 10 379 182 290 4 171 1,021 617 1,021 617 1,021 617 1,021 617 1,021 617 1,021 617 1,021 617 1,021 617 1,021 617 1,021 617 1,021 617 1,021 617 |

PAGE 3

TABLE 8-32. FEDERAL DBLIGATIONS TO UNIVERSITIES AND COLLEGES, BY STATE, INSTITUTION, AND TYPE OF ACTIVITY: FY 1978 CONTINUED (DOLLARS IN THOUSANDS)

| | | | TUULLARS IN | I HUUSAND | 51 | | | | | |
|--|---|--------------------------------------|--------------------------------|-------------------|--|--|---|---|---|---|
| STATE & INSTITUTION | TOTAL ALL | TOTAL ACADEMIC Science | RESEARCH AND DEVELOPMENT | R & D | CADEMIC SCII FACIL FOR INSTR IN SCI & ENG | ENCE FELLOWSHIPS TRAINEESHIPS TRNG GRANTS | GENERAL SUPPORT FOR SCI | DTHER SCIENCE | NON- SCIENCE | |
| CALIFORNIA, CONT'O | * | | | | | | | | | |
| COLLEGE OF THE SISKIYOUS COLUMBIA COLLEGE COMPTON COMHUNITY COLLEGE CONTRA COSTA COLLEGE CONTRA CSTA JR COL OST SO COSUMNES RIVER COLLEGE CRAFTON HILLS COLLEGE CTR FOR EARLY EDUCATION CUESTA COLLEGE | 160 178 2,637 1,016 50 565 106 4 | 0 0 0 0 0 0 | 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 | 0 | 0 0 0 0 0 | 000000000000000000000000000000000000000 | 000000000000000000000000000000000000000 | 160 178 2,637 1,016 50 565 1C5 4 | · |
| CYPRESS COLLEGE D-C UNIVERSITY DE ANZA COLLEGE DIABLO VALLEY CULLEGE DOMINICAN COL SAN RAFAEL DON BOSCO TECHNICAL INST DREM POST-GRAD MED SCHOOL EAST LOS ANGELES COLLEGE | 523 403 1,058 351 136 69 8 | 0 19 0 0 37 0 8 | 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 | 0 0 0 0 | 000000000000000000000000000000000000000 | 0 19 0 0 0 0 8 | 0 0 0 37 0 0 | 523 384 1.058 351 99 69 0 | |
| EL CAMIND COLLEGE EVERGREEN VALLEY COLLEGE FEATHER RIVER COLLEGE FOOTHILL COLLEGE FOOTHILL COLLEGE FORESNO CITY COLLEGE FRESNO PACIFIC COLLEGE | 1,211 600 174 866 44 1,586 | 0 0 0 0 44 56 | 0 0 0 0 44 0 | 0 0 0 | 0 0 0 0 0 0 0 0 | 0 0 0 0 0 56 | 000000 | 0 0 0 | 1,211 600 174 866 0 1,530 | |
| FULLER THEOLOGICAL SEM FULLERTON COLLEGE GAVILAN COLLEGE GLENDALE CHTY COLLEGE GOLDEN GATE UNIVERSITY GOLDEN MEST COLLEGE CHADDATE THEOL UNION | 121 768 359 527 506 689 115 | 0 0 0 0 2 250 | 0 0 0 0 0 | 0,000 | 0 0 0 0 0 | 0 0 0 0 2 0 0 0 | 0 0 0 0 0 250 | 0 0 0 | 121 768 359 527 504 439 115 | |
| GROSSMONT COLLEGE HARTNELL COLLEGE HARVEY MUDD COLLEGE HOLY NAMES COLLEGE HUMBOLOT STATE UNIVERSITY HUMPHREYS COLLEGE IMMACULATE HEART COLLEGE | | 0 239 6 567 0 14 | 0 0 158 0 471 0 | 0 0 0 0 0 0 | 0 6 6 0 | 000000000000000000000000000000000000000 | 000000 | 0 0 75 0 96 0 14 | 1,132 356 484 156 1,877 77 525 | |
| IMPERIAL VALLEY COLLEGE INDIAN VALLEY COLLEGES INTERNATIONAL COLLEGE JOHN F KENNEDY UNIVERSITY KERN CH COL DIST SYS OFF L A CITY JR COL DST S D LAKE TAMBE CHTY COLLEGE | 1.556 185 77 85 5 30 81 | 0 0 0 5 0 | 0 0 0 5 0 | 0 | 0 | 0 0 0 0 0 0 | 0 | 0 0 0 | 1,556 185 77 85 0 30 81 | |
| LANEY COLLEGE LASSEN COLLEGE LINCOLN UNIV (CAL) LOMA LINDA UNIVERSITY LONE MOUNTAIN COLLEGE LONG BEACH CITY COLLEGE LOS ANGELES BAPT COLCSEM LOS ANGELES CITY COLLEGE | 1,419 600 33 5,315 104 1,616 197 3,723 | 20 0 0 2,195 0 8 0 | 0 0 0 2.067 0 0 | 0 0 0 0 0 | 00000000 | 0 0 49 0 0 | 20 0 79 0 0 0 | 0 0 0 8 0 0 | 1,399 600 33 3,120 104 1,608 197 3,723 | |
| LOS ANGELES HARBOR COL LOS ANGELES HISSION COLL LOS ANGELES PIERCE COL LOS ANGELES SOUTHWEST COL LOS ANGELES TR TECH COL LOS ANGELES VALLEY COL LOS ANGELES VALLEY COL | 738 327 710 1,779 3,565 801 366 | 53 0 0 0 12 0 | 0 0 0 12 0 | 0 0 0 0 | 000000000000000000000000000000000000000 | 53 0 0 0 0 | 0 0 0 0 0 0 | 000000000000000000000000000000000000000 | 685 327 10 1,779 3,553 801 366 | |
| LOS RIDS C C SYS DFFICE LOYDLA MARYMOUNT U MENLO COLLEGE MERCED-COLLEGE MERT ITT COLLEGE MILLS COLLEGE | 183 2,312 25 1,336 1,407 520 | 5 31 0 0 | 5 29 0 0 | 0 0 0 0 | 0 0 | 0 · 2 · 0 · 0 · 0 · 0 · 0 · 0 · 0 · 0 · | 0 0 | 0000 | 178 2,281 25 1,336 1,407 520 | |
| MIRA COSTA COLLEGE MODESTO JUNIOR COLLEGE MONTEREY INST OF FOR STUD MONTEREY PENINSULA COL MODRPARK COLLEGE MOUNT SAN ANTONIO COLLEGE MOUNT SAN JACINTO COLLEGE | 288 1,007 200 393 4 1,810 202 | 0 0 5 0 0 | 0 0 5 0 | 0 0 0 0 | 0 0 0 0 0 | 0 | 0 0 0 0 | 0 0 0 | 288 1,007 200 388 4 1,810 | |
| MOUNT ST MARY'S COLLEGE MRYMNT PALOS VERDES COLL NAIROB1 COLLEGE NAPA COLLEGE NATIONAL UNIVERSITY NEW COLLEGE OF CALIFORNIA | 340 161 188 710 293 469 | 7 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 7 0 0 0 0 | 202 333 161 188 710 293 469 | |
| NORTHROP UNIVERSITY OCCIDENTAL COLLEGE OHLONG COLLEGE ORANGE COAST COLLEGE OTIS ART INST LA COUNTY OXNARO COLLEGE PACIFIC CHRISTIAN COLLEGE | 180 642 154 1,238 47 19 | 0 86 0 0 0 | 0 72 0 0 0 | 0 0 0 | 000000 | 0 0 0 0 | 0 0 0 0 | 0 14 0 0 0 0 | 180 556 154 1,238 47 19 180 | |
| PACIFIC LUTHERAN THEO SEM PACIFIC CARS COLLEGE PACIFIC SCH OF RELIGION PACIFIC UNION COLLEGE PALD VERDE COLLEGE PALDMAR COLLEGE PASADENA CITY COLLEGE | 14 141 126 926 66 976 1,061 | 0 0 35 0 0 | 0 0 35 0 0 | 0 0 0 | 0 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 14 141 91 926 66 976 | |
| PATTEN BIBLE COLLEGE | 48 | ŏ | ŏ | ŏ | ŏ | ŏ | ŏ | ŏ | 1,061 48 | |

FEDERAL OBLIGATIONS TO UNIVERSITIES AND COLLEGES, BY STATE, INSTITUTION, AND TYPE OF ACTIVITY: FY 1978 TABLE B-32. CONTINUED (DOLLARS IN THOUSANDS)

| · | | | (DOLLARS IN | יייי אני טטחו | 3, | | , , | | | |
|---|------------------|------------------------------|--------------------------------|----------------|---|--|-------------------------------|------------------|-----------------|------------------------------|
| STATE & INSTITUTION | TOTAL, ALL | TOTAL ACADEMIC SCIENCE | RESEARCH AND DEVELOPMENT | R & D Plant | CADEMIC SCI FACIL FDR INSTR 1N SCI & ENG | FELLOWSHIPS TRAINEESHIPS TRNG GRANTS | GENERAL SUPPORT FOR SCI | OTHER SCIENCE | NON- SCIENCE | |
| CALIFORNIA, CONT'D | | | | | • | | | and the second | | |
| PEPPERGINE UNIVERSITY | 1,242 | . 0 | . 0 | 0 | 0 | 0 1, | 0 | 0 | 1,242 | |
| PERALTA CHTY COL SYS OFF | 95 | 9 | 0 123 | . 0 | 0 | 0 13 | . 0 | 0 0 | 496 | : 1 (14 14년) : 1 (14 14년) |
| PITZER COLLEGE Point Loma College | 632 487 | 136 7 | 0 | 0 | . 7 | 0 | 0 235 | 0 11 | 4 B0 5 76 | |
| POMONA COLLEGE Purterville College | 1,240 392 | 66 4 0 | 418 0 | 0 | 0 | 0 | 0 | . 0 | 392 427 | |
| REEDLEY COLLEGE RIO HONDO COLLEGE | 427 993 | 0 | 0 | 0 | 0 | . 0 | ō | 0 | 993 | |
| RIVERSIDE CITY COLLEGE | 873 | · C | 0 | 0 | 0 | 0 6 | 0 | 0 | 873 2,058 | |
| SACRAMENTO CITY COLLEGE SADDLEBACK COLLEGE | 2,064 314 | 5 | 5 | Ö | Ö | 0 2 | 0 | 0 | 309 1,026 | |
| SAN BERNARDING VALLEY COL San Diegd City College | 1,028 250 | 2 166 | 0 | ō | ō | 166 | o o | o o | 84 200 | |
| SAN DIEGO EVENING COLLEGE SAN DIEGO JR COL SYS OFF | 200 475 | 0 | 0 | 0 | 0 | 0 0 | ō | . 0 | . ; 475 | |
| SAN DIEGO MESA COLLEGE SAN DIEGO MIRAMAR COLLEGE | 2,245 40 | 0 | 0 | 0 | 0 | 0 | D | o บ | 2,245 40 | |
| SAN DIEGD STATE UNIV | 10,293 | 3,792 | 3,042 0 | 0 | 12 | 384 . 0 | 69 0 | 285 0 | 6,501 300 | |
| SAN FRANCISCO ART INST SAN FRANCISCO CC DISTRICT | 300 4,269 | 239 | 10 | ŏ | Ŏ | 0 | 229 | 0 | 4,030 | |
| SAN FRANCISCO CONSV MUSIC SAN FRANCISCO STATE UNIV | 34 5,859 | 967 | 0 887 | 0 | . 0 | 3 | ŏ | 77. | 4,892 | 4.44 |
| SAN JOAQUIN DELTA COLLEGE SAN JOSE BIBLE COLLEGE | 2,348 74 | 0 | 0 | 0 | 0 | Ō | . 0 | 0 | 2,348 74 | |
| SAN JOSE CITY COLLEGE | 1:515 | 10 1,398 | 0 1,377 | 0 7 | 10 0 | 0 | · 0 | . 0 14 | 1,505 5,510 | |
| SAN MATEO CC DIS SYS OFF | 59 840 | 0 | 0 | 0 | 0 | 0 0 | 0 | . 0 33 | 59 807 | |
| SANTA ANA COLLEGE SANTA BARBARA CITY COL | 923 | 0 | 0 | ŏ | Ö | . 0 | . 0 | 0 | 923 1,544 | |
| SANTA MONICA COLLEGE Santa Rosa jr College | 1,544 1,573 | 0 | ō | 0 | Ō | . 0 | ŏ | 0 | 1,373 | |
| SCH OF THEOLOGY CLAREHONT SCRIPPS COLLEGE | . 69 425 | 0 24 | 0 24 | 0 | 0 | 0 | · o | . 0 | 401 | |
| SHASTA COLLEGE | 418 497 | . 0 56 | 0 | 0 | 0 | . 0 | 0 56 | . 0 | 438 441 | |
| SIMPSON COLLEGE (CAL) | 105 | 0 | 0 | . 0 | . 0 | 0 | 0 | . 0 | 105 435 | |
| SKYLINE COLLEGE SOLAND COMMUNITY COLLEGE | 435 666 | Ò | 0 | Ŏ | 0 13 | . 0 | 0 | 0 | 666 1,670 | |
| SONOMA STATE UNIVERSITATE SOUTHERN CAL COL OPTHIRY | 1,683 438 | 13 57 | ō | . 0 | ó | o o | 0 | 57 0 | 381 462 | |
| SOUTHERN CALIFORNIA COL Southwestern college | 462 1,630 | 0 | 0 | 0 | Ö | , ō | 0 | o o | 1,630 95 | |
| SOUTHWESTERN U SCH OF LAN ST MARY'S COL CALIFORNIA | 95 321 | 0 | 0 | | . 0 | . 0 | . 0 | . 0 | 321 | |
| ST PATRICK'S COLLEGE STANFORD UNIVERSITY | 9 94 . 009 | 0 89,738 | 0 80,110 | 0 2,557 | 723 | 5,659 | 473 | 216 | 4,271 | The second |
| TAFT COLLEGE | 96 935 | 0 838 | 0 822 | 0 | 0 | 0 16 | 0 | 0 | 96 97 | |
| THE WRIGHT INSTITUTE UNIV OF CAL BERKELEY | 65,720 | 55,399 | 49,663 27,721 | 25 | 823 | 4,009 | 467 736 | 437 109 | 10,321 8,479 | |
| UNIV OF CAL DAVIS UNIV OF CAL IRVINE | 38,476 17,624 | 29,997 13,361 | 11,861 | 0 | 71 | 916 . 4,334 | 453 718 | 60 270 | 4,263 | 2016年 |
| UNIV OF CAL LOS ANGELES UNIV OF CAL RIVERSIDE | 97,779 8,372 | 76,428 7,038 | 69,595 6,527 | 597 0 | 107 | 176 | 177 800 | - 51 | 1,334 | |
| UNIV OF CAL SAN DIEGO UNIV OF CAL SAN FRANCISCO | 88,508 59,488 | 82,031 51,369 | 77,033 46,388 | 147 | | 3,512 4,291 | 386 | 356 64 | 8,119 | |
| UNIV OF CAL SANTA BARBARA | | 8,782 4,192 | 8,288 3,716 | 0 | _ | 217 - 41 | 89 40 4 | 83 31 | 2,534 | |
| UNIV OF CAL SANTA CRUZ UNIV OF CAL SYS+HIDE PROG | 9,015 | 7,750 | 756 836 | Ö | | 0 424 | 23 0 | 6,971 45 | 1,265 2,611 | |
| UNIV OF SAN FRANCISCO UNIV OF SOUTHERN CAL | 3,916 61,039 | 1,305 | 42,458 | 28 | 479 | 1,749. | 384 | 183 0 | 15,758 494 | |
| UNIVERSITY OF LA VERNE UNIVERSITY OF REDLANDS | 494 495 | . 0 27 | 27 | o o | Ó | . 0 | Ö | 0 11 | 1,019 | |
| UNIVERSITY OF SAN DIEGO UNIVERSITY OF SANTA CLARA | 1,042 | 23 23 921 | 854- | |) 0 | | | 61- | | A CONTRACTOR |
| UNIVERSITY OF THE PACIFIC US INTERNATIONAL UNIV | | 403 0 | 378 0 | 0 | | 0 | 25 | 0 | 3,229 | |
| VENTURA COLLEGE | 2,128 426 | 0 | 0 | . 6 |) 0 | 0 | 0 | . 0 | 2,128 426 | |
| VICTOR VALLEY COLLEGE WEST COAST BIBLE COLLEGE | 158 | . 0 | 0 | Č | 0 | 0 | . 0 | 0 | 158 59 | |
| WEST COAST UNIVERSITY WEST HILLS COLLEGE | 59 330 | 0 | 0 | | . 0 | 0 | 0 | 0 | 330 952 | |
| WEST LOS ANGELES COLLEGE WEST VALLEY COLLEGE | 952 914 | 0 | . 0 | 0 | 0 | 0 | , 0 | 0 | 914 | |
| HESTERN ST U COL OF LAW Hesthont College | 5 212 | 0 | | | 0 | 0 | ŏ | 0 | 212 571 | |
| WHITTIER COLLEGE WOODBURY UNIVERSITY | 571 109 | 0 | | | 0 | 0 | 0 | . 0 | 109 | |
| WORLD COLLEGE WEST | 70 549 | , o | o o | (| | 0 | 0 | | 70 549 | |
| YUBA COLLEGE COLORADO, TOTAL | 118,303 | 71,951 | - | . 46 | | 4,211 | 1,067 | 3,246 | 46,352 | |
| ADAMS STATE COLLEGE | 1,202 | ···· 32 | | . (|) 11 | 21 | 0 | | 1,170 444 | |
| AIMS CMTY COLLEGE ARAPAHOE CMTY COLLEGE | 457 403 | 13 | 0 | (| 0 | 0 | ŏ | 0 | | |
| COLO NORTHWSTRN CMTY COL COLORADO COLLEGE | 85 349 | · 0 | 38 | (| | Ō | 0 | 18 | 293 | |
| COLORADO MOUNTAIN COL COLORADO SCHOOL OF MINES | 226 | 2,770 | | | 0 0 85 | 410 | 188 | ': 40 | | |
| COLDRADO STATE UNIVERSITO COLDRADO HOMEN'S COLLEGE | | 23,952 | 20,371 | | 0 595 0 0 | 607 0 | . 205 | . 0 | 205 | |
| COMMUNITY COLLEGE DENVER | 2.091 942 | 171 | 0 | | | . 0 | 0 102 | 40 | 771 | |
| FORT LEWIS COLLEGE ILIFF SCHOOL OF THEOLOGY | | | _ | | 0 0 | . 0 | 0 | 0 | 24 | |

TABLE B-32. FEDERAL OBLIGATIONS TO UNIVERSITIES AND COLLEGES, BY STATE, INSTITUTION, AND TYPE OF ACTIVITY: FY 1978

(OOLLARS IN THOUSANDS)

| | | | (UULLAKS IN | טויי אב טעוזו ו | 3, | | | | |
|---|--|---|---|---|--|---|---|---|---|
| STATE & INSTITUTION | TOTAL, ALL ACTIVITIES | TOTAL ACADEMIC SCIENCE | RESEARCH AND DEVELOPMENT | R E D PLANT | CADEMIC SC1 FACIL FOR INSTR IN SC1 & ENG | ENCE FELLOWSH1PS TRAINEESH1PS TRNG GRANTS | GENERAL SUPPORT FOR SC1 | OTHER SCIENCE | NON≠ SC1ENCE |
| COLORADO. CONTºO | | | | | | | | | |
| INTERHOUNTAIN BIBLE COL LAMAR COMMUNITY COLLEGE LORETTO HEIGHTS COLLEGE HESA COLLEGE HETROPOLITAN STATE COL HORGAN COUNTY CC NAZARENE BIBLE COLLEGE NORTHEASTERN JR COLLEGE PIKES PEAK CHTY COLLEGE REGIS COLLEGE ROCKHONT COLLEGE ST THOMAS SEM COL (COL) TRINIDAD STATE JR COLLEGE UNIV OF NORTHERN COL GRADO UNIVERSITY OF COLORADO UNIVERSITY OF COLORADO UNIVERSITY OF COLORADO YESHIVA T CHAIM TAL SEM | 15 147 1.023 623 3.450 41 282 385 208 707 1.562 131 67 698 3.229 2.922 53.375 10.476 500 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 11 12 7 32,091 7,643 | 000000000000000000000000000000000000000 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 15 147 1,023 3,450 41 282 385 208 707 1,562 131 67 2,842 2,795 17,463 2,078 500 |
| CONNECTICUT, TOTAL | 115,839 | 81.397 | 70,414 | 314 | 386 | 7,124 | 1,035 | 2,124 | 34,442 |
| ALBERTUS MAGNUS COLLEGE ANNHURST COLLEGE ASNUNTUCK CC CENTRAL CONN STATE COL CONNECTICUT COLLEGE EASTERN CONN STATE COL FAIRFIELD UNIVERSITY GREATER HARTFORD COMM COL HARTFORD GRADUATE CENTER HARTFORD GRADUATE CENTER HARTFORD STATE TECH COL HOLY APDSTLES COLLEGE HOUSATONIC REG COMM COL MANCHESTER COMMUNITY COL MATTATUCK COMMUNITY COL MIDDLESEX COMM COL (CONN) HITCHELL COLLEGE HOREGAN COMMUNITY COLLEGE MOREGAN COMMUNITY COLLEGE ONDRHALK STATE TECH COL POST COLLEGE OUINNEDIAC COLLEGE SACRED HEART UNIVERSITY SOUTH CENTRAL COMM COL SOUTHERN COLNES ST THOMAS SEMINARY THAMES VALLEY ST. TECH COL TRINITY COLLEGE TUNNIS COMMUNITY COLLEGE TUNNIS COMMUNITY COLLEGE TUNNIS COMMUNITY COLLEGE TUNNIS COMMUNITY COLLEGE TUNNIS COMMUNITY COLLEGE TUNNIS COMMUNITY COLLEGE TUNNIS COMMUNITY COLLEGE TUNNIS COMMUNITY COLLEGE TUNNIS COMMUNITY COLLEGE TUNNIS COMMUNITY COLLEGE TUNNIS COMMUNITY COLLEGE TUNNIS COMMUNITY COLLEGE TUNNIS COMMUNITY TO COLLEGE TUNNIS COMMUNITY TO COLLEGE TUNNIS COMMUNITY OF COLLEGE TUNNIS COMMUNITY OF CONNECTICUT UNIVERSITY OF MEN HAVEN HATERBURY STATE TECH COL HESLEYAN UNIVERSITY HESTERN CONN STATE COL YALE UNIVERSITY HESTERN CONN STATE COL YALE UNIVERSITY HESTERN CONN STATE COL | 153 112 1.446 685 627 667 557 123 6 95 37 741 384 186 313 236 320 131 389 63 320 131 389 63 205 84 121 644 242 1.359 25,266 864 67,892 | 0 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 000000000000000000000000000000000000000 | 0 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 153 107 128 1.446 685 627 630 957 741 384 625 306 84 186 313 236 320 131 389 63 201 8 121 615 201 8 121 615 222 61963 2.042 839 708 |
| DELAHARE, TOTAL | 14,696 | 8,778 | 7,373 | 8 | 160 | 47 | 92 | 1,098 | 5,918 |
| BRANDYHINE COLLEGE OFLAHARE STATE COLLEGE DELAHARE TECH C COMM COL GOLDEY BEACOM COLLEGE UNIVERSIY OF DELAHARE MESLEY COLLEGE NILMINGTON COLLEGE | 266 1,975 1,111 172 10,794 256 122 | 0 514 8 0 8 • 256 0 | 0 336 0 0 7,037 0 | 0 0 0 0 8 0 | 0 0 8 0 152 0 | 0 0 0 47 0 | 0 0 0 92 0 | 0 178 0 0 920 0 | 266 1,461 1,103 172 2,538 256 122 |
| OISTRICT OF COLUMBIA, TOTAL | 206,219 | 42,971 | 36,319 | 947 | 174 | 2,052 | 2,087 | 1,392 | 162.248 |
| AMERICAN UNIVERSITY CAMPUS-FREE COLLEGE CATHOLIC UNIV OF AMERICA GALLAUDET COLLEGE GEORGE HASHINGTON UTIV GEORGETOWN UNIVERSITY HOWARD UNIVERSITY IMMACULATA COL OF HASH MOUNT VERNON COLLEGE SOUTHEASTERN UNIVERSITY STRAYER COLLEGE TRINITY COLLEGE UNIVERSITY OF O C HASHINGTON INTERN'L COLL | 5,444 106 4,032 33,103 18,842 19,896 116,195 16 72 355 1,029 311 6,417 401 | 2.869 0 2.350 516 13.939 13.936 7.903 0 0 0 0 32 2.026 | 2,744 0 2,220 371 13,003 11,595 5,715 0 0 0 0 32 639 | 0 0 0 0 947 0 0 0 0 | 0 0 4 0 31 14 125 0 0 0 | 14 0 34 79 484 368 946 0 0 0 | 98 0 28 0 188 360 997 0 0 0 416 | 13 0 66 233 52 120 0 0 0 0 | 2,575 106 1682 32,587 4,903 6,560 108,292 16 72 355 1,029 2,79 4,391 401 |

| | | | | | CAREMIC SCI | ENCE | | | |
|---|-----------------|------------------------------|----------------------------------|---------|-----------------------|--|-------------------------------|-------------|-------------------|
| STATE & INSTITUTION | TOTAL, ALL | TOTAL ACADEMIC SCIÊNCE | RESEARCH . AND DEVELOPMENT | RED | FACIL FOR INSTR IN | FELLOWSHIPS TRAINEESHIPS TRNG GRANTS | GENERAL SUPPORT FOR SCI | DTHER | NDN- |
| FLORIDA, TOTAL | 186,917 | 77.152 | 65,243 | 654 | 426 | 2,937 | 2,710 | 5,182 | 109,765 |
| BARRY COLLEGE | 502 | 28 | 28 | 0 | 0 | 0 | 276 | 0 129 | 474 3,108 |
| BETHUNE COOKMAN COLLEGE | 3.512 1.079 | 404 0 | 0 | 0 | 0 | 0 | 275 0 | 0 | 1.079 |
| BISCAYNE COLLEGE Brevard community college | 1,630 | ŏ | ŏ | ŏ | ŏ | ō | 0 | 0 | 1,630 |
| BROWARD COMMUNITY COLLEGE | 1,572 | . 0 | 0 | D 0 | 0 | . 0 | 0 | 0 | 1,572 646 |
| CENTRAL FLORIDA CMTY COL CHIPOLA JR COLLEGE | 646 371 | ŏ | ő | ŏ | ŏ | ŏ | ō | 0 | 371 |
| COLLEGE OF BOCA RATON | 92 | 0 | 0 | 9 | 0 | 0 0 | 0 | 0 | 92 1,635 |
| DAYTONA BEACH CMTY CDL ECKERD CDLLEGE | 1,635 440 | 0 74 | 0 74 | 0 | 0 | Ö | ŏ | ŏ | 366 |
| EDISGN COMMUNITY COLLEGE | 377 | 0 | 0 | 0 | 0 | 0 D | 0 | 0 | 377 1,963 |
| EDWARD WATERS COLLEGE Embry-riddle Aerd Univ | 1,963 1,030 | 0 | 0 | 0 | ő | ŏ | ŏ | ō | 1.030 |
| FLA INTERNATIONAL UNIV | 3,708 | 21 | 21 | 0 | 0 | 0 | 0 | 0 ~ 0 | 2,766 |
| FLA JR CDL - JACKSDNVILLE FLAGLER CDLLEGE | 2,766 268 | 0 | 0 | 9 | 0 | 0 | ŏ | ŏ | 268 |
| FLORIDA A & M UNIVERSITY | 9,602 | 1,764 | 1,006 | 0 | 0 | 42 0 | 329 0 | 387 0 | 7,838 1,392 |
| FLORIDA ATLANTIC UNIV FLORIDA COLLEGE | 1,746 118 | 354 0 | 354 0 | 0 | 0 | Ö | ŏ | ŏ | 118 |
| FLORIDA INST OF TECH | 1,814 | 524 | 377 | 0 | 18 | 0 | 95 | 34 0 | 1,29D 236 |
| FLORIDA KEYS CMTY COLLEGE FLORIDA MEMORIAL COLLEGE | 236 1,503 | 0 | 0 | 0 | 0 | . 0 | 0 | ő | 1.503 |
| FLCRIDA SOUTHERN COLLEGE | 327 | 0 | 0 | | 0 154 | 0 638 | 0 77 | 0 25 | 327 9,771 |
| FLORIDA STATE UNIVERSITY FLORIDA TECHNOLOGICL UNIV | 20,303 4,150 | 10,532 2,369 | 9,511 2,177 | 127 | 197 | 0 | 171 | 21 | 1.781 |
| FORT LAUDERDALE UNIV | . 105 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 105 510 |
| GULF CCAST CMTY COLLEGE HILLSBORDUGH CMTY COLLEGE | 510 1,550 | . 0 | 0. | 0 | 0 | 0 0 | ŏ | ŏ | 1,550 |
| INDIAN RIVER CHTY COLLEGE | 713 | ō | ō. | 0 | 0 | 0 | . 0 | 0 | 713 638 |
| JACKSONVILLE UNIVERSITY JONES COLLEGE | 638 517 | 0 | 0 | 0 | 0 | 0 | . 0 | ŏ | 517 |
| LAKE CITY CMTY COLLEGE | 401 | 0 | - 0 | 0 | 0 | 0 | 0 | 0 | 401 266 |
| LAKE-SUMTER CMTY CDLLEGE MANATEE JR CDLLEGE | 266 569 | 0 | 0 | 0 | 0 | 0 0 | ŏ | Ó | 569 |
| MIAMI CHRISTIAN COLLEGE | 145 | . 0 | 0 | 0 | 0 | 0 | 0 | 0 | 145 14,113 |
| MIAMI-DADE CMTY COLLEGE North Florida Jr College | 14,113 164 | 0 | 0 | Ö | ő | ŏ | ŏ | ŏ | 164 |
| NQVA UNIVERSITY | 1,230 | 643 0 | 497 0 | 86 0 | 0 | 0 | 0 | 60 | 587 162 |
| DKALDDSA-WALTON JR CCL PALM BEACH ATLANTIC CDLL | 162 283 | . 8 | ŏ | ō | ō | 0 | ō | ō | 283 |
| PALM BEACH JR COLLEGE | 718 299 | 0 | 0 | 0 | 0 | . 0 | 0 | 0 | 718 299 |
| PASCO MERNANDO CC | 1,363 | 0 | 0 | 0 | ō | 0 | 0 | 0 | 1,363 |
| P‼ik CHTY COLLEGE ₩%LLINS COLLEGE | 417 190 | 0 | . 0 | 0 | 0 | . 0 | 0 | 0 | 417 190 |
| SANTA FE CHTY COLLEGE | 2,488 | 0 | · | 0 | 0 | 0 | 0 | . 0 | |
| SEMINDLE CMTY COLLEGE SESTRN COL-ASSEM8-DFGDD | 728 677 | 0 | 0 | 0 | 0 | ŏ | . 0 | 0 | 677 |
| SOUTH FLORIDA JR COLLEGE | 54 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - 54 42 |
| ST JOHN VIANNEY COL SEM ST JOHN'S R CMTY COL | 42 195 | () O | 0 | 0 | Ō | ō | ō | 0 | 195 |
| ST JOSEPH COL OF FLORIDA | 1 | 0 | . 0 | 0 | 0 3 | 0 | 0 | 0 | 1 227 |
| ST LEO COLLEGE ST PETERSBURG JR COLLEGE | 230 1,630 | 13 | 13 | _ | • | 0 | 0 | . 0 | 1,617 |
| STATE UNIV SYS OF FLA OFF | | 1,482 | 1,351 | 0: | ~ ° | 0 | 0 | 131 | 0 790 |
| STETSON UNIVERSITY TALLAHASSEE CHTY COLLEGE | 790 596 | ŏ | ŏ | 0 | 0 | . 0 | ō | 0 | 596 |
| TALMUOIC COL DF FLORICA | 70 148 | 0 | 0 | 0 | - 0 | . 0 | 0 | 0 | 70 148 |
| TAMPA COLLEGE Univ of Scuth Florida | 6,842 | 2,490 | 2,128 | ō | 7 | 149 | 159 | 47 | 4,352 |
| UNIV DE NEST FLORIDA University de Florida | 1,925 38,751 | 482 27,851 | 454 21,464 | 0 | 0 227 | 0 1,266 | 0 746 | 28 4,148 | 1,443 |
| UNIVERSITY OF HIAMI | 41,713 ~ | 28,074 | 25.744 | 441 | 17 | 842 | 858 0 | 172 | 13,639 796 |
| UNIVERSITY OF NORTH FLA University of Tahpa | 840 306 | 44 | 44 | 0 | 0 - | ŏ | ŏ | 0 | 306 |
| VALENCIA COMMUNITY COLL | 1,524 | 0 | 0 | . 0 | 0 | 0 | 0 | 0 | 1,524 108 |
| HARNER SDUTHERN COLLEGE Hebber College | 108 34 | . 0 | 0 | 0 | ŏ | Ď | ŏ | ŏ | 34 |
| GEDRGIA: TOTAL | 135,529 | 71,205 | 55.705 | 203 | 267 | 2,254 | 4,447 | 8,329 | 64,324 |
| ABRAHAM BALDHIN AGRIC CIL | 1,064 | 0 | o | 0 | 0 | 0 | 0 | 0 | 1,064 |
| AGNES SCOTT COL Albany jr college | 49 652 | 0 | 0 | 0 | 0 | D 0 | 0 | 0. | 652 |
| ALBANY STATE COLLEGE | 3,436 | 121 | Ō | 0 | 0 | 0 | 100 | 21 0 | 3,315 251 |
| ANDREW COLLEGE | 25 1 66 1 | 0 | 0 | 0 | 0 | 0 . | ŏ | ŏ | 661 |
| ARMSTRONG STATE COLLEGE ATLANTA CHRISTIAN COL | 58 | Ō | ō | 0 | | 0 | 0 | 0 | . 58 |
| ATLANTA COLLEGE OF ART | . 1,172 | 0 236 | 0 | 0 | | 0 | 236 | 0 | 88 936 |
| ATLANTA JR COLLEGE ATLANTA UNIVERSITY | 6,646 | 3,271 | 189 | 0 | 0 | 279 | 2,767 | 36 | 3,375 |
| ATLANTA UNIVERSITY CENTER | 186 768 | 186 0 | 145 | . O | 0 | 0 | 0 | 2 | 0 7 <u>6</u> 8 |
| AUGUSTA CDLLEGE Bainridge Jr Cdllege | 106 | ō | Ď | . 0 | ō | 0 | O | 0 | 165 451 |
| BERRY COLLEGE Brenau College | 451 172 | . 0 | 0 | . 0 | . 0 | 0 | ō | , · ŏ | 172 |
| BREHTON-PARKER COLLEGE | 283 | 0 | 0 | 0 | | 0 | 0 | 0 | 283 238 |
| BRUNSWICK JR COLLEGE CLARK COLLEGE | 238 5.152 | 7 370 | 305 | 0 | . 0 | 0 | Ō | 65 | 4,782 |
| CLAYTON JUNIOR COLLEGE | 233 1,087 | 0 17 | D 0 | . 0 | | 0 | 0 | 0 17 | 233 1,070 |
| COLUMBUS COLLEGE | 483 | 0 | 0 | 0 | 0.7 | . 0 | | 0 | 483 155 |
| DALTON JUNIOR COLLEGE | 155 | . 0 | 0 | .0 | 0. | · | | | |

TABLE B-32. FEDERAL OBLIGATIONS TO UNIVERSITIES AND COLLEGES, BY STATE, INSTITUTION, AND TYPE OF ACTIVITY: FY 1978

(ODLLARS IN THOUSANDS)

| | | | | A | CADEMIC SCI | E NC E | | | |
|---|---|---|--------------------------------|-----------------------|------------------------------------|--|-------------------------------|-------------------------|--|
| STATE & INSTITUTION | TOTAL, ALL ACTIVITIES | TOTAL ACADEMIC SCIENCE | RESEARCH ANO Development | R GO Plant | FACIL FOR INSTR IN SCI & ENG | FELLOWSHIPS TRAINEESHIPS TRNG GRANTS | GENERAL SUPPORT FOR SC1 | DT HER SC 1 ENCE | NON- SCIENCE |
| GEDRGIA, CONT'D | | | | | | | | | |
| DEKALB COMMUNITY COLLEGE EMANUEL CO JUNIOR COLLEGE EMMANUEL COLLEGE EMDRY UNIVERSITY FLOYD JUNIOR COLLEGE | 1,480 84 168 18,540 295 | 5 0 0 14,140 | 5 0 0 12,921 0 | · 0 | 0 0 0 9 | 0 0 0 644 0 | 0 0 0 287 0 | 0 0 0 279 0 | 1,475 84 168 4,400 298 |
| FORT VALLEY STATE COLLEGE GAINESVILLE JR COLLEGE GEORGIA COLLEGE | 3,981 221 782 | 1,596 4 15 | 939 4 | 0 0 0 | 0 0 0 | . 0 . 0 | 53 0 0 | 568 0 11 | 2,385 217 767 |
| GEORGIA INSTITUTE OF TECH GEORGIA MILITARY COLLEGE | 24,877 102 | 23,355 | 22,122 | 19 0 | 164 0 | 648 0 | 243 0 | 159 0 | 1,522 |
| GEORGIA SOUTHERN COLLEGE GEORGIA SOUTHWESTERN COL | 1,308 765 | 74 17 | 56 0 | 0 | 0 3 | 0 0 | 0 0 0 | 18 14 14 | 1,234 748 2,785 |
| GEDRGIA STATE UNIVERSITY GDRODN JUNIOR COLLEGE INTERDENOMINA THEDL CTR | 3,454 338 67 | 669 0 0 | 472 0 0 | .0 | 0 | 183 0 0 | 0 | 0 | 338 67 |
| KENNESAH COLLEGE LA GRANGE COLLEGE | 128 163 | • 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 28 1 6 3 |
| MACON JUNIOR COLLEGE Medical col of Georgia | 287 7,300 | 0 4,476 9 | 4,221 0 | 0 0 0 | 0 | 0 77 0 | 0 178 0 | 0 0 9 | 287 2,824 1,945 |
| MERCER UNIVERSITY MIDDLE GEDRGIA COLLEGE MOREHOUSE COLLEGE | 1,954 325 3,183 | 0 24 2 | 0 88 | 0 | 0 | 0 | 0 150 | ó | 325 2,941 |
| MORRIS BROWN COLLEGE NORTH GEORGIA COLLEGE | 3,836 750 | 10 55 | 0 19 | 0 | 0 | 0 36 | 10 0 | 0 | 3,826 695 |
| DGLETHORPE COLLEGE PAINE COLLEGE | 216 2,783 | 0 | 0 0 0 | . 0 | 0 0 0 | 0 0 0 | 0 | 0 0 0 | 216 2,783 308 |
| PIEDMONT COLLEGE REINHARDT COLLEGE SAVANNAH STATE COLLEGE | 308 84 3,164 | 0 180 | 0 35 | . 0 | 0 ' | 0 | 0 145 | 0 | 84 2,984 |
| SHORTER COLLEGE SOUTH GEORGIA COLLEGE | 175 864 | 0 | 0 0 | 0 | 0 | 0 | · · 0 0 | - · · 0 0 | 175 864 3,009 |
| SPELMAN COLLEGE THOMAS COUNTY CMTY COLL | 3,026 111 367 | 17 0 0 | 0 0 0 | 0 | 13 0 0 | 0 | ŏ | 0 | 111 367 |
| TIFT COLLEGE TOCCDA FALLS COLLEGE TRUETT MCCONNELL COLLEGE | 376 223 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 376 223 |
| UNIVERSITY OF GEORGIA VALOOSTA STATE COLLEGE | 22,876 1,357 | 22,103 | 14.180 0 - 0 | 184 0 | 78 0 0 | 343 0 0 | 239 0 0 | 7,079 0 0 | 773 1,357 151 |
| WAYCROSS JUNIOR COLLEGE WESLEYAN COLLEGE WEST GEORGIA COLLEGE | 151 185 1,395 | 0 0 37 | 0 | 0 | 0 | 0 | 0 | . 0 37 | 185 1,358 |
| YDUNG HARRIS COLLEGE | 86 | 0 | . 0 | 0 30 | 0 173 | 0 794 | 0 459 | 0 1,886 | 86 15,864 |
| HAHAII, TOTAL | 44,070 | 28,206 | 24,864 | 0 | 0 | 0 | 0 | 0 | 846 |
| CHAMINADE U OF HONDLULU MAHAII CMTY COL HAHAII LDA CDLLEGE HAHAII PACIFIC COLLEGE U OF HAHA-HONDLULU COM C U OF HAHA-KAPIDLANI C COL U OF HAHA-KAPIDLANI C COL U OF HAHA-KAUAI COMM COL U OF HAHA-LEEHARO COL U OF MAHA-HAUI COMM COL | 846 312 121 452 666 516 152 386 256 | 000000000000000000000000000000000000000 | 0 0 0 0 0 | 0 0 0 0 0 | 0 0 0 0 0 0 0 | 0 | 0 0 0 0 0 0 0 0 | 0 0 0 0 0 | 312 121 452 666 516 152 386 256 48 |
| U DF MAHA-WINDHARD CHTY C UNIV MAHAII AT HILD | 78 1,589 12,812 | 30 1,256 7,384 | 30 1,256 6,345 | 0 0 | 0 | 0 0 3 | 0 60 | 0 976 | 333 5,428 |
| UNIV OF HAHAII SYS OFF UNIV OF HAHAII-MANDA | 25,884 | 19,536 | 17,233 | 30 | 173 | 791 | 399 | 910 1•757 | 6,348 9,346 |
| > 1DAHO. TOTAL | 15,928 | 6,582 | 4,085 | 12 | 45 | 508 | 175 . 0 | 28 | 1,688 |
| BDISE STATE UNIVERSITY COLLEGE OF 1DAHO COLLEGE OF SOUTHERN 10AHO | 1,736 430 662 | 48 31 0 | 20 0 0 | 0 | 0 | 0 | 0 | 31 0 | 3 9 9 6 6 2 |
| LEWIS-CLARK STATE COLLEGE | 2,867 377 | 442 0 | 417 0 | 12 0 0 | 6 0 0 | 7 0 0 | 0 0 0 | 0 | 2,425 377 561 |
| NORTH IDAHO COLLEGE NORTHWEST NAZARENE COL UNIVERSITY OF IDAHO | 561 595 8,700 | 0 5 6,056 | 0 0 3,648 | 0 | . 34 | 0 501 - | 0 . 175 | 0 1,698 | 590 2,644 |
| ILLINDIS, TOTAL | 322,243 | 170,214 | 145,068 | 1,447 | 1,364 | 11,592 | 2,711 | 8 ,032 | 152,029 |
| AMER CONSERV OF MUSIC AUGUSTANA COLLEGE | 58 618 | 0 | 0 | 0 | 0 0 | 0 | 0 | 0 | 58 618 |
| AURDRA COLLEGE Barat College | 453 409 | 0 | . 0 | 0 | 0 0 0 | 0 0 0 | 0 0 0. | 0 | 453 409 551 |
| BELLEVILLE AREA COLLEGE BETHANY THEOL SEM BLACK HANK COLLEGE | 551 34 441 | 0 0 0 | 0 | 0 | . 0 | 0 | 0 | 0 | 34 441 |
| BLACKBURN COLLEGE BRADLEY UNIVERSITY | 155 1,641 | 0.0 | 0 | 0 | 0 | 0 | . 0 | 0 0 0 | 1,55 1,641 30 |
| BRISK RABBINICAL COLLEGE CARL SANDBURG COLLEGE | 30 139 5,755 | 0 0 180 | 0 0 5 | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 175 | ပ | 139 5,575 |
| CENTRAL YMCA CMTY COLLEGE CMICAGO COL OF OSTED MEO CHICAGO CONSERVATORY COL | 764 109 | 0 | ó | 0 0 | 0 | 0 | 0 | 0 | 764 109 |
| CHICAGO STATE UNIVERSITY CHICAGO THEOL SEMINARY | 4,703 27 | 221 0 | 65 0 0 | 0 | 0 0 13 | 0 0 0 | 118 0 145 | 38 0 0 | 4,482 27 19,212 |
| COLLEGE OF CHICAGO COLLEGE OF DU PAGE COLLEGE OF LAKE COUNTY | 19,370 442 403 | 158 0 0 | . 0 | 0 | 0 | 0 0 | 0 | 0 | 442 |
| COLLEGE OF ST FRANCIS COLUMBIA COLLEGE | 175 1,190 | 0 | 0 | 0 | 0 | 0. | 0 | 0 | 175 1,190 193 |
| CONCORDIA TEACHERS COL | 193 | 0 | 0 | . 0 | 0 | 0 | 0 | . : | 173 |



TABLE B-32. FEOERAL D8LIGATIONS TO UNIVERSITIES AND COLLEGES, BY STATE, INSTITUTION, AND TYPE OF ACTIVITY: FY 1978 CONTINUED (ODLLARS IN THOUSANDS)

| | | | | A | CADEMIC SCI | ENCE | | | |
|--|----------------|------------------------------|--------------------------------|----------------|------------------------------------|--|----------|------------------|-----------------|
| STATE & INSTITUTION | TOTAL, ALL | TOTAL ACADEMIC SCIENCE | RESEARCH AND DEVELOPMENT | R & D PLANT | FACIL FOR INSTR IN SCI & ENG | FELLOWSHIPS TRAINEESHIPS TRNG GRANTS | SUPPORT | OTHER SCIENCE | NON→ SCIENCE |
| ILLINGIS, CONT'O | | | | | | | | | |
| COYNE-AMERICAN INSTITUTE | 128 | 0 | o | 0 | 0 | 0 | Q O | 0 | 128 1,064 |
| OANIEL HALE HILLIAMS UNIV | 1,064 427 | 0 | 0 | 0 | 0 | 0 | o. | 0 | 427 |
| DANVILLE AR COLLEGE OE PAUL UNIVERSITY | 2,411 | 375 | 264 0 | 0 | 0 | 10á 0 | 0 | 3 0 | 2,036 945 |
| DEVRY INSTITUTE DF TECH EASTERN ILLINDIS UNIV | 945 1,787 | 0 17 | 17 | ō | ō | . 0 | 0 | 0 | 1,770 78 |
| ELGIN COMMUNITY COLLEGE | 78 | 0 | 0 | 0 | 0 | 0 0 | • 0 | 0 | 525 |
| ELMHURST COLLEGE EUREKA COLLEGE | 525 349 | ٥ | 0 | ง | 0 | 0 | 0 | 0 | 349 41 |
| FELICIAN COLLEGE Garrett-Evanglol Theo Sem | 41 50 | 0 | 0 | 0 | ō ʻ | 0 | ō | 0 % 0 | |
| GEM CITY COLLEGE | 39 | 0 | 0 | 0 | 0 | 0 | 0 | ö | 523 |
| GEORGE WILLIAMS COLLEGE GOVERNORS STATE UNIV | 523 2,248 | 16 | Ō | 0 | 0 | 0 | 0 | 16 0 | 2,232 586 |
| GREENVILLE COLLEGE Hebren Theological Col | 586 39 | 0 | 0 | 0 | ŏ | 0 | 0 | ō | 38 |
| HIGHLAND COMMUNITY COL | 215 | 0 | 0 | 0 | . 0 | 0 | 0 | 0 | 215 347 |
| ILL COL OF PODIATRIC MED ILL E CC LNCOLN TRL COLL | 347 299 | ō | 0 | ŏ | 0 | 0 0 | 0 | 0 | 299 26 |
| ILL E CMTY COL FRONTIER ILL E CMTY COL OLNEY CNTR | 26 335 | 0 | 0 | 0 | ŏ | 0 | 0 | Ō | 335 |
| ILL E CHTY COL WABASH VLY | 292 | 0 | 0 0 | 0 | 0 | 0 | 0 | 0 | 292 128 |
| ILL ESTRN CC SYS DFFICE ILLINDIS BENEDICTINE COL | 128 1,553 | 70 70 | 61 | ō | 9 | 0 | 0 | 0 | 1,483 479 |
| ILLINOIS CENTRAL COLLEGE ILLINOIS COL OF OPTOMETRY | 484 383 | h. 5 | 5 6 | 0 | 0 | ŏ | 0 | ō | 377 |
| ILLINDIS COLLEGE | 144 | 0 | 0 | Ú O | 0 96 | 0 199 | 0 107 | 0 77 | 144 ° 2,087 |
| ILLINOIS INST OF TECH ILLINOIS STATE UNIVERSITY | 5,608 5,507 | 3,521 152 | 3,042 128 | ō | 70 | 0 | 0 | 24 | 5,355 205 |
| ILLINDIS VALLEY CHTY COL | 205 742 | 0 | 0 | 0 | • | 0 | Ö | ō | 742 |
| ILLINDIS WESLEYAN UNIV John a Logan College | 324 | o. | o o | 0 | 0 | 0 | 0 | 0 | 324 33 |
| JOHN MARSHALL LAW SCH JOHN WOOD COMMUNITY COLL | 33 267 | 0 | ō | Ō | c | 0 | . 0 | 0 | 267 342 |
| JOLIET JR COLLEGE 🐷 | 342 191 | 0 | 0 | 0 | 0 | 0 | . 0 | 0 | 191 |
| JUOSON COLLEGE KANKAKEE COMMUNITY COL | 210 | Ō | 0 | 0 | 0 | 0 | 0 | 0. | 210 235 |
| KASKASKIA COLLEGE KENDALL COLLEGE | 235 155 | 0 | 0 0 | Ō | ŏ | ō | 0 | 0 | 155 177 |
| KISHWAUKEE COLLEGE | 177 206 | 0 41 | 0 | 0 | 0 3 | 0 19 | 0 | 19 | 165 |
| KNOX CCLLEGE Lake forest college | 974 | 268 | 0 | 0 | 0 | 0 | 250 0 | 18 0 | 706 349 |
| LAKE LAND COLLEGE LEHIS AND CLARK CHTY CA: | 349 691 | 0 | 0 | 0 | 0 | ŏ | 0 | 0 | 691 925 |
| LEWIS UNIVERSITY | 925 170 | 0 | 0 | 0 | 0 | . 0 | 0 | 0 | 170 |
| LINCOLN CHRISTIAN COL LINCOLN COLLEGE | 278 | ō | 0 | 0 | 0 | 0 | 0 | . 0 | 278 428 |
| LINCOLN LAND JR COLLEGE LOYDLA UNIV - CHICAGO | 428 6,961 | 0 2,057 | 0 1,896 | 0 | 0 | 94 | 69 | 0 | 4,902 |
| LUTHERAN SCH OF THEOLOGY | 23 131 | 0 | 0 | 0 | 0 | C | ō | Ō | 131 |
| MACCORMAC COLLEGE MacMurray College | 312 | ō | ō | 0 | 0 | 0 | 0 | 0 | 317. 14 |
| MALLINCKROOT COLLEGE MCCORMICK THEOL SEM | 14 27 | 0 | 0 | 0 | 0 | 0 | . 0 | . 0 | 27 18 |
| MCHENRY COUNTY COLLEGE | 78 | 0 | 0 | 0 | | 0 | 8 | 0 | 15946 |
| MCKENDREE COLLEGE Hillikin University | 1,446 367 | ō | 0 | 0 | | 0 | 0 | 0 | 367 447 |
| MONMOUTH COLLEGE MORAINE VALLEY SOMM COLL | 447 348 | . 0 | . 0 | . 0 | _ | 0 | 0 | 0 | 34B . |
| MORTON COLLEGE | 86 | 0 | 0 | 0 | | · O · | . 0 | 0 | 86 595 |
| MUNDELEIN COLLEGE NAT COL OF CHIROPRACTICS | 595 47 | . 0 | . 0 | 0 | 0 | 0 | 0 | 0 | 47 476 |
| NATIONAL COLLEGE OF EOUC NILES COLLEGE | 476 43 | 0 | 0 | 0 | . 0 | 0 - | 0 | 0 | 43 184 |
| NORTH CENTRAL COLLEGE | 184 708 | 0 | 0 | . 0 | _ | 0 | 0 | 0 | 702 |
| NORTH PARK COL THEOL SEM NORTHEASTERN ILL UNIV | 3.355 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3,355 20 |
| NORTHERN BAPT THEOL SEM NORTHERN ILLINDIS UNIV | 20 - 6,560 | 0 1,536 | 1,209 | . 0 | 23 | . 227 | | . 77 159 | 5,024 7,900 |
| NORTHWESTERN UNIVERSITY | 38,401 72 | 30,501 0 | ₹6,63 € | 1 - 174 0 | 340 | 1.861 | 332 9 | 0 | 72 |
| DAKTON COMMUNITY COLLEGE OLIVET NAZARENE COLLEGE | 1,065 | 0 | ¢ | . 0 | | 0 | 0 | 0 | |
| PARKLAND COLLEGE PRAIRIE STATE COLLEGE | 676 592 | . 0 | ් ව ර | ō | 0 | - 0 | 2 | , 0 | |
| PRINCIPIA COLLEGE | 518 | 0 | | 0 | | • 0 | 0 | 0 | 518 |
| QUINCY COLLEGE Reno lake Col | 222 | Š | . 0 | | 0 | 0 | 0 0 | 0 | |
| RICHLAND CHTY COL ROBERT MORRIS COL (ILL) | . 150 539 | · 0 | 0 | (| Ō | 0 | 0 | 0 | |
| ROCK VALLEY COLLEGE | 316 2,003 | 0 | | C C | | 0 | 0 | 0 | 2.003 |
| RODSEVELT UNIVERSITY ROSARY COLLEGE | 4 C 8 | 0 | Ö | č | 9 | 0 | 0 103 | 0 | |
| RUSH UNIVERSITY S ILLINDIS U EDWARDSVILL | 5,863 4,736 | 4,567 290 | 174 | Ġ | 0 | 91 | 0 | 25 | 4,446 |
| SANGAMON STATE UNIVERSIT | | 69 | | 0 | _ | 14 | 10 0 | 45 | 396 |
| SAUK VALLEY COLLEGE SCHOOLS OF THE ART INST | 989 | Ō | 0 | | 0 | 0 | 0 | 0 | |
| SHAWNER COLLEGE SHIMER COLLEGE | 196 83 | 0 | Ō | . (| 5 0 | 0 | 0 | Ō | 83 |
| SOUTHEASTERN ILLINOIS CO | L 207 | 2,773 | | (| | 966 | 0 132 | . 88 | 6,985 |
| SOUTHERN ILL U-CARBONDAL SOUTHRN ILL UNIV SYS OFF | 30 | 29 | . 29 | | 0 | . 0 | 0 | 0 | |
| SPERTUS COLL OF JUDAICA SPOON RIVER COLLEGE | 104 60 | 0 | | : (| - | ŏ | 0 | | |
| 3, 55 | | | | | | | | | |

TABLE B-32. FEDERAL OBLIGATIONS TO UNIVERSITIES AND COLLEGES, BY STATE, INSTITUTION, AND TYPE OF ACTIVITY: FY 1978 CONTINUED (DOLLARS IN 1HOUSANDS)

| | | | | A | CADEMIC SCI | ENCE | | | |
|--|---|--|---|---|---|---|---|---|---|
| STATE & INSTITUTION | TOTAL, ALL | TOTAL ACADEMIC SCIENCE | RESEARCH AND DEVELOPMENT | R ÉD Plant | FACIL FOR INSTR IN SCI & ENG | FELLOWSHIPS TRAINEESHIPS TRNG GRANTS | GENERAL SUPPORT | OTHER SCIENCE | NDN- SCIENCE |
| ILLINDIS, CONT.D | | | | | | | | | |
| SPRINGFIELD COL IN ILL ST XAVIER COLLEGE STATE COMMUNITY COLLEGE THORNTON COMMUNITY COLL TRINITY CHRISTIAN COL TRINITY COLLEGE TRINITY EVANGEL DIV SCHL TRITON COLLEGE UNITON COLLEGE UNITO OF ILL CHICAGO CIR UNIV OF ILL HED CTR CHGO UNIV OF ILL HED CTR CHGO UNIV OF ILL UNGANA UNIV OF ILL UNGANA UNIV OF ILL UNGANA UNIV OF ILL UNIS SYS OFF UNIVERSITY OF CHICAGO HAUBONSEE COMMUNITY COL HESTERN ILLINOIS UNIV HHEATON COLLEGE WILLIAM RAINEY HARPER COL | 22 490 1,444 617 94 393 33 1,134 1,680 10,482 19,835 58,840 1,601 61,262 336 2,056 605 244 | 0 0 0 0 0 0 0 193 542 4,719 8,659 53,010 0 17 0 | 0 0 0 0 0 0 0 5 5 14 4,376 7,924 42,947 755 48,984 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 197 498 1.760 0 5.551 0 | 0 0 0 0 0 0 0 188 28 93 237 399 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 22 490 1,444 617 94 393 33 941 1,138 5,763 1,176 5,830 817 5,832 336 2,039 605 244 |
| INDIANA, TOTAL | 120,287 | 65,481 | 54,955 | | | | 900 | . 01302 | 10 |
| ANCILLA DOMINI COLLEGE ANDERSON COLLEGE BALL STATE UNIVERSITY BETHEL COLLEGE BUTLER UNIVERSITY CHRISTIAN THEOL SEM DE PAUH UNIVERSITY EARLHAP COLLEGE FORT HAYNE BIBLE COL FRANKLIN COL OF INDIANA GOSHEN COLLEGE HOLY CROSS JR CCLLEGE HUNTINGTON COLLEGE HUNTINGTON COLLEGE IND N GRAD SCH PROF MGHT IND U REG CAMP SYS INO U-PURDUE U FORT HAYNE IND VOC TECH COLLEGE INDIANA ENTRAL UNIV INDIANA INSTITUTE OF TECH INDIANA STATE UNIVERSITY INDIANA U-PURDUE U INDPLS INDIANA U-PURDUE U INDPLS INDIANA U-PURDUE U FORTS INDIANA U-PURDUE U FORTS INDIANA U-PURDUE U FORTS INDIANA U-PURDUE U FORTS INDIANA U-PURDUE U FORTS INDIANA U-PURDUE U FORTS INDIANA U-PURDUE U FORTS INDIANA U-PURDUE U FORTS INDIANA U-PURDUE U FORTS INDIANA U-PURDUE U-FORTS INDIANA U-PURDUE U-FORTS INDIANA U-PURDUE U-FORTS INDIANA U-PURDUE U-FORTS INDIANA U-PURDUE U-FORTS INDIANA U-PURDUE U-FORTS INDIANA U-PURDUE U-FORTS INDIANA U-FORTS INTO COLLEGE ST HEINFAD C | 10 1,244 3,933 162 123 534 597 235 190 533 319 75 24 2,384 101 263 239 4,615 93 17,138 484 163 264 165 17,138 17,138 17,138 18,138 | 0 0 297 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 194 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 31 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 10 1,244 3,636 162 274 123 456 590 295 190 494 319 75 24 192 0 1,950 784 192 63 8,183 14,262 477 163 616 502 7,369 157 290 852 126 127 126 127 126 127 126 127 126 127 127 128 129 129 129 129 129 129 129 129 |
| WABASH COLLEGE | 58 82,763 | 42.573 | 33,536 | 4 | 406- | 2,328 | 476 | 5,823 | 40,190 |
| AHER INST OF BUSINESS AQUINAS INST OF THEOLOGY AREA SIX CC-ELISHORTH AREA SIX CC-ELISHORTH AREA SIX CC-HARSHALLTOWN BRIAR CLIFF COLLEGE BUENA VISTA COLLEGE CENTRAL UNIV OF IOWA CLARKE COLLEGE COL OF OSTEO MED & SURG CORNELL COLLEGE DES MOINES AREA CC-ANKENY DIVINE HORD COLLEGE DRAKE UNIVERSITY EASTERN IOWA COMM COLL GRACELAND COLLEGE GRAND VIEW COFLEGE GRAND VIEW COFLEGE GRAND VIEW COFLEGE HAMKEYE INST OF TECH INDIAN HILLS COMMUNITY CO IOWA CENTRAL CHTY COLLEGE IOWA ST U OF SCI & TECH IOWA HESLEYAN COLLEGE IOWA HESLEYAN COLLEGE IOWA HESLEYAN COLLEGE IOWA HESLEYAN COLLEGE IOWA HESLEYAN COMM COL | 211 19 317 250 905 509 782 338 564 809 419 799 146 522 2,260 335 874 343 275 434 445 499 560 379 | 0 0 0 0 0 0 0 0 12 14 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 000000000000000000000000000000000000000 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 000000000000000000000000000000000000000 | 0 0 0 0 0 0 0 0 14 0 7 7 0 0 0 0 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 211 19 317 250 905 509 782 326 550 809 390 799 146 522 2,073 874 343 244 435 495 495 560 |

| | | | 10000 | | | | | | |
|---|--|---|---|---|---|---|---|--|--|
| STATE & INSTITUTION | TOTAL, ALL ACTIVITIES | TOTAL ACADEMIC SCIENCE | RESEARCH AND DEVELOPMENT | R GO Plant | CADEMIC SCI FACIL FOR INSTR IN SCI & ENG | ENCE FELLOWSHIPS TRAINEESHIPS TRNG GRANTS | GENERAL SUPPORT FOR SCI | OTHER SCIENCE | NON- SCIENCE |
| 10HA, CONT'D | | | | | | | | | |
| KIRKHOOD COMMUNITY CCLL LORAS COLLEGE LUTHER COLLEGE MAMARISHI INTL UNIVERSITY MARYCREST COLLEGE MOUNT MERCY COLLEGE MOUNT ST CLARE COLLEGE N IOMA AREA CMTY COLLEGE NE IOMA VO TECH SCHOOL NORTHHESTERN COLLEGE NN IOMA VOCATIONAL SCHOOL OPEN BIBLE COLLEGE OTTUMNA HEIGHTS COLLEGE PAMMER JUNIOR CCLLEGE SIMPSON COLLEGE SIOUX EMPIRE COLLEGE SOUTHEASTRN CMTY COL | 1,751 525 1.103 352 286 595 517 41 357 251 341 95 58 101 191 338 199 | 17 0 93 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 5 0 73 0 0 0 0 0 0 0 0 | 000000000000000000000000000000000000000 | 000000000000000000000000000000000000000 | 12 0 0 0 0 0 0 0 0 0 0 | 000000000000000000000000000000000000000 | 0 | 1,734 5,25 1,010 352 %66 595 517 41 357 251 341 95 58 101 191 338 102 195 234 |
| SOUTHMESTERN CMTY COLLEGE ST AMBRDSE COLLEGE UNIV OF NORTHERN IDMA UNIVERSITY OF IDMA UPERSITY OF IDMA UPPER IDMA UNIVERSITY VENNARD COLLEGE HALDORF COLLEGE HARTBURG COLLEGE HARTBURG THEOL SEM HESTERN IDMA TECH HESTMAR COLLEGE HILLIAM PENN COLLEGE | 147) 238 2,224 367 37,326 379 130 284 477 18 317 579 451 | 0 8 46 0 27,208 0 0 0, 34 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 4 0 0 0 0 0 | 0 0 0 207 0 0 0 12 0 0 | 2,160 0 0 0 0 0 0 0 0 | 0 17 0 353 0 0 0 0 | 0 29 0 113 0 0 0 22 0 0 | 230 2,178 367 10,118 379 130 284 443 18 317 579 451 |
| KANSAS, TOTAL | 67,527 | 29,907 | 23,587 | 0 | 94 | 1,386 | 884 | 3,956 | 37,620 |
| ALLEN CO CHTY JUNIOR COL BAKER UNIVERSITY BARTON CNTY COMM JR COL BENEDICTINE COLLEGE BETHANY COLLEGE BUTLER COUNTY CHTY JR COL CENTRAL COLLEGE CLOUD COUNTY CHTY JR COL COFFEYVILLE CHTY JR COL COLBY CHTY COLLEGE COMLEY CO CHTY JUNIOR COL DONGELY CO CHTY JR COL DONGELY COLLEGE EMPORTA STATE UNIVERSITY FORT MAYS KANS STATE COL FORT SCOTT CHTY JR COL FRIENDS BIBLE COLLEGE FRIENDS UNIVERSITY GARDEN CITY CHTY JR COL HASKELI INDIAN JR COLLEGE HIGHLAND CHTY JR COL INDEPENDENCE CHTY JR COL INDEPENDENCE CHTY JR COL JOHNSON CO COMMUNITY COLL KANS CTY KANS CHTY JR COL KANS CTY KANS CHTY JR COL | 125 725 159 574 634 647 351 228 233 270 215 199 232 670 2,079 1,307 277 26 318 355 131 693 238 541 203 371 497 | 0 0 0 22 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 000000000000000000000000000000000000000 | 0 0 0 22 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 1 25 7 25 7 25 7 25 7 25 7 25 8 34 6 47 3 51 2 28 2 23 2 27 2 15 1 28 2 6 7 7 2 17 2 17 2 27 2 27 3 18 3 55 1 09 6 84 2 38 2 38 2 39 2 39 2 4 2 39 2 6 3 4 2 7 6 3 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 |
| KANS ST U — AG & APP SCI KARSAS—NEHMAN COLLEGE KANSAS TECHNICAL ILST KANSAS TECHNICAL ILST KANSAS TECHNICAL ILST KANSAS HESLEYAN LABETTE CHIT JR COLLIJE HANHATTAN CHITSTIAN COL HARYHOUNT CGL PS ANSAS MCPHERSON CENTROS HID-AHERICA MARRIES JR COL DITAMA UNIVERSITY PITTSBURG STATE UNIV PRATT CHTY JR COLLEGE SEMARD CO COMMUNTY JR COL SOUTHWESTERN COLLEGE ST JOHN'S COLLEGE ST HARY OF THE PLAINS COL STERLING COLLEGE TABOR COLLEGE UNIVERSITY OF KANSAS HASHBURN UNIV OF TOPEKA HICHITA STATE UNIVERSITY | 640 1,446 213 100 380 57 386 | 11.072 00 00 00 00 117 00 00 01 22 76 00 00 00 01 01 01 01 01 01 01 01 01 01 | 7,227 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 13 16,179 10 | | | 105 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 83 0 0 0 0 116 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 450 100 328 111 137 654 392 75 640 1,434 137 100 380 57 386 335 348 436 9,459 1,177 2,838 |
| KENTUCKY, TOTAL | 73,190 | 26,108 | 16,361 | | 212 | 862 | 1.081 | 7,588 | 47,082 |
| ALICE LLDYD COLLEGE ASBURY COLLEGE ASBURY THEOL SEMINARY BELLARPINE COLLEGE BEREA COLLEGE BRESCIA COLLEGE CAMPBELLSVILLE COLLEGE | 498 398 92 454 1,988 485 620 | 0 0 0 264 0 0 | 0 0 0 0 0 14 | (| | 0 0 0 0 0 | 0 0 0 0 250 0 | 0 0 0 0 0 | 498 398 92 454 1.724 485 620 |

(DOLLARS IN THOUSANDS)

| STATE & INSTITUTION | TOTAL, ALL | TOTAL ACADEHIC SCIENCE | RESEARCH AND DEVELOPMENT | R &D Plant | CADEMIC SCII FACIL FOR INSTR IN SCI & ENG | ENCE FELLDHSHIPS TRAINEESHIPS TRNG GRANTS | GENERAL SUPPORT FOR SCI | OTHER SCIENCE | NDN- SCIENCE |
|--|--|--|--|---|--|--|---|---|--|
| KENTUCKY, CONT'D | | | | | | | | | |
| CENTRE COL OF KENTUCKY CUMBERLAND COLLEGE ESTRN KENTUCKY UNIVERSITY GEGRGETOHN COLLEGE KENTUCKY CHRISTIAN COLLEGE LESTR COLLEGE LINDSEY HILSON COLLEGE LINDSEY HILSON COLLEGE LOUISVILLE PRES THEOL SEM MIDHAY COLLEGE MOREHEAD STATE UNIVERSITY MURRAY STATE UNIVERSITY MURRAY STATE UNIVERSITY NORTHERN KENTUCKY UNIV PIKEVILLE COLLEGE SEMINARY OF ST PIUS X SOUTHEASTN CHRISTIAN COL SPALDING COLLEGE SUE BENNETT COLLEGE TCATHERINE COLLEGE THOMAS HORE COLLEGE THOMAS HORE COLLEGE THOMAS HORE COLLEGE THOMAS HORE COLLEGE UNIVERSITY OF KENTUCKY UNIVERSITY OF KENTUCKY UNIVERSITY OF LOUISVILLE MATTERSON COLLEGE MESTERN KENTUCKY UNIV | 287 1,772 4,238 402 323 4,542 400 1,086 149 57 3,398 2,955 1,377 900 82 42 497 115 145 643 296 416 31,988 8,162 786 3,256 | 20 36 0 0 2,101 18 0 0 0 117 90 0 0 17 0 40 0 19,721 3,513 0 171 | 12 0 0 0 1.210 8 0 0 0 0 93 24 0 0 0 0 0 0 0 17 0 0 0 | 000000000000000000000000000000000000000 | 00000000000000000000000000000000000000 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 8 0 0 0 0 0 0 10 0 0 0 21 22 0 0 0 0 0 0 | 267 1,772 4,202 4,02 323 2,441 1,086 149 57 3,281 2,865 1,377 900 82 497 98 145 603 296 416 12,267 4,649 7,869 |
| LOUISIANA, TOTAL | 94,428 | 32,893 | 24.516 | 0 | 157 | 1,079 | 1,602 | 5,539 | 61,535 |
| BOSSIER PARISH CHTY COLL CENTENARY COL OF LA OELGADO COLLEGE DILLARD UNIVERSITY GRAMBLING STATE UNIV LA ST UNIV SYSTEM OFFICE LOUISIANA COLLEGE LOUISIANA STATE UNIV LOUISIANA STATE UNIVERSITY LOYOLA UNIV - NEM ORLEANS MCNEESE STATE UNIVERSITY NICHOLLS STATE UNIVERSITY NORTHEAST LOUISIANA UNIV NORTHEAST LOUISIANA UNIV LOUISIANA STATE UNIVERSITY NORTHEAST LOUISIANA UNIV NORTHEAST LOUISIANA UNIV LADY HOLY CROSS COL CUL LADY HOLY CROSS COL SAINT BERNARD PARISH CC SOUTHEASTERN LA UNIV SOUTHERN U C ARP COLLEGE SOHELA TECH INST ST JOSEPH SEMINARY ST MARY'S DOMINICAN COL TULANE UNIVERSITY UNIVERSITY OF NEW ORLEANS XAVIER UNIVERSITY OF LA | 77 179 3,203 2,168 4,503 2,506 27,901 2,642 1,214 1,215 1,140 3,615 1,570 3,494 179 313 13,628 4,152 4,792 5,851 | 0 0 45 108 367 21 0 0 19,614 260 52 0 227 13 0 0 0 4 2,281 0 0 0 0 8,319 176 831 346 | 0 0 0 0 0 13,799 224 210 45 0 0 0 0 0 1,519 0 0 7,753 100 756 74 | 000000000000000000000000000000000000000 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | C 0 45 0 0 0 0 0 445 0 0 0 0 0 0 0 0 0 0 | 0 0 108 348 9 0 327 0 0 0 58 0 0 0 265 0 0 213 6 16 261 | 0 0 0 19 21 0 4.956 0 7 0 10 18 0 0 0 0 423 0 0 24 | 77 179 3.158 2.060 4.136 506 8.287 2.418 954 1.163 3.388 1.552 289 1.746 11.213 1.796 3.313 5.309 3.976 5.505 |
| MAINE, TOTAL | 28,439 | 5,970 | 3,789 | 0 | 47 | 105 | 314 | 1,715 - | 22,469 |
| BANGOR THEOL SEMINARY BATES COLLEGE BONDOIN COLLEGE COLLEGE COLLEGE THE ATLANTIC HUSSON COLLEGE MAINE MARITIME ACADEMY NASSON COLLEGE NORTHRN ME VOC TECH INST PORTLAND SCHOOL OF ART RICKER COLLEGE SOUTHERN ME VOC TECH INST ST JOSEPH'S COLLEGE UNITY COLLEGE UNITY COLLEGE UNITY COLLEGE UNITY DE MAINE GROND UNIV OF MAINE SYSTEM OFF UNIV OF MAINE SYSTEM OFF UNIV OF MAINE, FARMINGTON UNIV OF MAINE, FARMINGTON UNIV OF MAINE, FORT KENT UNIV OF MAINE, FORT KENT UNIV OF MAINE, FORT KENT UNIV OF MAINE, FORT KENT UNIV OF MAINE, FORT KENT UNIV OF MAINE, FORT KENT UNIV OF MAINE, FORT KENT UNIV OF MAINE, FORT KENT UNIV OF MAINE, FORT KENT UNIV OF MAINE, FORT KENT UNIV OF MAINE, FORT KENT UNIV OF MAINE, FORT KENT UNIV OF MAINE, FORT KENT UNIV OF STHRN MAINE HESTBROOK COLLEGE | 95 536 654 396 169 1.071 241 145 278 233 5: 291 315 517 640 1.167 11.621 100 993 1.636 338 755 290 5.584 323 | 0 219 60 60 2 84 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 84 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | 0 16 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 000000000000000000000000000000000000000 | 0 199 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 95 317 594 394 85 1.071 241 145 278 233 315 517 640 1,167 6,500 993 1,636 338 755 290 323 |
| MARYLAND: TOTAL | 308,507 | 247,411 | 235,404 | 59 | 945 | 6.016 | 1,453 | 3,534 | 61,096 |
| ALLEGARY COMMUNITY COL ANNE ARUNDEL CHTY COLLEGE BAY COLLEGE OF MARYLAND BOMIE STATE COLLEGE CAPITOL INST OF TECH CATONSVILLE CHTY COL CECIL COMMUNITY COLLEGE | 673 342 1,503 1,355 71 1,197 | 2 0 95 0 6 | 0 0 0 63 0 5 | 0 0 0 0 0 | 0 0 0 0 0 | 2 0 0 32 0 1 | 0 0 0 0 0 | 0 0 0 0 0 | 671 342 1,503 1,260 71 1,191 124 |

(DOLLARS IN THOUSANDS)

| | | | | A(| ADEMIC SCI | ENCE | | | |
|--|--|--|--|---|--|---|---|--|--|
| STATE & INSTITUTION | TOTAL, ALL | TOTAL ACADEMIC SCIENCE | RESEARCH AND DEVELOPHENT | R&D PLANT | FACIL FOR INSTR IN SCI & ENG | FELLOWSHIPS TRAINEESHIPS TRNG GRANTS | GENERAL SUPPORT | OTMER SCIENCE | NON- SCIENCE |
| HARYLAND, CONT'D | | | | *** | | | | | |
| CHARLES CNTY CHTY COLLEGE | 462 | 335 | 63 | 0 | 0 | 272 0 | 0 | 0 | 127 280 |
| CMESAPEAKE COLLEGE CMTY COLLEGE OF BALTIMORE | 280 5.604 | 0 | 0 0 | 0 | 0 | ō | 0 | 0 | 5,604 |
| COL OF NOTRE DAME OF HD | 143 | 8 | 0 | 0 | 8 0 | 0 | 0 | 0 | 135 363 |
| COLUMBIA UNION COLLEGE COPPIN STATE COLLEGE | 363 3,928 | 0 141 | 0 49 | ŏ | Ö | 92 | 0 | 0 | 3,787 451 |
| DUNDALK COMMUNITY COLLEGE | 451 1,170 | 0 234 | 0 | 0 | 0 | 0 0 | 0 234 | ŏ | 936 |
| ESSEX COMMUNITY COLLEGE FREDERICK CHTY COLLEGE | 120 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | I 20 854 |
| FROSTBURG STATE COLLEGE GARRETT COMMUNITY COLLEGE | 854 121 | 0 | 0 | 0 | ō | Ō | 0 | Ō | 121 |
| GOUCHER COLLEGE | 379 235 | 28 0 | 28 0 | 0 | 0 | 0 | 0 | 0 | 351 235 |
| HAGERSTOWN JR COLLEGE Harford Community College | 478 | 5 | 5 | Ō | 0 | 0 | 0 250 | 0 15 | 473 1,352 |
| HODO COLLEGE HOWARD CNTY CHTY COLLEGE, | 1,617 292 | 265 75 | 0 | 0 | 0 | 75 | 0 | 0 | 217 |
| JOHNS MOPKINS UNIVERSITY 1 | 212.866 | 202,533 | 196,081 0 | 21 0 | 846 0 | 4.826 0 | 542 0 | 217 0 | 10,333 268 |
| LOYDLA COLLEGE MARYLAND COL ART & DESIGN | 268 17 | 0 | 0 | 0 | ō | 0 | 0 | 0 | 17 506 |
| MARYLAND INST CCL OF ART | 506 1,679 | 0 9 | 0 8 | 0 | 0 I | 0 | 0 | 0 | 1,670 |
| MONTGOMERY COL-ROCKVILLE Morgan State University | 5.281 | 103 | 50 0 | 0 | 9 | 49 0 | 0 | 0 | 5,178 144 |
| HOUNT ST HARY'S COLLEGE • NER ISRAEL RABBINICAL COL | 144 108 | 0 | 0 | 0 | Ō | 0 | 0 | 0 | 108 |
| PEABODY INST-J MOPKINS U | 199 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 199 1,328 |
| PRINCE GEORGE'S CHTY COL SALISBURY STATE COLLEGE | 1,328 696 | 0 | Ō | 0 | 0 | 0 | . 0 | 0 | 696 423 |
| ST JOHN'S COLLEGE ST JOSEPH COL (HO) | 560 1 | 137 0 | 137 0 | 0 | ŏ | Ŏ | Ō | Ō | 1 |
| ST MARY'S COLLEGE OF MD | 181 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 181 19 |
| ST MARY'S SEM & UNIV Towson state university | 19 2,014 | 166 | 117 | 0 | 12 | 0 | 0 27 | 37 26 | 1,848 |
| U OF HO BALTIHORE COUNTY U OF MD EASTERN SHORE | 2,511 2,922 | 750 1,176 | 684 640 | 9 | 0 | 13 0 | 147 | 389 | 1,746 |
| UNIV OF MARYLAND SYS OFF | 2,163 | 1,556 | 1.535 | 0 | 0 | 0 234 | 0 144 | 21 0 | 607 6,497 |
| UNIV OF HO BALT PROF SCH UNIV OF HO COLLEGE PARK | 23,467 28,562 | 16,970 22,787 | 16,592 19,347 | 38 | 54 | 410 | 109 | 2,829 0 | 5,773 459 |
| UNIVERSITY OF BALTIMORE | 459 193 | · 0 | 0 | 0 | 0 | 0 | ō | ō | 193 |
| VILLA JULIE COLLEGE Wasm Bible College | 148 | Ō | 0 | 0 | 0 20 | 0 | . 0 | 0 | 148 63 |
| WASMINGTON COLLEGE Western Maryland College | 83 301 | 20 10 | 0 | ō | 0 | 10 | ō | 0 | 291 69 |
| | | | | | 0 | | 0 | | |
| WOR-WIC TECH CHTY COLLEGE | 69 | 0 | 0 | 0 | U | 0 | _ | | |
| WOR-WIC TECH CHTY COLLEGE Massachusetts, Total | 430,892 | 305,500 | 268,109 | 9,335 | 1,952 | 16,347 | 2.748 | 7,009 | 125,392 |
| WOR-WIC TECH CHTY COLLEGE MASSACHUSETTS. TOTAL AMERICAN INTERNATL COL | | | | 9,335 0 0 | 1,952 0 0 | 16,347 0 0 | 2.748 0 19 | 7,009 0 7 | 125,392 614 533 |
| WOR-HIC TECH CHTY COLLEGE HASSACHUSETTS. TOTAL AMERICAN INTERNATL COL AMMERST COLLEGE ANDOVER NEWTON THEOL SCH | 430,892 614 1,208 131 | 305,500 0 675 0 | 268,109 0 649 0 | 9,335 | 1,952 | 16,347 0 | 2.748 | 7,009 0 7 0 | 125,392 614 533 131 317 |
| WOR-HIC TECH CHTY COLLEGE MASSACHUSETTS, TOTAL AMERICAN INTERNATL COL AMMERST COLLEGE ANDOVER NEWTON THEOL SCM ANNA HARIA COLLEGE AQUINAS JR COLL HILTON | 430,892 614 1,208 131 317 261 | 305,500 0 675 0 0 | 268,109 0 649 0 0 | 9,335 0 0 0 0 | 1,952 0 0 0 0 | 16,347 0 0 0 0 | 2.748 0 19 0 0 | 7,009 0 7 0 0 | 125,392 614 533 131 317 261 |
| WOR-HIC TECH CHTY COLLEGE HASSACHUSETTS. TOTAL AMERICAN INTERNATL COL AMMERST COLLEGE ANDOVER NEWTON THEOL SCH ANNA HARIA COLLEGE AQUINAS JR COLL HILTON ASSUMPTION COLLEGE | 430,892 614 1,208 131 317 | 305,500 0 675 0 | 268,109 0 649 0 | 9,335 0 0 0 | 1,952 0 0 0 0 0 | 16,347 0 0 0 0 0 0 344 0 | 2.748 0 19 0 0 0 | 7.009 0 7 0 0 0 | 125,392 614 533 131 317 261 708 444 |
| WOR-HIC TECH CHTY COLLEGE MASSACHUSETTS, TOTAL AMERICAN INTERNATL COL AMMERST COLLEGE ANDOVER NEWTON THEOL SCH ANNA MARIA COLLEGE AQUINAS JR COLL MILTON ASSUMPTION COLLEGE ATLANTIC UNION COLLEGE BABSON COLLEGE | 430,892 614 1,208 131 317 261 1,052 444 175 | 305,500 0 675 0 0 0 344 0 | 268,109 0 649 0 0 0 | 9,335 0 0 0 0 0 | 1,952 0 0 0 0 0 0 | 16,347 0 0 0 0 0 0 | 2.748 0 19 0 0 0 | 7,009 0 7 0 0 0 | 125,392 614 533 131 317 261 708 444 175 |
| WOR-HIC TECH CHTY COLLEGE HASSACHUSETTS, TOTAL AMERICAN INTERNATL COL AMMERST COLLEGE ANDOVER NEHTON THEOL SCH ANNA HARIA COLLEGE AQUINAS JR COLL HILTON ASSUMPTION COLLEGE BATHANTIC UNION COLLEGE BABSON COLLEGE BAY PATH JR COLLEGE BAY STATE JR COLL BUSINESS | 430,892 614 1,208 131 317 261 1,052 444 175 175 | 305,500 0 675 0 0 344 0 0 | 268,109 0 649 0 0 0 0 | 9,335 0 0 0 0 0 0 0 0 | 1,952 0 0 0 0 0 0 0 | 16,347 0 0 0 0 0 0 344 0 0 | 2.748 0 19 0 0 0 0 | 7.009 0 7 0 0 0 0 | 125,392 614 533 131 317 261 708 444 175 175 758 |
| WOR-HIC TECH CHTY COLLEGE HASSACHUSETTS. TOTAL AMERICAN INTERNATL COL AMMERST COLLEGE ANDOVER NEHTON THEOL SCM ANNA MARIA COLLEGE AQUINAS JR COLL HILTON ASSUMPTION COLLEGE BASSON COLLEGE BABSON COLLEGE BAY PATH JR COLLEGE BAY STATE JR COL BUSINESS BECKER JR COL - LEICESTER | 430,892 614 1,208 131 317 261 1,052 444 175 175 758 | 305,500 0 675 0 0 344 0 | 268,109 0 649 0 0 0 | 9,335 0 0 0 0 0 0 0 0 | 1,952 0 0 0 0 0 0 0 | 16,347 0 0 0 0 0 0 0 344 0 0 0 | 2.748 0 19 0 0 0 0 0 0 | 7,009 0 7 0 0 0 0 0 | 125,392 614 533 131 317 261 708 444 175 758 178 |
| WOR-HIC TECH CHTY COLLEGE MASSACHUSETTS. TOTAL AMERICAN INTERNATL COL AMMERST COLLEGE ANDOVER NEWTON THEOL SCM ANNA MARIA COLLEGE AQUINAS JR COLL MILTON ASSUMPTION COLLEGE ATLANTIC UNION COLLEGE BASON COLLEGE BAY PATM JR COLLEGE BAY STATE JR COL BUSINESS BECKER JR COL - HORCESTER BECKER JR COL - HORCESTER BECKER JC COLLEGE BETTLEY COLLEGE | 430,892 614 1,208 131 317 261 1,052 444 175 175 175 178 178 | 305,500 0 675 0 0 344 0 0 0 | 268,109 0 649 0 0 0 0 0 0 0 | 9,335 0 0 0 0 0 0 0 0 0 0 0 | 1,952 0 0 0 0 0 0 0 0 0 0 0 | 16,347 0 0 0 0 0 0 344 0 0 0 0 | 2.748 0 19 0 0 0 0 0 | 7,009 0 7 0 0 0 0 0 | 125,392 614 533 131 317 261 708 444 175 175 758 |
| WOR-HIC TECH CHTY COLLEGE HASSACHUSETTS, TOTAL AMERICAN INTERNATL COL AMMERST COLLEGE ANDOVER NEHTON THEOL SCM ANNA HARIA COLLEGE AQUINAS JR COLL HILTON ASSUMPTION COLLEGE BAY STATIC UNION COLLEGE BAY PATH JR COLLEGE BAY STATE JR COL BUSINESS BECKER JR COL - LEICESTER BECKER JR COL - HORCESTER BENTLEY COLLEGE BENTLEY COLLEGE BERKLEE COLLEGE | 430,892 614 1,208 131 317 261 1,052 444 175 175 175 175 178 | 305,500 0 675 0 0 0 344 0 0 0 0 0 | 268.109 0 649 0 0 0 0 0 0 0 0 0 0 | 9,335 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 1,952 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 16,347 0 0 0 0 0 0 344 0 0 0 0 0 | 2.748 0 19 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 7,009 | 125,392 614 533 131 317 261 708 444 175 175 175 178 171 1,234 950 80 |
| WOR-HIC TECH CHTY COLLEGE HASSACHUSETTS. TOTAL AMERICAN INTERNATL COL AMMERST COLLEGE ANDOVER NEWTON THEOL SCH ANNA HARIA COLLEGE AQUINAS JR COLL HILTON ASSUMPTION COLLEGE BASON COLLEGE BASON COLLEGE BAY PATH JR COLLEGE BAY STATE JR COL BUSINESS BECKER JR COL - LEICESTER BECKER JR COL - LEICESTER BECKER JR COL - LEICESTER BEKER JR COL - BERKER BERKLEE COLLEGE BERKLEE COLLEGE OF MUSIC SERKSHIRE CHTY COLLEGE | 430,892 614 1,208 131 317 261 1,052 444 175 175 758 178 171 1,384 950 80 | 305,500 0 675 0 0 344 0 0 0 0 0 150 | 268,109 0 649 0 0 0 0 0 0 0 0 0 0 0 0 0 0 150 | 9,335 0 0 0 0 0 0 0 0 0 0 0 0 | 1,952 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 16,347 0 0 0 0 0 344 0 0 0 0 | 2.748 0 19 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 7,009 | 125,392 614 533 131 317 261 708 444 175 175 758 178 171 1,234 950 80 339 52 |
| WOR-HIC TECH CHTY COLLEGE MASSACHUSETTS. TOTAL AMERICAN INTERNATL COL AMMERST COLLEGE ANDOVER NEWTON THEOL SCM ANNA MARIA COLLEGE AQUINAS JR COLL MILTON ASSUMPTION COLLEGE BASON COLLEGE BAY PATM JR COLLEGE BAY STATE JR COL BUSINESS BECKER JR COL - LEICESTER BECKER JR COL - HORCESTER BENTLEY COLLEGE BERKLEE COLLEGE BERKLEE COLLEGE BERKLEE CHISTIAN COL BERKSMIRE CHTY COLLEGE BLUE MILLS RGNL TECH INST | 430,892 614 1,208 131 317 261 1,052 444 175 758 178 178 171 1,384 950 80 339 52 | 305,500 0 675 0 0 344 0 0 0 0 150 0 0 | 268,109 0 649 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 9,335 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 1,952 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 16,347 0 0 0 0 0 0 344 0 0 0 0 0 0 0 162 | 2.748 0 19 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 7,009 | 125,392 614 533 131 317 261 708 444 175 175 758 178 171 1,234 950 80 339 |
| WOR-HIC TECH CHTY COLLEGE HASSACHUSETTS. TOTAL AMERICAN INTERNATL COL AMMERST COLLEGE ANDOVER NEHTON THEOL SCM ANNA MARIA COLLEGE AQUINAS JR COLL HILTON ASSUMPTION COLLEGE BASSON COLLEGE BASSON COLLEGE BAY PATH JR COLLEGE BAY STATE JR COL BUSINESS BECKER JR COL - HORCESTER BECKER JR COL - HORCESTER BECKER JR COL - HORCESTER BENTLEY COLLEGE BERKLEE COLLEGE BERKLEE COLLEGE BERKLEE COLLEGE BERKSHIRE CHTY COLLEGE BLUE HILLS RGNL TECH INST BOSTON CONSERV OF MUSIC | 430,892 614 1,208 131 317 261 1,052 444 175 758 178 171 1,384 950 80 339 | 305,500 0 675 0 0 0 0 344 0 0 0 0 0 0 150 | 268,109 0 649 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 9,335 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 1,952 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 16,347 0 0 0 0 0 0 344 0 0 0 0 0 162 | 2.748 0 19 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 7,009 0 7 0 0 0 0 0 0 0 0 0 0 0 0 18 | 125,392 614 533 131 317 261 708 444 175 175 178 171 1,234 950 80 339 52 6,368 174 2,710 |
| WOR-HIC TECH CHTY COLLEGE HASSACHUSETTS. TOTAL AMERICAN INTERNATL COL AMMERST COLLEGE ANDOVER NEWTON THEOL SCH ANNA HARIA COLLEGE AQUINAS JR COLL HILTON ASSUMPTION COLLEGE BASON COLLEGE BAY PATH JR COLLEGE BAY PATH JR COLLEGE BAY STATE JR COL BUSINESS BECKER JR COL - LEICESTER BECKER JR COL - LEICESTER BECKER JR COL - HORCESTER BENTLEY COLLEGE BERKLEE COLLEGE OF MUSIC SERKSHIRE CHTY COLLEGE BLUE HILLS RGNL TECH INST BOSTON CONSERV OF MUSIC BOSTON STATE COLLEGE BOSTON STATE COLLEGE | 430,892 614 1,208 131 317 261 1,052 444 175 758 178 171 1,384 950 80 339 52 10,260 174 2,710 36,948 | 305,500 0 675 0 0 344 0 0 0 0 150 0 3,892 0 22,160 | 268,109 649 0 0 0 0 0 0 150 0 0 3,652 | 9,335 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 1,952 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 16,347 0 0 0 0 0 344 0 0 0 0 0 0 162 | 2.748 0 19 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 7,009 0 7 0 0 0 0 0 0 0 0 0 0 0 18 0 0 131 | 125,392 614 533 131 317 261 708 444 175 175 758 178 171 1,234 950 80 339 52 6,368 174 2,710 14,788 108 |
| WOR-HIC TECH CHTY COLLEGE MASSACHUSETTS. TOTAL AMERICAN INTERNATL COL AMMERST COLLEGE ANDOVER NEWTON THEOL SCM ANNA MARIA COLLEGE AQUINAS JR COLL MILTON ASSUMPTION COLLEGE BAY PATH JR COLLEGE BAY PATH JR COLLEGE BAY STATE JR COL BUSINESS BECKER JR COL - LEICESTER BECKER JR COL - LEICESTER BECKER JR COL - HORCESTER GENTLEY COLLEGE BERKLE COLLEGE BERKLE COLLEGE BERKLE CHISTIAN COL BERKSMIRE CHTY COLLEGE BLUE MILLS RONL TECH INST BOSTON CONSERV OF MUSIC BOSTON STATE COLLEGE BOSTON UNIVERSITY BRADFORD COLLEGE BRANDEIS UNIVERSITY | 430,892 614 1,208 131 317 261 1,052 444 175 758 178 171 1,384 950 80 339 52 10,260 174 2,710 36,948 108 | 305,500 0 675 0 0 344 0 0 0 150 0 3.892 0 22.160 9.985 | 268,109 0 649 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 9,335 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 1,952 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 74 0 110 | 16,347 0 0 0 0 0 0 344 0 0 0 0 0 0 162 0 1,984 0 678 | 2.748 0 19 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 7,009 0 7 0 0 0 0 0 0 0 0 0 0 0 181 | 125,392 614 533 131 317 261 708 444 175 175 758 178 171 1,234 950 80 339 52 2,368 174 2,710 14,788 108 |
| MOR-HIC TECH CHTY COLLEGE MASSACHUSETTS. TOTAL AMERICAN INTERNATL COL AMMERST COLLEGE ANDOVER NEHTON THEOL SCM ANNA MARIA COLLEGE AQUINAS JR COLL HILTON ASSUMPTION COLLEGE BASSON COLLEGE BAY PATH JR COLLEGE BAY PATH JR COLLEGE BAY STATE JR COL - HORCESTER BECKER JR COL - HORCESTER BECKER JR COL - HORCESTER BENTLEY COLLEGE BERKLEE CGLLEGE OF HUSIC SERKSHIRE CHTISTIAN COL BERKSHIRE CHTY SOLLEGE BLUE HILLS RGNL TECH INST BOSTON CONSERV OF HUSIC BOSTON STATE COLLEGE BOSTON STATE COLLEGE BOSTON CONSERV OF HUSIC BOSTON STATE COLLEGE BOSTON STATE COLLEGE BRANDEIS UNIVERSITY BRADFORO COLLEGE BRANDEIS UNIVERSITY | 430,892 614 1,208 1,317 261 1,052 444 175 758 178 171 1,384 950 80 339 52 10,260 174 2,710 36,948 1069 1,203 | 305,500 0 675 0 0 0 344 0 0 0 0 150 0 0 3.892 0 22.160 | 268,109 0 649 0 0 0 0 0 0 0 150 0 0 0 0 0 0 0 0 0 0 0 | 9,335 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 1,952 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 16,347 0 0 0 0 0 0 344 0 0 0 0 0 0 162 0 1,984 0 0 678 | 2.748 0 19 0 0 0 0 0 0 0 0 0 0 0 0 0 | 7,009 0 7 0 0 0 0 0 0 0 0 0 0 0 0 131 0 131 0 0 | 125,392 614 533 131 317 261 708 444 175 758 178 171 1,234 950 80 339 52 1,368 1,74 2,710 14,788 1,084 1,203 1,175 |
| MOR-HIC TECH CHTY COLLEGE HASSACHUSETTS. TOTAL AMERICAN INTERNATL COL AMMERST COLLEGE ANDOVER NEWTON THEOL SCH ANNA HARIA COLLEGE AQUINAS JR COLL HILTON ASSUMPTION COLLEGE BASON COLLEGE BAY PATH JR COLLEGE BAY PATH JR COLLEGE BAY STATE JR COL DUSINESS BECKER JR COL - LEICESTER BECKER JR COL - LEICESTER BECKER JR COL - HORCESTER BEKER COLLEGE BERKLEE COLLEGE OF MUSIC SERKSHIRE CHTY COLLEGE BLUE HILLS RGNL TECH INSI BOSTON COLLEGE BOSTON STATE COLLEGE BOSTON STATE COLLEGE BOSTON STATE COLLEGE BOSTON UNIVERSITY BRADFORD COLLEGE BRADEIS UNIVERSITY BRIDGEMATER STATE COLLEGE BRISTOL CHTY COLLEGE BRISTOL CHTY COLLEGE BRISTOL CHTY COLLEGE BRISTOL CHTY COLLEGE | 430,892 614 1,208 131 317 261 1,052 444 175 175 758 178 171 1,384 950 80 339 52 10,260 174 2,710 36,248 108 11669 1,203 1,175 2,006 | 305,500 0 675 0 0 344 0 0 0 0 150 0 0 3.892 0 22.160 0 9.985 | 268,109 0 649 0 0 0 0 0 0 0 150 0 0 3,652 0 19,726 9,040 | 9,335 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 1.952 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 16,347 0 0 0 0 0 344 0 0 0 0 0 0 162 0 1,984 0 678 | 2.748 0 19 0 0 0 0 0 0 0 0 0 0 0 0 0 | 7,009 0 7 0 0 0 0 0 0 0 0 0 0 0 18 10 13 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 125,392 614 533 131 317 261 708 444 175 175 758 178 171 1,234 950 80 339 52 6.368 168 174 2,710 14,788 1,684 1,203 1,175 2,001 132 |
| WOR-HIC TECH CHTY COLLEGE MASSACHUSETTS. TOTAL AMERICAN INTERNATL COL AMMERST COLLEGE ANDOVER NEWTON THEOL SCM ANNA MARIA COLLEGE AQUINAS JR COLL HILTON ASSUMPTION COLLEGE BAY PATM JR COLLEGE BAY PATM JR COLLEGE BAY STATE JR COL BUSINESS BECKER JR COL - LEICESTER BECKER JR COL - HORCESTER BENTLEY COLLEGE BERKLE COLLEGE BERKLE COLLEGE BERKSHIRE CHTISTIAN COL BERKSHIRE CHTISTIAN COL BERKSHIRE CHTISTIAN COL BERKSHIRE CHTISTIAN COL BERKSHIRE CHTISTIAN COL BERKSHIRE CHTISTIAN COL BOSTON COLLEGE BUSTON CONSERV OF MUSIC BOSTON COLLEGE BOSTON UNIVERSITY BRODGEMATER SYATE COLLEGE BRANDEIS UNIVERSITY BRIDGEMATER SYATE COLLEGE BRISTOL CHTY COLLEGE | 430,892 614 1,208 131 317 261 1,052 444 175 758 178 171 1,384 950 80 339 52 10,260 174 2,710 36,948 10,669 1,203 1,175 2,006 132 609 | 305,500 0 675 0 0 344 0 0 0 0 150 0 3.892 0 22.160 9.985 0 | 268,109 0 649 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 9,335 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 1,952 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 16,347 0 0 0 0 0 0 344 0 0 0 0 0 0 1,984 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 2.748 0 19 0 0 0 0 0 0 0 0 0 0 0 0 0 | 7,009 0 7 0 0 0 0 0 0 0 0 0 0 0 0 131 0 0 0 0 0 0 | 125,392 614 533 131 317 261 708 444 175 758 178 171 1,234 950 80 339 52 2,368 174 2,710 14,788 108 1,684 1,203 1,175 2,001 132 604 |
| WOR-HIC TECH CHTY COLLEGE HASSACHUSETTS. TOTAL AMERICAN INTERNATL COL AMMERST COLLEGE ANDOVER NEWTON THEOL SCH ANNA HARIA COLLEGE AQUINAS JR COLL HILTON ASSUMPTION COLLEGE BASSON COLLEGE BAY STATE JR COL BUSINESS BECKER JR COL - LEICESTER BECKER JR COL - LEICESTER BECKER JR COL - LEICESTER BENTLEY COLLEGE BERKLEE COLLEGE OF MUSIC SERKSHIRE CHTY COLLEGE BLUE HILLS RGNL TECH INST BOSTON CONSERV OF HUSIC BOSTON STATE COLLEGE BOSTON STATE COLLEGE BOSTON STATE COLLEGE BOSTON STATE COLLEGE BRANDEIS UNIVERSITY BRADFORD COLLEGE BRANDEIS UNIVERSITY BRIDGEMATER STATE COLLEGE BRISTOL CHTY COLLEGE BUNGETT SCHOOL CAPE COD COMMUNITY COLLEGE | 430,892 614 1,208 131 317 261 1,052 444 175 758 178 171 1,384 950 80 339 52 10,260 174 2,710 36,948 108 11,669 1,203 1,175 2,006 132 604 132 | 305,500 0 675 0 0 0 344 0 0 0 0 150 0 0 3.892 0 22.160 0 9,985 | 268,109 0 649 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 9,335 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 1,952 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 16,347 0 0 0 0 0 0 0 344 0 0 0 0 0 0 162 0 0 1,984 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 2.748 0 19 0 0 0 0 0 0 0 0 0 0 0 0 0 | 7,009 0 7 0 0 0 0 0 0 0 0 0 0 0 131 0 0 131 0 0 0 0 | 125,392 614 533 131 317 261 708 444 175 758 178 171 1,234 950 80 339 52 C,368 174 2,710 14,788 1,203 1,175 2,001 132 604 1,495 |
| MOR-HIC TECH CHTY COLLEGE HASSACHUSETTS. TOTAL AMERICAN INTERNATL COL AMMERST COLLEGE ANDOVER NEWTON THEOL SCH ANNA HARIA COLLEGE AQUINAS JR COLL HILTON ASSUMPTION COLLEGE BASON COLLEGE BAY PATH JR COLLEGE BAY STATE JR COL BUSINESS BECKER JR COL - LEICESTER BECKER JR COL - LEICESTER BECKER JR COL - LEICESTER BENTLEY COLLEGE BERKLEE COLLEGE OF MUSIC SERKSHIRE CHTY COLLEGE BLUE HILLS RGNL TECH INST BOSTON CONSERV OF HUSIC BOSTON STATE COLLEGE BOSTON STATE COLLEGE BOSTON TONSERV OF HUSIC BOSTON STATE COLLEGE BRANDEIS UNIVERSITY BRADFORO COLLEGE BRANDEIS UNIVERSITY BRIDGEMATER STATE COLLEGE BUNGET SCHOOL CAPE COO COMMUNITY COLLEGE COMMUNITY SCHOOL CAPE COO COMMUNITY COLLEGE CHAMBERLAYNE JR COL CLARK UNIVERSITY | 430,892 614 1,208 1,317 261 1,052 444 175 758 178 171 1,384 950 80 339 52 10,260 174 2,712 36,748 1088 11,669 1,203 1,175 2,006 132 604 | 305,500 0 675 0 0 344 0 0 0 0 150 0 0 3.892 0 0 22,160 0 9,985 0 0 0 0 0 0 0 0 0 0 0 0 0 | 268,109 049 00 00 00 00 00 150 00 3,652 00 19,726 9,040 00 00 00 00 00 00 00 00 00 | 9,335 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 1,952 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 16,347 0 0 0 0 0 0 344 0 0 0 0 0 0 162 678 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 2.748 0 19 0 0 0 0 0 0 0 0 0 0 0 0 0 | 7,009 0 7 0 0 0 0 0 0 0 0 0 0 0 0 131 0 133 0 0 0 0 | 125,392 614 533 131 317 261 708 444 175 175 758 178 171 1,234 950 80 339 52 6,368 1,74 2,710 14,788 1,084 1,203 1,175 2,001 1,203 1, |
| MOR-HIC TECH CHTY COLLEGE HASSACHUSETTS. TOTAL AMERICAN INTERNATL COL AMMERST COLLEGE ANDOVER NEWTON THEOL SCM ANNA HARIA COLLEGE AQUINAS JR COLL MILTON ASSUMPTION COLLEGE BAY PATH JR COLLEGE BAY PATH JR COLLEGE BAY STATE JR COL BUSINESS BECKER JR COL - LEICESTER BECKER JR COL - LEICESTER BECKER JR COL - HORCESTER BECKER JR COL - HORCESTER BECKER JR COL - HORCESTER BECKER JR COL - HORCESTER BECKER JR COL - HORCESTER BECKER JR COL - HORCESTER BECKER JR COL - HORCESTER BECKER JR COL - HORCESTER BECKER JR COL - HORCESTER BECKER JR COL - HORCESTER BECKER JR COLLEGE BUSTON COLLEGE BUSTON COLLEGE BUJUE MILLS RGNL TECH INSI BOSTON CONSERV OF HUSIC BOSTON UNIVERSITY BRADFORD COLLEGE BRADEIS UNIVERSITY BRADFORD COLLEGE BRADEIS UNIVERSITY BRIDGEMATER STATE COLLEGE BUNGETT SCHOOL CAPCION COMMUNITY COL CARDINAL CUSHING COLLEGE CHAMBERLAYNE JR COL CLARK UNIVERSITY CNTRL N ENG COL OF TECH COL OF OUR LADY OF ELMS | 430,892 614 1,208 131 317 261 1,052 444 175 758 178 178 171 1,384 950 80 339 52 10,260 174 2,710 36,948 10,669 1,203 1,175 2,006 132 604 11 495 2,304 263 131 | 305,500 0 675 0 0 344 0 0 0 0 150 0 0 3.892 0 22.160 0 9.985 0 0 0 0 0 0 0 0 0 0 0 0 0 | 268,109 0 649 0 0 0 0 0 0 0 0 0 0 0 0 0 | 9,335 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 1,952 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 16,347 0 0 0 0 0 0 0 344 0 0 0 0 0 1,984 0 0 78 | 2.748 0 19 0 0 0 0 0 0 0 0 0 0 0 0 0 | 7,009 0 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 125,392 614 533 131 317 261 708 444 175 758 178 171 1,234 950 80 339 52 2,368 174 2,710 14,788 108 1,684 1,203 1,175 2,001 132 604 1,495 1,436 263 127 |
| MOR-HIC TECH CHTY COLLEGE HASSACHUSETTS. TOTAL AMERICAN INTERNATL COL AMMERST COLLEGE ANDOVER NEWTON THEOL SCH ANNA HARIA COLLEGE AQUINAS JR COLL HILTON ASSUMPTION COLLEGE BASSON COLLEGE BAY STATE JR COL BUSINESS BECKER JR COL - LEICESTER BECKER JR COL - LEICESTER BECKER JR COL - LEICESTER BENTLEY COLLEGE BERKLEE COLLEGE OF MUSIC SERKSHIRE CHTY COLLEGE BLUE HILLS RGNL TECH INST BOSTON CONSERV OF HUSIC BOSTON STATE COLLEGE BOSTON CONSERV OF HUSIC BOSTON STATE COLLEGE BOSTON STATE COLLEGE BRANDEIS UNIVERSITY BRADFORO COLLEGE BRANDEIS UNIVERSITY BRIDGEMATER STATE COLLEGE BUNGET ISCHOOL CAPE COD COMMUNITY COLLEGE BUNGET SCHOOL CAPE COD COMMUNITY COLLEGE CHAMBERLAYNE JR COL CLARK UNIVERSITY CNTRL N ENG COL OF TECH COL OF THE HOLY CROSS | 430,892 614 1,208 1,317 261 1,052 444 175 175 175 175 175 175 175 171 1,384 950 339 52 10,260 174 2,710 36,248 108 11,669 1,203 1,175 2,006 132 604 1 495 2,304 263 131 | 305,500 0 675 0 0 0 0 0 0 0 0 0 0 0 0 0 | 268,109 0 649 0 0 0 0 0 0 0 150 0 0 0 3,652 0 0 19,726 0 0 0 0 0 0 0 0 0 0 0 0 0 | 9,335 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 1,952 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 16,347 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 2.748 0 19 0 0 0 0 0 0 0 0 0 0 0 0 0 | 7,009 0 7 0 0 0 0 0 0 0 0 0 0 0 0 131 0 0 131 0 0 0 0 | 125,392 614 533 131 317 261 708 444 175 175 758 178 171 1,234 950 80 3399 52 1,368 1,74 2,710 14,788 1,203 1,175 2,001 132 604 1,203 1,175 2,001 132 604 1,203 1,175 2,001 132 604 1,203 1,175 2,001 132 604 1,203 1,175 2,001 132 604 1,203 1,175 2,001 132 604 1,203 1,175 2,001 132 1,175 2,001 |
| MOR-HIC TECH CHTY COLLEGE HASSACHUSETTS. TOTAL AMERICAN INTERNATL COL AMMERST COLLEGE ANDOVER NEWTON THEOL SCH ANNA HARIA COLLEGE AQUINAS JR COLL HILTON ASSUMPTION COLLEGE BABSON COLLEGE BAY PATH JR COLLEGE BAY PATH JR COLLEGE BAY STATE JR COL DUSINESS BECKER JR COL - LEICESTER BECKER JR COL - LEICESTER BECKER JR COL - LEICESTER BENTLEY COLLEGE BENTLEY COLLEGE BENTLEY COLLEGE BENTLEY COLLEGE BOSTON COLLEGE BUSTON COLLEGE BUSTON CONSERV OF HUSIC BOSTON CONSERV OF HUSIC BOSTON STATE COLLEGE BOSTON STATE COLLEGE BOSTON STATE COLLEGE BOSTON STATE COLLEGE BOSTON UNIVERSITY BRADFORD COLLEGE BRADEIS UNIVERSITY BRIDGEWATER STATE COLLEGE BUNKER HILL CC BURGETT SCHOOL CAPE COD COMMUNITY COLL CARDINAL CUSHING COLLEGE CMAMBERLAYNE JR COL CLARK UNIVERSITY COTREL N ENG COL OF TECH COL OF THE HOLY CROSS CURRY COLLEGE | 430,892 614 1,208 131 317 261 1,052 444 175 758 178 171 1,384 950 80 339 52 10,260 174 2,712 36,748 1,088 11,669 1,203 1,175 2,006 132 604 1 495 2,304 263 131 1,091 264 318 | 305,500 0 675 0 0 344 0 0 0 150 0 22,160 9,985 0 0 0 0 0 0 0 0 0 0 0 0 0 | 268,109 0 649 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 9,335 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 1.952 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 16,347 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 2.748 0 19 0 0 0 0 0 0 0 0 0 0 0 0 0 | 7,009 07 00 00 00 00 00 00 00 00 00 01 131 00 00 00 00 00 00 00 00 00 00 00 00 00 | 125,392 614 533 131 317 261 708 444 175 175 758 178 171 1,234 950 80 339 52 1,368 1,74 2,710 14,788 1,203 1,175 2,001 2,001 2,001 2,001 2,001 2,001 2,001 2,001 2,001 2,001 2, |
| MOR-HIC TECH CHTY COLLEGE MASSACHUSETTS. TOTAL AMERICAN INTERNATL COL AMMERST COLLEGE ANDOVER NENTON THEOL SCM ANNA MARIA COLLEGE AQUINAS JR COLL HILTON ASSUMPTION COLLEGE BAY PATH JR COLLEGE BAY PATH JR COLLEGE BAY STATE JR COL BUSINESS BECKER JR COL - HORCESTER BECKER JR COL - HORCESTER BECKER JR COL - HORCESTER BENTLEY COLLEGE BERKLEE CGLLEGE OF HUSIC GERKSHIRE CHTY SOLLEGE BUE HILLS RGNL TECH INST BOSTON COLLEGE BOSTON CONSERV OF MUSIC BOSTON STATE COLLEGE BOSTON STATE COLLEGE BRANDEIS UNIVERSITY BR IDGEMATER STATE COLLEGE BRANDEIS UNIVERSITY BR IDGEMATER STATE COLLEGE BUNKER HILL CC BURDETT SCHOOL CAPE COD COMMUNITY COL CAPE COD COMMUNITY COL CAPE COD COMMUNITY COL CAPE COD COMMUNITY COL CAPE COD COMMUNITY COL CAPE COD COMMUNITY COL CAPE COD COMMUNITY COL CAPE COD COMMUNITY COL CAPE COD COMMUNITY COL CAPE COD COMMUNITY COL CAPE COD COMMUNITY COL CAPE COD COMMUNITY COL CAPE COD COMMUNITY COL CAPE COD COMMUNITY COL CAPE COD COMMUNITY COL CAPE COD COMMUNITY COL CAPE COD COMMUNITY COL CAPE COD COMMUNITY COL CAPE TO COL COMMUNITY COL CAPE COD COMMUNITY COL CAPE COD COMMUNITY COL CAPE TO COLLEGE CHAMBERLAYNE JR COL CLARK UNIVERSITY CNITCH NENG COL OF TECM COL OF THE MOLY CROSS CURRY COLLEGE DEAN JR COLLEGE | 430,892 614 1,208 131 317 261 1,052 444 175 175 175 178 178 178 171 1,384 950 80 339 52 10,260 174 2,712 36,948 11,669 1,203 1,175 2,006 132 604 1 495 2,304 263 131 1,091 264 318 508 | 305,500 0 675 0 0 344 0 0 0 0 150 0 0 3.892 0 22.160 0 9.985 0 0 0 0 0 0 0 0 0 0 0 0 0 | 268,109 0 649 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 9,335 | 1,952 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 16,347 0 0 0 0 0 0 0 344 0 0 0 0 0 1,984 0 0 0 78 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 2.748 0 19 0 0 0 0 0 0 0 0 0 0 0 0 0 | 7,009 07 07 00 00 00 00 00 00 00 01 131 00 00 00 025 | 125,392 614 533 131 317 261 708 444 175 758 178 171 1,234 950 80 339 52 2,368 174 2,710 14,788 108 1,684 1,203 1,175 2,001 132 604 1,203 1,175 2,001 132 604 1,203 1,175 2,001 132 604 1,203 1,175 2,001 132 604 1,203 1,175 2,001 132 604 1,203 1,175 2,001 132 604 1,203 1,175 2,001 132 604 1,203 1,175 2,001 132 604 1,203 1,27 1,091 2,533 3,18 3,87 |
| WOR-HIC TECH CHTY COLLEGE HASSACHUSETTS. TOTAL AMERICAN INTERNATL COL AMMERST COLLEGE ANDOVER NEWTON THEOL SCH ANNA HARIA COLLEGE AQUINAS JR COLL HILTON ASSUMPTION COLLEGE BASON COLLEGE BAY STATE JR COL BUSINESS BECKER JR COL - LEICESTER BECKER JR COL - LEICESTER BECKER JR COL - LEICESTER BENTLEY COLLEGE BERKLEE COLLEGE OF HUSIC GERKSHIRE CHTY COLLEGE BLUE HILLS RGNL TECH INST BOSTON CONSERV OF HUSIC BOSTON STATE COLLEGE BOSTON CONSERV OF HUSIC BOSTON UNIVERSITY BRADFORD COLLEGE BRANDEIS UNIVERSITY BRADFORD COLLEGE BRANDEIS UNIVERSITY BRIDGEMATER STATE COLLEGE BUNKER HILL CC BURDETT SCHOOL CAPE COD COMMUNITY COLLEGE CHAMBERLAYNE JR COL CLARK UNIVERSITY CNTRL N ENG COL OF TECH COL OF THE HOLY CROSS CURRY COLLEGE DEAN JR COLLEGE EMANUEL COLLEGE EMERSON COLLEGE EMERSON COLLEGE EMERSON COLLEGE | 430,892 614 1,208 131 317 261 1,052 444 175 758 178 171 1,384 950 80 339 52 10,260 174 2,710 36,248 108 11,669 1,203 1,175 2,006 132 604 1495 2,304 2,311 1,091 264 318 508 859 | 305,500 0 675 0 0 0 0 0 0 0 0 0 0 0 0 0 | 268,109 0 649 0 0 0 0 0 0 0 0 150 0 0 3,652 0 9,040 0 761 0 0 0 121 | 9,335 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 1,952 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 16,347 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 2.748 0 19 0 0 0 0 0 0 0 0 0 0 0 0 0 | 7,009 07 07 00 00 00 00 00 00 00 0131 00 0131 00 00 00 00 00 00 00 00 00 00 00 00 00 | 125,392 614 533 131 317 261 708 444 175 175 758 178 171 1,234 950 80 3399 52 1,368 1,74 2,710 14,788 1,203 1,175 2,001 132 604 1,203 1,175 2,001 132 604 1,203 1,175 2,001 132 604 1,203 1,175 2,001 132 604 1,203 1,175 2,001 132 604 1,203 1,175 2,001 132 604 1,203 1,175 2,001 132 604 1,203 1,175 2,001 132 604 1,203 1,175 2,001 132 604 1,203 1,175 2,001 132 604 1,175 2,001 132 604 1,253 318 387 859 411 171 |
| MOR-HIC TECH CHTY COLLEGE HASSACHUSETTS. TOTAL AMERICAN INTERNATL COL AMMERST COLLEGE ANDOVER NEWTON THEOL SCH ANNA HARIA COLLEGE AQUINAS JR COLL HILTON ASSUMPTION COLLEGE BASON COLLEGE BAY PATH JR COLLEGE BAY PATH JR COLLEGE BAY STATE JR COL BUSINESS BECKER JR COL - LEICESTER BECKER JR COL - LEICESTER BECKER JR COL - HORCESTER BENTLEY COLLEGE BENTLEY COLLEGE BENTLEY COLLEGE BENTLEY COLLEGE BOSTON COLLEGE BOSTON COLLEGE BOSTON CONSERV OF HUSIC BOSTON STATE COLLEGE BOSTON STATE COLLEGE BOSTON STATE COLLEGE BOSTON STATE COLLEGE BOSTON STATE COLLEGE BOSTON UNIVERSITY BRIDGEWATER STATE COLLEGE BRISTOL CHTY COLLEGE BUNGER HILL CC BURGETT SCHOOL CAPE COD COMMUNITY COL CARDINAL CUSHING COLLEGE CHAMBERLAYNE JR COL CLARK UNIVERSITY COTREL N ENG COL OF TECH COL OF OUR LADY OF ELMS COL OF THE HOLY CROSS CURRY COLLEGE EMANUEL COLLEGE EMASON COLLEGE EMERSON COLLEGE EMERSON COLLEGE EMERSON COLLEGE EMERSON COLLEGE EMERSON COLLEGE EMERSON COLLEGE EMERSON COLLEGE EMERSON COLLEGE EMERSON COLLEGE EMERSON COLLEGE EMERSON COLLEGE EMERSON COLLEGE EMERSON COLLEGE EMERSON COLLEGE EMERSON COLLEGE EMERSON COLLEGE EMERSON COLLEGE EMERSON COLLEGE | 430,892 614 1,208 131 317 261 1,052 444 175 758 178 171 1,384 950 80 339 52 10,260 174 2,712 36,248 11,669 1,203 1,175 2,006 11 4955 2,304 263 131 1,091 264 318 508 859 1,009 | 305,500 0 675 0 0 344 0 0 0 0 150 0 22,160 9,985 0 0 0 0 0 0 0 150 0 0 0 0 0 0 0 0 0 0 0 0 0 | 268,109 0 649 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 9,335 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 1,952 00 00 00 00 00 00 00 00 00 00 00 00 00 | 16,347 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 2.748 0 19 0 0 0 0 0 0 0 0 0 0 0 0 0 | 7,009 07 07 00 00 00 00 00 00 00 01 131 00 00 00 00 00 00 00 00 00 00 00 00 00 | 125,392 614 533 131 317 261 708 444 175 175 758 178 171 1,234 950 80 339 52 6,368 174 2,710 14,788 108 1,684 1,203 1,175 2,001 132 604 1,495 1,436 263 127 1,091 253 318 387 859 411 |
| MOR-HIC TECH CHTY COLLEGE MASSACHUSETTS. TOTAL AHERICAN INTERNATL COL AMMERST COLLEGE ANDOVER NEWTON THEOL SCM ANNA MARIA COLLEGE AQUINAS JR COLL HILTON ASSUMPTION COLLEGE BAY PATH JR COLLEGE BAY PATH JR COLLEGE BAY STATE JR COL BUSINESS BECKER JR COL - LEICESTER BECKER JR COL - HORCESTER BENTLEY COLLEGE BERKLE COLLEGE BERKSHIRE CHISTIAN COL BERKSHIRE CHISTIAN COL BERKSHIRE CHISTIAN COL BERKSHIRE CHISTIAN COL BERKSHIRE CHISTIAN COL BERKSHIRE CHISTIAN COL BERKSHIRE CHISTIAN COL BERKSHIRE CHISTIAN COL BERKSHIRE CHISTIAN COL BERKSHIRE CHISTIAN COL BERKSHIRE CHISTIAN COLLEGE BOSTON CONSERV OF HUSIC BOSTON COLLEGE BOSTON UNIVERSITY BRADFORO COLLEGE BUNKER HILL CC BUNCETT SCHOOL CAPE COD COMMUNITY COL CAPE COD COMMUNITY COL CARDINAL CUBHING COLLEGE CMAMBERLAYNE JR COL CLARK UNIVERSITY CNTRL N ENG COL OF TECH COL OF THE MOLY CROSS CURRY COLLEGE EMERSON COLLEGE EMERSON COLLEGE EMERSON COLLEGE EMERSON COLLEGE EMERSON COLLEGE EMERSON COLLEGE EMERSON COLLEGE EMERSON COLLEGE EMERSON COLLEGE EMERSON COLLEGE EMERSON COLLEGE EMERSON COLLEGE EMERSON COLLEGE EMERSON COLLEGE EMERSON COLLEGE | 430,892 614 1,208 131 317 261 1,052 444 175 758 178 178 171 1,384 950 80 339 52 10,260 174 2,710 36,748 11,669 1,203 1,175 2,006 132 604 11 495 2,304 263 131 1,001 1,001 264 318 508 859 1,009 171 43 441 | 305,500 0 675 0 0 344 0 0 0 0 150 0 0 3.892 0 0 22.160 0 0 0 0 0 0 0 0 0 0 0 0 0 | 268,109 0 649 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 9,335 | 1,952 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 16,347 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 2.748 0 19 0 0 0 0 0 0 0 0 0 0 0 0 0 | 7,009 07 07 00 00 00 00 00 00 01 131 00 00 00 025 00 00 00 00 00 00 00 00 00 00 00 00 00 | 125,392 614 533 131 317 261 708 444 175 175 175 178 171 1,234 950 80 339 52 4,368 174 2,710 14,788 1,684 1,203 1,175 2,001 132 604 1,203 1,175 2,001 132 604 1,203 1,175 2,001 132 604 1,495 1,495 1,495 1,496 263 318 387 491 171 43 441 |
| MOR-HIC TECH CHTY COLLEGE HASSACHUSETTS. TOTAL AMERICAN INTERNATL COL AMMERST COLLEGE ANDOVER NEWTON THEOL SCH ANNA HARIA COLLEGE AQUINAS JR COLL HILTON ASSUMPTION COLLEGE BASON COLLEGE BAY STATE JR COL BUSINESS BECKER JR COL - LEICESTER BECKER JR COL - LEICESTER BECKER JR COL - LEICESTER BENTLEY COLLEGE BERKLEE COLLEGE OF HUSIC GERKSHIRE CHTY COLLEGE BLUE HILLS RGNL TECH INST BOSTON CONSERV OF HUSIC BOSTON STATE COLLEGE BOSTON CONSERV OF HUSIC BOSTON STATE COLLEGE BOSTON CONSERV OF HUSIC BOSTON CONSERV OF HUSIC BOSTON CONSERV OF HUSIC BUSTON UNIVERSITY BRADFORD COLLEGE BRANDEIS UNIVERSITY BRIDGEMATER STATE COLLEGE BUNKER HILL CC BURDETT SCHOOL CAPE COD COMMUNITY COLLEGE CHAMBERLAYNE JR COL CLARK UNIVERSITY CNTRL N ENG COL OF TECH COL OF THE HOLY CROSS CURRY COLLEGE EASTERN NAZARENE COLLEGE EMERSON CO | 430,892 614 1,208 1,317 261 1,052 444 175 758 178 171 1,384 950 80 339 52 10,260 174 2,710 36,248 108 11,669 1,203 1,175 2,006 132 604 1 495 2,304 2,311 1,091 264 318 508 859 1,009 1771 43 441 1,107 | 305,500 0 675 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 268,109 0 649 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 9,335 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 1,952 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 16,347 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 2.748 0 19 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 7,009 0,000 | 125,392 614 533 131 317 261 708 444 175 175 758 178 171 1,234 950 80 3399 52 2,368 174 2,710 14,788 1,203 1,175 2,001 132 604 1,203 1,175 2,001 132 604 1,203 1,175 2,001 132 604 1,203 1,175 2,001 132 604 1,175 2,001 132 604 1,175 2,001 132 604 1,175 2,001 132 604 1,175 2,001 132 604 1,175 2,001 132 604 1,175 2,001 132 604 1,175 2,001 132 604 1,175 2,001 132 604 1,175 2,001 132 604 1,175 2,001 132 604 1,175 2,001 132 604 1,175 2,001 132 604 1,175 2,001 132 604 1,175 2,001 132 604 1,175 2,001 132 604 1,175 2,001 132 604 1,175 2,001 132 604 1,175 2,001 132 604 1,175 2,001 1,175 |
| WOR-HIC TECH CHTY COLLEGE HASSACHUSETTS. TOTAL AMERICAN INTERNATL COL AMMERST COLLEGE ANDOVER NEWTON THEOL SCM ANNA HARIA COLLEGE AQUINAS JR COLL MILTON ASSUMPTION COLLEGE BAY PATH JR COLLEGE BAY PATH JR COLLEGE BAY PATH JR COLLEGE BAY PATH JR COLLEGE BAY PATH JR COLLEGE BAY PATH JR COLLEGE BECKER JR COL - LEICESTER BECKER JR COL - LEICESTER BECKER JR COL - HORCESTER BECKER JR COL - HORCESTER BECKER JR COL - HORCESTER BECKER JR COL - HORCESTER BECKER JR COL - HORCESTER BECKER JR COL - HORCESTER BECKER JR COL - HORCESTER BECKER JR COL - HORCESTER BECKER JR COL - HORCESTER BECKER JR COL - HORCESTER BECKER JR COL LEGE BUNIER STATE COLLEGE BOSTON CONSERV OF HUSIC BOSTON CONSERV OF HUSIC BOSTON UNIVERSITY BRADFORD COLLEGE BRADEIS UNIVERSITY BRADFORD COLLEGE BRADEIS UNIVERSITY BRIDGEMATER STATE COLLEGE BUNKER HILL COLLEGE BUNKER HILL COLLEGE CHAMBERLAYNE JR COL CARGINAL CUSHING COLLEGE CHAMBERLAYNE JR COL CARGINAL CUSHING COLLEGE CHAMBERLAYNE JR COL CARGINAL CUSHING COLLEGE DEAN JR COLLEGE EMPANUEL COLLEGE EMPANUEL COLLEGE EMPANUEL COLLEGE EMPANUEL COLLEGE EMPANUEL COLLEGE EMPANUEL COLLEGE EMPANUEL COLLEGE EMPISCOPAL DIVINITY SCHOOL FISHER JUNIOR COLLEGE EMPANUEL COLLEGE ENDICOTT COLLEGE ENDICOTT COLLEGE ENDICOTT COLLEGE ENDICOTT COLLEGE ENDICOTT COLLEGE ENDICOTT COLLEGE ENDICOTT COLLEGE ENDICOTT COLLEGE ENTICHBURG STATE COLLEGE | 430,892 614 1,208 131 317 261 1,052 444 175 758 178 178 171 1,384 950 80 339 52 10,260 174 2,710 36,748 11,669 1,203 1,175 2,006 132 604 11 495 2,304 263 131 1,001 1,001 264 318 508 859 1,009 171 43 441 | 305,500 0 675 0 0 344 0 0 0 0 150 0 0 3.892 0 0 22.160 0 0 0 0 0 0 0 0 0 0 0 0 0 | 268,109 0 649 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 9,335 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 1,952 00 00 00 00 00 00 00 00 00 00 00 00 00 | 16,347 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 2.748 0 19 0 0 0 0 0 0 0 0 0 0 0 0 0 | 7,009 07 07 00 00 00 00 00 00 00 01 131 00 00 00 00 00 00 00 00 00 00 00 00 00 | 125,392 614 533 131 708 404 175 758 178 171 1,234 950 80 339 52 C,368 174 2,710 14,788 108 1,684 1,203 1,175 2,001 132 604 1,203 1,175 2,001 132 604 1,203 1,175 2,001 134 604 1,203 1,175 2,001 134 604 1,203 1,175 2,001 134 604 1,203 1,175 2,001 1,495 1,496 263 1,271 1,091 253 387 859 411 171 434 441 1,107 74 441 1,107 74 467 |

TABLE 8-32, FEDERAL OBLIGATIONS TO UNIVERSITIES AND COLLEGES, BY STATE, INSTITUTION, AND TYPE OF ACTIVITY: FY 1978 CONTINUED

(DOLLARS IN THOUSANDS)

| • | | | | | C. D. H. J. C. C. J. | - FNEF | | | |
|--|--|--|---|---------------------------|-------------------------------------|--|---|-----------------------------------|--|
| STATE & INSTITUTION | TOTAL. ALL | TOTAL ACADEMIC SCIENCE | RESEARCH AND Development | R ED PL ANT | FACIL FOR INSTR IN- SCI & ENG | FELLOWSHIPS TRAINEESHIPS TRNG GRANTS | GENERAL SUPPORT FOR SCI | OTHER SCIENCE | NDN~ SCIENCE |
| MASSACHUSETTS. CONT'D | | | | | | | | | |
| GRAHM JR COLLEGE CFSENFIELD CTY COLLEGE HAMPSHIRE COLLEGE HARVARD UNIVERSITY HEBREW TCHRS COL HELLENIC C-HOLY CROSS | 282 482 390 85.949 7 43 | 0 0 137 81.609 0 | 0 0 51 68,520 0 | 0 0 0 2.062 0 | 0 0 0 569 0 | 8.196 0 | 0 0 0 665 0 | 0 0 85 1 •597 0 0 | 282 482 253 8•340 7 43 |
| HOLYOKE COMMUNITY COLLEGE LABOURE JUNIOR COLLEGE LASELL JR COLLEGE LESLEY COLLEGE HASS BAY COMMUNITY COL MASS COL OF PHARMACY | 880 144 227 I.163 446 690 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 0 | 000000000000000000000000000000000000000 | 0 0 0 | 080 144 227 1.163 446 690 |
| MASS COLLEGE OF ART MASS INST OF TECHNOLOGY MASS MARITIME ACADEMY MASS STATE COL SYS OFF MASSASDIT CHTY COLLEGE MERRIMACK COLLEGE | 408 130+586 317 107 840 | 126.604 0 107 0 | 114,021 0 107 | 7,082 0 0 0 | 697 0 0 0 | 0 3,784 0 0 0 | 577 0 0 0 | 0 443 0 0 | 408 3,982 317 0 840 |
| MIDDLESEX COMM COL (MASS) MOUNT HOLYOKE COLLEGE MOUNT IDA JR COLLEGE MOUNT MACHUSETT CMTY COL N E COL OF OPTOMETRY NEH ENGL CONSERV OF PUSIC | 819 524 567 320 647 543 401 | 229 173 0 171 0 | 0 0 153 0 0 | 00000 | 0 20 0 0 | · 0 0 0 0 | 209 0 0 0 171 0 | 20 0 0 0 0 | 590 524 354 320 476 543 401 |
| NEH ENGLAND SCHOOL OF LAN NEHBURY JUNIOR COLLEGE NICHOLS COLLEGE NORTH ADAMS STATE COLLEGE NORTH SHORE CHTY COLLEGE NORTHEASTERN UNIVERSITY | 159 978 205 835 967 13,137 | 5 0 0 0 5 3,895 | 0 0 0 0 5 3,690 | 0 0 0 | 0000 | · 0 0 0 0 0 143 | 0 0 0 0 0 0 | 0 0 0 0 0 | 154 978 205 835 962 |
| NORTHERN ESSEX CHTY COL PINE MANOR COLLEGE OUINCY JUNIOR COLLEGE OUINSIGAMOND CHTY COLLEGE REGIS COLLEGE ROXBURY COMMUNITY COLLEGE | 715 98 366 782 1,120 1,096 | 0 0 0 5 606 | 0 0 0 5 606 | 0 0 0 | ···· 0 0 0 0 | 0 0 0 0 0 | 0 0 0 | 0 0 0 0 | 715 98 366 777 514 1.096 |
| SALEM STATE COLLEGE SCH OF WORCESTER ART MUS SCH-MUSEUM FINE ARTS-BOST SIMMONS COLLEGE SIMON'S ROCK SMITH COLLEGE | 1.869 31 192 2.310 123 875 | 50 0 0 254 0 191 | 0 0 0 205 0 191 | 0 0 0 0 | 0 0 0 0 | 0 0 0 21 0 0 | 0 0 0 | 50 0 0 28 0 | 1,819 31 192 2,056 123 684 |
| SPRINGFIELD COLLEGE SPRINGFIELD TECH COMM COL ST JOHM'S SEMINARY STHEASTRN MASS UNIVERSITY STONEHILL COLLEGE SUFFOLK UNIVERSITY SHAIN SCH OF DESIGN | 577 1.158 39 2.663 433 976 173 | 79 0 0 393 0 50 | 0 0 0 219 0 0 | 0 0 0 0 | 0 0 4 \$ 0 0 | 79 0 0 0 0 | 0 0 0 170 0 | 0 0 0 0 50 | 498 1,158 39 2,270 433 926 |
| TUETS UNIVERSITY U HASS MED SCH-HORCESTER UNIV OF HASS AT AMHERST UNIV OF HASS BOSTON UNIV OF HASS SYSTEM OFF UNIVERSITY OF LOWELL | 13.923 5.573 27.876 772 67 2.672 | 8 • 281 3 • 931 14 • 146 307 67 1 • 910 | 7,742 3,584 10,602 297 19 | 0 0 0 0 | 27 15 387 0 | 297 237 284 0 48 7 | 186 95 146 0 0 | 29 0 2.727 10 0 27 | 173 5.642 1.642 13.730 465 0 |
| HELLESLEY COLLEGE HENTWORTH INST OF TECH HESTERN NEW ENGLAND COL HESTFIELD STATE COLLEGE HHEATON COLLEGE HHEATON COLLEGE | 1.055 1.771 B17 1.431 474 745 | 337 1.306 0 0 56 0 | 337 1.306 0 0 50 | 0 0 0 0 | 0 0 0 0 6 | 0 0 0 | 0 0 0 0 0 | 0 0 0 | 718 465 817 1,431 418 745 |
| HILLIAPS COLLEGE HOODS HOLE OCNGRPHIC INST HORCESTER POLY INSTITUTE HORCESTER STATE COLLEGE MICHIGAN, TUTAL | 545 21.465 1.936 1.234 238.897 | 297 21.465 845 0 | 275 19.621 813 0 | 0 191 0 0 | 0 4 0 0 733 | 0 0 0 0 7•026 | 0 0 0 | 1.649 32 0 | 248 0 1.091 1.234 |
| ADRIAN COLLEGE | 116 | 0 | 9,7,200 | 0 | 0 | 0 | 2.430 | 8 •550 0 | 124,347 |
| ALDION COLLEGE ALMA COLLEGE ALMA COLLEGE ALPENA COMMUNITY COLLEGE ANDREMS UNIVERSITY AQUINAS COLLEGE BAY DE NOC COMMUNITY COL CALVIN COLLEGE | 379 287 568 679 448 326 | 14 14 0 0 0 | 000000000000000000000000000000000000000 | 0 0 0 0 | 5 0 0 0 | 000000 | 0 0 0 | 9 14 0 0 0 | 365 273 568 679 448 326 |
| CALVIN THEOL SEMINARY CENTRAL MICHIGAN UNIV CHARLES STEHART MOTT C C CLEARY COLLEGE CONCORDIA COLLEGE CRANBROOK ACAO OF ART DAVENPORT COL OF BUSINESS | 15 3,623 1,382 66 247 28 480 | 0 71 0 0 0 | 0 39 0 0 0 | 000000 | 0 7 0 0 0 | 0600000 | 0 19 0 0 0 | 0 0 0 0 | 15 3,552 1.382 66 247 28 480 |
| DELTA COLLEGE DETROIT BIBLE COLLEGE DETROIT COL OF BUS ADMIN DETROIT INSTITUTE OF TECH DUNS SCOTUS COLLEGE EASTERN HICHIGAN UNIV | 1.337 12 718 1.736 16 4,697 | 118 0 0 0 0 0 79 | 0 0 0 0 0 26 | 0 0 0 0 | 0 0 0 0 0 8 | 0 0 0 0 0 | 118 0 0 0 0 | 0 0 0 0 0 45 | 1,219 12 718 1,736 16 4,618 |
| FERRIS STATE COLLEGE GENERAL HOTORS INST GLEN DAKS CHTY COLLEGE GDGEBIC COMMUNIT: COLLEGE GRACE BIBLE COLLEGE | 3,446 112 64 242 76 | 0 0 0 | 0 0 0 0 | 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 3.446 112 64 242 76 |



TABLE B-32. FEDERAL OBLIGATIONS TO UNIVERSITIES AND COLLEGES. BY STATE, INSTITUTION, AND TYPE OF ACTIVITY: FY 1978 CONTINUED (OOLLARS IN THOUSANDS)

| | | | | | *UEMIC 2011 | ENC E | ~-~ | | |
|---|------------------------------------|------------------------------|--------------------------------|------------------|------------------------------------|--|-------------------------------|--------------------|---|
| STATE & INSTITUTION | TOTAL. ALL | TUTAL ACADEMIC SCIENCE | RESEARCH AND DEVELOPMENT | R &D | FACIL FOR INSTR IN SCI & ENG | FELLOWSHIPS TRAINEESHIPS TRNG GRANTS | GENERAL SUPPORT FOR SCI | OTHER SCIENCE | NON- SCIENCE |
| MICHIGAN, CONT'O | | | | | | | | | |
| GRAND RAPIOS BAPT COLESEM GRAND RAPICS JR COLLEGE GRAND VALLEY STATE COLS GREAT LAKES BIBLE COLLEGE HENRY FORD CHTY COLLEGE | 247 1.181 3.799 74 902 | 0 49 0 0 | 0 49 0 0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 0 | 9 0 0 0 0 168 | 0 0 0 0 | 247 1•181 3•750 74 902 2•677 |
| HIGHLAND PARK CHTY COLL HILLSDALE COLLEGE HOPE COLLEGE | 2.845 32 1.261 | 0 367 0 | 0 94 0 | 0 | 0 55 0 | 0 0 0 | 0 190 0 | 0 28 0 | 32 894 247 |
| JACKSON CMTY COLLEGE JOHN WESLEY COLLEGE JORDAN COLLEGE KALAMAZOO COLLEGE | 247 423 68 734 | 0 0 9 | 0 0 0 | 0 0 | 0 | 0 0 | 0 | , 0 9 | 423 68 725 554 |
| KALAMAZOO VALLEY COMM COL KELLOGG COMMUNITY COLLEGE KIRTLAND COMM COL | 554 365 | 0 0 | 0 0 0 | 0 0 0 | 0 0 12 | 0 | 0 | 0 | 407 353 476 |
| LAKE MICHIGAN COLLEGE LAKE SUPERIOR STATE COL LANSING COMMUNTLY COLLEGE | 476 716 1.913 | 0 0 0 | 0 0 0 | 0 0 0 | 0 | 0 | 0 0 0 | 0 | 716 1,913 300 |
| LAWRENCE INST OF TECH LEW'S COL BUS-LEWIS BUS C MACOMB CNTY CMTY COLLEGE | 300 140 1•016 | 0 0 0 | 0 0 0 | 0 0 0 | 0 | 0 0 0 50 | 0 | 0 | 140 1,010 1,581 |
| MADONNA COLLEGE Marygrove College Mercy College of Detpoit | 1.631 1.506 2.523 | 50 0 0 | 0 0 0 102 | 0 0 0 | 0 0 0 | 0 | 0 | - 0 0 | 1.506 2.523 18 |
| MERRILL-PALMER INST MICHIGAN CHRISTIAN JP COL MICHIGAN STATE UNIVERSITY | 120 355 43.666 | 102 0 31.055 | 0 21.792 2.822 | 400 | 0 129 11 | 0 874 139 | 0 339 0 | 0 7•521 0 | 355 12.611 1.009 |
| MICHIGAN TECH UNIVERSITY MID-HICH COMMUNITY COL MONROE COUNTY CHTY COL MONTCALM COMMUNITY COL | 3,981 352 130 89 | 2,972 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 352 130 89 626 |
| MUSKEGON BUSINESS COL MUSKEGON CHTY COLLEGE NAZARETH COLLEGE | 626 548 175 133 | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 0 | 0 | 0 0 0 | 548 175 133 |
| NORTH CENTRAL HICH COL NORTHERN HICHIGAN UNIV NORTHWESTERN MICHIGAN COL NORTHWCOO INSTITUTF | 2.087 336 320 | 64 0 0 | 32 0 0 | 0 | 0 0 0 | 0 | 0 0 0 | 32 0 0 0 | 2,023 336 320 1,206 |
| OAKLAND COMMUNITY TRUEGE OAKLAND UNIVERSITY OLIVET COLLEGE | 1,206 3,336 259 | 0 1.488 0 | 1,081 | 0 0 0 3 | 0 48 0 0 | 0 89 0 0 | 267 0 | 3 0 0 | 1.848 259 37 |
| REFORMED BIBLE COLLEGE SACRED HEART SEMINARY COL SAGINAL VALLEY STATE COL | 37 14 935 352 | 0 0 0 2 | 0 0 0 | 0 | 0 0 2 | 0 0 0 | 0 | 0 0 0 | 935i. 350 |
| SCHOOLCRAFT COLLEGE SHAW COLLEGE AT DETROIT SIENA HEIGHTS COLLEGE SOCIFTY OF ARTS & CRAFTS | 2,442 376 133 | 0 0 | 0 0 0 | 0 | 0 0 | 0 0 0 0 | 0 0 0 | 0 0 0 | 2,442 376 133 441 |
| SOUTHWESTERN MICHIGAN COL SPRING APBOR COLLEGE ST CLAIR CO CHTY COLLEGE | 360 437 | 0 0 0 | 9 0 0 | 0 0 0 | 0 0 0 | 0 Ú | 0 | 0 | 360 437 40 |
| ST MARY'S COL (MICH) SUOMI COLLEGE UNIVERSITY OF DETROIT | 40 1.314 4.579 | 5 108 64.895 | 5 99 58.444 | 0 0 125 | 0 9 318 | 0 0 4,632 | 0 0 874 | 0 0 502 | 1,309 4,471 21,632 |
| UNIVERSITY OF MICHIGAN HALSH COL ACCTGGBUS ADMIN HASHTENAH CHTY COLLEGE HAYNE COUNTY CHTY COLLEGE | 1.819 | 0 | 0 | 0 0 0 | 0 0 0 | 0 | 0 | 0 0 0 360 | 1.819 7.628 10.608 |
| HAYNE STATE UNIVERSITY HEST SHORE COMMUNITY COLL HESTERN HICHIGAN UNIV | 22,732 202 4,838 | 12,124 0 775 | 10,385 0 316 0 | 0 0 0 | 129 0 0 | 823 0 413 0 | 427 0 28 0 | 0 18 0 | 202 4,063 I |
| WESTERN THEOL SEM | . 1 128.795 | 0 71,547 | 59,947 | 0 | 486 | 4,061 | 1.138 | 5.914 | 57,248 |
| ANDKA-RAMSEY CHTY COLLEGE AUGSBURG COLLEGE AUSTIN CHTY COL (MINN) | 182 | 0 19 0 | 0 19 0 5 | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 350 866 182 2•313 |
| BEHIOJI STATE UNIVERSITY BETHANY LUTHERAN COLLEGE BETHEL COLLEGE & SEMINARY | 2,318 90 849 320 | 5 0 0 0 | 0 | 0 | 0 0 | ,0 0 0 | 0 0 0 | 0 0 0 | 90 849 320 |
| BRAINERO CMTY COLLEGE CARLETON COLLEGE COLLEGE OF ST BENEOICT COLLEGE OF ST CATHERINE | 662 871 658 | 28 0 166 | | 0 | 5 0 0 2 | 0 0 21 0 | 0 0 129 0 | 5 0 0 | 634 871 502 755 |
| COLLEGE OF ST SCHOLASTICA COLLEGE OF ST TERESA COLLEGE OF ST THOMAS | 470 1,481 | 2 0 168 23 | 37 | 0 0 0 | 0 0 7 | 0 | 0 131 0 | 0 0 16 | 470 1.313 1.635 |
| CONCORDIA COL MODRHEAD CONCORDIA COL ST PAUL CROSIER SEMINARY DR MARTIN LUTHER COLLEGE | 1.658 256 25 182 | · 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 256 25 182 192 |
| FERGUS FALLS CHTY COLLEGI GOLOEN VALLEY LUTHRAN CO GUSTAVUS AOOLPHUS COLLEGI | L 227 | 0 9 219 19 | 0 19 | 0 0 0 | 0 0 0 7 | 0 0 0 | 200 0 | 0 | 227 841 754 |
| HAMLINE UNIVERSITY HIBBING COMMUNITY COLLEGI INVER HILLS CHTY COL ITASCA COMMUNITY COLLEGE | | 0 | 0 | 0 0 0 | 0 0 | 0 | 0 0 0 | 0 0 0 | 210 621 271 332 |
| LAKEWOOD COMMUNITY COL LUTHER THEOL SEMINARY MACALESTER COLLEGE | 33 <i>2</i> 88 893 | 0 0 70 | 0 | 0 0 0 | 0 0 0 | 0 0 0 118 | 0 0 | 0 64 12 | 88 823 2,809 |
| MANKATO STATE UNIVERSITY MESABI COMMUNITY COLLEGE | 2.939 340 | 130 | _ | 0 | | 0 | 7 | ō | 333 |

TABLE 8-37. FEDERAL OBLIGATIONS TO UNIVERSITIES AND COLLEGES, BY STATE, INSTITUTION, AND TYPE OF ACTIVITY: FY 1978 CONTINUED

(DOLLARS IN THOUSANDS)

| | | | | A | CADEMIC SCI | ENCE | | | |
|---|--|--|--|---|--|---|---|---|--|
| STATE & INSTITUTION | TOTAL, ALL ACTIVITIES | TOTAL ACADEMIC Science | RESEARCH AND DEVELOPMENT | R E D Plant | FACIL FOR INSTR IN SCI & ENG | FELLOWSHIPS TRAINEESHIPS TRNG GRANTS | GENERAL SUPPORT FOR SCI | OT MER SCIENCE | NON- SCIENCE |
| MINNESOTA + CGRP 10 | | | | | | | | | |
| METRO STATE UNIV METROPOLITAN CMTY COL MINNESOTA BIBLE COLLEGE MODRHEAD STATE UNIVERSITY NORMANDALE COMMUNITY COL NORTH CENTRAL BIBLE COL NORTH MENNEPIN CMTY COL NORTHHANDAL CMTY COLLEGE NORTHHAND CMTY COL NORTHHASTERN COL (MINN) NORTHHESTERN COL (MINN) NORTHHESTERN COL OF CMTRO RAINY RIVER CMTY COL SOUTHHEST LUTH THEOL SEM NORTHHSTRN COL OF CMTRO SOUTHHEST STATE UNIVERSITY ST CLOUD STATE UNIVERSITY ST JOHN'S UNIVERSITY ST HARY'S COLLEGE ST PAUL BIBLE COL ST PAUL SEMINARY UNIVERSITY OF MINNESOTA VERMILION CMTY COLLEGE HILLMAR COMMUNITY COLLEGE HILLMAR COMMUNITY COLLEGE HILLMAR COMMUNITY COLLEGE | 201 903 220 25 2,052 432 268 532 173 287 26 24 122 858 755 2,024 852 723 1,408 951 441 84 93,558 335 384 1,006 | 0 6 0 0 41 0 0 0 0 0 0 0 1 1 0 9 112 1 1 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 41 0 0 0 0 0 0 0 0 0 0 17 4 28 8 0 11 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 203 902 220 225 2,011 432 266 532 173 267 26 121 858 656 1,912 833 676 1,267 872 441 10 23,530 335 384 962 71 83 |
| MISSISSIPPI, TOTAL | 83,002 | 21,267 | 11,597 | 0 | 54 | 791 | 1,592 | 7,233 | 61,735 |
| ALCORN STATE UNIVERSITY BELHAVEN COLLEGE BLUE HOUNTAIN COLLEGE CLARKE COLLEGE (MISS) CUAHDHA JR COLLEGE COPIAH-LINCOLN JR COL DELTA STATE UNIVERSITY EAST CENTRAL JR COLLEGE EAST HISSISSIPPI JR COL MINDS JR COLLEGE ITAMAMBA JR COLLEGE JACKSON STATE UNIVERSITY MARY HOLMES COLLEGE HERIDIAN JUNIOR COLLEGE MINIST INST AND COLLEGE MINIST INST AND COLLEGE MINIST INST AND COLLEGE MISS GLF CST JC DIST SYS MISS GLF CST JC DIST | 6,067 168 166 63 1,722 407 1,104 202 292 1,121 290 798 11,370 1,146 815 432 667 1,512 111 1,224 4,656 680 667 579 18,283 49 616 1,210 440 400 2,401 296 3,722 13,596 3,727 1,567 71 24 1,068 | 1,868 0 0 0 0 0 0 0 0 0 0 1,085 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 986 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 000000000000000000000000000000000000000 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 311 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 571 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 4,199 168 63 1,722 407 1,104 202 292 1,121 290 798 10,285 1,146 815 432 667 1,512 111 1,217 4,536 657 650 5,248 49 616 1,210 440 400 2,401 296 2,228 9,454 3,513 1,547 71 1,068 93 |
| HISSOURI, TOTAL | 145,624 | 81,925 | 65,746 | . 39 | 383 | 7,057 | 1.075 | 7,625 | 63,699 |
| AVILA COLLEGE BAPTIST BIBLE COLLEGE CALVARY BIBLE COL CARDINAL GLENNON COL CENTRAL BIBLE COLLEGE CENTRAL HEHDOIST COLLEGE CENTRAL HISSOURI ST UNIV COLUMBIA COLLEGE (MD) CONCEPTION SEM COLLEGE COTTEY COLLEGE COVENANT THEOLOGICAL SEM CROWDER COLLEGE CULVER-STOCKTON COLLEGE DRURY COLLEGE EAST CITAL MO DIST JR COL EDEN THEOLOGICAL SEMINARY EVANGEL COLLEGE FONTBONNE COLLEGE MANNIBAL-LA GRANGE COL HARRIS STOME COLLEGE | 665 656 109 9 524 377 2,072 474 66 69 3 290 164 417 152 8 767 293 164 | 17 00 00 00 00 24 00 00 00 00 00 00 00 00 00 00 00 00 00 | 17 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 000000000000000000000000000000000000000 | 000000000000000000000000000000000000000 | 648 656 109 9 524 377 2,048 474 66 89 3 290 164 417 152 8 767 289 164 1,092 |

TABLE 8-32. FEDERAL OBLIGATIONS TO UNIVERSITIES AND COLLEGES, BY STATE, INSTITUTION, AND TYPE OF ACTIVITY: FY 1978 CONTINUED (DOLLARS IN THOUSANDS)

| | | | (BULLANS IN) | | ADEMIC SCIE | ENCE | | | |
|---|---|--|---|------|---|---|---|--|--|
| STATE & INSTITUTION | TOTAL, ALL ACTIVITIES | TOTAL ACADEMIC SCIENCE | RESEARCH AND DEVELOPMENT | R &D | FACIL FOR INSTR IN SCI & ENG | FELLOWSHIPS TRAINEESHIPS TRNG GRANTS | GENERAL SUPPORT FOR SCI | OTHER SC1ENCE | NON- SCIENCE |
| MISSOURI, CONTID | | | - | | | | | | |
| MISSOURI, CONT'D JEFFERSON COLLEGE KANSAS CITY ART INST KANSAS CITY COLL OSTED MED KEMPER MILITARY SCM & COL KIRKSVILLE COL OSTED MED LINCOLN UNIVERSITY (MD) LOGAN C OF CHIROPRACTIC LONGVIEN COMMUNITY COLLEGE MARYVILLE COL - ST LOUIS METRO CC ADMIN CTK SYS OF MINERAL AREA COLLEGE MISSOURI BAPTIST COLLEGE MISSOURI SOUTHERN ST COL MISSOURI SOUTHERN ST COL MISSOURI VALLEY COLLEGE MISSOURI SOUTHERN ST COL MISSOURI SOUTHERN ST COL MISSOURI SOUTHERN ST COL MISSOURI SOUTHERN ST COL MISSOURI SOUTHERN ST COL MOBERLY AREA JR COLLEGE NAZARENE THEOLOGICAL SEM NORTHEAST MISSOURI ST U MORTHHEST MISSOURI ST U PARK COLLEGE SAINT LOUIS COMMUNITY C PIONEER CHTY COLLEGE SAINT LOUIS RABBINICAL C SCHOOL OF THE DZARKS SEDALIA JUNIOR COLLEGE SOUTHEAST MISSOURI ST U SOUTHHEST MISSOURI ST U SOUTHHEST MISSOURI ST U SOUTHHEST MISSOURI ST U SOUTHHEST MISSOURI ST U SOUTHHEST MISSOURI ST U SOUTHHEST MISSOURI ST U SOUTHHEST MISSOURI ST U SOUTHHEST MISSOURI ST U SOUTHHEST MISSOURI ST U SOUTHHEST MISSOURI ST U ST LOUIS COMMUNITY COL ST LOUIS COMMUNITY COL ST LOUIS CONS OF MUSIC ST LOUIS CON OF PHOSIC ST LOUIS COLLEGE THE LINDENHOOD COLLEGE | 30.113 5,121 2,860 | 0 0 76 0 362 1,522 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 192 882 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 233 432 877 433 903 1,094 67 173 120 406 148 227 297 287 200 877 200 877 200 877 201 1,382 905 908 1,426 173 2,141 165 656 170 1,714 1,025 2,162 360 360 5,993 2,141 1,025 2,162 360 5,993 4,609 4,609 4,609 1,649 4,609 1,649 4,601 1,029 |
| HENTHORTH HILIT ACAD HESTHINSTER COLLEGE | 42 160 | 0 0 | 0 | 0 | 0 0 0 | 0 | 0 | 0 | 160 691 |
| HILLIAM JEHELL COLLEGE HILLIAM WOODS COLLEGE | 691 290 | 0 | 0 | 0 | 2 | Ď | ő | ō | 290 |
| MONTANA, TOTAL | 19,637 | 8,527 | 6,280 | 0 | 20 | 335 | 159 | 1,733 | 11,110 |
| CARROLL COLLEGE COLLEGE OF GREAT FALLS DAHSON COMMUNITY COLLEGE EASTERN MONTANA COLLEGE FLATHEAD VALLEY COMM COL MILES COMMUNITY COLLEGE HISSOULA TECH CTR MONT COL MINRL SCI & TECH MONTANA STATE UNIVERSITY NORTHERN MONTANA COLLEGE ROCKY MOUNTAIN COLLEGE UNIVERSITY OF MONTANA MESTER: MONTANA COLLEGE | 718 328 170 1,820 396 142 4,923 8,798 445 469 4,026 399 | 0 4 0 175 0 0 1,507 5,300 31 0 | 0 0 0 60 0 0 1,448 3,617 0 0 1,155 | | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 84 0 0 0 0 .55 .3 3 0 190 | 0 0 0 0 0 0 0 0 49 0 0 1i0 | 0 0 31 0 0 0 0 1,619 28 0 55 0 | 718 324 170 1,645 396 142 3 416 3,498 414 469 2,516 399 |
| NEBRASKA, 10TAL | 40,761 | 16,858 | 11,830 | (| | 521 | | 0 | 317 |
| BELLEVUE COLLEGE CENTRAL TECHNICAL CC CHADRON STATE COLLEGE COLLEGE OF ST HARY CONCORDIA TEACHERS COL CREIGHTON UNIVERSITY DANA COLLEGE DOANE COLLEGE GRACE COL OF THE BIBLE HASTINGS COLLEGE HASTINGS COLLEGE HCOOK CHTY COLLEGE HIO PLAINS CHTY COLLEGE HIOLAND LUTHERAN COLLEGE NEBRASKA HESLEYAN UNIV NEBRASKA HESTERN UNIV NEBRASKA HESTERN COLLEGE NORTHEAST TECH CHTY COL PERU STATE COLLEGE PLATTE TECH CHTY COLLEGE | 302 170 289 385 | 0 0 0 0 725 2 0 0 6 43 0 0 0 0 0 0 0 | 0 0 0 0 587 2 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | 000000000000000000000000000000000000000 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 36 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 102 0 0 0 0 43 0 0 0 0 0 0 | 167 836 506 414 3,068 222 33. 97 149 1,243 88 74 516 54 269 170 289 385 21 |

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TABLE B-32. FEDERAL OBLIGATIONS TO UNIVERSITIES AND COLLEGES, BY STATE, INSTITUTION, AND TYPE OF ACTIVITY: FY 1970 CONTINUED (DOLLARS IN THOUSANDS)

| | | | TOULDANS IN | | | | | | |
|--|---|---|---|---|---|---|--|---|--|
| STATE & INSTITUTION | TOTAL, ALL | TOTAL ACADEMIC SCIENCE | RESEARCH AND DEVELOPMENT | R & D PLANT | CADEMIC SCI FACIL FOR INSTR IN SCI & ENG | EMCE FELLGWSHIPS TRAINEESFIPS TRNG GRANTS | GENERAL SUPPORT FOR SCI | OTHER SCIENCE | NDN- SCIENCE |
| NEBRASKA, CONTO | | | | | | | | | |
| S E CHTY COL - LINCOLN SOUTHEAST CHTY COL HILFRO STHEAST CHTY COL-FAIRBURY U NEB CTRL ADMIN SYS OFF U OF NEB HEO CTR AT OMAMA UNION COLLEGE (NEB) UNIV OF NEBRASKA AT OMAMA UNIV OF NEBRASKA LINCOLN HAYNE STATE COLLEGE YORK COLLEGE | 264 139 124 39 8.488 676 4.261 15.803 781 159 | 15 0 0 0 5.983 0 196 9.855 | 15 0 0 0 5.567 0 63 5.595 0 | 000000000000000000000000000000000000000 | 0 0 0 5 0 0 602 | 0 0 0 193 0 117 211 0 | D 0 0 78 0 0 50 | 0 0 0 140 0 16 3.397 | 249 139 124 39 2.505 676 4.065 5.948 159 |
| NEVADA, TOTAL | 11,636 | 4,773 | 3,660 | 0 | 20 | 158 | 100 | 835 | 6,863 |
| CLARK CDUNTY CHTY COLLEGE DESERT RESEARCH INSTITUTE NORTHERN NEVADA CC SIERRA NEVADA COLLEGE U DF NEV SYS ADM SYS OFF UNIV OF NEVADA - REND UNIV OF NEVADA LAS VEGAS WESTERN NEVADA CHTY COL | 655 886 37 111 90 7,542 2,025 290 | 0 886 0 14 90 3.365 418 | 0 886 0 14 90 2,333 337 | 0 0 0 0 0 | 0 0 0 0 0 0 0 | 0 0 0 0 77 81 0 | 0 0 0 0 0 100 0 | 0 0 0 0 0 835 0 | 655 0 37 97 0 4.177 1.607 290 |
| NEW MAMPSHIRE, TOTAL | 29.910 | 14.912 | 13+122 | 0 | 177 | 235 | 316 | 1.062 | 14,998 |
| COLBY-SAHYER COLLEGE DANIEL WEBSTER COLLEGE CO DARTHOUTH COLLEGE FRANCONIA COLLEGE FRANKLIN PIERCE COLLEGE KEENE STATE COLLEGE HOUNT ST HARY COLLEGE N H VOC TECH C PORTSHOUTH NATHANIEL HANTHORNE COL NEW ENGLAND COLLEGE NEW HAMPSHIRE COLLEGE NEW HAMPSHIRE TECH INST NOTRE DAME COLLEGE PLYMOUTH ST COLLEGE ST ANSELM'S COLLEGE UNIV OF N H DURNAM UNIV SYS OF N HAMP SYS OF HHITE PINE: COLLEGE | 104 188 9.944 1 713 542 42 49 54 250 693 1.319 273 671 1.123 189 921 11.585 1.198 | 7.540 304 0 0 0 0 0 0 42 73 6 21 0 0 5.728 1.198 | 0 0 7.151 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 000000000000000000000000000000000000000 | 0 97 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 92 0 0 0 0 0 0 0 0 0 0 0 | 0 0 178 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 104 188 2.404 19 542 49 54 250 693 1.277 200 665 1.172 189 921 5.857 0 |
| NEW JERSEY THE LL | 124,017 | 48,298 | 41.151 | 45 | 434 | 2,626 | 1,030 | 3,012 | 75,719 |
| ATLANTIC CHTY COLLEGE BERGEN COMMUNITY COLLEGE BETH MEDRASH GOVDHA BLODMFIELD COLLEGE BRODKOALE COMMUNITY COLL BURLINGTON COUNTY COLLEGE CAPDEN COUNTY COL CENTENARY COLLEGE CAPDEN COUNTY COL CENTENARY COLLEGE COL OF HED & OENT OF N J COLLEGE OF ST ELIZABETH COUNTY COL OF MORRIS CUMBERLAND COUNTY COL OON BUSCO COLLEGE OREH UNIVERSITY ESSEX COUNTY COLLEGE FAIRLEIGH DICKINSON UNIV FELICIAN COLLEGE (N.) GECRGIAN COULEGE (N.) GECRGIAN COULEGE (N.) GECRGIAN COULEGE GLASSBORD STATE COLLEGE GLASSBORD STATE COLLEGE GLOUCESTER COUNTY COL HUDSON CNTY CC COMM IMMAC CONCEPTION SEM (N.) JERSEY CITY STATE COLLEGE KEAN COL OF NEW JERSEY LUTHER COL BIBLE LIB ARTS MERCER CO CHTY COLLEGE MIDDLESEX COUNTY COLLEGE MIDDLESEX COUNTY COLLEGE MIDDLESEX COUNTY COLLEGE MIDDLESEX COUNTY COLLEGE MIDDLESEX COUNTY COLLEGE MIDDLESEX COUNTY COLLEGE MIDDLESEX COUNTY COLLEGE MIDDLESEX COUNTY COLLEGE MIDTHEASTERN BIBLE COL DCEAN COUNTY COLLEGE DRINGETON THEOL SEM PRINCETON THEOL SEM PRIN | 2.874 643 91 1.241 1.205 622 203 1.711 208 1.751 208 1.751 23 408 4.975 3.923 109 278 4.057 2.116 687 2.550 775 771 687 2.650 1.010 1.04 1.37 778 1.040 82 20.721 465 1.001 1.118 52.552 300 64 129 2.039 | 0 10 0 0 22 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 7,607 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 000000000000000000000000000000000000000 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 2.874 633 91 1.219 1.205 617 203 1.911 208 6.007 1.83 633 551 23 408 4.975 3.575 3.047 3.106 25 876 707 676 2.597 90 164 137 778 1.040 82 1.060 1.069 15.732 1.016 |

TABLE 8-32. FIDERAL OBLIGATIONS TO UNIVERSITIES AND COLLEGES, BY STATE, INSTITUTION, AND TYPE OF ACTIVITY: FY 1978 (DGLYARS IN THOUSANDS)

| | (DGLLARS IN THOUSANDS) | | | | | | | | | |
|--|---|---|--|---|---|---|--|--|--|--|
| STATE & INSTITUTION | TOTAL, JLL ACTIVITIES | TOTAL ACADEHIC SCIENCE | RE SE ARCH AND DEVELOPHENT | R & D PLANT | FACIL FOR INSTR IN | ENCEFELLDWSH1PS TRAINEESHIPS TRNG GRANTS | GENERAL SUPPORT FOR SC1 | OTHER SCIENCE | NON- SEIENCE | |
| NEH JERSEY, CONTID | | | programmes | *** · · · · · | | | | | | |
| STOCKTON STATE COLLEGE TALMUDICAL INST CTRL JERS THOMAS A EDISON COLLEGE TRENTON STATE COLLEGE UNION COLLEGE UNION COLLEGE WESTMINSTER CHOIR COL | 1.261 47 8 2.102 299 672 157 | 21 0 0 143 20 0 | 0 0 101 20 0 | 000000000000000000000000000000000000000 | 6 0 7 0 0 | 0 0 0 0 0 0 | 0000000 | 15 0 0 35 0 0 0 | 1.240 47 8 1.959 279 872 157 | |
| WILLIAH PATERSON COLLEGE | 1,848 | 49 | 23 | 0 50 | 16 82 | 823 | 1,691 | 2 • 058 | 32,290 | |
| NEW MEXICO. TOTAL | 75,826 | 43,536 | 38,832 | 0 | 0 | 0 | 0 | 0 | В | |
| COL OF THE SOUTHHEST COLLEGE OF SANTA FE EASTERN NEW HEXICO UNIV N MEX INST MINING & TECH NEW HEXICO DIGHLANDS UNIV NEW HEXICO JUNIOR COLLEGE NEW HEXICO MILITARY INST HEM HEXICO STATE UNIV NRTHRN N MEX CHTY COL UNIV OF ALBUSUEROUE UNIVERSITY OF NEW MEXICO WESTERN NEW HEXICO UNIV | 8 1,728 3,655 4,776 2,620 123 218 24,695 4,2,247 34,786 966 | 0 17 67 4,361 367 0 0 18,513 0 331 19,861 | 0 60 4.036 18 0 0 16.260 | 0 0 0 0 0 0 50 0 | 17 0 0 0 0 0 0 17 0 0 0 | 0 215 0 0 187 0 421 | 0 7 110 349 0 0 319 0 265 641 | 0 0 0 0 0 0 0 0 1.680 0 0 359 | 1.711 3.588 415 2.253 123 218 6.182 4 1.916 14.925 947 | |
| NEW YORK, TOTAL | 746,768 | 402,663 | 348,061 | 8,303 | 2,292 | | | | | |
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CHAPTER V

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The variables are many. The subject matter influences the kinds of visuals used: geography, for example, is likely to use a large number of maps and graphs. Similarly the behavioural objective will have an effect: whether it is factual or visual information which needs to be understood, explained or rehearsed, and what needs to be recalled from the experience - concepts or facts.

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Motivation is another variable in the effectiveness of visual education, as it is in most educational circles.

Students learn any content matter much better when they are interested in what is before them. For this, visuals can be both a cause and an effect. Visual materials play an important role in raising motivation and interest, and the information they contain is better transmitted when motivation and interest are high. This situation is achieved, too, when the visuals are part of a programme which is seen by the students to be valid and attuned to their needs, a factor especially true of adults, and when the visuals are well incorporated with the material being taught.

Cultural factors may affect what students interpret as important and what they see as worthwhile learning techniques. In addition, such factors will influence what they absorb from a visual. Objects and concepts which are not in their own culture or which that culture underemphasizes may be



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The way in which the illustrations are presented is yet another variable. Are they to be in a programme paced by the teacher or one where the students work at a more leisurely or self-controlled pace? Whichever is chosen, the matter of exposure time becomes increasingly important, as numerous studies have shown. A system such as charts allows the students to refer to the visual at any time they need. So, too, do textbook and workbook illustrations. Slides and transparencies may have much the same advantage if the students are given enough viewing time. Films, television and the like are excellent for the presentation of concepts involving movement, but frame time is externally dictated, and the speed at which viualized information passes before students may become a cause of interference.

Interference must be kept in mind when considering what form the visuals will take, and here one should give attention to the ideas of design and realism. All visuals should be clear to all students which means that their size, clarity, spacing and color are all important. It sounds unnecessary to say that a picture in education should not be too small and should not be too large. If it is too small, many details will be indecipherable and hence confusing; if it is too big, a sense of unity will be sacrificed as students,



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Using the visuals requires cueing methodology. Adults in particular need to feel in touch with the work being presented and prefer to be told of the learning objectives in front of them. This has the advantage of focusing their attention and receptive concentration. Questions have a similar effect, written or oral, and are also vital for follow-up recall. Printed material, such as arrows, may continue this role. This rehearsal is important to the retention of learned material. All of these gambits, including patches of color in an otherwise black and white illustration, are further variables.

What this points to is that there is no single approach to visuals, and that there are no hard and fast rules for their use. The variables are vitally concerned in what is right for one situation and what is right for another; in order to adapt a visual for another use it may be necessary to change only one or two of these aspects. Educational effectiveness is dependent upon small things and cannot be made constant.

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The teacher, then, should not be daunted by the artistic requirements. Experience teaches a lot of ways to deal with these needs, and furthermore brings more ideas. There is needs to turn to another person to translate ideas, for this introduces the potential interference of a third party and his/her interpretations. Necessity is the mother of invention, and it is that which makes teachermade visual aids a continually vital part of the ESL classroom.



APPENDIX I

Sample Passage for Listening Comprehension with Visual

I SIMPLE

- (a) This woman is tired. She has been shopping most of the day. She is wearing a brown coat and on her head she has an orange hat. She is carrying two bags.
- (b) This girl has been at school but now she is going home with her mother. She is wearing blue jeans, a blue hat and a red sweater.

II SLIGHTLY HARDER

- (a) Mark Booth's waiting for the bus and he's been waiting quite a while. He's cold so he's put his hands in his pockets to keep them warm. He's wearing dark jeans and a yellow jacket, as well as a blue hat.
- (b) Jane Stevens is talking to a friend of hers.

 She's going home from school. She's got on a blue coat and red boots and she's a blonde.



III CONVERSATION

/A/ Goodness, aren't these buses slow. If it doesn't come soon, I think I'll drop. I'm so tired.

/B/ I thought you looked rather weary. What've you been doing? Shopping?

/A/ Yes, I thought I'd get a few things I needed.
But a few things always turns into a lot more.
What have you been doing?

/B/ Oh, I had to take my daughter to the dentist so I picked her up from school. When I left the house this morning it was really quite cold so I put on this quilted coat and my fur hat. Now I'm so hot! I'll be glad to get home and shed everything.

 $\overline{/A/}$ Ah, I'm just looking forward to getting rid of parcels, hat, coat and shoes and putting my feet up.



APPENDIX II

POSSIBLE SCRIPT FOR ORDER! ORDER!

It was spring. The tree was in bud and flowers were beginning to appear. Within a few weeks, the tree was a mass of blossom in pink and red. As the weeks passed, spring faded into summer. The blooms on the tree gave way to leaves. The days grew warmer and the tree provided shade for people walking in the park and for the children who played under it with their toys in the long days.

Gradually these long days began to shorten. The green leaves began their change to red and gold. Before many more weeks had passed the snow had arrived once more. Winter had returned.



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CHAPTER V

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- (b) This girl has been at school but now she is going home with her mother. She is wearing blue jeans, a blue hat and a red sweater.

II SLIGHTLY HARDER

- (a) Mark Booth's waiting for the bus and he's been waiting quite a while. He's cold so he's put his hands in his pockets to keep them warm. He's wearing dark jeans and a yellow jacket, as well as a blue hat.
- (b) Jane Stevens is talking to a friend of hers.

 She's going home from school. She's got on a blue coat and red boots and she's a blonde.



III CONVERSATION

/A/ Goodness, aren't these buses slow. If it doesn't come soon, I think I'll drop. I'm so tired.

/B/ I thought you looked rather weary. What've you been doing? Shopping?

/A/ Yes, I thought I'd get a few things I needed.

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CHAPTER V

CONCLUSION

The role of visuals as a learning aid is undeniable; studies over the past few years have conclusively established that. What is still interesting researchers is the way visual materia! is absorbed, the ways in which visuals should be used, and how they should be designed, developed and presented, and research already shows that their usefulness notwithstanding, they should be used intelligently with a realistic appraisal of their uses. Clearly they are not endlessly applicable, nor is one type of visual useful in all circumstances.

The variables are many. The subject matter influences the kinds of visuals used: geography, for example, is likely to use a large number of maps and graphs. Similarly the behavioural objective will have an effect: whether it is factual or visual information which needs to be understood, explained or rehearsed, and what needs to be recalled from the experience - concepts or facts.

The students themselves influence not only what is likely to be recalled but what form the visuals should take. Children, for example, learn differently from adults



who, because of their greater experience and knowledge, learn concepts with the pictures. Mental ability has been examined in its bearings on learning from visuals, and it appears that high IQs learn readily from either the visual or verbal approach. Lower IQs achieve better from visual aids than they do from verbally emphasized work as long as those aids are keyed to the level of the students. Indeed, visuals, in these circumstances, can act as excellent motivational devices.

Motivation is another variable in the effectiveness of visual education, as it is in most educational circles. Students learn any content matter much better when they are interested in what is before them. For this, visuals can be both a cause and an effect. Visual materials play an important role in raising motivation and interest, and the information they contain is better transmitted when motivation and interest are high. This situation is achieved, too, when the visuals are part of a programme which is seen by the students to be valid and attuned to their needs, a factor especially true of adults, and when the visuals are well incorporated with the material being taught.

Cultural factors may affect what students interpret as important and what they see as worthwhile learning techniques. In addition, such factors will influence what they absorb from a visual. Objects and concepts which are not in their own culture or which that culture underemphasizes may be



misinterpreted, or, indeed, not noticed at all in visual materials. Visuals can be very effective in this context in realigning cultural acceptance patterns.

The way in which the illustrations are presented is yet another variable. Are they to be in a programme paced by the teacher or one where the students work at a more leisurely or self-controlled pace? Whichever is chosen, the matter of exposure time becomes increasingly important, as numerous studies have shown. A system such as charts allows the students to refer to the visual at any time they need. So, too, do textbook and workbook illustrations. Slides and transparencies may have much the same advantage if the students are given enough viewing time. Films, television and the like are excellent for the presentation of concepts involving movement, but frame time is externally dictated, and the speed at which viualized information passes before students may become a cause of interference.

Interference must be kept in mind when considering what form the visuals will take, and here one should give attention to the ideas of design and realism. All visuals should be clear to all students which means that their size, clarity, spacing and color are all important. It sounds unnecessary to say that a picture in education should not be too small and should not be too large. If it is too small, many details will be indecipherable and hence confusing; if it is too big, a sense of unity will be sacrificed as students,



in trying to scan the whole picture, will tend to have their attention taken by a small section. Spacing is part of this concern as well. When parts of the visual are spaced well, the scanning eye moves smoothly and logically from one to another.

The matter of complexity or simplicity is a feature which is in the context of interference. As was noted in Chapter II the realism continuum does not reflect the "learning continuum" and increasing detail tends, instead, to decrease the teaching potential of the visual. However, this remains an inconstant feature. Dwyer found in his study that realistic, colored photographs were useful in certain proscribed areas of a lesson on the part of the heart. All the same, on the whole, studies suggest that less complex illustrations are more readily understood and better for the transfer of information.

In the context of realism should be considered the matter of color. Again it is hard to be definite in any conclusions for sometimes it is true that black and white illustrations can be extremely effective - the contrast is strong. On the other hand, color can be important for clarification, for attention-getting, for visibility considerations, for the interpretation of relationships and for the subtle transmission of attitudes. Children tend to react to color, especially strong color, more definitely than adults who are accustomed to the symbolism of black



and white and the ideas it transmits, but all people can absorb a great deal from color. Wise use of color can add to the learning experience; undisciplined use adds nothing and can become an overload, resulting in a decrease of understanding.

Using the visuals requires cueing methodology. Adults in particular need to feel in touch with the work being presented and prefer to be told of the learning objectives in front of them. This has the advantage of focusing their attention and receptive concentration. Questions have a similar effect, written or oral, and are also vital for follow-up recall. Printed material, such as arrows, may continue this role. This rehearsal is important to the retention of learned material. All of these gambits, including patches of color in an otherwise black and white illustration, are further variables.

What this points to is that there is no single approach to visuals, and that there are no hard and fast rules for their use. The variables are vitally concerned in what is right for one situation and what is right for another; in order to adapt a visual for another use it may be necessary to change only one or two of these aspects. Educational effectiveness is dependent upon small things and cannot be made constant.

The variables do not change the fact that visuals are useful but they do mean that commercially made products can



seldom fit this fluctuating mould. They cannot take into account the varying needs of students in different learning The whole idea of visuals is that they environments. should respond to just those environments and the needs assessed on an individual basis, that they should deal with learning problems and learning situations which may be unique to an age group, a subject, a cultural attitude or a teaching form. Here lies the great strength of the No matter what the artisti teacher-made visual aid. skills of the teacher, it is he or she alone who recognizes and understands the variables. Only the teacher can produce visual materials which are that immediate response to the situation, and only those are effective teaching aids.

The teacher, then, should not be daunted by the artistic requirements. Experience teaches a lot of ways to deal with these needs, and furthermore brings more ideas. There is needs to turn to another person to translate ideas, for this introduces the potential interference of a third party and his/her interpretations. Necessity is the mother of invention, and it is that which makes teachermade visual aids a continually vital part of the ESL classroom.



APPENDIX I

Sample Passage for Listening Comprehension with Visual

I SIMPLE

- (a) This woman is tired. She has been shopping most of the day. She is wearing a brown coat and on her head she has an orange hat. She is carrying two bags.
- (b) This girl has been at school but now she is going home with her mother. She is wearing blue jeans, a blue hat and a red sweater.

II SLIGHTLY HARDER

- (a) Mark Booth's waiting for the bus and he's been waiting quite a while. He's cold so he's put his hands in his pockets to keep them warm. He's wearing dark jeans and a yellow jacket, as well as a blue hat.
- (b) Jane Stevens is talking to a friend of hers.

 She's going home from school. She's got on a blue coat and red boots and she's a blonde.



III CONVERSATION

/A/ Goodness, aren't these buses slow. If it doesn't come soon, I think I'll drop. I'm so tired.

/B/ I thought you looked rather weary. What've you been doing? Shopping?

/A/ Yes, I thought I'd get a few things I needed.

But a few things always turns into a lot more.

What have you been doing?

/B/ Oh, I had to take my daughter to the dentist so I picked her up from school. When I left the house this morning it was really quite cold so I put on this quilted coat and my fur hat. Now I'm so hot! I'll be glad to get home and shed everything.

Ah, I'm just looking forward to getting rid of parcels, hat, coat and shoes and putting my feet up.



APPENDIX II

POSSIBLE SCRIPT FOR ORDER! ORDER!

It was spring. The tree was in bud and flowers were beginning to appear. Within a few weeks, the tree was a mass of blossom in pink and red. As the weeks passed, spring faded into summer. The blooms on the tree gave way to leaves. The days grew warmer and the tree provided shade for people walking in the park and for the children who played under it with their toys in the long days.

Gradually these long days began to shorten. The green leaves began their change to red and gold. Before many more weeks had passed the snow had arrived once more. Winter had returned.



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