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ABSTRACT

This report is the third in a series of annual reports to the President and Congress on current patterns of Federal funding of research, development, and other science-related activities at universities, colleges, and other nonprofit institutions. The various categories covered in the report are: (1) trends in Federal support to universities and colleges; (2) total program activities; (3) Federal obligations for academic science; (4) Federal obligations for research and development; (5) Federally funded research and development centers administered by universities and colleges; (6) Federal support to independent research institutions; and (7) Federally funded research and development centers. Three concluding appendices contain technical notes, statistical tables, and information regarding Federal obligations to 2-year institutions. (HS)

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A REPORT TO THE PRESIDENT AND CONGRESS

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CONGRESS

Support to Universities, and Selected Nonprofit Institutions, Fiscal Year 1970

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E R R A T A

- P. 6 In the chart entitled, "Geographic distribution of total Federal obligations to universities and colleges, FY 1970, per degree granted, 1967-68," delete the word, "Million," from each of the lines shown in the legend. Amounts shown in the legend are actually in whole dollars.
- P. 14 In the chart entitled, "Geographic distribution of Federal R&D obligations to universities and colleges, FY 1970, per Ph.D. degree awarded in the sciences and engineering, 1967-68," dollar amounts were omitted from the legend. The legend should read as follows:

1st 10	:	\$160,462	-	\$989,167
2nd 10	:	\$117,165	-	\$148,205
3rd 10	:	\$ 94,088	-	\$117,140
4th 10	:	\$ 79,334	-	\$ 90,603
All others:	:	\$ 34,648	-	\$ 78,390

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A REPORT TO THE PRESIDENT AND CONGRESS

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GENERAL NOTES

- The Federal obligations in this study were reported by 13 agencies that accounted for more than 95 percent of all Federal support to universities and colleges and approximately 85 percent of Federal obligations to research institutes and Federally Funded Research and Development Centers administered by nonprofit institutions.
- Hospitals, professional and technical societies, academies of science, museums, and philanthropic foundations are not included in this study. These types of organizations account for approximately 40 percent of total Federal R&D support to nonprofit institutions.
- Federal obligations are reported for the Federal fiscal year, ending June 30 of the year shown.
- Educational data are for the academic year, 1967-68.

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acknowledgments

This report was developed in the Statistical Surveys and Reports Section, National Science Foundation, under special guidance of Kenneth Sanow, Head. The survey was conducted and the report prepared under the direction of William L. Stewart, Study Director, Federal Academic Science Studies Group. The data were compiled and the report written by Cecelia Hilgert and Robert Loycano. Irene Woodall supervised the preparation of statistical material.

LETTER OF TRANSMITTAL

Washington, D.C.

DEAR MR. PRESIDENT:

I have the honor to transmit to you this report, *Federal Support to Universities, Colleges, and Selected Nonprofit Institutions, Fiscal Year 1970* as required by the National Science Foundation Act as amended through August 1968.

Respectfully,
W. D. McELROY,
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.

FOREWORD

This report is the third in a series of annual reports to the President and Congress on current patterns of Federal funding of research, development, and other science-related activities at universities, colleges, and other non-profit institutions, as required by the 1968 amendment to the NSF Act of 1950. The report is designed to serve as an aid to the determination of science funding policies by providing analyses of the agency, geographic, and institutional patterns of Federal academic science support.

The report was prepared under the general direction of Charles E. Falk, Director, Division of Science Resources Studies. The Data Management Systems Office, Edgar W. Barrett, Data Management Systems Officer, was responsible for processing the data.

**W. D. McElroy, Director
National Science Foundation**

July 1971.

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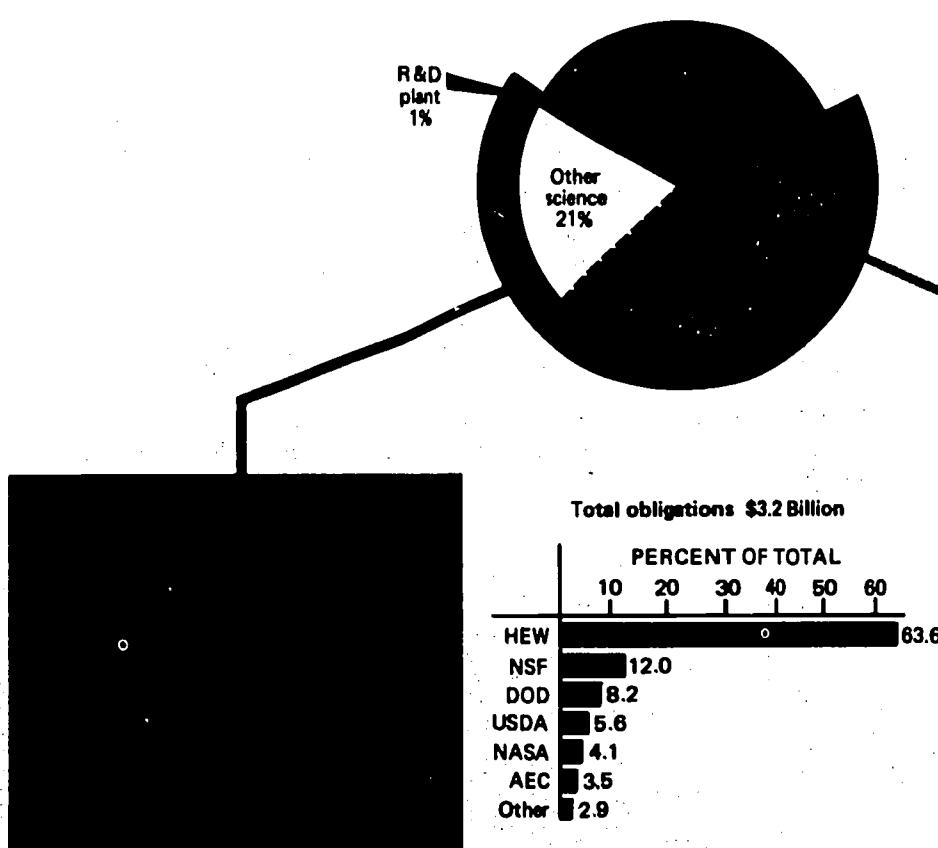
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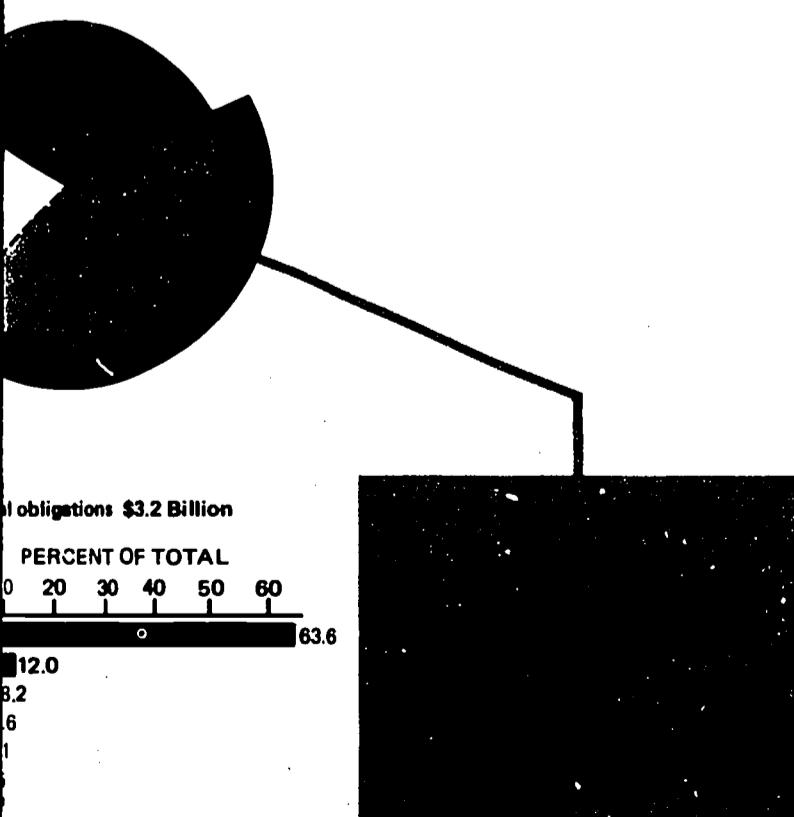
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Distribution of Federal support to universities and colleges, by type of activity and agency, FY 1970



SUMMARY

colleges, by type of activity and agency, FY 1970



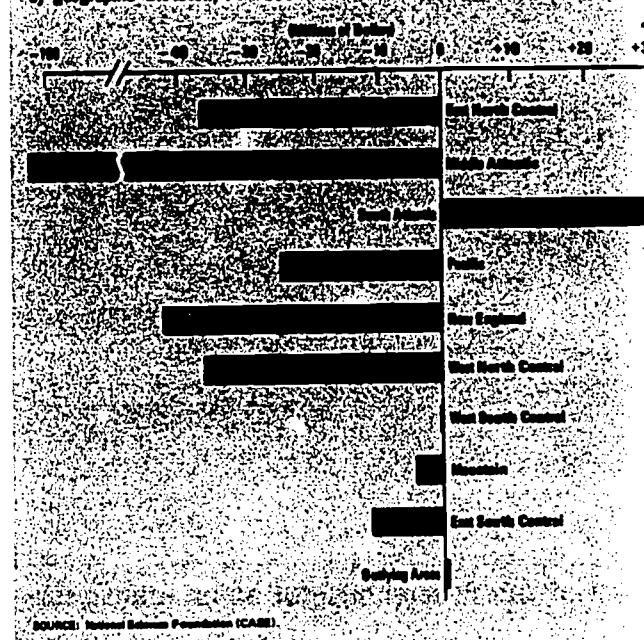
TOTAL PROGRAM SUPPORT

Between fiscal years 1969 and 1970 Federal funds to universities and colleges declined by \$227 million, or nearly 7 percent, to a level of \$3,227 million. This represents the lowest level of funding since 1966 and the first decline, in actual dollars, in direct Federal support since 1963, the first year for which complete data are available. Much of the decline in Federal support may be attributed to a recent shift in Government policy away from direct Federal grants for facilities construction to subsidized interest charges on loans from non-Government sources. Initiation of this new policy had the effect of reducing the Office of Education's (OE's) grants for the construction of facilities from \$248 million in fiscal year 1969 to \$73 million in fiscal year 1970.

AGENCY DISTRIBUTION

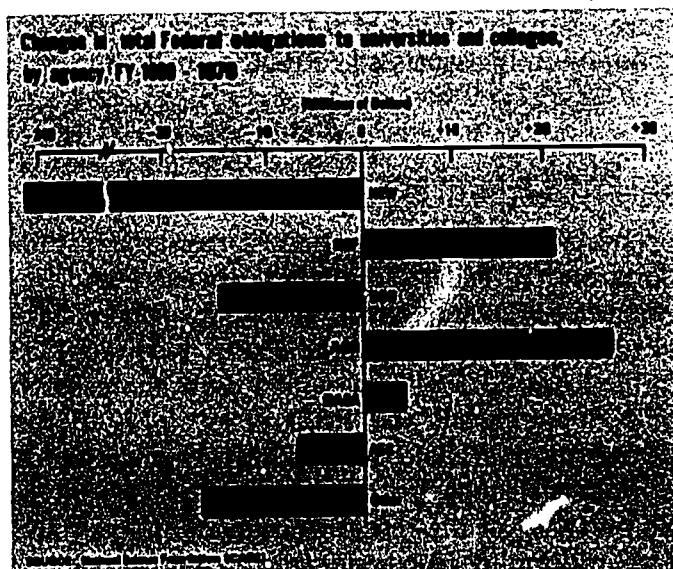
Of the 13 agencies included in this study, 6 allocated 97 percent of all Federal obligations to universities and colleges in 1970. Despite a 1969-70 net drop of \$242 million in total direct support from the Department of Health, Education, and Welfare (HEW) for higher education, this agency continues to be the principal source of Federal agency funds—awarding 64 percent of all Federal obligations in 1970. At considerably lower levels were the National Science Foundation (NSF) and the Department of Defense (DOD). Together, these agencies accounted for less than one-third of the HEW total and about 20 percent of the Federal total. Fluctuations in funding levels of NSF, DOD, and the remaining three major agency sources of support—Department of Agriculture (USDA), National Aeronautics and Space Administration (NASA), and Atomic Energy Commission (AEC)—were small and did not exhibit any particular pattern of change.

Changes in total Federal obligations to universities and colleges, by geographic division, FY 1969-1970

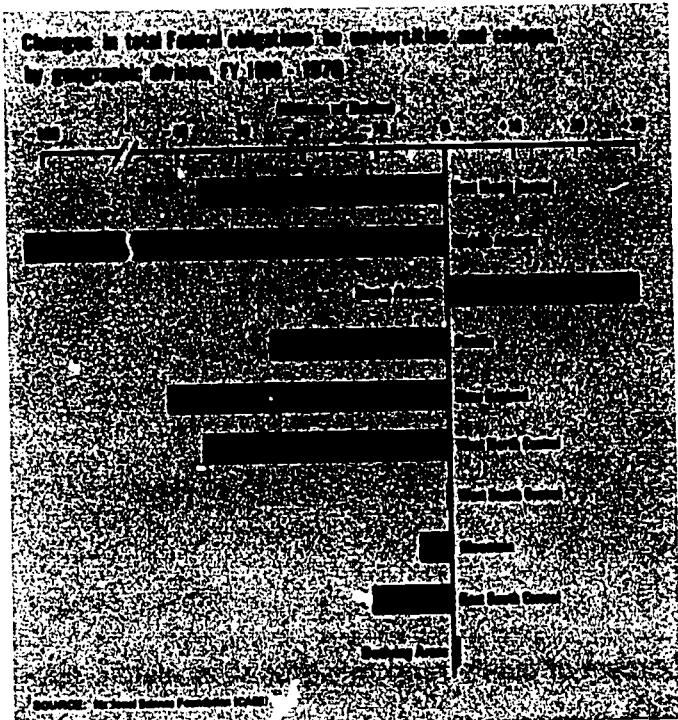


GEOGRAPHIC DISTRIBUTION

In 1970 the East North Central division replaced the Middle Atlantic States as the leading group of States receiving Federal support. Of the \$1 million decline in funds to the Middle Atlantic States, New Jersey accounted for \$44 million; New York, \$42 million; and Pennsylvania, \$1 million. The 47-percent drop in support to New Jersey is in large part due to a return to a more normal funding level for that State, whose total in 1969 was increased by a \$35 million grant to the New Jersey College of Medicine and Dentistry. Among the nine major geographic divisions, the only increase in 1970 support, compared with 1969, occurred in the third-ranked South Atlantic division, which showed a net increase of 6 percent, or \$29 million. The increase in the South Atlantic total for 1970 was primarily attributable to higher totals for Florida, the District of Columbia, and Virginia.



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GEOGRAPHIC DISTRIBUTION

In 1970 the East North Central division replaced the Middle Atlantic States as the leading group of States receiving Federal support. Of the \$102 million decline in funds to the Middle Atlantic States, New Jersey accounted for \$44 million; New York, \$42 million; and Pennsylvania, \$16 million. The 47-percent drop in support to New Jersey is in large part due to a return to a more normal funding level for that State, whose total in 1969 was increased by a \$35 million grant to the New Jersey College of Medicine and Dentistry. Among the nine major geographic divisions the only increase in 1970 support, compared with 1969, occurred in the third-ranked South Atlantic division, which showed a net increase of 6 percent, or \$29 million. The increase in the South Atlantic total for 1970 was primarily attributable to higher totals for Florida, the District of Columbia, and Virginia.

RANKING OF INSTITUTIONS

Although funding to the first 100 institutions in total Federal support fell by 4 percent—\$98 million—from 1969 to 1970, relative concentration of funds for this group of institutions increased from 69 percent to 71 percent of total obligations to all universities and colleges.

The Massachusetts Institute of Technology (MIT), the leading recipient of Federal funds for each of the last 8 years, in 1970 became the first institution to go over the \$100 million level in Federal support. The figure for MIT was 70 percent higher than the total reported for second-ranked University of Michigan. DOD and NASA allocated 17 percent and 20 percent, respectively, of their total academic R&D funds to MIT, and accounted for 70 percent of total Federal obligations to this institution in 1970.

For other institutions in the first 100, however, there was a wide range of funding changes. The University of Cincinnati moved up from 71st position in 1969 to ninth place in 1970. The unusually high ranking for this university in 1970 was the result of a \$34.2 million—263-percent—increase in Federal support, virtually all of it from the National Institutes of Health (NIH) for the construction and improvement of medical school facilities. Harvard University, on the other hand, experienced a \$14 million—20-percent—decline in Federal funds, lowering this institution from second place in 1969 to fourth place in 1970.

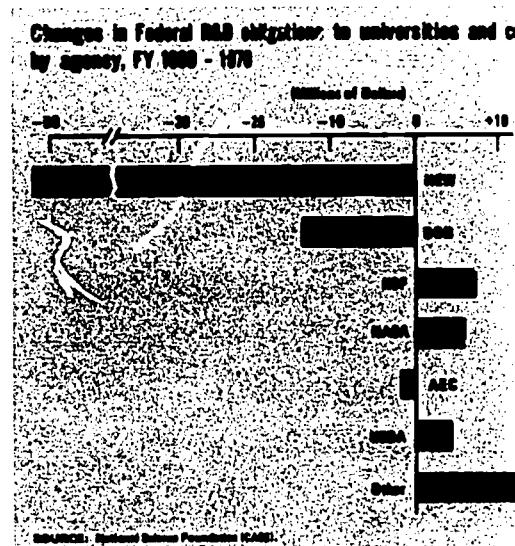
ACADEMIC SCIENCE

The impact of the 1969-70 reduction upon individual types of programs varied markedly. Academic science funding fell by \$193 million, or 8 percent—a dollar decrease nearly 6 times the \$33 million decline, or 3 percent, in nonscience support.

Among the six agencies providing major academic science support, \$100 million or more, HEW, DOD, and AEC reported reductions of \$245 million (19 percent), \$13 million (5 percent), and

\$7 million (5 percent), respectively. The increases reported by the remaining agencies were not sufficient to offset the sharp reduction in the level of HEW funding. However, the Department of Agriculture, placing more emphasis on its agricultural extension program, showed a significant increase in 1970—\$26 million, or 17 percent, over the previous year.

HEW's quarter-billion-dollar decline in academic science support had a considerable effect on the science-nonscience mix of funds, at both the agency and Government-wide levels. In 1970 HEW academic science support fell below its non-science total for the first time. At the all-agency level, nonscience funding, although declining by \$33 million, increased its share of total Federal program support for the sixth consecutive year to 33 percent.



percent of the Federal total for all airports.

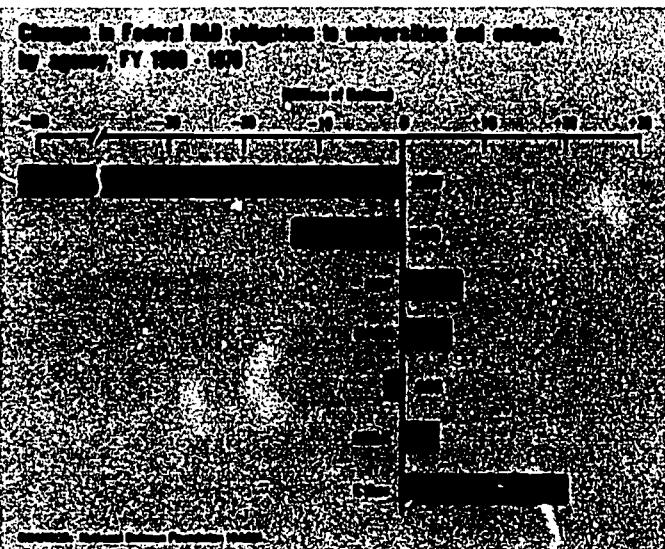
The most notable 1969-70 R&D cured in the totals reported by HEW whose R&D operations support level percent and 5 percent, respectively. subdivision of HEW, except the Food Administration (FDA), reported sizable in its academic R&D totals. DOD's R&D total was in large part a result of congressional requirement that DOD report of research to that which has apparent relationship to its defense (section 203 of the Armed Services Act, Fiscal Year 1970).

RESEARCH AND DEVELOPMENT

Federal obligations for the performance of research and development at universities and colleges in 1970 amounted to \$1,464 million, or 45

CONCENTRATION OF R&D FUNDS

Between 1969 and 1970 the 2-percent reduction in Federal R&D obligations was accompanied by a 5-percent reduction in the number of institutions receiving such support. The 10 institutions awarded Federal R&D funds in 1969 received the largest amount.



percent of the Federal total for all academic support.

The most notable 1969-70 R&D declines occurred in the totals reported by HEW and DOD whose R&D operations support levels fell by 8 percent and 5 percent, respectively. Every major subdivision of HEW, except the Food and Drug Administration (FDA), reported sizable declines in its academic R&D totals. DOD's lower 1970 R&D total was in large part a result of the congressional requirement that DOD limit its support of research to that which has a direct and apparent relationship to its defense mission (section 203 of the Armed Services Appropriations Act, Fiscal Year 1970).

CONCENTRATION OF R&D FUNDS

Between 1969 and 1970 the 2-percent reduction in Federal R&D obligations was accompanied by a 5-percent reduction in the number of academic institutions receiving such support. Of the 585 institutions awarded Federal R&D funds in 1970, the 10 receiving the largest amounts accounted

for \$403 million. Although representing less than 2 percent of all universities and colleges receiving Federal R&D support in 1970, these 10 institutions account for more than one-fourth of total R&D funds and more than one-fifth of total Ph.D. degrees awarded in the sciences and engineering. The concentration of total R&D funds going to this group of institutions increased slightly—from 26.5 percent in 1969 to 27.5 percent in 1970. The largest R&D increase at the institution level, \$6.2 million, went to the University of California-San Diego.

FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTERS ADMINISTERED BY UNIVERSITIES AND COLLEGES

Federally Funded Research and Development Centers (FFRDC's) administered by universities and colleges, 36 separately incorporated organizations performing R&D work upon direct request or under a broad charter from a Federal agency, received \$961 million in Federal support in 1970. This sum, representing a 5-percent increase over 1969, was the largest amount of funds ever reported for these institutions. The Atomic Energy Commission and the National Aeronautics and Space Administration together accounted for more than four-fifths of total Federal support to academically associated FFRDC's in 1970.

SELECTED NONPROFIT INSTITUTIONS

The 54 independent, nonprofit research institutions and 27 Federally Funded Research and Development Centers administered by nonprofit institutions included in this study received \$158 million and \$273 million, respectively, for research and development and R&D plant in 1970. The Department of Defense was the leading source of Federal support, accounting for \$82 million, or 52 percent, of the research institution total, and \$162 million, or 59 percent, of the FFRDC total.

BACKGROUND

This report is intended to fill two roles. It constitutes the third in a series of annual reports to the President and Congress, authorized by Section 3(a)(7) of the National Science Foundation Act of 1950, as amended in August 1968, on Federal obligations for research and development and R&D plant at institutions of higher education and selected other nonprofit organizations. It also represents the sixth annual report on Federal obligations for academic science and other educational activities. This latter responsibility was undertaken by the National Science Foundation on behalf of the Committee on Academic Science and Engineering (CASE) of the Federal Council on Science and Technology (FCST) which, in 1965, established the data collection system that now serves the needs of both report objectives.

As a report to the President and Congress, this publication contains several sections that focus on the distribution and pattern of Federal obligations for research and development among the Nation's universities, colleges, associated Federally Funded Research and Development Centers (FFRDC's), and selected other nonprofit institutions. The report provides analyses of this Federal support by geographic locality and institution including comparisons of the relationship between the distribution of Federal R&D support and certain educational variables such as the distribution of science degrees awarded. Sections of the report primarily devoted to a discussion of Federal R&D obligations are 4 and 5 of part I, and all of part II.

The FCST's scope of interest covers Federal R&D support to universities, colleges, associated FFRDC's, but also Federal obligations amounting to nearly \$2 billion annually for science and nonscience programs.¹ The emphasis in the remaining sections, therefore, is placed on two broader views of Federal involvement in higher education: (1) academic science support; (2) total program support (encompassing science and nonscience activities).

This report is expected to provide an analytical tool to the science policymaking branches of the Government in developing programs for (1) improving scientific capability among the various institutions, and (2) improving the geographical and national balance in the distribution of Federal support. The latter objective involves an examination of funding patterns within the context of an agency's scientific mission and the availability of resources (both actual and potential) among the various States and institutions.

SCOPE AND LIMITATIONS OF DATA

Data included in this report for fiscal year 1968 were reported by 13 Federal agencies:

Department of Agriculture
Atomic Energy Commission
Department of Commerce
Department of Defense
Department of Health, Education, and Welfare

¹ The CASE data system, as originally established, did not encompass data for "selected other nonprofit organizations."

INTRODUCTION

The FCST's scope of interest covers not only Federal R&D support to universities, colleges, and associated FFRDC's, but also Federal funds amounting to nearly \$2 billion annually for other science and nonscience programs.¹ The emphasis in the remaining sections, therefore, is placed on two broader views of Federal involvement in higher education: (1) academic science support and (2) total program support (encompassing science and nonscience activities).

This report is expected to provide an analytical tool to the science policymaking branches of Government in developing programs for (1) increasing scientific capability among the various institutions and (2) improving the geographical and institutional balance in the distribution of Federal funds. The latter objective involves an examination of funding patterns within the context of an agency's scientific mission and the availability of scientific resources (both actual and potential) among the various States and institutions.

SCOPE AND LIMITATIONS OF DATA

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Department of Agriculture
Atomic Energy Commission
Department of Commerce
Department of Defense
Department of Health, Education, and Welfare

¹The CASE data system, as originally established, did not encompass data for "selected other nonprofit institutions."

Department of the Interior
National Aeronautics and Space Administration
National Science Foundation
Office of Economic Opportunity
Department of Housing and Urban Development
Department of Transportation
Department of Labor
Agency for International Development

Eight agencies were included in the survey for each of the years 1963-67, 12 for 1968 and 1969, and 13 for 1970. The additional agencies in each of the last 3 years constitute the "other agencies" category used throughout the report in tabulations and discussions concerned with agency detail.

Excluding the Atomic Energy Commission, which reported in terms of costs, dollar amounts represent actual obligations incurred by the agencies during a fiscal year, regardless of when the funds were expended. Funds from the responding agencies comprised more than 95 percent of all Federal support going to the institutions covered by this study. In 1970 these institutions included 2,352 universities and colleges, 36 academically associated FFRDC's, 54 selected research performing organizations, and 27 FFRDC's managed by nonprofit institutions.

Obligations data for universities and colleges include Federal support awarded directly to individual institutions. Excluded are loans, funds for Federal employee training, and funds obligated to State agencies for support of higher education. Annual totals shown in this report represent funds obligated by Federal agencies during the Government's fiscal year, beginning July 1 and ending

June 30. The date of award as recorded by a Federal agency may differ from the date an award is received or accepted by an institution. For this reason, there may not be strict comparability between totals reported by Federal agencies and those computed by the institutions themselves.

Another source of difference between Federal agencies' and individual institutions' totals is the reporting of obligations to "central systems"—obligations that are reported under a university systemwide entry and not in terms of the final

distribution to individual institutions in the system. The funding agency usually report the individual institutional amounts because the agency is not able to determine at the time the award is made how the funds will be distributed among institutions within the "Central system" totals in this report. Obligations to more than \$34 million obligated to central systems in fiscal year 1970.² Although these obligations represent only 1 percent of total obligations to all U.S. institutions of higher

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cation, the ratio of these undistributed obligations to a system's total obligations is generally much higher than 1 percent. The effect on some individual institutional totals can be significant since obligations reported for member institutions of a system are understated to the extent that "central system" obligations filter down to them.

²A list of the 21 systems receiving obligations in fiscal year 1970 can be found in the technical notes, appendix A, p. 34. Dollar amounts are shown in appendix tables C-13, C-14, C-15.

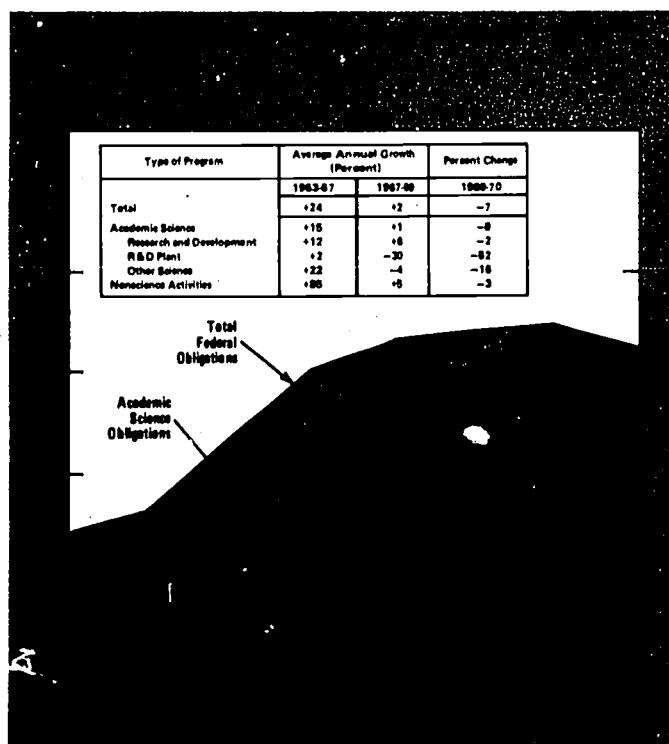
PART I

federal support to universities and colleges

SECTION 1.

trends in federal support to universities and colleges

In fiscal year 1970 Federal obligations to institutions of higher education declined by 7 percent to \$3,227 million, the lowest level since 1966. Federal support to universities and colleges increased in each of the years between 1963 and 1969. The decline of total Federal aid in 1970, therefore, represented the first reduction in funds going to institutions of higher education in the 8 years for which data have been available.



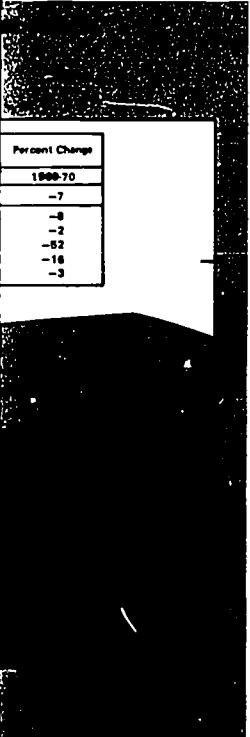
There are notable differences between Federal aid to higher education and the rest of the economy. (1) total Federal budget outlays of the economy), (2) gross national product (GNP) and (3) total higher education expenditures. In the 1967-70 period Federal obligations to higher education programs and activities showed minimal growth in 1968 and 1969, declined by 7 percent and 8 percent respectively, while total Federal budget outlays and the GNP each grew at an average annual rate of 7 percent over the 3-year period. Total higher education expenditures by institutions of higher education increased at an annual rate of 2 percent over this interval. This latter comparison shows that the proportion of total higher education expenditures (exclusive of loans) borne by the Government has shown a marked increase. In 1967, for example, Federal obligations to universities and colleges amounted to approximately 14 percent of total expenditures by all educational institutions; by 1970 this proportion had risen to 14 percent.

TOTAL OBLIGATIONS BY AGENCY ACTIVITY

In each year since 1963 institutions of higher education have received between one-half and three-fourths of their total Federal obligations from two agencies, HEW and NSF. Since 1967, HEW has obligated more funds to academic

support to universities and colleges

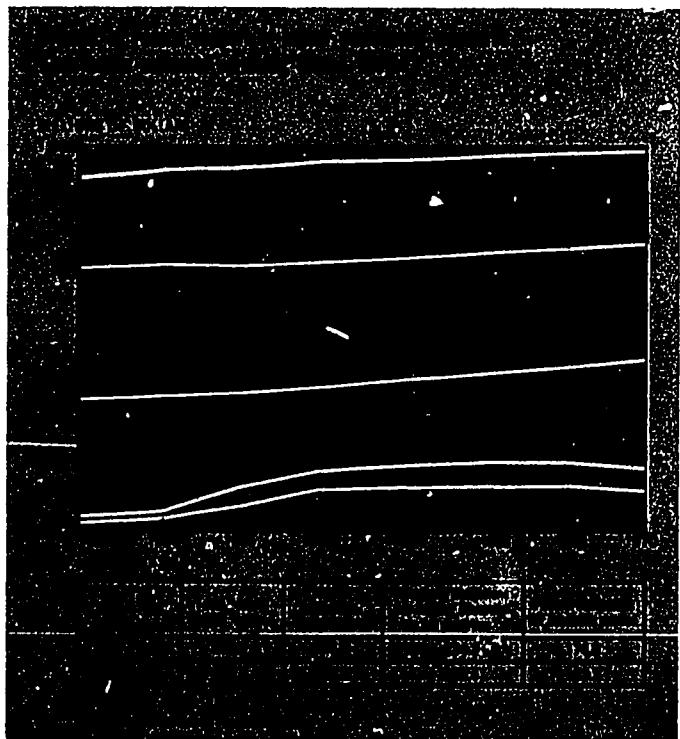
igations to institutions by 7 percent to since 1966. Federal obligations increased in 1963 and 1969. The in 1970, therefore, in funds going to in the 8 years for e.



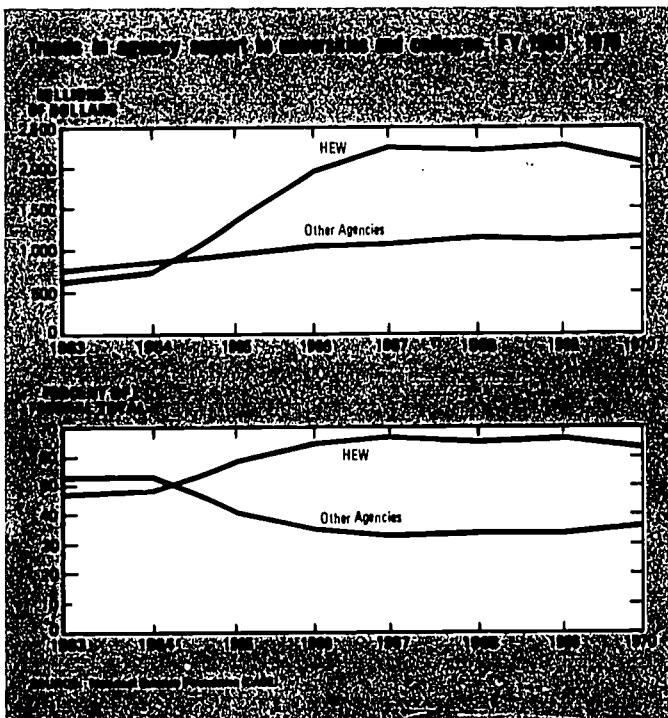
There are notable differences between the trend in Federal aid to higher education and the trends of (1) total Federal budget outlays (to all sectors of the economy), (2) gross national product (GNP) and (3) total higher education expenditures. In the 1967-70 period Federal obligations for all higher education programs and academic science showed minimal growth in 1968 and 1969 and declined by 7 percent and 8 percent in 1970, respectively, while total Federal budget outlays and the GNP each grew at an average annual rate of 7 percent over the 3-year period. Moreover, expenditures by institutions of higher education increased at an annual rate of 9 percent over this interval. This latter comparison illustrates that the proportion of total higher education expenses (exclusive of loans) borne by the Federal Government has shown a marked decline. In 1967, for example, Federal obligations to universities and colleges amounted to approximately 19 percent of total expenditures by academic institutions; by 1970 this proportion had dropped to 14 percent.

TOTAL OBLIGATIONS BY AGENCY AND TYPE OF ACTIVITY

In each year since 1963 institutions of higher education have received between two-thirds and three-fourths of their total Federal support from two agencies, HEW and NSF. Since 1965 HEW has obligated more funds to academic institutions



than all other agencies combined, and more than 5 times as much as second-ranked NSF—although HEW's funding in the last 3 years has shown a slight decline. Over the past 3 years NSF's share of the Federal total for all program support has fluctuated between 11 percent and 13 percent. The proportion of funds accounted for by the other agencies, after falling off sharply from 35 percent of the Federal total in 1963 to 21 percent



in 1967, rose steadily since then to more than 24 percent in 1970. Much of this increase may be attributed to the inclusion of five agencies that, prior to 1968, were either not in existence or did not award sufficiently large amounts of funds to universities and colleges to be included in earlier reports¹

The impact of the 1969-70 reduction upon individual types of programs varied markedly. Academic science funding fell by \$193 million, or 8 percent, a decrease nearly 6 times the \$33 million decline, or 3 percent, in nonscience support. The sizable decrease in academic science sup-

¹These agencies are the Agency for International Development, the Office of Economic Opportunity, and the Departments of Housing and Urban Development, Labor, and Transportation.

port, following 2 years of minimal growth, brought Federal academic science outlays to the lowest dollar level since 1966, and reduced the academic science portion of total program support to 15 percent. Nonscience funding, on the other hand, although declining by \$33 million, increased its share of total program support for the sixth consecutive year, from 6 percent in 1964 to 33 percent in 1970.

Much of the 1969-70 decline in Federal support may be attributed to a recent shift in Government policy away from direct Federal support of facilities toward the subsidizing of interest payments on loans financed through non-Government sources. This new policy had the effect of reducing the Office of Education's grants for the construction of facilities by \$175 million between 1969 and 1970.

Academic science activities reflected the same pattern of change found at the Federal-wide level for most of the major funding agencies. The pattern for the National Science Foundation, however, in the last 2 years varied considerably from the norm. In 1969 NSF's total support declined 13.2 percent, compared to a 0.5-percent increase at the all-agencies level; in 1970 NSF funding increased by 5.6 percent, while Federal obligations as a whole declined by 8.2 percent.

Following a period of continuous growth throughout the first 7 years, Federal obligations for academic research and development declined in 1970 by \$31 million, to \$1,464 million. Although the decrease in obligations for R&D operations measured only 2.1 percent, the smallest relative decline among the various categories of support, the impact on the actual level of R&D activities and the capability to perform future research was much greater than the 2.1-percent reduction would indicate—due to (1) the decreasing purchasing power of the R&D dollar and (2) sharp decline in R&D plant support. When the

port, following 2 years of minimal growth, brought Federal academic science outlays to the lowest dollar level since 1966, and reduced the academic science portion of total program support to 67 percent. Nonscience funding, on the other hand, although declining by \$33 million, increased its share of total program support for the sixth consecutive year, from 6 percent in 1964 to 33 percent in 1970.

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million decrease in R&D plant is taken into account, Federal support for the total R&D effort, including operations and plant, fell by 3.9 percent, nearly double the size of the drop in R&D operations alone.

Declines in HEW and NSF facilities support were the principal factors accounting for the 52 percent and 16 percent reductions in Federal obligations for R&D plant and "other science activities," respectively. Construction funds for academic science activities are used for both research and educational purposes. As such, these funds may be reported as R&D plant or as "other science activities."

R&D plant support, which was relatively stable from 1963-67, fell sharply since then. The 1970 total of \$28 million is less than one-half the amount obligated in 1969 and less than one-fourth the 1967 total. NSF and HEW accounted for four-fifths of the \$89 million drop in the level of R&D plant support since 1967. NSF's R&D plant obligations declined to \$19 million in 1970, approximately one-third of its 1967 total, while HEW's R&D plant support fell to nearly zero.

Obligations for "other science activities," reaching a peak of \$883 million in 1967, also have fallen steadily since then to \$676 million. This decrease stems from cuts in instructional facilities as mentioned above, and "other science activities" which include support for fellowships and traineeships. These types of direct student aid sponsored primarily by the Office of Education, National Institutes of Health and National Science Foundation are budgeted at lower levels in 1971 and 1972. Taking into account the current shift of emphasis away from direct support of construction, fellowship, and traineeship programs, it is expected that funding of "other science activities" will continue to decline in 1971 and 1972.

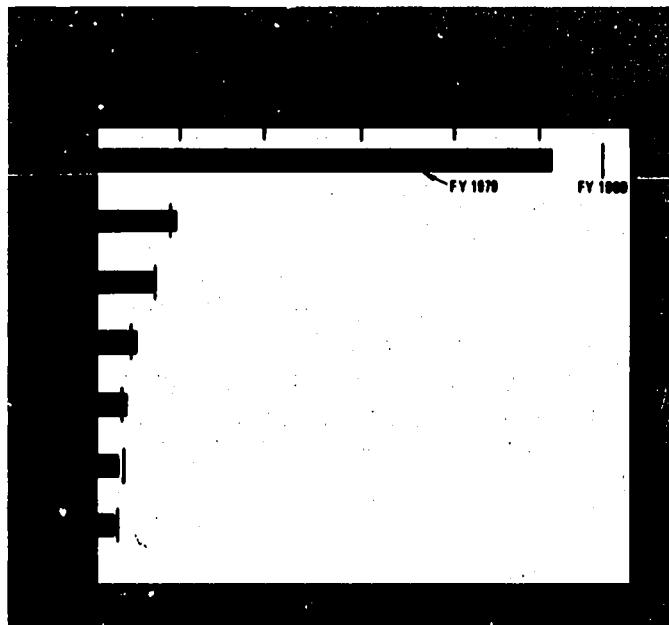
SECTION 2.

total program activities

Data on "total program activities" include Federal funding of academic science-research and development, R&D plant, and "other science activities"—and nonscience activities. This section presents an overview of the agency, geographic, and institutional patterns of Federal higher education support. Funding patterns shown in this and the following sections indicate that while Federal obligations to universities and colleges continued to be highly concentrated in 1970, the distribution of support was, in general, comparable to distribution patterns found for other related variables, such as population, degrees granted, and students enrolled.

AGENCY DISTRIBUTION

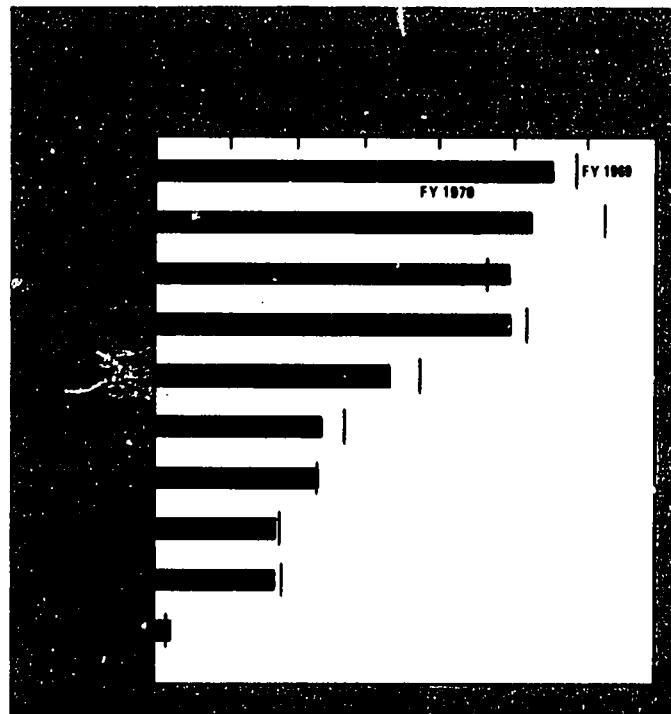
Of the 13 agencies included in this study, HEW allocated 97 percent of all Federal obligations to universities and colleges in 1970. Despite a \$102 million net decline of \$242 million in total support from HEW; this agency continued to be the principal source of Federal agency support, awarding 64 percent of Federal obligations to higher education in 1970. Following at considerably lower levels were NSF and DOD. Together, these two agencies accounted for less than one third of the HEW total and about 20 percent of the Federal total. Fluctuations in funding levels of NSF, DOD, and the remaining three major agency sources of support—the Department of Agriculture (USDA), National Aeronautics and Space Administration (NASA), and Atomic Energy Commission (AEC)—had little effect on the net change in total Federal support.



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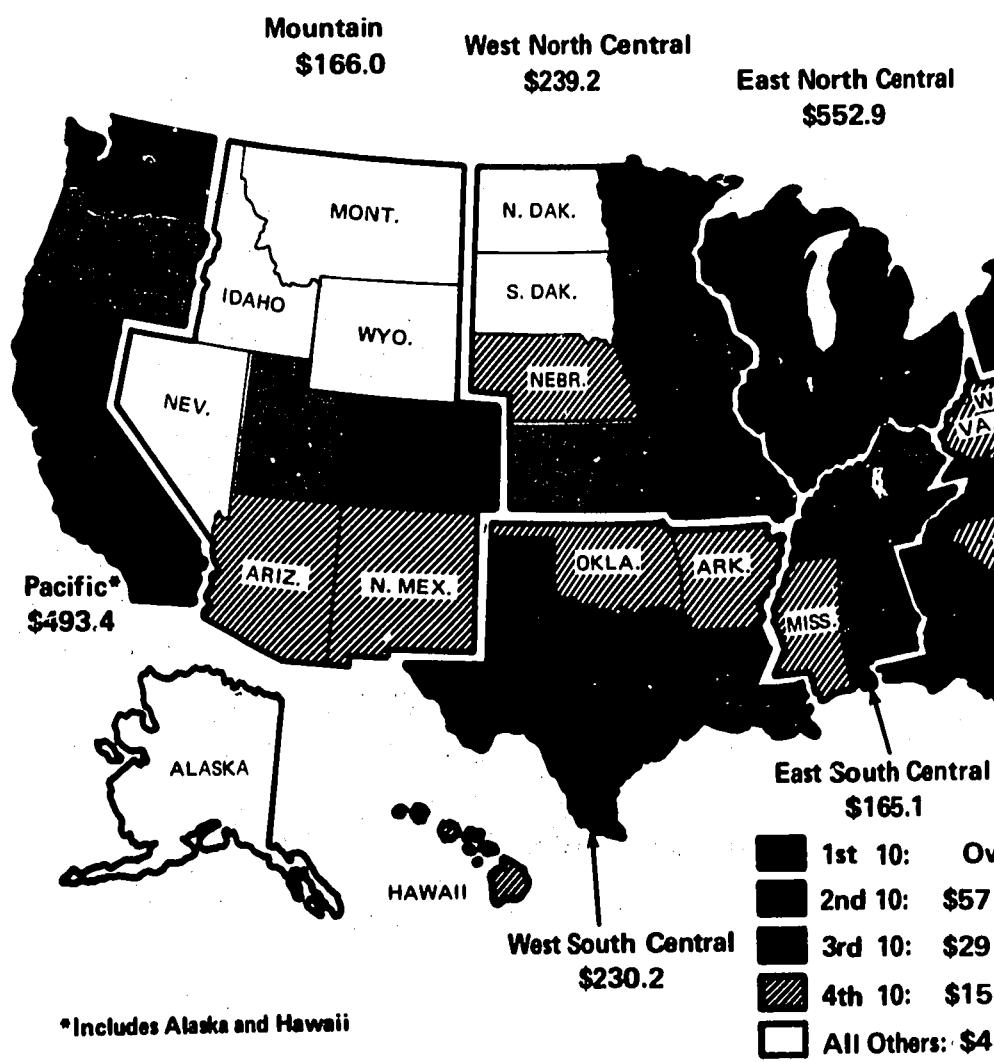
GEOGRAPHIC DISTRIBUTION

In 1970 the East North Central division replaced the Middle Atlantic States as the leading group of States receiving Federal support. The 1970 decline of \$102 million in funds to the Middle Atlantic States is in part due to a return to a more typical funding level for institutions in New Jersey, whose total in 1969 was inflated by a \$35 million facilities grant for the New Jersey College of Medicine and Dentistry. Among the nine major geographic divisions the only increase in 1970 support, compared with 1969, occurred in the third-ranked South Atlantic division, which

showed a rise of 6 percent, or \$29 million. Most of this increase is attributable to higher totals for two States, Florida and Virginia, and the District of Columbia.

Federal funds to academic institutions are concentrated in three eastern geographic divisions and one western geographic division of the Nation. The East North Central, Middle Atlantic, South Atlantic, and Pacific divisions, representing 21 States and the District of Columbia, accounted for 60 percent of institutions receiving Federal support in 1970, 63 percent of all bachelor's and

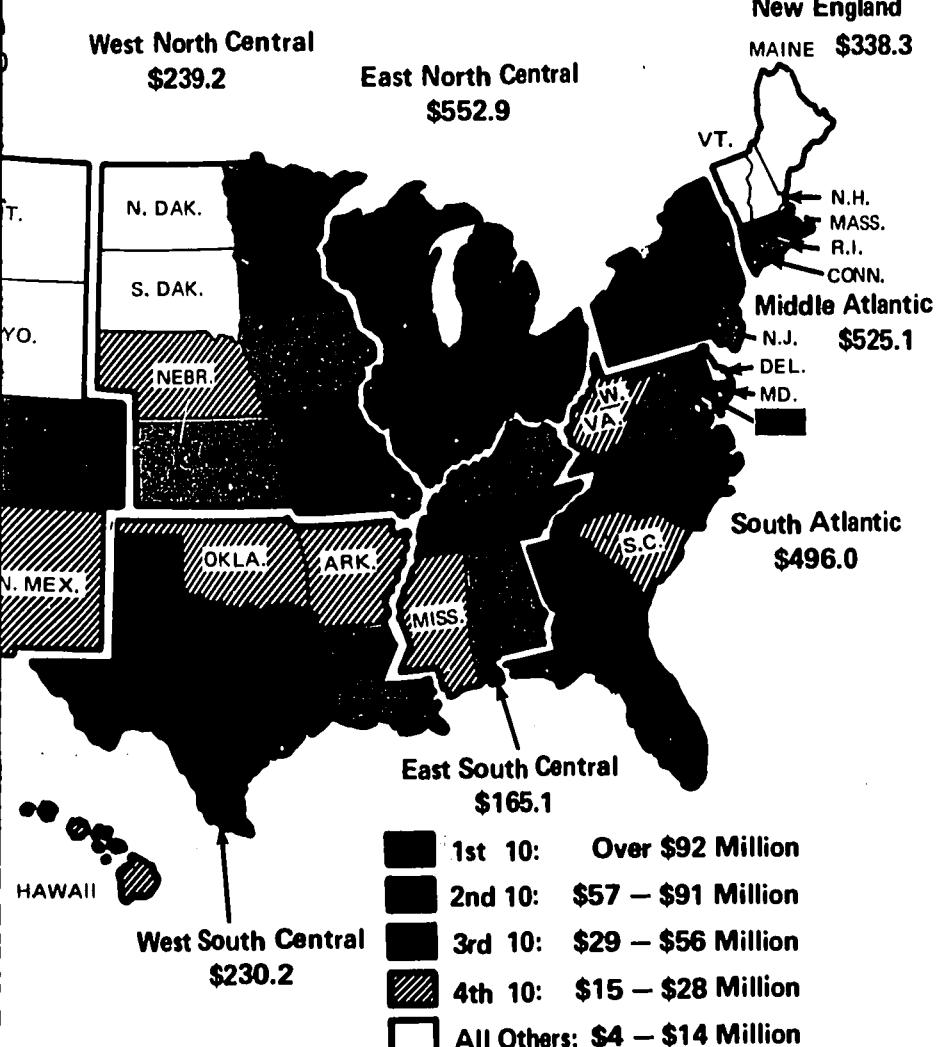
Geographic distribution of total Federal obligations to universities and
(Dollars in millions)



SOURCE: National Science Foundation (CASE).

Federal obligations to universities and colleges, FY 1970

(Dollars in millions)



higher degrees awarded, 66 percent of the population, and 64 percent of total Federal funds for higher education.

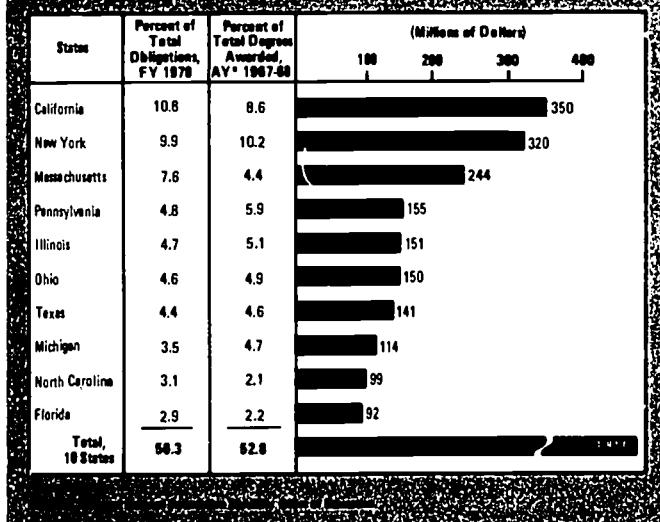
Of the first 10 States in Federal support, 8 are found in these divisions with 5 of the 8 located in the East North Central and Middle Atlantic divisions. These two divisions each received between 16 percent and 17 percent of total Federal obligations and between 17 percent and 18 percent of HEW and NSF obligations in 1970. The leading divisional recipient of funds for NSF, however, was the Pacific, with 21 percent of the NSF total.

Although Federal funds to institutions of higher education are directed more towards the eastern institutions, a westward shift which parallels recent rapid growth in population and the number of academic institutions is under way in the 24 States of the four western divisions, particularly in the Pacific States. In 1963 the number of institutions receiving funds in the western divisions was 284; by 1970 both the number of institutions and the number of dollars had tripled, compared to a somewhat smaller rate of growth for eastern institutions. From 1963-70 the percentage increase of Federal support to western universities and colleges was 16 percent higher than that for institutions in the rest of the United States.

Ten States accounted for 56 percent of total Federal aid to higher education in fiscal year 1970 and 53 percent of total degrees awarded in academic year 1968. Data for each of the 10 States except Massachusetts show reasonably close agreement between proportion of funds received and proportion of degrees awarded.

The disparity between the percentages of funds and degrees for Massachusetts can be explained in large part by the large amount of mission oriented R&D support. Funding of R&D activities at Massachusetts institutions comprised 68 percent of the State total, compared to a national average of 45 percent. At Massachusetts Institute of Technology and Harvard University, which together account for 64 percent of total support to the State, the ratio of R&D obligations to total sup-

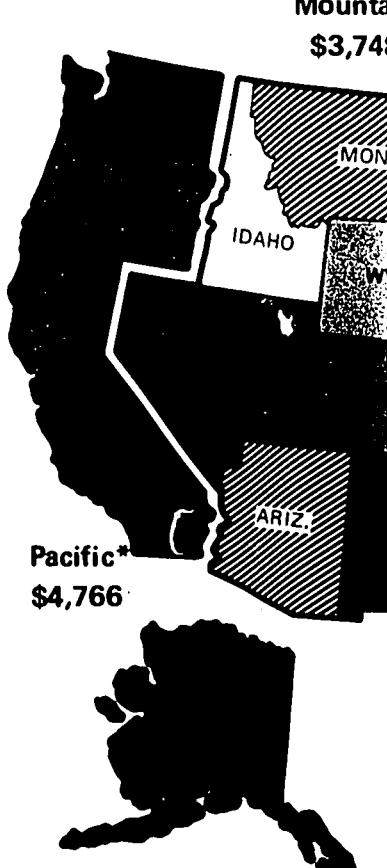
Geographic distribution of the FY 1978 Federal support



port was 92 percent and 68 percent, respectively.

California and New York accounted for one-fifth of total Federal support to universities and colleges, but also awarded nearly one-fifth of all degrees. California, New York, and Massachusetts, the three leading States in total Federal support, also placed more institutions in the first 100 in terms of amounts obligated than any of the other States. Twenty-four of the first 100 institutions were located in these three States.

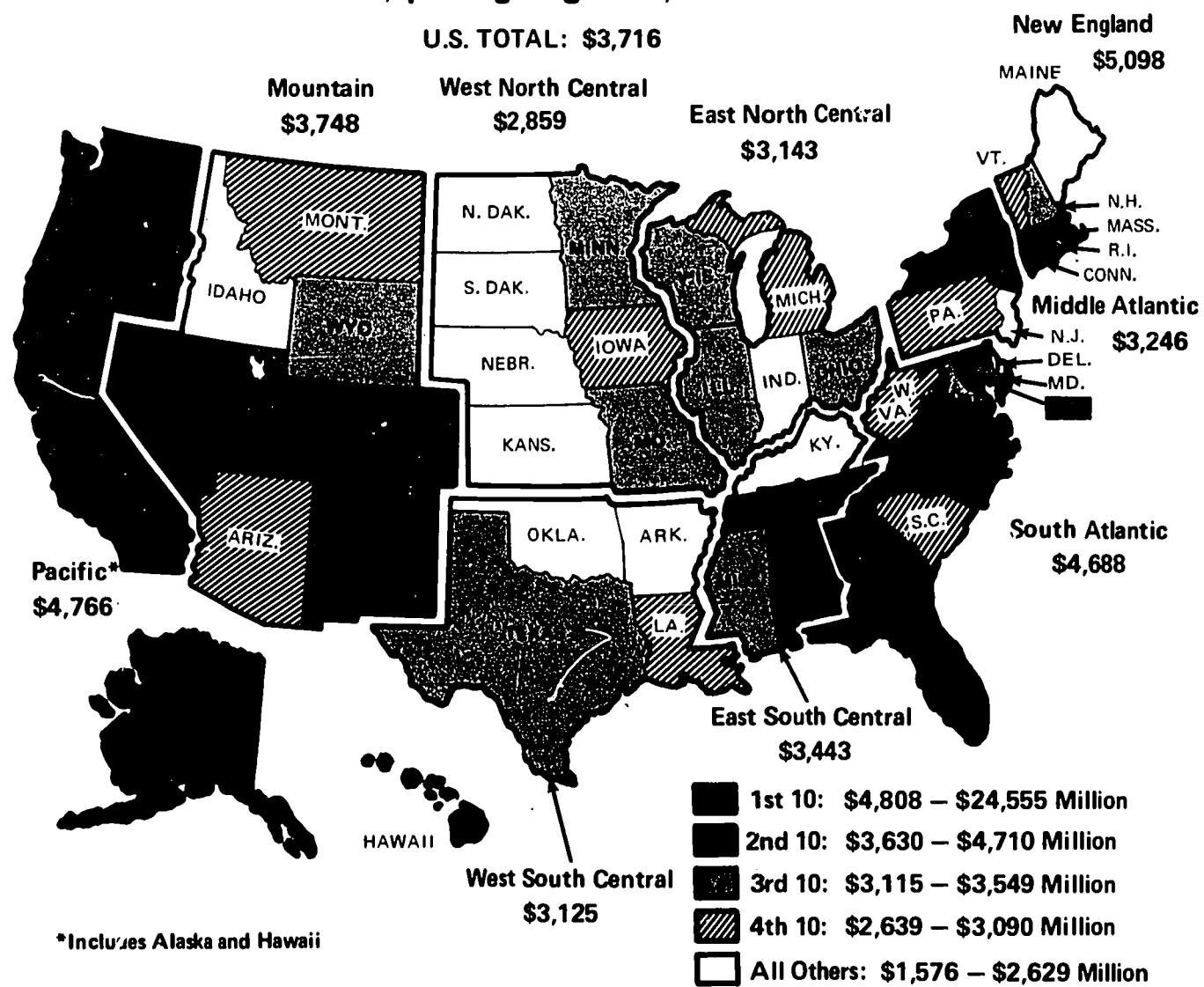
The ratio of total Federal support to the number of degrees awarded in all fields by U.S. institutions of higher education (bachelor's or higher) amounted to \$3,716 per degree granted. Among the States, the ratio of Federal funds per degree granted showed a wide variation, although not generally as wide as a comparison between the States with the highest and lowest ratios would indicate; e.g., Alaska, \$24,555 per degree and Maine, \$1,576 per degree. The Alaska figure falls well outside the distribution pattern for the other 50 geographic areas. The range between the ratios for the second highest area, the District of Columbia, \$7,447 per degree, and for Maine pre-



*Includes Alaska and Hawaii

SOURCE: National Science Foundation

**Geographic distribution of total Federal obligations to universities and colleges,
FY 1970, per degree granted, 1967-68**



SOURCE: National Science Foundation (CASE); Office of Education

sents a more realistic basis for comparison of the funding levels among the various geographic areas. The ratio for obligations per degree granted for these two areas is 5:1. Considering only dollar totals, the comparable ratio is 13:1. The use of degree data to normalize geographic comparisons of the distribution of Federal funds to universities and colleges is illustrated by the vast difference between ratios computed with and without degree data for the States receiving the highest and lowest level of Federal funding in 1970. New York, the second-highest recipient, received \$320 million compared to \$4 million obligated to institutions in Delaware for a ratio of 73:1. Incorporating degree data reduces this ratio to 1.2:1.0—New York, \$3,623 per degree; Delaware, \$2,913 per degree.

Utilizing funds per degree granted to compare State totals to the U.S. average shows California and New York, the first- and second-ranking States in terms of obligations received, ranked 11 and 20, respectively, in funds per degree granted. In fact, New York's \$3,623 per degree granted was nearly 3 percent below the U.S. average.

Only 3 of the first 10 States in total Federal support are also in the first 10 States in terms of Federal support per degree awarded. Five of the first 10 States—Pennsylvania, Ohio, Illinois, Michigan, and Texas—fall in the middle-to-low range. These States, while appearing in the top 10 in overall Federal support, are receiving average to below average support in relation to the number of degrees awarded. On the other hand, 2 of the last 10 States in total obligations, Nevada and Alaska, were in the first 10 States when Federal funds were related to degree production.

INSTITUTIONAL DISTRIBUTION

The first 295 institutions, representing less than 13 percent of all universities and colleges, each received \$1 million or more in Federal obligations during 1970. Total funds to these universities and

Table 1.—Number

Size of Federal Proj.
Total
\$10 million or more . .
\$5 million to \$9.9 million
\$1 million to \$4.9 million
\$500,000 to \$999,000
\$100,000 to \$499,000
Less than \$100,000 . .

^a Does not include \$34,
these funds could not
from this table.

SOURCE: National Sci

colleges amounted to more than 89 percent of Federal obligations of higher education.

Institutions receiving less than \$1,000 per student comprised more than 1,100 schools which were 2-year institutions. The lowest support class made up universities and colleges receiving less than \$1,000 per student, but accounted for little more than one-half of total Federal funds (table 1).

Although funding to the first 100 total Federal support fell by 4 billion—from 1969 to 1970, relative funds for this group of institutions fell from 69 percent to 71 percent of all universities and colleges.

The Massachusetts Institute of Technology, the leading recipient of each of the last 8 years, in 1970 became the first institution to go over the \$100 million mark.

**Table 1.—Number of universities and colleges receiving Federal obligations
ranked by size of Federal program, fiscal year 1970**

[Dollars in thousands]

Size of Federal Program	Total obligations		Number of institutions	
	Amount	Percent distribution	Amount	Percent distribution
Total	\$3,192,499 ^a	100.00	2,352	100.00
\$10 million or more	2,142,906	67.12	83	3.53
\$5 million to \$9.9 million	365,152	11.44	52	2.21
\$1 million to \$4.9 million	340,925	10.68	160	6.80
\$500,000 to \$999,000	126,433	3.96	184	7.82
\$100,000 to \$499,000	174,020	5.45	764	32.48
Less than \$100,000	43,063	1.35	1,109	47.15

^a Does not include \$34,238,000 reported under central offices of university systems (central systems); these funds could not be tabulated for individual member institutions and, therefore, were excluded from this table.

SOURCE: National Science Foundation (CASE).

colleges amounted to more than \$2.8 billion, or 89 percent of Federal obligations to all institutions of higher education.

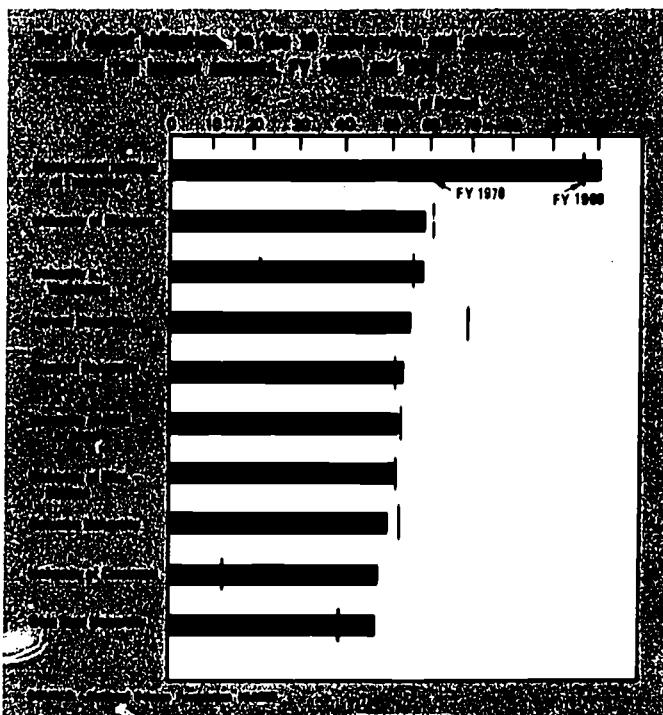
Institutions receiving less than \$100,000 comprised more than 1,100 schools, over 800 of which were 2-year institutions. Schools in this lowest support class made up 47 percent of all universities and colleges receiving Federal support, but accounted for little more than 1 percent of total Federal funds (table 1).

Although funding to the first 100 institutions in total Federal support fell by 4 percent—\$99 million—from 1969 to 1970, relative concentration of funds for this group of institutions increased from 69 percent to 71 percent of total obligations to all universities and colleges.

The Massachusetts Institute of Technology (MIT), the leading recipient of Federal funds for each of the last 8 years, in 1970 became the first institution to go over the \$100 million level in

Federal support. MIT received 3.1 percent of total Federal obligations, 4.6 percent of academic science support and 6.3 percent of all academic R&D funds. The total obligation figure for MIT was 70 percent higher than the total reported for second-ranked University of Michigan. DOD and NASA allocated 17 percent and 20 percent, respectively, of their total academic R&D funds to MIT, and accounted for 70 percent of total Federal obligations to this institution in 1970.

Federal funds for academic science and R&D activities were more highly concentrated than funds for all program activities. The higher concentration was apparent in each of the ranked grouping of institutions within the first 100. For example, the first 10 institutions in total obligations in 1970 accounted for 18 percent of total funds, 21 percent of academic science activities, and 24 percent of R&D support. For the first 100 institutions the percentages were 71 percent, 81



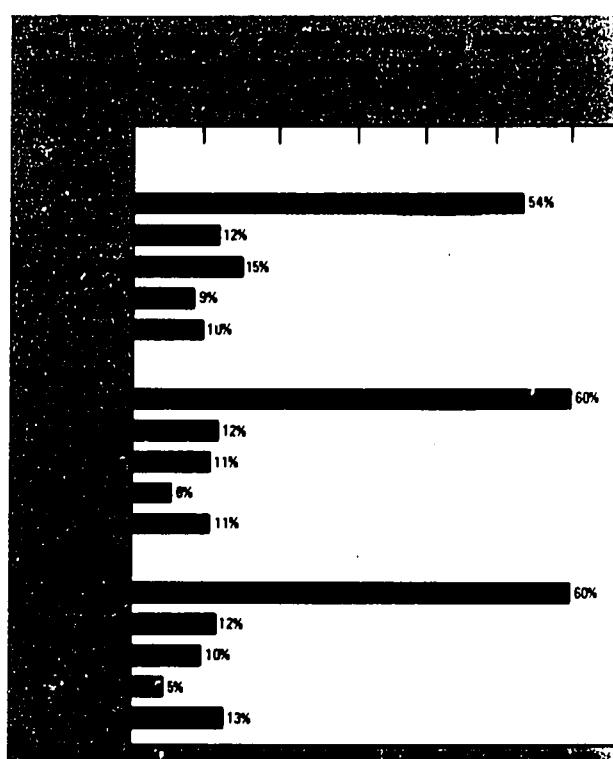
HEW's share of total Federal support to the first 10 institutions fell somewhat below its relative level of funding to the first 50 and first 100 universities and colleges. For all three groups, HEW's share of support was considerably lower than its share of the Federal total going to the 100 institutions ranking below the first 100.

These comparisons indicate that obligations from some of the more R&D oriented agencies such as DOD and NASA are more concentrated among the top ranked institutions. The first 10 institutions in total Federal support, for example, received more than one-third of total support from DOD and NASA; these 10 universities, however, accounted for less than one-sixth of their total obligations.

The preponderance of public institutions among the Nation's 100 universities and colleges receiving the largest amounts of Federal support is becoming increasingly evident. Among the 100

percent, and 84 percent, respectively. The relatively large volume of Federal R&D support at the first 100 institutions is attributable to the gravitation of funds to the top research scientists and engineers located at the Nation's leading universities.

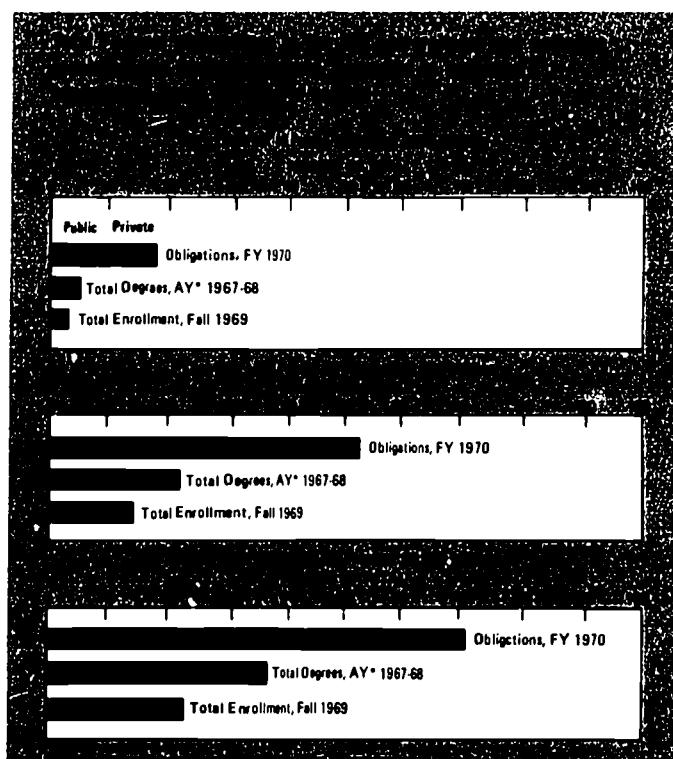
Funding levels for 7 of the leading 10 universities in 1970 were within 5 percent of the 1969 totals. Among the leading universities experiencing large fluctuations were the University of Cincinnati, with a 263 percent increase, and Harvard University, with a 20 percent decline in Federal obligations. The University of Cincinnati moved up from 71st position in 1969 to ninth place in 1970. The unusually high ranking for this university in 1970 was the result of a \$34.2 million increase in Federal support, virtually all of it from the National Institutes of Health (NIH) for the construction and improvement of medical school facilities. Harvard University, on the other hand, experienced a \$14 million decline in Federal funds, lowering this institution from second place in 1969 to fourth place in 1970.



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The preponderance of public institutions among the Nation's 100 universities and colleges receiving the largest amounts of Federal support is becoming increasingly evident. Among the lead-



ing 100 institutions of higher education, public institutions outnumbered private institutions by nearly 2 to 1. In each of the first groups of 10, 50, and 100 institutions, public universities and colleges accounted for more than one-half of total Federal support and more than two-thirds of total degrees awarded and total number of students enrolled.

In relation to total degrees granted and total student enrollment, however, privately controlled institutions show a higher concentration of Federal support than publicly controlled institutions. The 35 privately controlled institutions listed among the top 100 recipients received a share of Federal funds nearly 2.4 times their share of degrees awarded and 5.8 times the proportion of students enrolled. For public institutions the differences were somewhat narrower: their share of support was 1.6 and 2.3 times the percentages of degrees awarded and students enrolled, respectively.

SECTION 3.

federal obligations for academic science

Academic science obligations include the funds for research and development, R&D plant, and other science activities such as education in the sciences and science information. Federal obligations for total academic science funding were \$2,168 million in 1970, declining by \$193 million, or 8 percent, from the 1969 level.

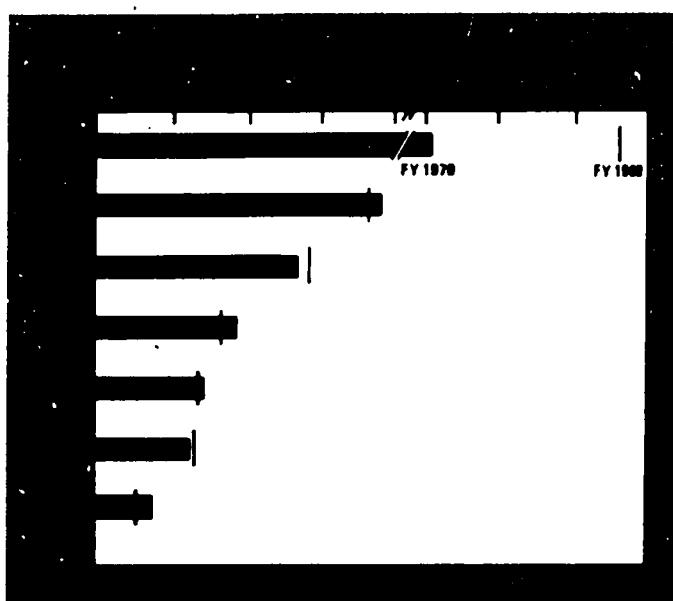
The impact of the 1969-70 reduction varied among the types of programs. Support for research and development totaled \$1,464 million, decreasing 2 percent from 1969. R&D plant obligations dropped to \$28 million, or less than one-half the 1969 R&D plant figure. Federal support of "other science" activities declined by \$133 million to \$676 million in 1970.

AGENCY DISTRIBUTION

Among the six agencies providing academic science support—\$100 million HEW, DOD, and AEC reported reductions of \$13 million, \$13 million, and \$7 million. The increases reported by the remaining three agencies were not sufficient to offset the decreases in the level of HEW funding.

HEW obligated almost one-half of all Federal academic science support—\$1,262 million, compared to \$1,262 million in 1969. HEW provided funds for science programs at 940 institutions.

The National Science Foundation provided the second largest amount of academic science support—\$387 million, a rise of 5 percent over 1969. NSF support went to 940 institutions.



GEOGRAPHIC DISTRIBUTION

Federal obligations for academic science activities were \$2,168 million in 1970, down 8 percent from the 1969 level. Obligations in the Middle Atlantic division remained constant in 1970, although 11 percent underfunded in 1969. The 9-percent drop in funds to the Central States to \$359 million was the only division to drop from second to third in receipt of Federal academic science support.

Academic institutions in all six geographic divisions felt the decrease in science support, ranging from 5 percent for institutions in the East to 18 percent for those in the West.

for academic science

include the R&D plant, as education funding by \$193 million. Reduction varied support for research by \$1,464 million, R&D plant obligations less than one-federal support increased by \$133 million.

AGENCY DISTRIBUTION

Among the six agencies providing major academic science support—\$100 million or more—HEW, DOD, and AEC reported reductions of \$245 million, \$13 million, and \$7 million, respectively. The increases reported by the remaining agencies were not sufficient to offset the sharp reduction in the level of HEW funding.

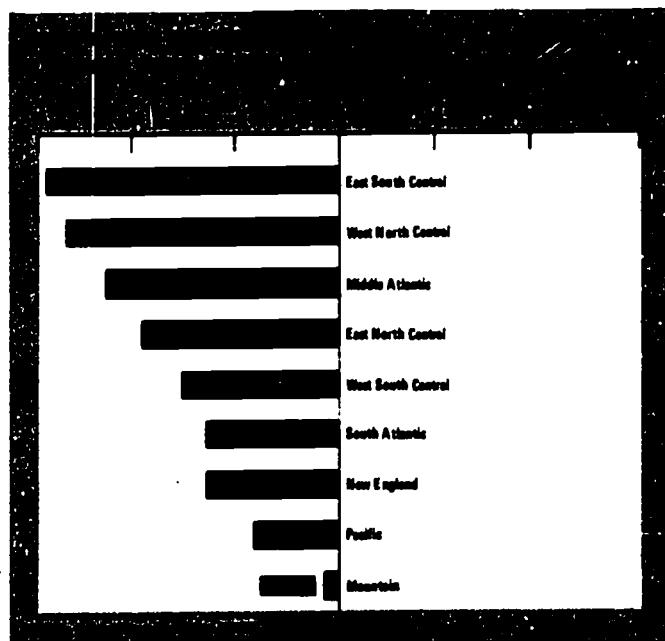
HEW obligated almost one-half of the total Federal academic science support—\$1,017 million, compared to \$1,262 million in 1969. In 1970 HEW provided funds for science programs to 802 institutions.

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GEOGRAPHIC DISTRIBUTION

Federal obligations for academic science activities were \$2,168 million in 1970, declining by 8 percent from the 1969 level. Obligations to the Middle Atlantic division remained the largest in 1970, although 11 percent under its 1969 level. The 9-percent drop in funds to the East North Central States to \$359 million caused this division to drop from second to third highest in receipt of Federal academic science funds.

Academic institutions in all nine geographic divisions felt the decrease in total academic science support, ranging from a decline of 15 percent for institutions in the East South Central



division to 1 percent for the Mountain States. By comparison, four divisions registered declines in 1969.

One-fifth of the HEW academic science funding went to 129 universities and colleges in the Middle Atlantic division. The Pacific, East North Central, and South Atlantic divisions each received academic science support in excess of \$100 million from HEW in 1970, accounting for 47 percent of the agency's total. When obligations to these four divisions are combined, they represent over two-thirds of the HEW sum.

All geographic divisions registered declines in HEW support in 1970, ranging from 14 percent to 34 percent below 1969 levels.

NSF, the second largest agency in academic science support, obligated or its total to institutions in the Pacific division, 18 percent to institutions in each the Northeast and East North Central divisions.

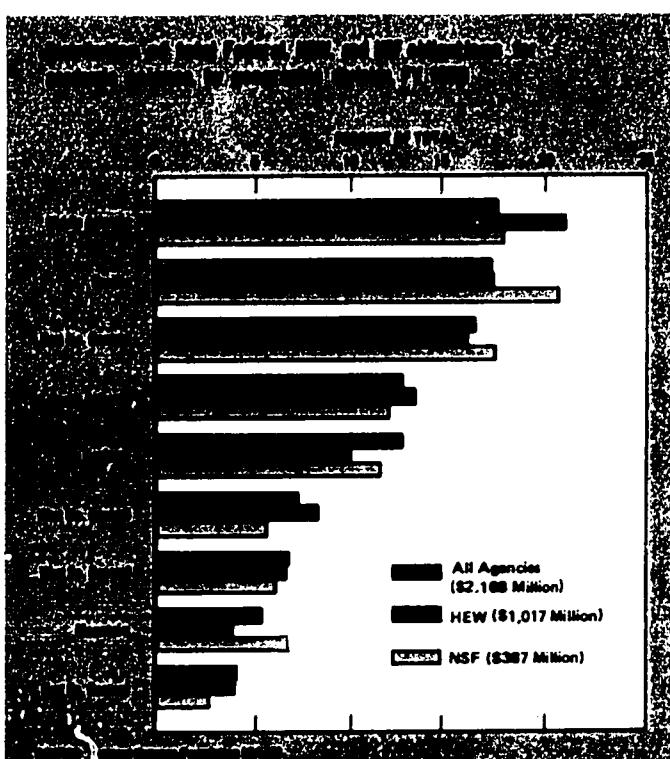
Ten States accounted for 60 percent of academic science obligations of the Government in 1970. These States have been within the first ten since 1968. Although there has been some fluctuation in their relative positions, they have accounted for virtually the same share of total Federal academic science support throughout the 3-year period. In actual amounts, however, each received less academic science support in 1970 than R&D funds represented more than three times the academic science total in each of the ten States.

As in previous years, the distribution of academic science obligations and total degrees awarded in the sciences and engineering is similar. Massachusetts is the principal exception among the leading 10 States; its relatively large share of academic science funding is more than three times its percentage of degrees awarded in sciences and engineering.

The comparability between academic science obligations and Ph.D. degrees awarded in sciences and engineering is somewhat less than in previous years. Notable exceptions are the five States comprising the East North Central division, each of which shows a higher percentage of Ph.D. degrees awarded in the sciences and engineering than shares of the U.S. academic science support.

INSTITUTIONAL DISTRIBUTION

Within the top-100 list, the 65 publicly controlled universities and colleges accounted for 70 percent of the U.S. total funds for academic science support in 1970, a slightly greater proportion than in 1969. The share represented by the privately controlled institutions rank-



State	Percent of Total Obligated, FY 1970	Percent of S & E Degrees Awarded AY* 1967-68	Millions of Dollars		
			100	200	300
California	12.7	18.1		~275	
New York	11.2	18.6		~243	
Massachusetts	9.5	4.8		~200	
Illinois	5.4	4.9		~117	
Pennsylvania	4.9	6.4		~105	
Texas	4.1	4.2		~85	
Michigan	2.7	4.8		~75	
North Carolina	2.1	4.7		~67	
Ohio	2.0	2.2		~62	
Maryland	2.5	1.4		~53	
Total, 10 States	98.7	93.7		~927	

NSF, the second largest agency in terms of academic science support, obligated one-fifth of its total to institutions in the Pacific division and 18 percent to institutions in each the Middle Atlantic and East North Central divisions.

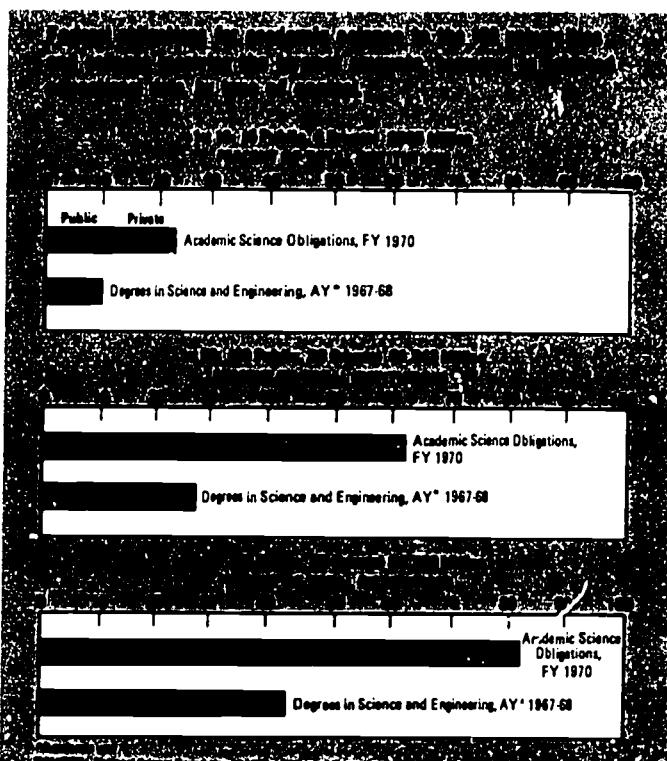
Ten States accounted for 60 percent of total academic science obligations of the Federal Government in 1970. These States have ranked within the first ten since 1968. Although there has been some fluctuation in their relative positions, they have accounted for virtually the same share of total Federal academic science funds throughout the 3-year period. In actual dollar amounts, however, each received less Federal academic science support in 1970 than in 1969. R&D funds represented more than three-fifths of the academic science total in each of the 10 States.

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INSTITUTIONAL DISTRIBUTION

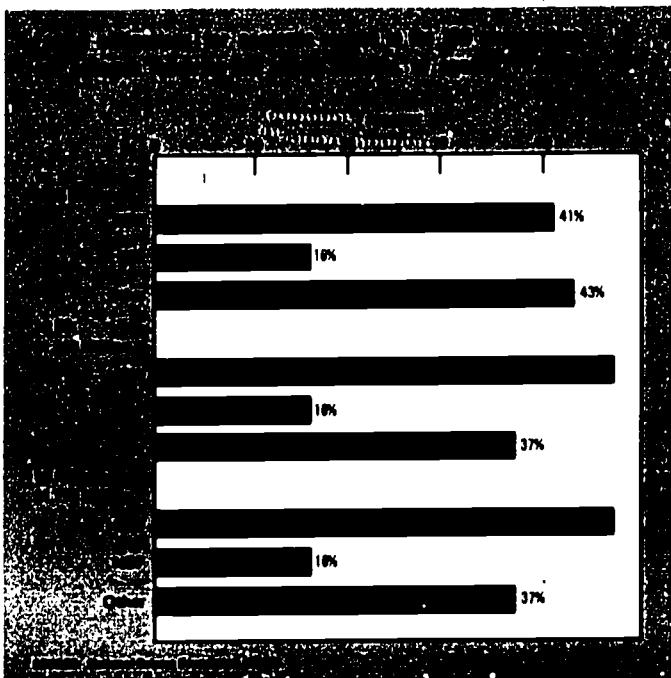
Within the top-100 list, the 65 publicly controlled universities and colleges accounted for 47 percent of the U.S. total funds for academic science in 1970, a slightly greater proportion than they had received in 1969. The share represented by the privately controlled institutions ranked within



the first 100 was the same in 1970 as in previous years, 35 percent. The ratio of academic science funds per science and engineering degree awarded, therefore, was higher for privately controlled institutions.

While public institutions outnumbered the privately controlled ones in all size categories, the difference in proportion of obligations received did not reflect this. In the first 10, obligations to public institutions were only 6 percent more than funds to private institutions, though there were 50 percent more public institutions. In the first 50, there were again 50 percent more public institutions, yet they represented just 12 percent more of the Federal support. For the first 100, there were 86 percent more public institutions but only a 32-percent difference in Federal funding.

HEW supplied 47 percent of the Federal academic science funding for all 1,190 universities and colleges receiving such support from the Federal Government, the same proportions as re-



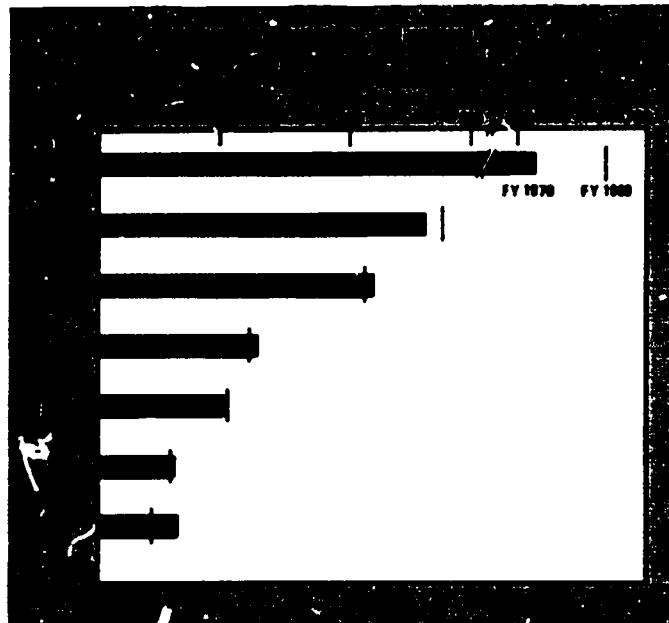
ported for the first 50 and first 100 institutions receiving the largest amounts of total academic science funds. This agency's share of total academic science funds obligated to the first 10 institutions, however, was somewhat less, due mainly to the heavy concentration of DOD funds for research and development going to institutions in this group, particularly the Massachusetts Institute of Technology—\$44 million. NSF's share of total Federal academic science funding to each of the first 10, 50, and 100 institutions was 16 percent, 2 percentage points less than its share of total Federal academic science obligations to all institutions.

Of the six major funding agencies, NSF showed the lowest proportion of total agency academic science funds—75 percent—going to the leading 100 recipients of such support. Concentration levels for the other five agencies ranged from 82 percent for HEW to 91 percent for the Atomic Energy Commission.

SECTION 4.

federal obligations for research and development

Federal obligations for the performance of research and development at universities and colleges in 1970 amounted to \$1,464 million, down 2.1 percent from 1969; obligations for R&D plant totaled \$27 million in 1970, off 52 percent from 1969. When the R&D plant decrease is taken into account, Federal support for the total R&D effort, operations and plant, fell by 3.9 percent, nearly double the size of the drop in R&D operations alone.



AGENCY DISTRIBUTION

HEW obligated \$615 million to 444 universities and colleges and DOD awarded \$200 million to 239 institutions for research and development in 1970. The amounts of these two agencies provided the largest sums of R&D support. HEW's obligations presented declines from their respective 1969 levels. HEW fell by 8 percent and DOD by 11 percent. Every major subdivision of HEW, except the Health and Drug Administration, reported declines in R&D totals. DOD's lower 1970 obligations were in large part a result of the congressional requirement that DOD limit its support to that which has a direct and appropriate relationship to its defense mission (section 101 of the Armed Services Appropriations Act, 1970).

The National Science Foundation increased its R&D funding by \$6 million in 1970, from \$219 million to 315 universities and colleges. This was a decrease of 6 percent in the number of recipients from 1969.

GEOGRAPHIC DISTRIBUTION

The Pacific division replaced the Atlantic as the largest recipient due to the cuts experienced by the latter from the NSF. The East North Central States remained third, although HEW support was \$13 million less than in 1969.

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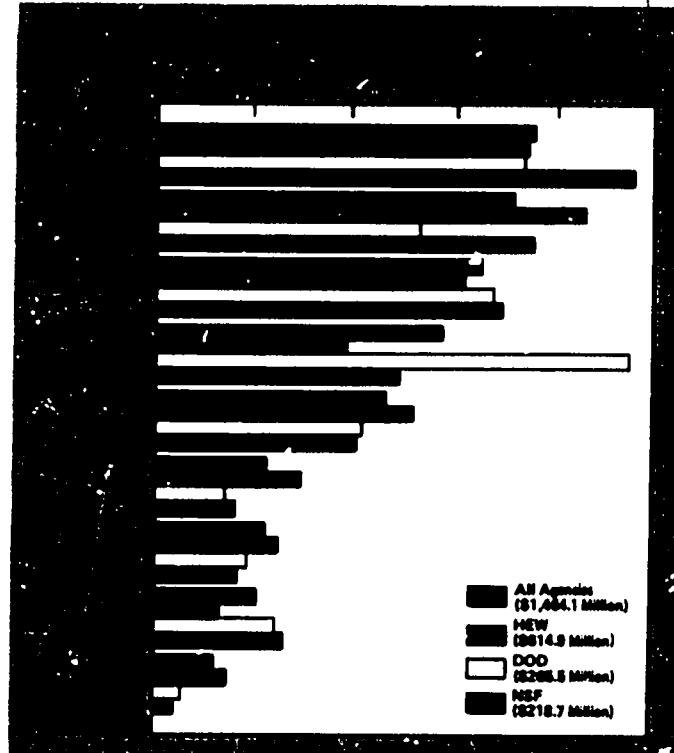
AGENCY DISTRIBUTION

HEW obligated \$615 million to 444 universities and colleges and DOD awarded \$265 million to 239 institutions for research and development in 1970. The amounts of these two agencies, which provided the largest sums of R&D support, represented declines from their respective 1969 levels—HEW fell by 8 percent and DOD by 5 percent. Every major subdivision of HEW, except the Food and Drug Administration, reported sizable declines in R&D totals. DOD's lower 1970 total was in large part a result of the congressional requirement that DOD limit its support of research to that which has a direct and apparent relationship to its defense mission (section 203 of the Armed Services Appropriations Act, Fiscal Year 1970).

The National Science Foundation increased its R&D funding by \$6 million in 1970, awarding \$219 million to 315 universities and colleges. This was a decrease of 6 percent in the number of recipients from 1969.

GEOGRAPHIC DISTRIBUTION

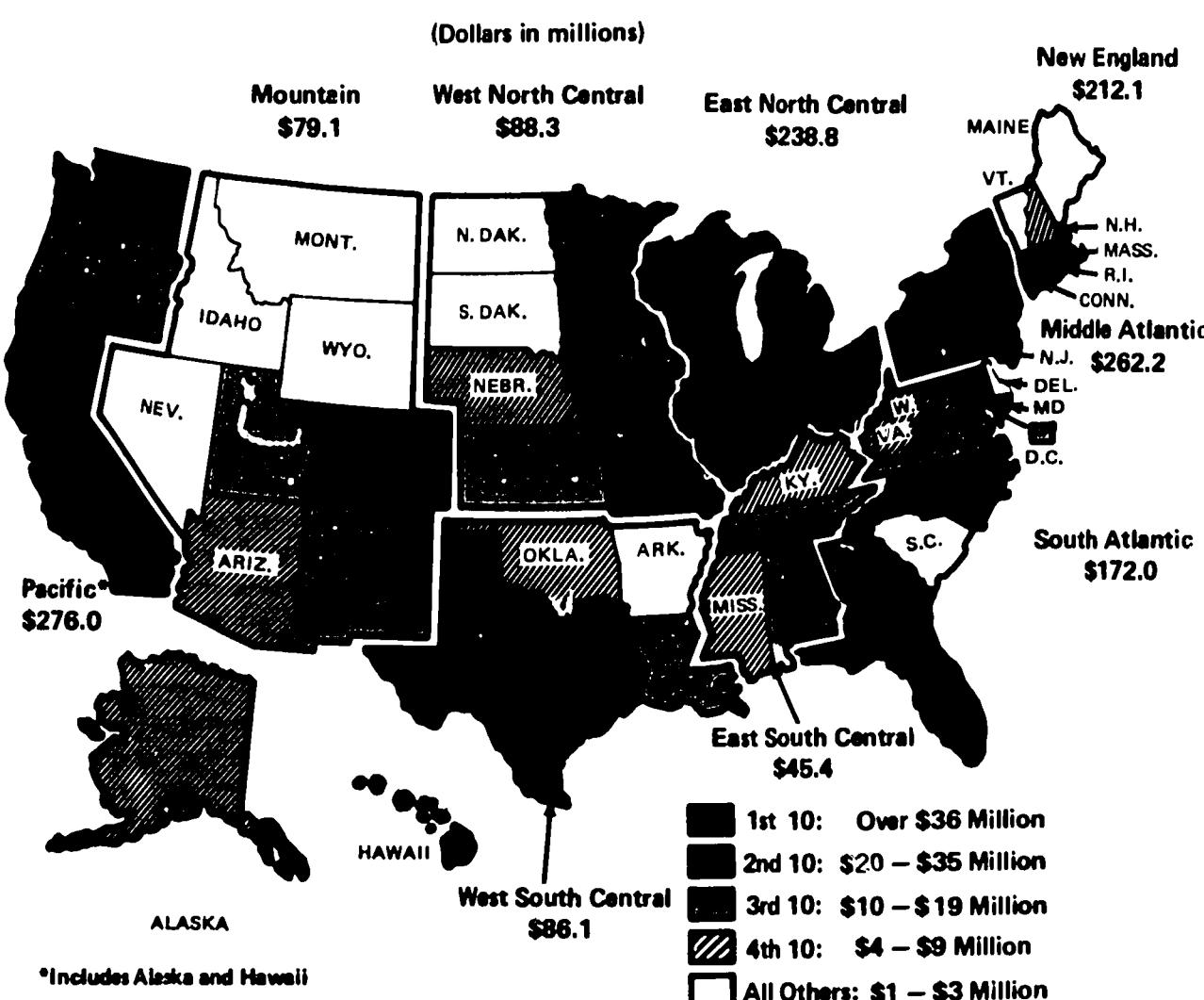
The Pacific division replaced the Middle Atlantic as the largest recipient due to substantial cuts experienced by the latter from HEW and NSF. The East North Central States remained third, although HEW support was \$13 million less.



HEW totals were lower in all but one geographic division in 1970. Institutions in the Mountain division had a rise of 4 percent to \$21 million.

Only the Pacific States, the second largest recipient of DOD's R&D support, showed an increase in DOD obligations in 1970; these States totaled \$49 million, rising 8 percent from 1969.

Geographic distribution of total Federal R&D obligations to universities and colleges, FY 1970



SOURCE: National Science Foundation (CASE).

D obligations to universities and colleges, FY 1970

(in millions)

North Central \$88.3

East North Central \$238.8

New England
\$212.1

MAINE
V.T.
N.H.
MASS.
R.I.
CONN.

Middle Atlantic
N.J. \$262.2

N.J.
DEL.
MD
D.C.

South Atlantic
\$172.0

OKLA.
ARK.

MISS.
S.C.

East South Central
\$45.4

West South Central
\$86.1

- 1st 10: Over \$36 Million
- 2nd 10: \$20 - \$35 Million
- 3rd 10: \$10 - \$19 Million
- 4th 10: \$4 - \$9 Million
- All Others: \$1 - \$3 Million

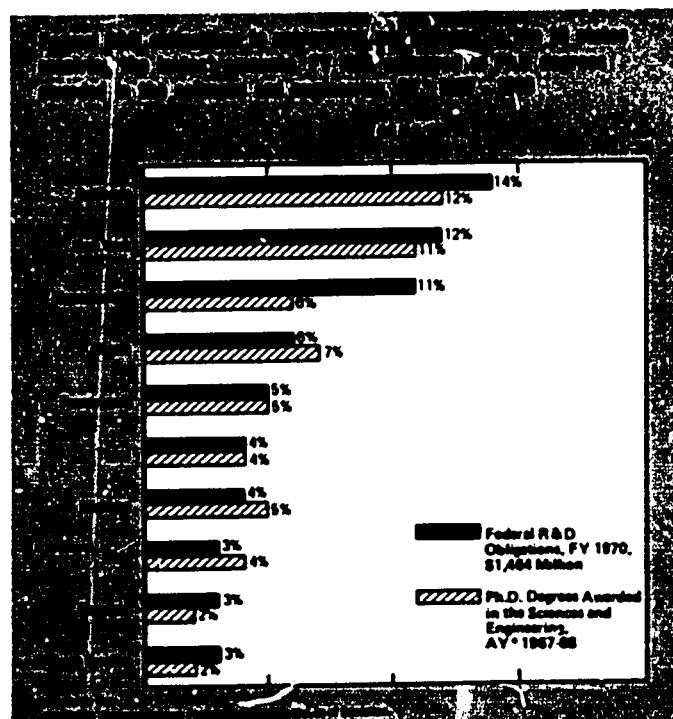
The largest share (24 percent) of the DOD total went to universities and colleges in the New England States, primarily Massachusetts.

Thirty-nine institutions in the Pacific States received one-fourth (\$53 million) of the NSF total for research and development in 1970. The Middle Atlantic division received the second largest amount of funding from NSF, \$41 million, decreasing 11 percent from 1969.

Three geographic divisions received larger dollar amounts of Federal obligations for research and development in 1970 than in 1969—South Atlantic, Mountain, and Pacific. All others declined in actual funding.

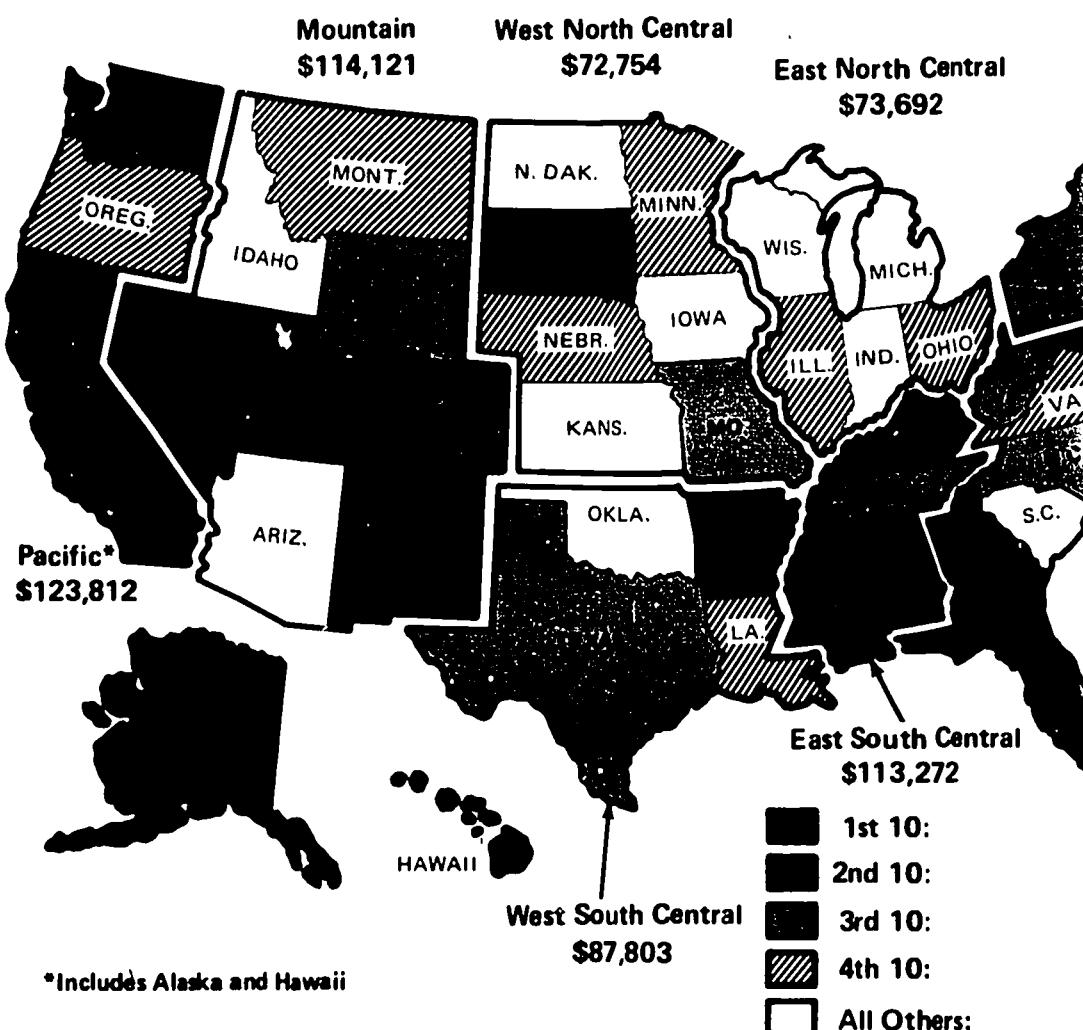
Six divisions grew in their relative shares of the U.S. total for R&D activities. The most significant gain was made by the Mountain division, whose relative share of the total increased by 12 percent from 1969 to 1970.

New York and California accounted for one-fourth of the R&D support in 1970—a total of \$376 million.



Geographic distribution of Federal R&D obligations to universities and colleges per Ph.D. degrees awarded in the sciences and engineering, 1980

U.S. TOTAL: \$103,651



SOURCE: National Science Foundation (CASE); Office of Education

**R&D obligations to universities and colleges, FY 1970,
and in the sciences and engineering, 1967-68**

TOTAL: \$103,651

West North Central

\$72,754

East North Central

\$73,692

New England

\$174,558

MAINE

VT.

N.H.

MASS.

R.I.

CONN.

Middle Atlantic

\$101,558

N.J.

DEL.

MD.

D.C.

V.A.

S.C.

South Atlantic

\$109,663

KANS.

MO.

ILL.

IND.

OHIO

IOWA

WIS.

MINN.

N.DAK.

O.KLA.

TEXAS

L.A.

East South Central

\$113,272

- 1st 10:**
- 2nd 10:**
- 3rd 10:**
- 4th 10:**
- All Others:**

Vest South Central

\$87,803

Office of Education

The close relationship between the percentage of Federal obligations received for research and development and the distribution of Ph.D. degrees conferred in the sciences and engineering appears in the similarity between the distribution of academic science funds and graduate science and engineering degrees. With the exception of Massachusetts, the variance between R&D support and Ph.D. degrees in the sciences and engineering was no more than 2 percentage points.

The top-10 ranking States shown in the chart at left were the same as in 1969. The first eight retained identical positions; Maryland and North Carolina exchanged places.

These 10 States received \$920 million in R&D obligations, which was 63 percent of the total. They awarded 56 percent of the Ph.D. degrees in the sciences and engineering.

Nine of the 10 leading States ranked by the ratio of R&D obligations to Ph.D. degrees awarded in the sciences and engineering were those receiving less than 1 percent of the U.S. total for research and development at academic institutions, and also accounting for less than one-half of 1 percent of the degree total. Each of the nine States granted fewer than 100 Ph.D. degrees in the sciences and engineering in 1967-68; together they represented only 1.5 percent of the degree total.

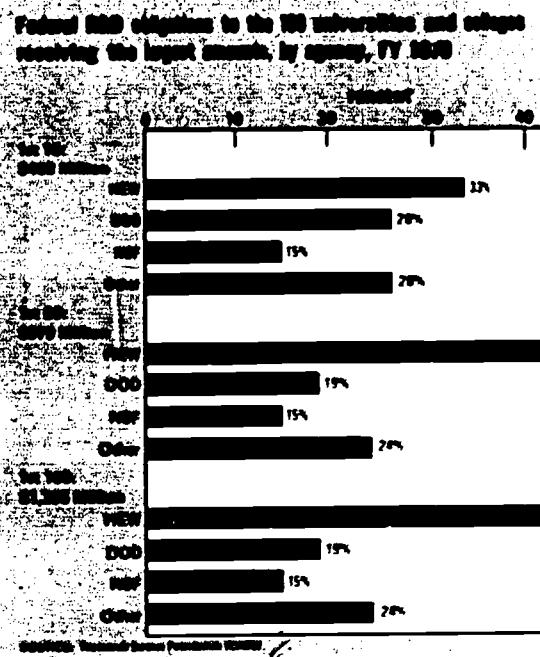
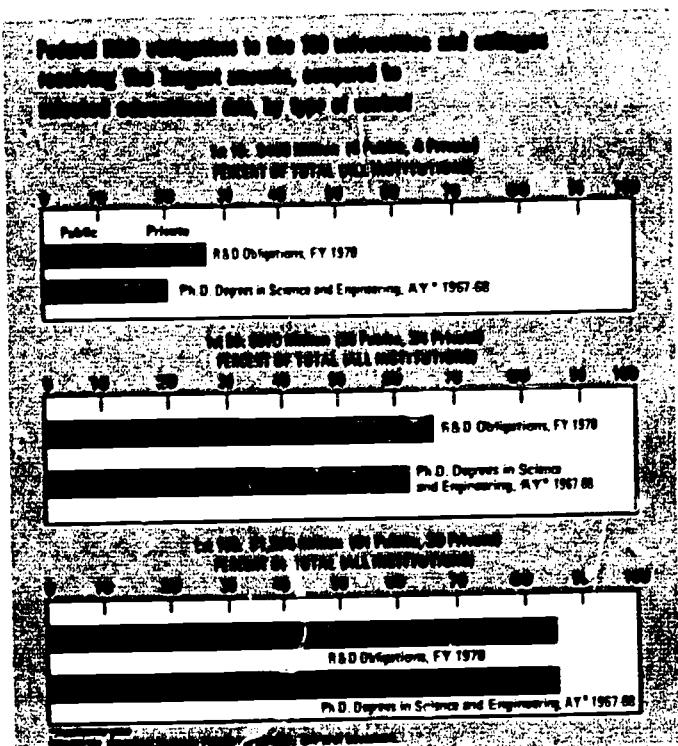
Massachusetts was the only State ranking in the top 10 for receipt of Federal obligations for research and development that also ranked in the first 10 in terms of the ratio of obligations to Ph.D. degrees awarded. This was due primarily to the amount of Federal R&D support to the Massachusetts Institute of Technology—\$92 million in 1970, more than double the amount to the next largest recipient.

Beyond the first 10 there was no discernible pattern among the States ranked in terms of the ratio of R&D funds per Ph.D. degree awarded in the sciences and engineering. The relative amounts varied so greatly among the States that the resulting ratios did not provide conclusive data.

INSTITUTIONAL DISTRIBUTION

A high level of concentration of Federal R&D funds appears among the larger recipients. The first 10 institutions in terms of R&D obligations accounted for 28 percent of the total R&D support at universities and colleges and 43 percent of the obligations for R&D plant. The share of R&D support represented by the top 10 was 1 percentage point higher than in 1969, and the percentage of R&D plant was substantially greater than in 1969. The first 50 institutions received 67 percent of R&D obligations and 88 percent of R&D plant funds. This compared to the same percentage of R&D funds in 1969, but was a higher proportion of R&D plant support. The R&D projects of the first 100 institutions represented 86 percent and 97 percent of R&D and R&D plant obligations, respectively.

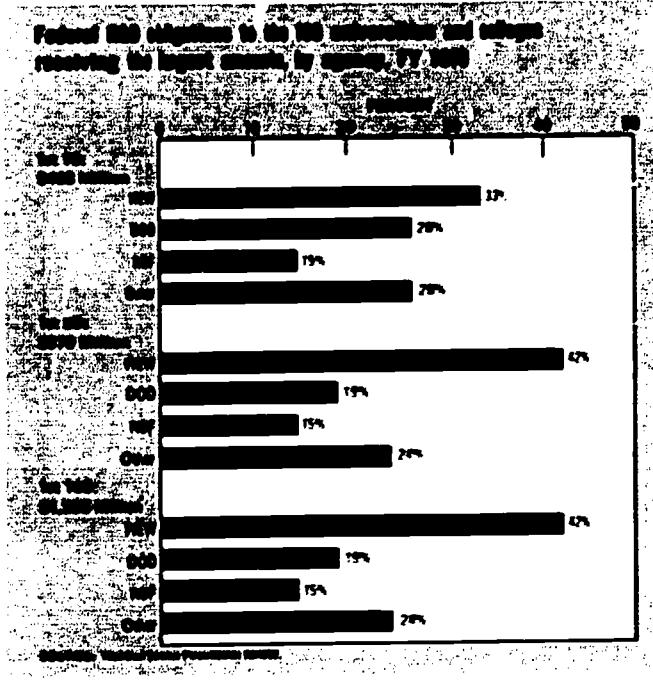
The ranking of the top recipients of R&D funds remained essentially the same in 1970 as in 1969.



The University of Michigan and Harvard University experienced decreases of 12 percent and 11 percent, respectively; New York University experienced a decline of 21 percent. R&D obligations to the University of California-San Diego rose by 22 percent, and to the University of Wisconsin-Madison by 11 percent, and to the University of Colorado by 10 percent.

Within the top-100 list, the 61 publicly controlled universities and colleges accounted for 45 percent of the total U.S. support for research and development, and awarded 54 percent of Ph.D. degrees in the sciences and engineering. The private institutions represented 40 percent of total funding and granted 32 percent of Ph.D. degrees in the sciences and engineering. The ratio of R&D funds per science and engineering degree awarded, therefore, was 1.4 for privately controlled institutions.

There were 585 universities and colleges receiving Federal R&D funds in 1970; this represented a 5-percent reduction in the number of institutions receiving such support in 1969.



The University of Michigan and Harvard University experienced decreases of 12 percent and 13 percent, respectively; New York University had a decline of 21 percent. R&D obligations to the University of California-San Diego rose by 22 percent, to the University of Wisconsin-Madison by 15 percent, and to the University of Colorado by 19 percent.

Within the top-100 list, the 61 publicly controlled universities and colleges accounted for 45 percent of the total U.S. support for research and development, and awarded 54 percent of the Ph.D. degrees in the sciences and engineering. The private institutions represented 40 percent of total funding and granted 32 percent of total Ph.D. degrees in the sciences and engineering. The ratio of R&D funds per science and engineering degree awarded, therefore, was higher for privately controlled institutions.

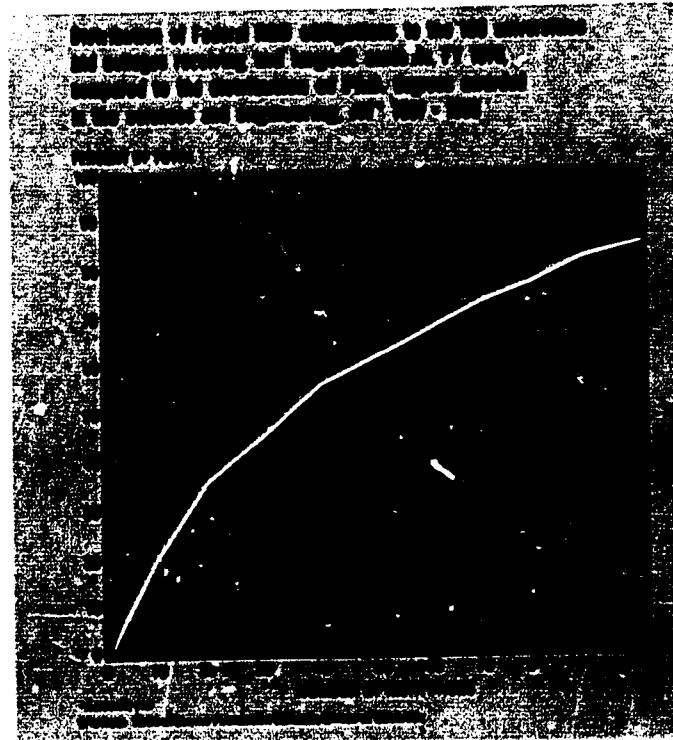
There were 585 universities and colleges receiving Federal R&D funds in 1970; this represented a 5-percent reduction in the number of institutions receiving such support in 1969. The

ten receiving the largest amounts accounted for \$403 million, more than one-fourth of the total funds.

HEW, DOD, and NSF accounted for approximately three-fourths of total Federal R&D support to the first-10, -50, and -100 institutions. The proportion of Federal support going to the first-10 recipients from DOD (26 percent) reflected the high concentration of DOD's R&D support among the top-10 universities. These institutions received 40 percent of the DOD total R&D obligations compared to 22 percent of HEW's funds and 28 percent of NSF's obligations.

With the exception of the Department of Commerce, the first-100 universities and colleges in Federal R&D obligations received at least 70 percent of each agency's total support for research and development.

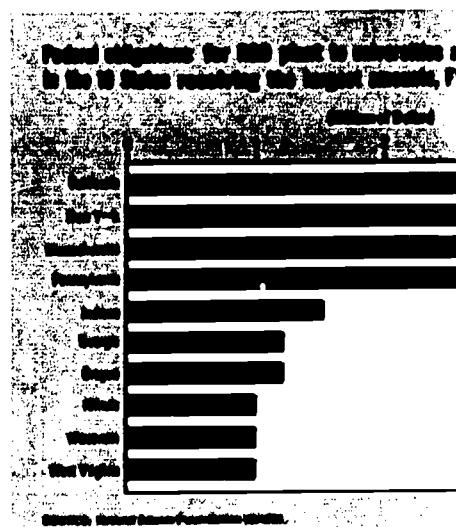
While R&D obligations represented 45 percent of total U.S. support in 1970, they comprised the major portion of total Federal support to the top-



100 recipients. There were 61 institutions with R&D obligations equivalent to more than one-half of the total obligated by Federal agencies for all activities at each institution. The range of Federal R&D obligations as percent of an institution's total Federal support ranged from 100 percent for the University of Texas-Dallas to 11 percent at the University of Cincinnati.

Those universities and colleges receiving the largest amounts of R&D funding also accounted for correspondingly large percentages of Ph.D. degrees awarded in the sciences and engineering. The variance was no more than 7 percentage points, and it became substantially less as the number of institutions expanded from 50 to 100. The top-100 institutions represented 86 percent of both Federal R&D obligations and Ph.D. degrees in the sciences and engineering. All of these 100 universities and colleges receiving the largest amounts of R&D obligations are doctorate-granting institutions.*

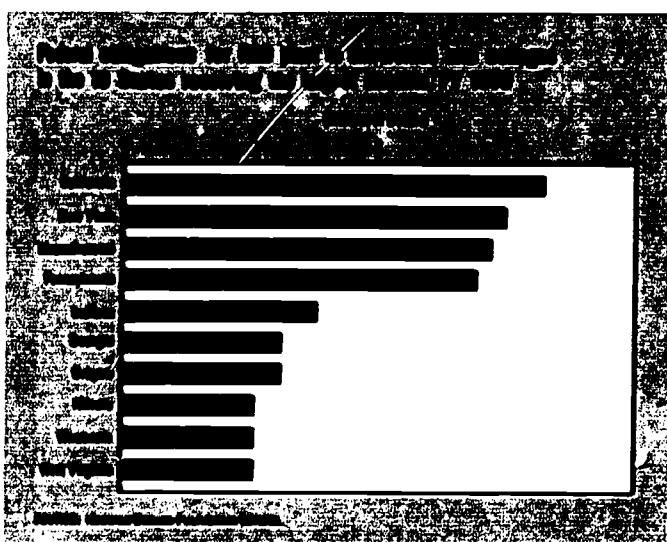
* This includes those institutions which award only M.D. and D.D.S. degrees.



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R&D PLANT

Federal support for R&D plant was \$28 million in 1970, down from \$57 million in 1969 and \$104 million in 1968. Most of the 1969-70 reduction can be traced to the National Institutes of Health, which reported no R&D plant funds in 1970, compared to a total of \$19 million in 1969. NSF support for R&D plant declined by \$5 million to \$19 million, and AEC funding dropped by \$4 million to \$7 million.

California led all States in receipt of R&D plant funds in 1970 with obligations totaling \$3.3 million. New York, Massachusetts, and Pennsylvania each received amounts between \$2.8 million and \$3 million. Together, these four States accounted for over two-fifths of the 1970 R&D plant support.

The Massachusetts Institute of Technology was the leading recipient of R&D plant funding in 1970 with almost \$2 million. There were 150 academic institutions receiving this type of support in 1970, declining from 404 in 1969 and 492 in 1968.

SECTION 5.

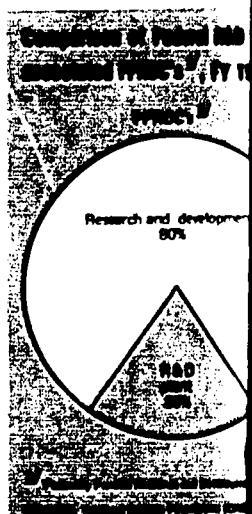
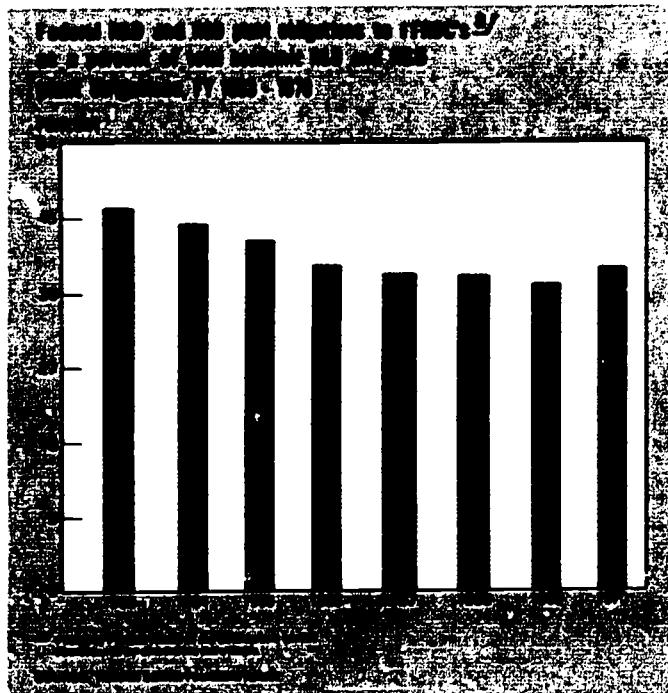
federally funded research and development centers administered by universities and colleges

Federally Funded Research and Development Centers (FFRDC's), administered by universities and colleges, are separately incorporated organizations performing R&D work upon direct request or under a broad charter from a Federal agency. In 1970 academically associated FFRDC's numbered 36 and received \$961 million in Federal support, the largest amount of funds ever reported for these institutions (table 2). The 1970 total, representing a 5-percent increase over the 1969 figure, resulted from a \$9 million, or 1-percent, increase in the funding level of R&D operations and a \$36 million, or 29-percent, rise in R&D plant support.

The level of FFRDC funding relative to total Federal academic R&D obligations (inclusive of

FFRDC's) declined steadily from 46 percent in 1963 to 37 percent in 1969. This trend was interrupted in 1970, however, when this ratio rose to 39 percent as a result of a \$44 million increase in the FFRDC total and a \$61 million decrease in Federal R&D and R&D plant support to universities and colleges.

The ratio of R&D plant funds for R&D operational support is substantially higher at FFRDC's than at universities and colleges: 20 percent vs. 2 percent. The equipment and facilities required to conduct research projects at the FFRDC's are, in general, far more complex and expensive than those required for the types of research activities performed in and initiated by university-owned laboratories. This, in large measure, is why se-



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rate Government-owned facilities were established. Exemplifying the cost and type of facility that is required for the performance of large-scale research projects is the 200-BeV proton accelerator now under construction at the National Accelerator Laboratory in Batavia, Ill. This one facility, accounting for \$42 million in R&D plant in 1970, is being built over a 5-year period and will be the largest accelerator in the world; its total cost is estimated at \$250 million. This atom smasher will enable scientists to explore the nucleus of an atom in terms of its most minute particles of matter. Other construction activity that received sizable plant support—\$20 million—in 1970 was the \$55 million Los Alamos Meson Physics (LAMP) facility.

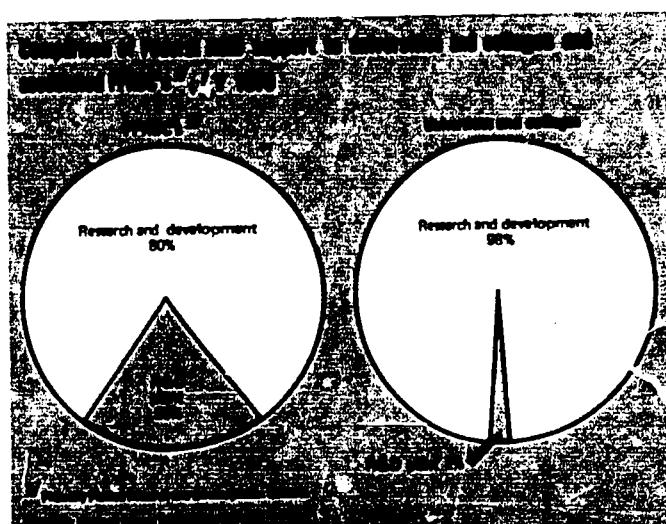
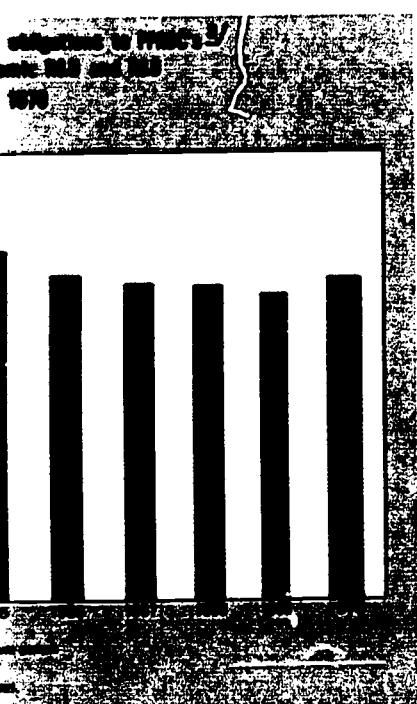


Table 2. Federal obligations to Federally Funded Research and Development Centers administered by the National Science Foundation

(Dollars in thousands)

Location and name	Federal obligations					
	1963	1964	1965	1966	1967	1968
Total	\$814,082	\$862,363	\$895,287	\$917,631	\$907,549	\$935,820
Arizona:						
Kitt Peak National Observatory ^a	3,750	4,400	6,915	5,791	5,485	12,477
Cerro-Tololo Inter-American Observatory (Chile)	1,100	1,100	1,465	1,471	1,713	2,329
California:						
Jet-Propulsion Laboratory ^b	230,168	228,194	245,094	230,091	222,169	206,074
Stanford Linear Accelerator Center	16,193	24,122	43,943	50,969	30,891	28,996
Lawrence Radiation Laboratory	162,854	169,424	156,254	169,870	174,861	184,500
Center for Research and Development in Higher Education	—	—	—	—	849	1,459
Center for the Study of the Evaluation of Instructional Program	—	—	—	—	534	868
Stanford Center for Research and Development in Teaching	—	—	—	—	797	1,597
Colorado:						
National Center for Atmospheric Research ^b	6,019	10,036	8,941	11,791	16,578	14,679
District of Columbia:						
Center for Research in Social Systems ...	947	934	1,843	1,808	1,936	1,618
Georgia:						
Research and Development Center in Educational Stimulation	—	—	—	—	732	1,294
Illinois:						
Argonne National Laboratory ^c	74,947	84,507	86,329	87,255	97,282	113,178
Coordination Center for the National Program in Early Childhood Education ..	—	—	—	—	—	1,562
National Accelerator Laboratory ^b	—	—	—	—	—	3,377
Iowa:						
Ames Laboratory	6,549	7,360	8,464	9,089	9,371	9,891

Federally Funded Research and Development Centers administered by universities and colleges, fiscal years 1963-70

[Dollars in thousands]

	Federal obligations							Sponsoring Agency	Administered by --
	1964	1965	1966	1967	1968	1969	1970		
082	\$862,351	\$895,287	\$817,631	\$807,549	\$935,820	\$916,872	\$960,906		
750	4,400	6,915	5,791	5,485	12,475	5,700	6,400	NSF	Association of Universities for Research in Astronomy, Inc.
00	1,100	1,465	1,471	1,713	2,325	4,550	1,900	NSF	Association of Universities for Research in Astronomy, Inc.
68	226,194	245,094	230,091	222,169	206,074	168,295	180,047	NASA	California Institute of Technology
93	24,122	43,943	50,969	30,891	28,996	31,001	27,051	AEC	Stanford University
354	169,424	169,254	169,870	174,861	184,500	179,185	187,686	AEC	University of California
	—	—	—	849	1,459	938	879	HEW (OE)	University of California
	—	—	—	534	868	809	648	HEW (OE)	University of California
	—	—	—	797	1,597	5,007	928	HEW (OE)	Stanford University
019	10,036	8,941	11,791	16,576	14,679	14,081	11,414	NSF	University Corporation for Atmospheric Research
47	934	1,843	1,808	1,936	1,618	1,861	620	DOD (Army)	American University
	—	—	—	732	1,294	809	339	HEW (OE)	University of Georgia
47	84,507	86,329	87,265	97,262	113,178	112,874	104,187	AEC	University of Chicago and Argonne Universities Association
	—	—	—	—	1,562	1,723	473	HEW (OE)	University of Illinois
	—	—	—	—	3,377	14,763	49,527	AEC	University Research Association
49	7,360	8,464	9,069	9,371	9,891	8,886	8,885	AEC	Iowa State University of Science and Technology

Table 2.-Federal obligations to Federally Funded Research and Development Centers ad

Location and name	Federal obligations				
	1963	1964	1965	1966	1967
Maryland:					
Applied Physics Laboratory	42,096	49,124	54,097	52,491	47,17
Center for the Study of Social Organization of Schools and Learning Process	—	—	—	—	—
Massachusetts:					
Cambridge Electron Accelerator ^d	{ 5,946 2,632	5,717 3,424	5,851 3,792	6,130 3,517	6,78 3,59
Lincoln Laboratory	70,606	78,764	68,683	64,060	66,96
Center for Research and Development in Educational Differences ^e	—	—	—	1,112	1,16
New Jersey:					
Plasma Physics Laboratory	7,542	8,268	6,997	6,566	6,57
Princeton-Pennsylvania Accelerator ^d	{ 6,224 881	5,500 1,790	7,521 1,982	8,825 1,801	7,97 1,77
New Mexico:					
Los Alamos Scientific Laboratory	93,020	97,680	94,636	103,111	102,21
New York:					
Brookhaven National Laboratory ^b	59,180	58,619	63,564	64,407	64,16
Hudson Laboratory ^e	3,780	3,339	4,195	4,873	4,70
Oregon:					
Center for the Advanced Study of Educational Administration	—	509	534	663	67
Pennsylvania:					
Ordnance Research Laboratory	3,763	4,827	7,025	9,597	8,12
Learning Research and Development Center	—	—	754	642	1,30
Puerto Rico:					
Arecibo Observatory ^f	—	—	—	—	—
Tennessee:					
Oak Ridge Associated Universities ^b	4,291	5,059	5,695	6,168	5,62
Texas:					
Research and Development Center in Teacher Education	—	—	—	—	76

Federally Funded Research and Development Centers administered by universities and colleges, fiscal years 1963-70 (Continued)

Federal obligations								Sponsoring Agency	Administered by-
1963	1964	1965	1966	1967	1968	1969	1970		
42,098	49,124	54,097	52,491	47,172	49,719	51,218	53,444	DOD (Navy)	Johns Hopkins University
—	—	—	—	—	742	620	850	HEW (OE)	Johns Hopkins University
{ 5,946 2,632	5,717 3,424	6,851 3,792	6,130 3,517	6,786 3,506	4,778	4,949	4,412	AEC	Harvard University Massachusetts Institute of Technology
70,606	78,764	68,683	64,060	66,969	62,319	61,379	55,848	DOD (Air Force)	Massachusetts Institute of Technology
—	—	—	1,112	1,165	—	—	—	HEW (OE)	Harvard University
7,542	8,268	6,997	6,586	6,572	7,446	7,796	7,680	AEC	Princeton University
{ 6,224 881	5,500 1,790	7,521 1,982	8,825 1,801	7,971 1,775	6,422	6,461	5,090	AEC	Princeton University University of Pennsylvania
93,020	97,680	94,636	103,111	102,213	109,387	114,698	140,914	AEC	University of California
59,180 3,780	58,619 3,939	63,584 4,195	64,407 4,673	64,160 4,708	66,814 4,800	74,995 3,080	72,860 —	AEC DOD (Navy)	Associated Universities, Inc. Columbia University
—	509	534	663	676	590	519	596	HEW (OE)	University of Oregon
3,763	4,827	7,025	9,597	8,120	9,371	8,577	8,412	DOD (Navy)	Pennsylvania State University
—	—	754	642	1,309	1,465	7,063	1,465	HEW (OE)	University of Pittsburgh
—	—	—	—	—	—	—	2,106	NSF	Cornell University
4,291	5,059	5,895	6,168	5,620	4,770	5,276	5,179	AEC	Oak Ridge Associated Universities
—	—	—	—	763	1,190	820	858	HEW (OE)	University of Texas

Table 2.—Federal obligations to Federally Funded Research and Development Centers

Location and name	Federal obligations			
	1963	1964	1965	1966
Virginia:				
Center for Naval Analyses	—	—	—	—
Human Resources Research Office ^a	2,794	3,081	3,382	2,762
Space Radiation Effects Laboratory	—	—	—	729
Washington:				
Applied Physics Laboratory	3,200	2,275	2,178	5,145
West Virginia:				
National Radio Astronomy Observatory ^b	4,550	4,600	3,380	4,719
Wisconsin:				
Army Mathematics Research Center	1,050	1,100	1,273	1,390
Center for Research and Development for Learning and Re-education	—	—	500	808

^aOne of seven administered by university consortia.

^bIncludes sizeable amounts subcontracted, principally to industrial firms.

^cAdministered by both university and consortium.

^dFigures for 1968-70 were reported on a somewhat different basis.

AGENCY DISTRIBUTION

The Atomic Energy Commission and the National Aeronautics and Space Administration, together accounting for more than four-fifths of total Federal support to FFRDC's administered by universities and colleges, increased their funds to these centers by 9 percent, or \$52 million, and 12 percent, or \$20 million, respectively, from 1969 to 1970.

Contrary to the increase in AEC and NASA activities at FFRDC's, support for programs sponsored by the Department of Defense, National Science Foundation, and Department of Health, Education, and Welfare declined by \$29 million. A \$16 million, or 66 percent, drop in the Office of Education's FFRDC funding level, from \$24

and Development Centers administered by universities and colleges, fiscal years 1963-70 (Continued)

Federal obligations						Sponsoring Agency	Administered by—
1965	1966	1967	1968	1969	1970		
3,382	2,752	2,853	8,838	9,218	9,085	DOD (Navy) DOD (Army) NASA	University of Rochester George Washington University College of William and Mary
729	1,815	586	1,645	3,445	1,213	865	
2,178	5,145	2,836	3,192	3,205	2,682	DOD (Navy)	University of Washington
3,380	4,719	5,062	4,865	7,278	5,800	NSF	Associated Universities, Inc.
1,273	1,390	1,378	1,300	1,350	1,280	DOD (Army)	University of Wisconsin
500	808	1,034	1,688	5,330	1,298	HEW (OE)	University of Wisconsin

^ePhased out as an FFRDC as of the end of FY 1969.

^fThe observatory became an FFRDC in 1970 when the National Science Foundation assumed responsibility for the support of the research programs of this institution.

^gFFRDC status in FY 1970 changed from "university administered" to "nonprofit administered"; 1970 data for this institution are included in part II, section 2.

million to \$8 million, accounted for more than one-half the decline in FFRDC obligations from the three agencies. The cut in OE support occurred almost entirely in new construction funding, which fell from a level of \$14 million in 1969 to zero in 1970.

Although AEC awards more than three-fifths—\$613 million—of Federal funds going to FFRDC's, its support is divided among 11 centers and, therefore, is not as heavily concentrated as that of some of the other agencies. The AEC centers are located in eight States included in seven geographic divisions, with no more than 31 percent of this agency's funds going to any one institution and no more than 35 percent to any one State (table 3).

Table 3.—Federal obligations to Federally Funded Research and Development universities and colleges, by agency, institution, and type of support,

[Dollars in thousands]

Agency and institution	Location	Total Federal obligations	Research and development	R p
United States, total		\$960,906	\$799,670	\$15
Atomic Energy Commission		613,251	464,201	14
Ames Laboratory	Iowa	8,885	7,506	
Argonne National Laboratory	Illinois	104,187	85,188	
Brookhaven National Laboratory	New York	72,640	49,829	2
Cambridge Electron Accelerator	Massachusetts	4,412	3,476	
Lawrence Radiation Laboratory	California	187,686	168,347	1
Los Alamos Scientific Laboratory	New Mexico	140,914	105,616	3
National Accelerator Laboratory	Illinois	49,527	6,597	
Oak Ridge Associated Universities	Tennessee	5,179	2,223	
Plasma Physics Laboratory	New Jersey	7,680	7,458	
Princeton-Pennsylvania Accelerator	New Jersey	5,090	4,118	
Stanford Linear Accelerator Center	California	27,051	23,843	
Department of Defense		131,213	131,213	—
Army		1,922	1,922	
Army Mathematics Center	Wisconsin	1,280	1,280	
Center for Research in Social Systems	Washington, D.C.	620	620	
National Center for Atmospheric Research ^a	Colorado	22	22	
Navy		73,623	73,623	
Applied Physics Laboratory	Maryland	53,444	53,444	
Applied Physics Laboratory	Washington	2,682	2,682	
Center for Naval Analyses	Virginia	9,085	9,085	
Ordnance Research Laboratory	Pennsylvania	8,412	8,412	
Air Force		55,648	55,648	
Lincoln Laboratory	Massachusetts	55,648	55,648	
Departmentwide Funds		20	20	
Brookhaven National Laboratory	New York	20	20	

Federal obligations to Federally Funded Research and Development Centers administered by universities and colleges, by agency, institution, and type of support, fiscal year 1970

[Dollars in thousands]

Location	Total Federal obligations	Research and development	R & D plant	Other science	Administered by —
	\$960,906	\$799,670	\$156,794	\$4,442	
	613,251	464,201	144,608	4,442	
Iowa	8,885	7,506	1,170	209	Iowa State University
Illinois	104,187	85,188	17,827	1,172	University of Chicago and Argonne Universities Association
New York	72,640	49,829	22,615	196	Associated Universities, Inc.
Massachusetts	4,412	3,476	936	-----	Massachusetts Institute of Technology, Harvard University
California	187,686	168,347	19,210	129	University of California
New Mexico	140,914	105,616	35,298	-----	University of California
Illinois	49,527	6,597	42,930	-----	University Research Association
Tennessee	5,179	2,223	230	2,726	Oak Ridge Associated Universities
New Jersey	7,680	7,458	222	-----	Princeton University
New Jersey	5,090	4,118	972	-----	University of Pennsylvania and Princeton University
California	27,051	23,843	3,198	10	Stanford University
	131,213	131,213	-----	-----	
	1,922	1,922	-----	-----	
Wisconsin	1,280	1,280	-----	-----	University of Wisconsin
Washington, D.C.	620	620	-----	-----	American University
Colorado	22	22	-----	-----	University Corporation for Atmospheric Research
	73,623	73,623	-----	-----	
Maryland	53,444	53,444	-----	-----	Johns Hopkins University
Washington	2,682	2,682	-----	-----	University of Washington
Virginia	9,085	9,085	-----	-----	University of Rochester
Pennsylvania	8,412	8,412	-----	-----	Pennsylvania State University
	55,648	55,648	-----	-----	
Massachusetts	55,648	55,648	-----	-----	Massachusetts Institute of Technology
	20	20	-----	-----	
New York	20	20	-----	-----	Associated Universities, Inc.

Table 3.-Federal obligations Federally Funded Research and Development and colleges, by agency, institution, and type of support

Agency and institution	Location	Total Federal obligations
Department of Health, Education, and Welfare		7,932
Office of Education		7,932
Center for the Advanced Study of Educational Administration	Oregon	596
Center for Research and Development in Higher Education	California	879
Center for Research and Development for Learning and Re-education	Wisconsin	1,298
Center for Study of Evaluation of Instructional Programs	California	648
Learning Research and Development Center	Pennsylvania	1,465
Research and Development Center of Educational Stimulation	Georgia	339
Research and Development Center in Teacher Education	Texas	656
Stanford Center for Research and Development in Teaching	California	928
Center for Study of Social Organization of Schools and the Learning Process	Maryland	650
Coordination Center for the National Program in Early Childhood Education	Illinois	473
National Aeronautics and Space Administration		180,692
Jet Propulsion Laboratory	California	179,827
Space Radiation Effects Laboratory	Virginia	865
National Science Foundation		27,506
Cerro-Tololo Inter-American Observatory	Chile	1,900
Kitt Peak National Observatory	Arizona	6,400
National Center for Atmospheric Research ^a	Colorado	11,300
National Radio Astronomy Observatory	West Virginia	5,800
Arecibo Observatory	Puerto Rico	2,106
Other agencies (Commerce and Transportation)		312
Jet Propulsion Laboratory	California	220
National Center for Atmospheric Research ^a	Colorado	92

^aReceived funds from the National Science Foundation, the Department of Defense, and the Department of Commerce.

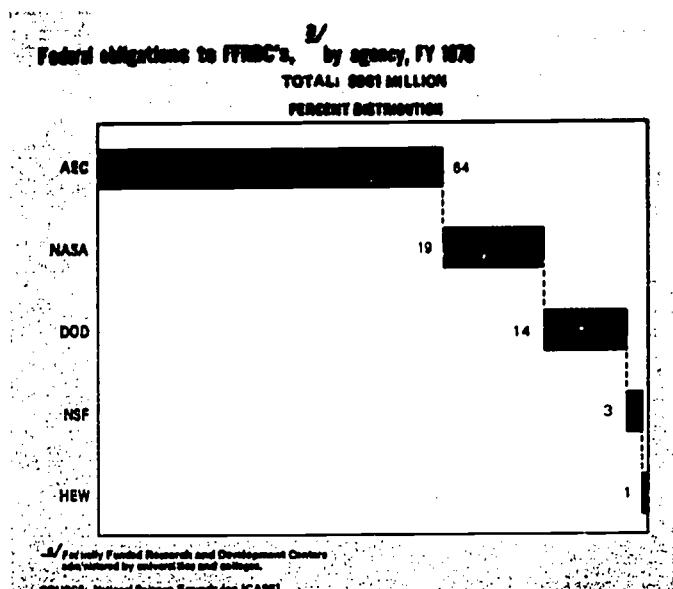
SOURCE: National Science Foundation (CASE).

Federal obligations Federally Funded Research and Development Centers administered by universities and colleges, by agency, institution, and type of support, fiscal year 1970 (Continued)

	Location	Total Federal obligations	Research and development	R & D plant	Other science	Administered by —
		7,932	7,932	-----	-----	
		7,932	7,932	-----	-----	
al Administration	Oregon	596	596	-----	-----	University of Oregon
higher Education	California	879	879	-----	-----	University of California
t for Learning and	Wisconsin	1,298	1,298	-----	-----	University of Wisconsin
nal Programs	California	648	648	-----	-----	University of California
ational Stimulation	Pennsylvania	1,465	1,465	-----	-----	University of Pittsburgh
or Education	Georgia	339	339	-----	-----	University of Georgia
ent in Teaching	Texas	656	656	-----	-----	University of Texas
chools and the Learning	California	928	928	-----	-----	Stanford University
ram in Early Childhood	Maryland	650	650	-----	-----	Johns Hopkins University
	Illinois	473	473	-----	-----	University of Illinois
		180,692	169,666	11,026	-----	
	California	179,827	168,805	11,022	-----	California Institute of Technology
	Virginia	865	861	4	-----	College of William and Mary
		27,506	26,346	1,160	-----	
	Chile	1,900	1,600	300	-----	Association of Universities for Research in Astronomy, Inc.
	Arizona	6,400	6,350	50	-----	Association of Universities for Research in Astronomy, Inc.
	Colorado	11,300	11,290	10	-----	University Corporation for Atmospheric Research
	West Virginia	5,800	5,150	650	-----	Associated Universities, Inc.
	Puerto Rico	2,106	1,956	150	-----	Cornell University
		312	312	-----	-----	
	California	220	220	-----	-----	California Institute of Technology
	Colorado	92	92	-----	-----	University Corporation for Atmospheric Research

ation, the Department

E).



The \$613 million allocated by AEC in 1970 covered a wide range of activities. A considerable portion of the total went into R&D projects aimed at improving the nuclear weapons systems to maintain U.S. leadership in this area. Other areas of national interest, however, are receiving increasing attention at AEC's FFRDC's. Specific activities include the following:

- (1) Development of techniques for safe applications of nuclear explosives to various peaceful projects such as development of techniques for large-scale nuclear excavation;
- (2) development of liquid metal fast breeder reactors whose eventual commercial development will be for generation of electricity;

- (3) improvement of radiation techniques in the diagnosis and treatment of disease; and
- (4) research on ozone treatment of acid mine drainage to stop water pollution in the Nation's rivers and streams resulting from such contaminants.

NASA, on the other hand, because of the very large individual projects associated with R&D work on space-related activities, e.g., the construction project for the Apollo program, has contracted almost all of its FFRDC activity through one center, the Jet Propulsion Laboratory in California.

INSTITUTIONAL DISTRIBUTION

Although the same number of FFRDC's received Federal support in 1970 as in 1969, the funding levels of individual institutions showed an overall increase in concentration of support. The first 10 recipients in Federal support, representing approximately one-quarter of the total number of FFRDC's, increased their share of total FFRDC funding from 88 percent in 1969 to 92 percent in 1970. The institutions comprising the first 10 in 1970 were the same as those in the leading 10 in 1969. Six of the first 10 are sponsored by AEC, 2 by DOD, 1 by NASA, and 1 by NSF.

For the second consecutive year R&D programs carried on at Lawrence Radiation Laboratory received the largest share of Federal aid. LRL funding went up by \$8.5 million to \$188 million, the highest amount reported for this FFRDC during the 1963-70 period. The largest 1969-70 increase was \$34.8 million, received by AEC's Na-

- (3) improvement of radiation techniques in the diagnosis and treatment of disease; and
- (4) research on ozone treatment of acid mine drainage to stop water pollution in the Nation's rivers and streams resulting from such contaminants.

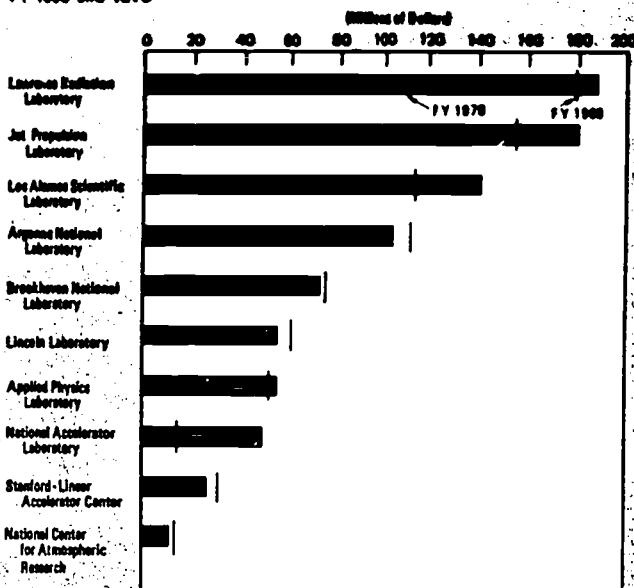
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Federal obligations to the 10 FFRDC's by receiving the largest amounts, FY 1969 and 1970



tional Accelerator Laboratory. Other substantial 1969-70 increases of \$26.2 million and \$23.8 million were registered by third-ranked Los Alamos Scientific Laboratory and second-ranked Jet Propulsion Laboratory, respectively. The first 3 centers, LRL, JPL, and LASL, with added funding totaling more than \$58 million increased their combined share of total Federal FFRDC support nearly 4 percentage points from 49 percent to 53 percent.

PART II

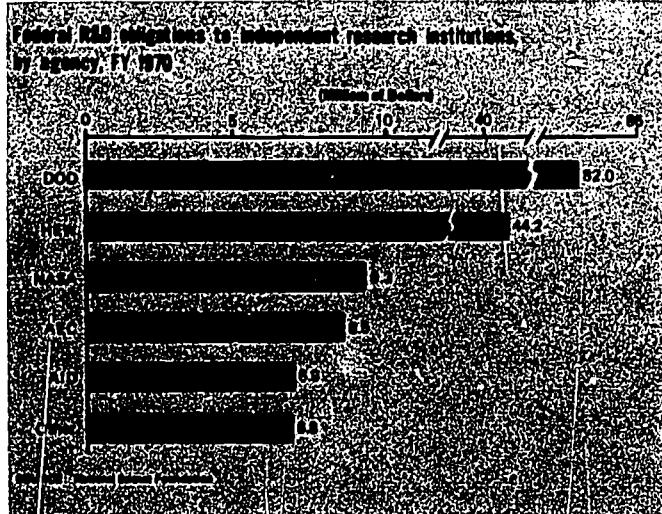
federal support to selected nonprofit institutions

SECTION 1.

federal support to independent research institutions

The 54 independent, nonprofit research institutions included in this section received \$158 million for R&D activities in 1970 (table 4). The institutions chosen for this study were selected because of their relatively high level of Federal obligations.¹ All are autonomous units, though some maintain close-working relationships with universities.

¹ See technical notes, p. 34, for information on the definitions and concepts used in this part of the report.



AGENCY DISTRIBUTION

The Department of Defense obligated the largest amount to these institutions—\$82 million to 32 recipients in 1970. Within this Department, the funds were obligated as follows:

	(millions of dollars)
Army	\$38.8
Navy	14.8
Air Force	28.4

Ten of the DOD-supported, independent non-profit research institutions had obligations of more than \$1 million; they accounted for 95 percent of the DOD total.² The top-5 recipients—Stanford Research Institute, Cornell Aeronautical Laboratory, Battelle Memorial Institute, Riverside Research Institute, and IIT Research Institute—received three-fourths of the Defense amount in 1970. Institutions in New York and California accounted for three-fifths of the Defense total, with obligations of \$27 million and \$25 million, respectively.

The Department of Health, Education and Welfare obligated the next largest amount to non-

² This does not include obligations to Federally Funded Research and Development Centers administered by non-profit institutions. They are covered in the following section, page 30.

Independent research institutions

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AGENCY DISTRIBUTION

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The Department of Health, Education and Welfare obligated the next largest amount to non-

profit research institutions—\$44 million to 46 organizations. Those HEW agencies concerned with health activities provided 96 percent of the departmental support to this selected group of research institutions, with NIH accounting for 85 percent. Institutions in the Middle Atlantic division received \$12 million from HEW and those in the Pacific division \$9 million. There were 16 institutions that received obligations of more than \$1 million from HEW, and they represented 78 percent of this total. The top-ranking 6, each with support in excess of \$2.5 million, were 44 percent of the HEW total.

The other Federal agencies provided \$31 million in 1970 to the nonprofit, research institutions included in the survey. NASA and AEC each obligated about \$9 million, and AID awarded almost \$7 million.

INSTITUTIONAL DISTRIBUTION

The 19 institutions each of which received total Federal obligations of more than \$2 million for research and development in 1970 accounted for \$134 million, or 85 percent of the total. They received \$120 million in 1969 and \$123 million in 1968.

Seven nonprofit research institutions received Federal support for R&D plant in 1970 for a

²This does not include obligations to Federally Funded Research and Development Centers administered by non-profit institutions. They are covered in the following section, page 30.

TABLE 4 FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT TO INDEPENDENT RESEARCH INSTITUTIONS
BY GEOGRAPHIC DIVISION, STATE, INSTITUTION, AND AGENCY
FISCAL YEAR 1970

GEOGRAPHIC DIVISION, STATE, AND INSTITUTION	TOTAL	(THOUSANDS OF DOLLARS)						NATIONAL					
		DEPART- MENT OF AGRICUL- TURE	ATOMIC ENERGY COM- MISSION	DEPART- MENT OF COM- MERCE	DEPART- MENT OF DEFENSE	DEPART- MENT OF HEALTH, EDUCATION, & WELFARE	DEPART- MENT OF THE INTERIOR	AERO- NAUTICS AND SPACE ADMINIS- TRATION	NAUTICS AND SPACE ADMINIS- TRATION	NATIONAL SCIENCE FOUNDA- TION	OTHER ^a		
UNITED STATES, TOTAL.....	\$ 157,694	\$ 328	\$ 8,518	\$ 320	\$ 82,038	\$ 44,235	\$ 1,605	\$ 9,286	\$ 2,517	\$ 8,817			
NEW ENGLAND, TOTAL.....	7,122	65	186	0	186	6,917	0	19	249	0			
MAINE, TOTAL.....	1,431	0	83	0	0	1,998	0	0	0	0			
JACKSON LABORATORY.....	1,481	0	83	0	0	1,398	0	0	0	0			
MASSACHUSETTS, TOTAL.....	5,641	65	103	0	186	5,019	0	19	249	0			
BLOOD RESEARCH INSTITUTE, INC....	467	65	0	0	47	355	0	0	0	0			
CHILDREN'S CANCER RESEARCH FOUNDATION.....	2,363	0	0	0	61	2,302	0	0	0	0			
MARINE BIOLOGICAL LABORATORY.....	303	0	18	0	0	149	0	0	136	0			
RETINA FOUNDATION.....	821	0	0	0	78	630	0	0	113	0			
WORCESTER FOUNDATION FOR EXPERIMENTAL BIOLOGY.....	1,687	0	85	0	0	1,583	0	19	0	0			
MIDDLE ATLANTIC, TOTAL.....	48,879	0	640	70	30,142	11,521	119	1,931	1,276	3,180			
NEW JERSEY, TOTAL.....	544	0	0	0	0	544	0	0	0	0			
INSTITUTE FOR MEDICAL RESEARCH.....	544	0	0	0	0	544	0	0	0	0			
NEW YORK, TOTAL.....	39,831	0	500	70	27,121	7,023	0	1,570	775	2,772			
BOYCE THOMPSON INSTITUTE FOR PLANT RESEARCH.....	434	0	0	0	0	248	0	0	186	0			
COLD SPRING HARBOR LAB OF QUANTITATIVE BIOLOGY.....	683	0	7	0	0	495	0	0	181	0			
CORNELL AERONAUTICAL LABORATORY.....	20,552	0	62	70	16,236	0	0	1,412	0	2,772			
HASKINS LABORATORIES, INC.....	380	0	0	0	62	239	0	0	79	0			
HUDSON INSTITUTE, INC.....	350	0	0	0	252	0	0	98	0	0			
INSTITUTE FOR MEDICAL RESEARCH AND STUDIES.....	244	0	0	0	0	160	0	30	54	0			
PUBLIC HEALTH RESEARCH INSTITUTE OF NEW YORK.....	1,465	0	0	0	53	1,137	0	0	275	0			
RIVERSIDE RESEARCH INSTITUTE SLIDAN-KETTERING INSTITUTE FOR CANCER RESEARCH.....	7,130	0	0	0	6,946	184	0	0	0	0			
SYRACUSE UNIVERSITY RESEARCH CORP.....	4,931	0	431	0	0	4,500	0	0	0	0			
PENNSYLVANIA, TOTAL.....	8,504	0	140	0	3,021	3,954	119	361	501	408			
AMERICAN INSTITUTE FOR RESEARCH.....	3,530	0	0	0	2,193	1,086	0	89	45	117			
BARTOL RESEARCH FOUNDATION OF THE FRANKLIN INSTITUTE.....	390	0	119	0	25	0	0	153	212	0			
FRANKLIN INSTITUTE.....	1,881	0	21	0	803	367	119	119	63	291			
INSTITUTE FOR CANCER RESEARCH.....	2,703	0	0	0	0	2,501	0	0	181	0			
EAST NORTH CENTRAL, TOTAL.....	28,498	30	4,948	101	15,166	3,380	552	3,213	0	1,108			
ILLINOIS, TOTAL.....	8,856	30	75	3	5,945	736	11	1,476	0	580			
HEKTOEN INSTITUTE FOR MEDICAL RESEARCH.....	646	0	0	0	0	646	0	0	0	0			
III RESEARCH INSTITUTE.....	7,227	30	75	0	5,945	90	11	1,476	0	0			
NATIONAL OPINION RESEARCH CENTER.....	583	0	0	3	0	0	0	0	0	0			

MIDDLE ATLANTIC. TOTAL.....	43,879	0	640	70	30,142	11,521	119	1,931	1,276	3,180
NEW JERSEY, TOTAL..... INSTITUTE FOR MEDICAL RESEARCH..	544	0	0	0	0	544	0	0	0	0
NEW YORK, TOTAL..... BOYCE THOMPSON INSTITUTE FOR PLANT RESEARCH.....	39,831	0	500	70	27,121	7,023	0	1,570	775	2,772
COLD SPRING HARBOR LAB OF QUANTITATIVE BIOLOGY.....	434	0	0	0	0	248	0	0	186	0
CORNELL AERONAUTICAL LABORATORY.....	683	0	7	0	0	495	0	0	181	0
HASKINS LABORATORIES, INC.....	20,552	0	62	70	16,236	0	0	1,412	0	2,772
HUDSON INSTITUTE, INC.....	380	0	0	0	62	239	0	0	79	0
INSTITUTE FOR MEDICAL RESEARCH AND STUDIES.....	350	0	0	0	252	0	0	98	0	0
PUBLIC HEALTH RESEARCH INSTITUTE OF NEW YORK.....	4,931	0	431	0	0	4,500	0	0	0	0
RIVERSIDE RESEARCH INSTITUTE.....	7,130	0	0	0	6,946	184	0	0	0	0
SLOAN-KETTERING INSTITUTE FOR CANCER RESEARCH.....	2,662	0	0	0	3,572	60	0	30	0	0
PENNSYLVANIA, TOTAL..... AMERICAN INSTITUTE FOR BARTOL RESEARCH.....	8,504	0	140	0	3,021	3,954	119	361	501	408
THE FRANKLIN INSTITUTE.....	3,530	0	c	0	2,193	1,086	0	89	45	117
FRANKLIN INSTITUTE.....	390	0	0	0	25	0	0	153	212	0
INSTITUTE FOR CANCER RESEARCH..	1,881	0	119	0	803	367	119	119	63	291
EAST NORTH CENTRAL, TOTAL.....	2,703	0	21	0	0	2,501	0	0	181	0
ILLINOIS, TOTAL..... HEKTOEN INSTITUTE FOR MEDICAL RESEARCH.....	28,498	30	4,968	101	15,166	3,380	552	3,213	0	1,108
IIT RESEARCH INSTITUTE.....	8,856	30	75	3	5,945	736	11	1,476	0	580
NATIONAL OPINION RESEARCH CENTER.....	7,627	30	75	0	5,945	90	0	1,476	0	0
MICHIGAN, TOTAL..... ATOMIC POWER DEVELOPMENT ASSOCIATES, INC.....	1,126	0	733	0	0	393	0	0	0	0
MICHIGAN CANCER FOUNDATION INC..	733	0	733	0	0	0	393	0	0	0
393	0	0	0	0	0	0	0	0	0	0
OHIO, TOTAL..... BATTELLE MEMORIAL INSTITUTE.....	18,516	0	4,140	98	9,221	2,251	541	1,737	0	528
FELS RESEARCH INSTITUTE.....	17,876	0	4,140	98	9,209	1,658	541	1,702	0	528
WEST NORTH CENTRAL, TOTAL.....	640	0	0	0	12	593	0	35	0	0
MINNESOTA, TOTAL..... MAYO FOUNDATION.....	7,279	24	30	0	2,201	4,201	311	165	0	347
NORTH STAR RESEARCH AND DEVELOPMENT INSTITUTE.....	4,814	0	0	0	630	3,837	145	20	0	182
1,065	0	0	0	0	0	3,749	0	0	0	0
MISSOURI, TOTAL..... MIDWEST RESEARCH INSTITUTE.....	2,465	24	30	0	1,571	364	166	145	0	165
2,465	24	30	0	1,571	364	166	145	0	165	0

TABLE 4 FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT TO INDEPENDENT RESEARCH INSTITUTIONS
CONTINUED BY GEOGRAPHIC DIVISION, STATE, INSTITUTION, AND AGENCY
FISCAL YEAR 1970

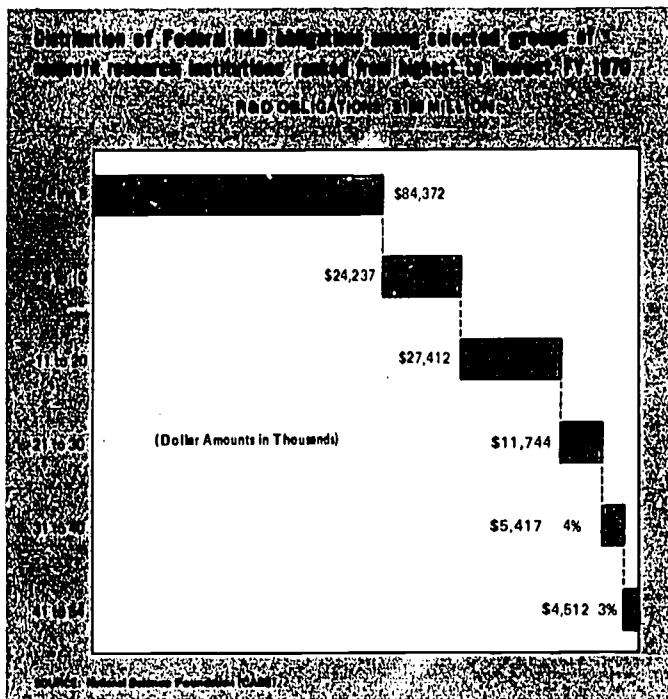
GEOGRAPHIC DIVISION, STATE, AND INSTITUTION	TOTAL	(THOUSANDS OF DOLLARS)						NATIONAL SCIENCE FOUNDA- TION	OTHER 2/
		DEPART- MENT OF AGRICUL- TURE	ATOMIC ENERGY COMMI- SSION	DEPART- MENT OF COM- MERCE	DEPART- MENT OF DEFENSE	DEPART- MENT OF HEALTH, EDUCATION, & WELFARE	DEPART- MENT OF THE INTERIOR		
SOUTH ATLANTIC, TOTAL.....	6,550	65	160	47	1,372	3,210	316	646	313.
DISTRICT OF COLUMBIA, TOTAL.....	2,253	0	15	0	516	1,032	23	125	313
ARCTIC INSTITUTE OF NORTH AMERICA.....	544	0	15	0	356	23	23	0	115
BROOKINGS INSTITUTE.....	158	0	0	0	0	30	0	0	128
BUREAU OF SOCIAL SCIENCE RESEARCH.....	465	0	0	0	0	248	0	0	0
CARNEGIE INSTITUTE OF WASHINGTON.....	261	0	0	0	25	41	0	125	70
GORGAS MEMORIAL INSTITUTE OF TROPICAL AND PREVENTIVE MEDICINE.....	467	0	0	0	115	352	0	0	0
INSTITUTE FOR BEHAVIORAL RESEARCH.....	358	0	0	0	20	338	0	0	0
MARYLAND, TOTAL.....	560	0	0	0	0	560	0	0	0
FRIENDS OF PSYCHIATRIC RESEARCH.....	560	0	0	0	0	560	0	0	0
NORTH CAROLINA, TOTAL.....	3,592	65	0	47	856	1,618	293	521	0
RESEARCH TRIANGLE INSTITUTE.....	3,592	65	0	47	856	1,618	293	521	0
VIRGINIA, TOTAL.....	145	0	145	0	0	0	0	0	0
HANFORD OCCUPATIONAL HEALTH FOUNDATION.....	145	0	145	0	0	0	0	0	0
EAST SOUTH CENTRAL, TOTAL.....	6,832	138	0	0	3,683	2,869	122	20	0
ALABAMA, TOTAL.....	6,832	138	0	0	3,683	2,869	122	20	0
SOUTHERN RESEARCH INSTITUTE.....	6,832	138	0	0	3,683	2,869	122	20	0
WEST SOUTH CENTRAL, TOTAL.....	9,082	6	342	3	3,817	3,063	150	403	59
OKLAHOMA, TOTAL.....	1,767	0	0	0	134	1,579	0	0	54
OKLAHOMA MEDICAL RESEARCH FOUNDATION.....	1,767	0	0	0	134	1,579	0	0	54
TEXAS, TOTAL.....	7,315	6	342	3	3,683	1,484	150	403	5
SOUTHWEST FOUNDATION FOR RESEARCH AND EDUCATION.....	2,252	0	0	0	0	1,325	0	0	5
SOUTHWEST RESEARCH FOUNDATION.....	5,063	6	342	3	3,683	159	150	403	317
mountain, TOTAL.....	3,019	0	1,711	0	564	106	0	638	0
ARIZONA, TOTAL.....	501	0	0	0	0	0	0	501	0
LOWELL OBSERVATORY.....	501	0	0	0	0	0	0	501	0

NORTH CAROLINA, TOTAL.....	3,592	65	0	47	856	1,618	293	521	0	192
VIRGINIA, TOTAL.....	145	0	145	0	0	0	0	0	0	0
HANFORD OCCUPATIONAL HEALTH FOUNDATION.....	145	0	145	0	0	0	0	0	0	0
EAST SOUTH CENTRAL, TOTAL.....	6,832	138	0	0	3,683	2,869	122	20	0	0
ALABAMA, TOTAL.....	6,832	136	0	0	3,682*	2,869	122	20	0	0
SOUTHERN RESEARCH INSTITUTE.....	6,832	138	0	0	3,683	2,869	122	20	0	0
WEST SOUTH CENTRAL, TOTAL.....	9,082	6	342	3	3,817	3,063	150	403	59	1,239
OKLAHOMA, TOTAL.....	1,767	0	0	0	134	1,579	0	0	54	0
OKLAHOMA MEDICAL RESEARCH FOUNDATION.....	1,767	0	0	0	134	1,579	0	0	54	0
TEXAS, TOTAL.....	7,315	6	342	3	3,683	1,484	150	403	5	1,239
SOUTHWEST FOUNDATION FOR RESEARCH AND EDUCATION.....	2,252	0	0	0	0	1,325	0	0	5	922
SOUTHWEST RESEARCH FOUNDATION.....	5,063	6	342	3	3,683	159	150	403	0	317
MOUNTAIN, TOTAL.....	3,019	0	1,711	0	564	106	0	638	0	0
ARIZONA, TOTAL.....	501	0	0	0	0	0	0	501	0	0
LOWELL OBSERVATORY.....	501	0	0	0	0	0	0	501	0	0
NEW MEXICO, TOTAL.....	2,518	0	1,711	0	564	106	0	137	0	0
LOVELACE FOUNDATION FOR MEDICAL EDUCATION.....	2,518	0	1,711	0	564	106	0	137	0	0
PACIFIC, TOTAL.....	40,433	0	501	99	24,907	9,468	35	2,251	620	2,552
CALIFORNIA, TOTAL.....	36,730	0	380	99	24,857	5,936	35	2,251	620	2,552
INSTITUTE OF MEDICAL SCIENCES.....	1,347	0	0	0	35	1,193	0	119	0	0
PALO ALTO MEDICAL RESEARCH FOUNDATION.....	442	0	0	0	25	417	0	0	0	0
SALK INSTITUTE FOR BIOLOGICAL STUDIES.....	3,435	0	0	0	0	940	0	60	180	2,255
SCRIPPS CLINIC AND RESEARCH FOUNDATION.....	319	0	135	0	26	0	0	0	158	0
STANFORD RESEARCH INSTITUTE.....	31,187	0	245	99	24,771	3,386	35	2,072	282	297
OREGON, TOTAL.....	3,368	0	0	0	50	3,318	0	0	0	0
MEDICAL RESEARCH FOUNDATION OF OREGON.....	2,673	0	0	0	0	2,673	0	0	0	0
OREGON RESEARCH INSTITUTE.....	695	0	0	0	50	645	0	0	0	0
WASHINGTON, TOTAL.....	335	0	121	0	0	214	0	0	0	0
PACIFIC NORTHWEST RESEARCH FOUNDATION.....	335	0	121	0	0	214	0	0	0	0

* Includes Agency for International Development, Office of Economic Opportunity, the Departments of Housing and Urban Development, Labor, and Transportation.

SOURCE: National Science Foundation.

TABLE 5

**GEOGRAPHIC DISBURSEMENT
AND INSTITUTIONAL TYPES****UNITED STATES****EAST NORTH CENTRAL****MICHIGAN, TOTAL
ATOMIC POWER
ASSOCIATES****SOUTH ATLANTIC****DISTRICT OF COLUMBIA,
CARNEGIE INSTITUTION
WASHINGTON****VIRGINIA, TOTAL
HANFORD OCCIDENTAL
FOUNDATION****WEST SOUTH CENTRAL****TEXAS, TOTAL
SOUTHWEST REGION****MOUNTAIN, TOTAL****NEW MEXICO, TOTAL
LOVELACE FOUNDATION
MEDICAL EDUCATION****PACIFIC, TOTAL****CALIFORNIA, TOTAL
STANFORD RESEARCH****WASHINGTON, TOTAL
PACIFIC NORTHWEST
FOUNDATION****SOURCE: National Science Foundation**

total of \$367,000 (table 5). As this category of support includes obligations for the acquisition and repair of facilities and equipment for R&D activities, it is subject to fluctuations from year to year. The Lovelace Foundation for Medical Education was the leading recipient, with \$273,000.

TABLE 5 FEDERAL OBLIGATIONS FOR R&D PLANT TO INDEPENDENT RESEARCH INSTITUTIONS BY GEOGRAPHIC DIVISION, STATE, INSTITUTION, AND AGENCY, FISCAL YEAR 1970

(THOUSANDS OF DOLLARS)

GEOGRAPHIC DIVISION, STATE, AND INSTITUTION	TOTAL	ATOMIC ENERGY COMMI- SSION	NATIONAL SCIENCE FOUNDA- TION
UNITED STATES, TOTAL.....\$	367	\$ 316	51
EAST NORTH CENTRAL, TOTAL.....	8	8	0
MICHIGAN, TOTAL.....	8	8	0
ATOMIC POWER DEVELOPMENT ASSOCIATES, INC.....	8	8	0
SOUTH ATLANTIC, TOTAL.....	52	21	31
DISTRICT OF COL, TOTAL.....	31	0	31
CARNEGIE INSTITUTE OF WASHINGTON.....	31	0	31
VIRGINIA, TOTAL.....	21	21	0
HANFORD OCCUPATIONAL HEALTH FOUNDATION.....	21	21	0
WEST SOUTH CENTRAL, TOTAL.....	12	12	0
TEXAS, TOTAL.....	12	12	0
SOUTHWEST RESEARCH FOUNDATION...	12	12	0
MOUNTAIN, TOTAL.....	273	273	0
NEW MEXICO, TOTAL	273	273	0
LOVELACE FOUNDATION FOR MEDICAL EDUCATION.....	273	273	0
PACIFIC, TOTAL.....	22	2	20
CALIFORNIA, TOTAL	20	0	20
STANFORD RESEARCH INSTITUTE....	20	0	20
WASHINGTON, TOTAL	2	2	0
PACIFIC NORTHWEST RESEARCH FOUNDATION.....	2	2	0

SOURCE: National Science Foundation.

SECTION 2.

federally funded research and development centers

Twenty-seven Federally Funded Research and Development Centers managed by nonprofit institutions received \$273 million from Federal agencies in 1970, rising from \$247 million in 1969 and \$234 million in 1968 (table 6). These organizations are exclusively or substantially financed by the Federal Government to conduct R&D activities or to manage R&D programs on behalf of the Government.

Although representing only one-third the number of independent nonprofit research organizations included in part II of this report, the 27 FFRDC's managed by nonprofit institutions accounted for 63 percent of Federal R&D obligations awarded to the 81 nonprofit institutions in 1970.

AGENCY DISTRIBUTION

In 1970 Federal obligations for R&D acts FFRDC's administered by nonprofit ins totaled \$256 million. The Department of provided three-fifths of this amount, or \$161 million. The leading recipients of the eight sharing in the DOD amount were the Aerospace Corporation, \$73 million; the MITRE Corporation, \$38 million; and the RAND Corporation, \$11 million.

The Atomic Energy Commission oblig million to two FFRDC's for research and development in 1970: Pacific Northwest Laboratory, \$1 million, and Atomic Bomb Casualty Com \$4 million.

rch and development centers

AGENCY DISTRIBUTION

In 1970 Federal obligations for R&D activities to FFRDC's administered by nonprofit institutions totaled \$256 million. The Department of Defense provided three-fifths of this amount, or \$162 million. The leading recipients of the eight FFRDC's sharing in the DOD amount were the Aerospace Corporation, \$73 million; the MITRE Corporation, \$38 million; and the RAND Corporation, \$20 million.

The Atomic Energy Commission obligated \$60 million to two FFRDC's for research and development in 1970: Pacific Northwest Laboratory, \$56 million, and Atomic Bomb Casualty Commission, \$4 million.

The Department of Health, Education, and Welfare awarded \$39 million to these FFRDC's; this was an increase of \$13 million from the 1969 HEW total.

Federal funds for R&D plant were \$17 million in 1970, rising from \$11 million in 1969 and \$5 million in 1968.⁸ The major obligations were received by the Pacific Northwest Laboratory, \$5 million from AEC; Southwest Regional Educational Laboratory and Southwest Educational Development Laboratory, each with \$4 million from HEW; and, Central Midwestern Regional Educational Laboratory with \$3 million from HEW.

⁸The data on R&D plant are understated to the extent that DOD does not report separately the sums used for R&D plant within R&D contracts.

Table 6.—Federal obligations for research and development and R&D plant to and Development Centers, administered by nonprofit institutions, fiscal year

[Dollars in thousands]

Location and name	Total Federal obligations			Research and develop	
	1968	1969	1970	1968	1969
Total	\$234,093	\$246,728	\$273,269	\$229,308	\$235,885
Arkansas:					
South Central Regional Educational Laboratory, Corporation ^a	711	320	-----	700	320
California:					
Aerospace Corporation	73,626	76,338	72,953	73,537	76,338
RAND Corporation	20,407	20,438	21,167	20,295	20,438
Center for Educational Policy Research ^b	500	500	448	500	500
The Far West Laboratory for Educational Research and Development	1,308	6,536	2,373	1,260	1,685
Southwest Regional Educational Laboratory	2,235	2,487	7,310	2,235	2,487
Colorado:					
Rocky Mountain Regional Educational Laboratory ^a	514	346	-----	514	346
District of Columbia:					
Atomic Bomb Casualty Commission	3,822	3,925	4,250	3,685	3,788
Central Atlantic Regional Educational Laboratory ^a	796	390	-----	780	390
Georgia:					
Southeastern Educational Laboratory	719	670	720	670	670
Illinois:					
Cooperative Educational Research Laboratory, Inc. ^a	622	241	-----	600	241
Maryland:					
Electromagnetic Compatibility Analysis Center ^c	5,237	4,642	5,210	5,237	4,642
Massachusetts:					
MITRE Corporation	36,521	32,702	40,856	36,521	32,702
Educational Development Center, Inc.	1,041	1,390	1,509	1,041	1,390
Michigan:					
Michigan-Ohio Regional Educational Laboratory ^a	853	385	-----	800	385
Minnesota:					
Upper Midwest Regional Educational Laboratory, Inc.	678	800	958	678	800
Missouri:					
Central Midwestern Regional Educational Laboratory	1,370	1,746	6,138	1,350	1,746
Mid-Continent Regional Educational Laboratory	730	938	957	730	938

ral obligations for research and development and R&D plant to Federally Funded Research
ment Centers, administered by nonprofit institutions, fiscal years 1968, 1969, and 1970

[Dollars in thousands]

Total Federal obligations			Research and development			R&D plant			Sponsoring agency
1968	1969	1970	1968	1969	1970	1968	1969	1970	
\$234,093	\$246,728	\$273,269	\$229,308	\$235,885	\$256,491	\$4,785	\$10,843	\$16,778	
711	320	-----	700	320	-----	11	-----	-----	HEW (CE)
73,626	76,338	72,953	73,537	76,338	72,953	89	-----	-----	DOD (Air Force)
20,407	20,438	21,167	20,295	20,438	21,167	112	-----	-----	DOD (Air Force)
500	500	448	500	500	448	-----	-----	-----	HEW (OE)
1,308	6,536	2,373	1,250	1,685	2,373	58	4,851	-----	HEW (OE)
2,235	2,487	7,310	2,235	2,487	3,024	-----	-----	4,286	HEW (OE)
514	346	-----	514	348	-----	-----	-----	-----	HEW (OE)
3,822	3,925	4,250	3,685	3,788	4,155	137	137	96	AEC
796	390	-----	780	390	-----	16	-----	-----	HEW (OE)
719	670	720	670	670	720	49	-----	-----	HEW (OE)
622	241	-----	600	241	-----	22	-----	-----	HEW (OE)
5,237	4,642	5,210	5,237	4,642	5,210	-----	-----	-----	DOD (Air Force)
36,521	32,702	40,856	36,521	32,702	40,856	-----	-----	-----	DOD (Air Force)
1,041	1,390	1,509	1,041	1,390	1,509	-----	-----	-----	HEW (OE)
853	385	-----	800	385	-----	53	-----	-----	HEW (OE)
678	800	958	678	800	958	-----	-----	-----	HEW (OE)
1,370	1,746	8,138	1,350	1,748	3,233	20	-----	2,905	HEW (OE)
730	938	957	730	938	957	-----	-----	-----	HEW (OE)

**Table 6. Federal obligations for research and development and R&D plant
Centers, administered by nonprofit institutions, fiscal years**

Location and name	Total Federal obligations			Res
	1968	1969	1970	
New Mexico: Southwestern Cooperative Educational Laboratory	791	862	956	752
New York: Center for Urban Education	2,675	2,646	2,600	2,675
Eastern Regional Institute for Education	947	999	844	943
Policy Research Center ^d	499	587	689	499
North Carolina: Regional Educational Laboratory for the Carolinas and Virginia	698	820	1,152	694
Oregon: Northwest Regional Educational Laboratory	1,566	1,763	1,841	1,544
Pennsylvania: Research for Better Schools, Inc.	2,094	2,757	3,397	2,089
Texas: Southwest Educational Development Laboratory	1,452	1,843	6,363	1,400
Virginia: Institute for Defense Analysis	11,941	12,388	11,859	11,941
Human Resources Research Organization ^e	-----	-----	4,291	-----
Research Analysis Corporation	10,308	9,915	9,524	10,308
Analytical Services, Inc.	1,495	1,180	1,659	1,495
Washington: Pacific Northwest Laboratory	46,943	55,258	62,119	42,851
West Virginia: Appalachia Educational Laboratory	994	916	1,126	994

^aDiscontinued in FY 1970.

^bAdministered by Stanford Research Institute.

^cAdministered by Illinois Institute of Technology Research Institute.

^dAdministered by Syracuse University Research Corporation.

^eWas "unive

SOURCE: N

Federal obligations for research and development and R&D plant to Federally Funded Research and Development Centers, administered by nonprofit institutions, fiscal years 1968, 1969, and 1970 (Continued)

	Total Federal obligations			Research and development			R&D plant			Sponsoring agency
	1968	1969	1970	1968	1969	1970	1968	1969	1970	
University	791	862	956	752	862	956	39	-----	-----	HEW (OE)
.....	2,675	2,646	2,600	2,675	2,646	2,600	-----	-----	-----	HEW (OE)
.....	947	999	844	943	999	844	4	-----	-----	HEW (OE)
.....	499	587	689	499	587	689	-----	-----	-----	HEW (OE)
Carolinas and	698	820	1,152	694	820	1,152	4	-----	-----	HEW (OE)
.....	1,566	1,763	1,841	1,544	1,763	1,841	22	-----	-----	HEW (OE)
.....	2,094	2,757	3,397	2,089	2,700	3,397	5	57	-----	HEW (OE)
University	1,452	1,843	6,363	1,400	1,710	2,263	52	133	4,100	HEW (OE)
.....	11,941	12,388	11,859	11,941	12,388	11,859	-----	-----	-----	DOD (Office of the Secretary)
.....	-----	-----	4,291	-----	-----	4,291	-----	-----	-----	DOD (Army)
.....	10,308	9,915	9,524	10,308	9,915	9,524	-----	-----	-----	DOD (Army)
.....	1,495	1,180	1,659	1,495	1,180	1,659	-----	-----	-----	DOD (Air Force)
.....	46,943	55,258	62,119	42,861	49,613	56,727	4,092	5,645	5,392	AEC
.....	994	916	1,126	994	896	1,126	-----	20	-----	HEW (OE)

^aWas "university administered" prior to fiscal year 1970. See part I, section 5 for data for those years.

SOURCE: National Science Foundation (CASE).

Technology Research Institute.
Search Corporation.

APPENDIXES

- A. Technical Notes**
- B. Federal Obligations to 2-Year Institutions**
- C. Statistical Tables**

APPENDIX A

TECHNICAL NOTES

CONCEPTS AND LIMITATIONS

The dollar totals in this report represent obligations to academic institutions, selected other non-profit organizations, and associated Federally Funded Research and Development Centers, incurred by 13 Federal agencies. Data on academic institutions and their associated FFRDC's are extracted from the CASE data collection system established by the Committee on Academic Science and Engineering of the Federal Council for Science and Technology. Data on other non-profit organizations were collected separately. To facilitate this effort the agencies participating in the CASE study were requested to provide data on research and development and R&D plant obligations allocated to selected other nonprofit institutions.

Data for five of the reporting agencies, the Office of Economic Opportunity, the Agency for International Development, and the Departments of Housing and Urban Development, Labor, and Transportation, are combined for the purpose of tabular presentation. These units, constituting the "other" category used as the final column heading in tables showing agency detail, were added to the data collection system in 1968 and 1969.

Dollar totals reflect actual obligations by the reporting agency during a fiscal year (July 1-June 30) regardless of when funds were spent by a recipient.¹ Certain allocations for financial assistance by Federal agencies were excluded from the

¹ Data for the Atomic Energy Commission were provided in terms of costs rather than obligations but are treated as substantially the same thing in this analysis.

study, notably loans such as those made by the Office of Education for undergraduate construction, and agency supported employee training and development. Obligations were reported in amounts to the nearest thousand dollars.

Data for individual institutions receiving support from Federal agencies and foundations do not make allowances for amounts paid to or from other institutions. Consequently, location of actual performance of the amounts cannot be identified if the transaction takes place at some site other than the institution receiving direct support from the agencies. In cases of interagency allocation of funds, the agency that made the funds available allocates the funds to academic institutions based on its obligations.

Federal obligations to universities and colleges are shown in terms of the individual institutions comprising a system. Also listed separately are the several dollars awarded directly to the central administrative office of a system. However, when the allocation of funds is not known at the point of disbursement, agencies report the funds to the system's administrative office or center of a system.² In many cases, the Federal funds are distributed by the system's central office to individual institutions. To the extent that this effect takes place, the amounts reported for individual institutions within a system are understated. Central system obligations for the fiscal year 1970 were reported for the following systems:

² Data on Federal obligations to "centralized" systems included in appendix tables C-13, C-14, and C-15.

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study, notably loans such as those made by the Office of Education for undergraduate and graduate construction, and agency support of Federal employee training and development activities. Obligations were reported in amounts rounded to the nearest thousand dollars.

Data for individual institutions represent direct support from Federal agencies and, therefore, do not make allowances for amounts subcontracted to or from other institutions. Consequently, the location of actual performance of obligated amounts cannot be identified if that performance takes place at some site other than that of the institution receiving direct support from Federal agencies. In cases of interagency transfers of funds, the agency that made the final distribution of the funds to academic institutions reported the obligations.

Federal obligations to university "systems" are shown in terms of the individual institutions comprising a system. Also listed separately are Federal dollars awarded directly to the administrative center of a system. However, where the final allocation of funds is not known at the time the award is made, agencies report the funds as obligations to the system's administrative office, or "central system."² In many cases, the Federal funds are distributed by the system's central office to individual institutions. To the extent this filtering effect takes place, the amounts reported for the individual institutions within a system may be understated. Central system obligations in FY 1970 were reported for the following:

² Data on Federal obligations to "central systems" are included in appendix tables C-13, C-14, and C-15.

Los Angeles City Junior College District System
Peralta Junior College District System
San Diego Junior Colleges System
University of California System
University of Illinois System
Louisiana State University System
Mississippi Gulf Coast Junior College District System
University of Missouri System
University of Nebraska System
University of Nevada System
City University of New York System
Columbia University System
State University of New York System
Union College and University System
University of North Carolina System
University of Tennessee System
Texas A&M University System
University of Texas System
University of Wisconsin System
Wisconsin State University System
University of Puerto Rico System

Among the categories of support reported by Federal agencies, amounts shown for individual institutions may not always indicate the way the funds are actually spent by these organizations. For instance, the entire obligations by the Department of Defense were reported under research and development, although some of the funds were actually expended for plant and facilities.

Some of the obligations by Federal agencies under institutional grant programs for general or special purposes were included under the category "other activities," although actual expenditure of these funds is spread among research and development, R&D plant, and other activities. Again, it is extremely difficult to categorize the purposes for which such funds are expended because of the close functional relationship between research and education.

Sections 2, 3, and 4 in part I of this report include comparisons between obligation data and educational data on total degrees conferred over the academic year 1967-68. These figures were compiled from degree data collected by the Office of Education in the Higher Education General Information Survey (HEGIS).

RELATIONSHIP OF THIS STUDY TO FEDERAL FUNDS FOR RESEARCH, DEVELOPMENT, AND OTHER SCIENTIFIC ACTIVITIES

Both this study and *Federal Funds for Research, Development, and Other Scientific Activities*,³ obtain data on obligations by Federal agencies for research and development and R&D plant to universities, colleges, other nonprofit institutions, and their associated Federally Funded Research and Development Centers. This study is oriented toward obtaining information on total Federal support for individual institutions and selected nonprofit research organizations, while the *Federal Funds* study obtains data on research and development and R&D plant obligated by Federal agencies to each sector of the economy, including Government, industry, universities and colleges, and all other nonprofit organizations. In *Federal Funds*, the emphasis is on character of activity and field of science, rather than individual recipients.

In general, there is conformity of concepts and definitions used in the two studies. It should be noted, however, that data do not and cannot conform in all respects. Information used in *Federal Funds* is based on the agencies' budgets which, of course, cannot show details on the recipient of funds.

For the purpose of this report, "selected nonprofit organizations" include primarily independent nonprofit research institutions. Omitted

³National Science Foundation, *Federal Funds for Research, Development, and Other Scientific Activities, Fiscal Years 1969, 1970, and 1971*, Vol. XIX (NSF 70-38) (Washington, D.C. 20402: Supt. of Documents, U.S. Government Printing Office, 1970).

from this group are hospitals, academies of science, museums, professional and technical societies and, with one exception, all private philanthropic foundations all of which are included in the *Federal Funds* classification of nonprofit organizations. The exception is a private foundation which is known to allocate more than 50 percent of its expenditures for the performance of intramural research. Also, since this study covers 13 Federal departments and agencies and *Federal Funds* obtains reports on a Government-wide basis, there is a difference representing the amounts obligated to institutions by agencies not in the CASE study.

Among other differences is the fact that the National Institutes of Health reported its General Research Support Grants Program as research and development in *Federal Funds*, and "other scientific activities" in the CASE study. Similar reporting differences occurred in the case of the National Aeronautics and Space Administration's Sustaining University Program. The National Science Foundation provided estimates to *Federal Funds* of amounts expended by universities for research and development and R&D plant from institution-based grants. For individual institutions of higher education, the allocation of funds from this program differs widely among various categories of support and, consequently, all of the Foundation's obligations for Institutional Grant Programs were reported as "other scientific activities" in the CASE study.

In cases of interagency transfers of funds, the present study instructs the agency that actually obligates funds to an academic institution to report the obligation. In *Federal Funds*, on the other hand, agencies initiating the interagency transfers report the obligated amounts.

DEFINITIONS OF TERMS

University or college consists of all parts of the academic institution—such as a college of liberal arts, professional school, hospital, school of agriculture, agricultural experiment station, etc.—

from this group are hospitals, academies of science, museums, professional and technical societies and, with one exception, all private philanthropic foundations all of which are included in the *Federal Funds* classification of non-profit organizations. The exception is a private foundation which is known to allocate more than 50 percent of its expenditures for the performance of intramural research. Also, since this study covers 13 Federal departments and agencies and *Federal Funds* obtains reports on a Government-wide basis, there is a difference representing the amounts obligated to institutions by agencies not in the CASE study.

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DEFINITIONS OF TERMS

University or college consists of all parts of the academic institution—such as a college of liberal arts, professional school, hospital, school of agriculture, agricultural experiment station, etc.—

except an associated Federally Funded Research and Development Center. Universities and colleges include all institutions of higher education in the United States that offer at least 2 years of college-level studies in residence. The universe of institutions for this report is based upon the Office of Education's *Education Directory 1969-70*. To be included in this report, an institution must have received some Federal support in fiscal year 1970 and must possess a significant degree of autonomy with respect to educational administrative responsibilities. Thus, universities and colleges organized under systems, e.g., groups of institutions collectively having legal status and generally accorded recognition by a State, by a board of education, or other relevant organization, are shown as separate institutions in cases where significant autonomy exists. Obligations to branches and campuses of institutions are not shown separately but are included in the total for the parent institutions. Obligations to service schools were excluded from the study. Also excluded were funds awarded to the U.S. Department of Agriculture Graduate School.

Nonprofit research institutions included in this report are limited to 54 selected independent research performing organizations and 27 Federally Funded Research and Development Centers managed by nonprofit institutions. The 54 independent institutions are primarily composed of research institutes and do not include such nonprofit organizations as nonprofit hospitals, academies of science, professional and technical societies, museums, or philanthropic foundations.

Federally Funded Research and Development Centers in this report are organizational units managed by universities and colleges or other nonprofit institutions. Generally, these units have been established to meet a particular R&D need of a Federal agency. The Committee on Academic Science and Engineering has developed uniform identification and classification criteria for use by all sponsoring agencies. To be classified as an FFRDC, an organization should:

- (a) Perform primarily one or more of the following: basic research, applied research, development, or management of research and development. Specifically excluded are organizations engaged primarily in routine quality control and testing, routine service activities, production mapping and surveys, and information dissemination;
- (b) constitute a separate operational unit within the parent organization or be organized as a separately incorporated organization;
- (c) perform actual research and development or R&D management either upon 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 or 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.

Included in this report are 36 FFRDC's administered by universities and colleges and 27 FFRDC's administered by other nonprofit institutions. Of the 36 FFRDC's associated with universities and colleges in 1970, 28 are administered by specified universities; 7 are managed solely by university consortia; and 1, Argonne National Laboratory, is managed jointly by the University of Chicago and Argonne Universities Association. The institutions comprising the membership of the managing consortia are as follows:

Associated Universities, Inc.
Columbia University

Cornell University
Harvard University
Johns Hopkins University
Massachusetts Institute of Technology
University of Pennsylvania
Princeton University
University of Rochester
Yale University

Association of Universities for Research in Astronomical Sciences
University of California
University of Chicago
Harvard University
Indiana University
University of Michigan
Ohio State University
Princeton University
University of Texas
University of Wisconsin
Yale University

University Corporation for Atmospheric Research
University of Alaska
University of Arizona
University of California
Catholic University of America
University of Chicago
Colorado State University
University of Colorado
Cornell University
University of Denver
Florida State University
University of Hawaii
Johns Hopkins University
University of Maryland
Massachusetts Institute of Technology
University of Miami
University of Michigan
University of Minnesota
University of Missouri
New York University
University of Oklahoma
Pennsylvania State University
St. Louis University
Texas A&M University
University of Texas
University of Utah
University of Washington
University of Wisconsin

Oak Ridge Associated Universities
University of Alabama
University of Arkansas
Auburn University

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Cornell University
Harvard University
Johns Hopkins University
Massachusetts Institute of Technology
University of Pennsylvania
Princeton University
University of Rochester
Yale University

Association of Universities for Research in Astronomy, Inc.
University of California
University of Chicago
Harvard University
Indiana University
University of Michigan
Ohio State University
Princeton University
University of Texas
University of Wisconsin
Yale University

University Corporation for Atmospheric Research

University of Alaska
University of Arizona
University of California
Catholic University of America
University of Chicago
Colorado State University
University of Colorado
Cornell University
University of Denver
Florida State University
University of Hawaii
Johns Hopkins University
University of Maryland
Massachusetts Institute of Technology
University of Miami
University of Michigan
University of Minnesota
University of Missouri
New York University
University of Oklahoma
Pennsylvania State University
St. Louis University
Texas A&M University
University of Texas
University of Utah
University of Washington
University of Wisconsin

Oak Ridge Associated Universities

University of Alabama
University of Arkansas
Auburn University

Catholic University of America
Clemson University
Duke University
Emory University
Fisk University
University of Florida
Florida State University
University of Georgia
Georgia Institute of Technology
University of Kentucky
Louisiana State University
University of Louisville
University of Maryland
Meharry Medical College
University of Miami
University of Mississippi
Mississippi State University
University of North Carolina
North Carolina State University
North Texas State University
University of Oklahoma
University of Puerto Rico
Rice University
University of South Carolina
Southern Methodist University
University of Tennessee
University of Texas
Texas A&M University
Texas Christian University
Texas Women's University
Tulane University
Tuskegee Institute
Vanderbilt University
University of Virginia
Virginia Polytechnic Institute
West Virginia University
College of William and Mary

Universities Research Association

University of Arizona
Brown University
California Institute of Technology
University of California—Berkeley
University of California—Los Angeles
University of California—San Diego
Carnegie Mellon University
Case Western Reserve University
University of Chicago
University of Colorado
Columbia University
Cornell University
Duke University
Florida State University

Harvard University
University of Illinois
Indiana University
Iowa State University
University of Iowa
Johns Hopkins University
University of Maryland
Massachusetts Institute of Technology
Michigan State University
University of Michigan
University of Minnesota
University of North Carolina—Chapel Hill
Northwestern University
University of Notre Dame
Ohio State University
University of Pennsylvania
Princeton University
Purdue University
Rice University
University of Rochester
Rockefeller University
Rutgers, the State University
Stanford University
State University of New York—Buffalo
State University of New York—Stony Brook
Stevens Institute of Technology
Syracuse University
University of Texas
University of Toronto
Tulane University
Vanderbilt University
University of Virginia
Washington University (St. Louis)
University of Washington
University of Wisconsin
Virginia Polytechnic Institute
Yale University

Argonne Universities Association
Carnegie Mellon University

Case Western Reserve University
Illinois Institute of Technology
Indiana University
Iowa State University
Kansas State University
Loyola University
Marquette University
Michigan State University
Northwestern University
Ohio State University
Pennsylvania State University
Purdue University
Southern Illinois University
St. Louis University
University of Arizona
University of Chicago
University of Cincinnati
University of Illinois
University of Iowa
University of Kansas
University of Michigan
University of Minnesota
University of Missouri
University of Notre Dame
University of Texas-Austin
University of Wisconsin
Washington University (St. Louis)
Wayne State University

Academic science includes the sum of activities classified under three categories: research and development, R&D plant, other science activities. Each of these categories is defined below.

Research is defined as scientific inquiry. It includes basic studies—those oriented toward deeper or more meaningful understanding of knowledge per se in a particular subject or field—and applied studies—those aimed at new or

Case Western Reserve University
Illinois Institute of Technology
Indiana University
Iowa State University
Kansas State University
Loyola University
Marquette University
Michigan State University
Northwestern University
Ohio State University
Pennsylvania State University
Purdue University
Southern Illinois University
St. Louis University
University of Arizona
University of Chicago
University of Cincinnati
University of Illinois
University of Iowa
University of Kansas
University of Michigan
University of Minnesota
University of Missouri
University of Notre Dame
University of Texas-Austin
University of Wisconsin
Washington University (St. Louis)
Wayne State University

Academic science includes the sum of activities classified under three categories: research and development, R&D plant, other science activities. Each of these categories is defined below.

Research is defined as scientific inquiry. It includes basic studies—those oriented toward deeper or more meaningful understanding and knowledge per se in a particular subject or field; and applied studies—those aimed at new or more

complete knowledge in the light of potential practical application.

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

R&D plant includes all direct, indirect, incidental, or related costs resulting from or necessary to the construction of, acquisition of, major repairs to, or alterations in structures, works, fixed equipment, facilities, or land for use in scientific research and development. Fixed equipment includes accelerators, reactors, wind tunnels, radio telescopes, etc.

Other academic-science activities represent obligations for all other activities that are science-related but not included elsewhere. Included are obligations to a university or college that represent direct funding (excluding loans) of science-related activities for purposes such as scholarships, fellowships, traineeships, institutes, course-content improvement projects, and other science education pursuits; facilities and equipment to be used primarily for education activities; collection, storage, handling, and dissemination of scientific and technical information; and institutional grants for general or specific purposes.

Nonscience activities include all support of fields of endeavor at universities and colleges other than those specified as academic science.

APPENDIX B

FEDERAL OBLIGATIONS TO 2-YEAR INSTITUTIONS

The 2-year institutions in this section are those designated in the *Education Directory 1970-71: Part 3, Higher Education*, published by the Office of Education, as offering "... 2 but less than 4 years ..." as the highest level of degree program. They are included in the data for total Federal obligations in other parts of this report, and they appear in Appendix table C-13 with the total amounts received, by agency, in 1970.

Federal obligations to 2-year institutions decreased to \$105 million from \$131 million in 1969 and \$121 million in 1968 (table B-1). The number of recipients, however, increased to 814, which was over nine-tenths of the total number of 2-year institutions listed in the *Education Directory*.¹

¹ The Directory lists only one independent, 2-year institution in Maine.

Institutions in all but one State, support.²

Academic science obligations went to \$9 million from \$24 million in academic science, obligation types of support were as follows:

Type of academic science support	Fiscal years (Thousands of dollars)
Total	1968 \$2,113
Research and development	2,323
R&D plant	44
Other science	19,746

² In addition, six central systems rec-

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Institutions in all but one State, Maine, received support.²

Academic science obligations fell by 60 percent to \$9 million from \$24 million in 1969. Within academic science, obligations for the three types of support were as follows:

Type of academic science support	Fiscal years (Thousands of dollars)		
	1968	1969	1970
Total	\$22,113	\$23,602	\$9,324
Research and development	2,323	2,523	2,315
R&D plant	44	41	...
Other science	19,746	21,038	7,009

Support for nonscience activities decreased by 11 percent, totaling \$95 million. It accounted for 91 percent of the obligations to these institutions.

The 2-year colleges in each of the South Atlantic and Pacific divisions received nearly \$18 million. For the South Atlantic States this represented a 28-percent decrease in obligations but an 11-percent increase in the number of recipient junior colleges (157); 2-year institutions in the Pacific States—132—increased by 7 percent in number but decreased by 14 percent in Federal support. The largest decline was registered by the Middle Atlantic division—\$10 million; the 1970 total of \$14 million for this division represented only 58 percent of its 1969 level.

¹In addition, six central systems received \$2,247,000 in 1970.

Table B-1.—Geographic distribution of Federal obligations to 2-year institutions, by type of program,
fiscal years 1968, 1969, and 1970
[Dollars in thousands]

Division and State	Number of institutions receiving support		Total Federal obligations		Academic science obligations		Nonscience activities		
	1968	1969	1970	1968	1969	1970	1968	1969	1970
United States, total	719	752	814	\$121,143	\$130,926	\$105,282	\$22,113	\$23,502	\$20,324
New England	53	61	62	5,851	6,221	5,077	1,208	1,521	1,288
Maine	—	—	—	—	—	—	—	—	—
New Hampshire	2	4	4	340	263	121	38	16	11
Vermont	3	3	3	329	330	43	40	64	286
Massachusetts	32	35	37	3,375	4,131	3,489	888	1,208	1,113
Rhode Island	3	3	2	890	803	289	143	137	27
Connecticut	13	16	16	917	704	880	204	120	63
Middle Atlantic	89	96	96	19,510	23,586	13,591	3,430	3,637	1,081
New York	62	58	57	11,080	11,123	7,307	2,019	1,783	808
New Jersey	14	17	18	2,887	5,136	3,327	418	618	216
Pennsylvania	23	23	21	5,883	7,338	2,947	983	1,238	267
East North Central	82	83	102	10,119	10,865	17,259	3,473	3,907	1,004
Ohio	6	5	7	626	686	2,940	118	172	349
Indiana	2	2	2	1,049	1,983	551	158	224	407
Illinois	36	38	42	7,223	7,938	7,284	1,358	1,523	415
Michigan	32	34	34	9,505	6,397	4,900	1,536	1,123	281
Wisconsin	16	14	17	817	2,681	1,674	304	886	283
West North Central	86	87	82	9,329	11,319	8,221	1,801	1,829	841
Minnesota	20	20	21	2,216	2,181	2,002	320	376	173
Iowa	17	15	16	2,319	2,766	1,801	470	407	128
Missouri	16	17	18	2,797	3,172	2,208	443	579	162
North Dakota	5	6	4	928	532	284	126	59	7
South Dakota	1	1	2	13	12	26	2	—	—
Nebraska	5	7	7	392	387	538	54	138	53
Kansas	21	22	24	1,266	1,779	1,397	187	289	118
South Atlantic	131	141	187	21,482	24,840	17,943	4,116	4,521	1,486
Delaware	3	3	4	1,138	345	286	620	83	36
Maryland	14	15	16	3,799	2,447	1,918	838	449	238
District of Columbia	3	3	3	183	770	338	113	467	14
Virginia	14	17	20	2,943	1,311	2,643	328	243	144
West Virginia	3	3	3	442	170	124	114	35	—
North Carolina	36	40	48	4,491	5,449	3,803	775	908	492
South Carolina	14	14	17	1,273	2,988	1,012	229	497	74
Georgia	16	18	17	5,734	5,447	2,578	183	626	210
Florida	28	28	30	5,289	6,012	5,323	1,018	1,213	250
East South Central	68	68	63	12,037	8,804	10,154	1,880	1,401	633
Kentucky	6	7	7	899	1,514	1,272	71	229	33
Tennessee	11	12	15	2,042	1,714	1,982	274	211	172
Alabama	17	17	19	3,980	2,116	2,431	619	441	180

State	Population	Area	Population per square mile
Pennsylvania	15,855	45,230	346
West North Central	15,768	21,230	741
Illinois	15,539	62,102	247
Michigan	15,319	61,102	250
Wisconsin	15,261	59,102	259
North Central	15,226	21,022	714
Minnesota	15,193	52,626	290
Iowa	15,156	5,049	3,026
Missouri	15,033	2,319	6,526
North Dakota	14,974	2,797	5,265
South Dakota	14,938	526	2,858
Nebraska	14,800	5,307	2,856
Kansas	14,761	817	2,881
South Atlantic	14,739	82	183,320
Delaware	14,701	21	2,216
Maryland	14,663	16	2,319
District of Columbia	14,625	18	2,756
Virginia	14,586	4	3,172
West Virginia	14,547	12	2,943
North Carolina	14,508	2	442
South Carolina	14,469	7	392
Georgia	14,430	24	1,286
Florida	14,391	177	21,362
East South Central	14,355	63	12,057
Kentucky	14,326	7	890
Tennessee	14,287	15	2,092
Alabama	14,248	19	3,850
Mississippi	14,210	22	4,261
South Central	14,183	60	10,351
Arkansas	14,154	5	228
Louisiana	14,115	2	1,504
Oklahoma	14,076	13	1,941
Texas	14,037	49	6,878
Mountain	13,908	29	40
Montana	13,879	3	84
Idaho	13,851	2	461
Wyoming	13,813	6	843
Colorado	13,774	11	930
New Mexico	13,735	1	106
Arizona	13,696	10	1,260
Utah	13,657	6	144
Hawaii	13,618	1	—
Pacific	13,585	123	18,115
Washington	13,554	22	3,118
Oregon	13,515	14	2,267
California	13,476	84	12,859
Hawaii	13,437	1	—

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APPENDIX C

STATISTICAL TABLES

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NOTES

- Source of data is the National Science Foundation (CASE).
- One asterisk (*) indicates an administrative center for the university systems. The Central Systems listed in the tables represent funds going to part of a university system, such as a graduate center, that encompasses the teaching and research activities of a number of institutions that form the system. In addition, in some cases, the funds shown for the Central System may be distributed eventually to institutions that are part of the system.
- Two asterisks (**) indicate a 2-year institution, as designated by the Office of Education.
- The symbol "+" indicates the main university only.

Table C-1.—Federal obligations to universities and colleges, by type of program and agency, fiscal years 1963-70

Program and year	Total, all agencies	Agric- culture	AEC	Com- munications	DOD	HEW	Interior	NASA	NSF	Other ^a
Total Federal obligations:										
1963	\$1,413.0	\$104.0	\$ 76.1	\$ 1.8	\$218.0	\$ 665.3	\$ 4.0	\$ 874	\$256.3	—
1964	1,825.0	115.0	79.9	1.7	258.1	780.0	5.3	107.8	277.5	—
1965	2,306.5	135.8	84.4	2.6	267.9	1,345.8	9.7	134.3	326.2	—
1966	3,010.0	141.0	98.9	2.8	278.0	1,962.2	22.4	142.2	374.5	—
1967	3,311.1	144.8	109.8	7.9	264.1	2,231.2	27.4	131.5	394.5	—
1968	3,379.7	144.2	116.7	9.8	243.1	2,215.2	28.2	129.8	422.8	66.9
1969	3,453.3	155.9	121.0	3.9	278.7	2,283.4	24.3	127.2	367.0	81.8
1970	3,228.7	182.1	114.5	4.9	265.5	2,051.0	27.7	131.2	387.4	62.4
Academic science obligations:										
1963	1,328.5	104.0	76.1	1.8	218.0	581.0	3.8	87.4	286.3	—
1964	1,628.6	115.0	79.9	1.7	268.1	683.8	5.1	107.8	277.5	—
1965	1,816.2	135.8	84.4	2.6	267.9	886.5	9.6	134.3	326.2	—
1966	2,163.5	141.0	98.9	2.8	278.0	1,109.2	19.1	142.2	374.5	—
1967	2,323.8	144.8	109.8	4.4	264.1	1,261.0	23.9	131.5	394.5	—
1968	2,349.8	144.2	119.7	8.0	243.1	1,229.4	28.2	129.8	422.8	24.8
1969	2,381.4	155.9	121.0	2.2	278.7	1,261.8	24.3	127.2	387.0	23.3
1970	2,167.9	182.1	114.5	3.9	285.5	1,017.0	27.7	131.2	387.4	38.6
Research and development:										
1963	829.5	40.8	68.3	1.5	218.0	332.9	3.8	59.8	104.8	—
1964	975.6	47.5	70.5	1.1	268.1	390.2	6.0	78.2	116.8	—
1965	1,095.0	59.1	74.8	2.1	267.9	441.9	9.5	100.6	130.2	—
1966	1,252.1	62.9	83.2	2.1	278.0	507.3	18.7	107.4	182.5	—
1967	1,324.1	64.0	89.7	3.4	264.1	577.0	23.9	109.0	183.1	—
1968	1,423.0	62.2	101.8	6.7	243.1	619.1	27.8	128.1	212.4	23.8
1969	1,495.3	63.6	103.1	1.7	278.7	667.1	23.5	122.3	212.1	23.2
1970	1,464.1	67.4	101.4	3.2	285.5	614.9	27.1	127.4	218.7	38.6
R&D plant:										
1963	106.9	—	2.6	—	—	39.2	0.1	13.4	50.8	—
1964	100.8	—	4.0	—	—	39.9	—	9.1	47.8	—
1965	126.2	3.2	3.8	—	—	54.8	(b)	8.4	56.0	—
1966	114.8	2.0	7.4	—	—	48.5	0.2	7.4	49.3	—
1967	116.7	2.0	13.8	0.3	—	38.1	—	6.0	67.5	—
1968	104.1	1.9	11.9	0.2	—	36.9	—	—	53.2	—
1969	67.4	1.2	11.4	—	—	20.5	—	—	24.2	—
1970	27.8	1.1	7.1	(b)	—	(b)	—	—	19.0	—
Other science activities:										
1963	383.1	63.4	6.3	0.3	—	208.9	(b)	14.1	101.1	—
1964	452.2	67.5	6.4	0.6	—	244.6	(b)	20.2	113.9	—
1965	566.0	73.3	6.9	0.6	—	350.3	(b)	26.4	130.1	—
1966	708.8	76.1	6.3	0.7	—	563.3	0.2	27.3	132.7	—
1967	883.0	78.8	6.2	0.7	—	635.9	(b)	17.4	144.0	—
1968	822.7	80.1	6.1	1.0	—	673.4	0.4	3.7	157.2	0.8
1969	808.8	91.1	6.5	0.5	(b)	574.1	0.9	5.0	130.8	0.1
1970	676.3	113.5	6.9	0.7	(b)	401.9	0.6	3.8	149.8	—
Nonscience activities:										
1963	84.5	—	—	—	—	84.3	0.2	—	—	—
1964	86.4	(b)	—	—	—	86.2	0.2	—	—	—
1965	459.3	(b)	—	—	—	480.1	0.1	—	—	—
1966	846.4	(b)	—	—	—	843.1	3.4	—	—	—
1967	907.3	(b)	—	—	—	930.2	3.5	—	—	—
1968	1,020.9	—	—	—	—	1,031.8	—	—	42.3	—
1969	1,091.9	—	—	—	—	1,034.0	—	—	58.5	—
1970	1,058.8	—	—	—	—	1,054.0	—	—	23.8	—

^aIncludes Agency for International Development, Office of Economic Opportunity, the Departments of Housing and Urban Development, Labor, and Transportation.

SOURCE: National Science Foundation (CASE).

Table C-2.—Federal obligations to universities and colleges, by geographic division, State, and type of support,
fiscal year 1970

[Dollars in thousands]						
Division and State	Total obligations	Total academic science	Research and development	R & D plant	Other science	Nonscience
United States, total	\$2,228,737	\$2,167,908	\$1,664,076	\$27,573	\$676,260	\$1,059,829
New England	328,276	275,354	212,068	3,686	59,571	62,921
Maine	6,254	3,169	1,310	21	1,838	3,085
New Hampshire	13,594	9,896	6,641	174	3,071	3,698
Vermont	8,313	5,498	3,267	28	2,203	2,815
Massachusetts	244,169	204,843	165,908	2,881	36,056	39,328
Rhode Island	15,577	12,699	9,076	226	3,397	2,878
Connecticut	50,378	39,259	25,888	365	13,006	11,119
Middle Atlantic	825,147	382,416	282,224	6,006	114,187	142,731
New York	320,288	242,617	169,301	2,978	70,338	77,881
New Jersey	49,673	34,384	26,838	189	8,337	15,309
Pennsylvania	155,176	105,435	67,085	2,838	35,512	49,741
East North Central	852,848	389,316	289,835	4,571	115,812	193,630
Ohio	149,782	67,256	43,084	368	23,804	82,528
Indiana	63,380	43,195	25,736	1,483	16,998	20,186
Illinois	151,574	116,577	80,883	978	34,716	35,097
Michigan	114,387	79,228	52,917	886	25,425	36,159
Wisconsin	73,725	53,982	36,215	976	15,871	20,663
West North Central	239,159	150,617	88,251	1,200	61,186	88,542
Minnesota	57,197	40,189	25,012	194	14,983	17,008
Iowa	39,398	25,102	14,531	69	10,102	14,884
Missouri	74,745	45,310	26,696	692	17,923	29,435
North Dakota	8,941	5,063	2,464	37	2,562	3,878
South Dakota	9,378	5,564	3,854	33	2,677	3,814
Nebraska	19,173	9,573	5,380	26	4,288	9,500
Kansas	29,720	19,716	10,935	150	8,631	10,013
South Atlantic	485,038	275,922	171,851	3,794	100,177	220,118
Delaware	4,408	2,908	1,971	10	1,027	1,500
Maryland	69,546	53,459	38,281	328	14,850	16,087
District of Columbia	84,074	25,604	17,777	39	7,788	58,470
Virginia	50,510	27,983	15,755	87	12,111	22,547
West Virginia	19,207	10,055	4,851	974	4,430	9,152
North Carolina	98,789	62,194	36,928	449	24,817	38,805
South Carolina	20,036	11,057	4,675	77	6,356	8,979
Georgia	57,138	35,715	20,932	1,219	13,554	21,423
Florida	92,370	46,967	31,111	611	15,245	45,353
165,100	83,825	45,422	844	37,489	81,274	
Kentucky	32,039	16,822	9,256	125	7,441	15,217
Tennessee	62,295	34,189	18,377	774	16,038	28,108
Alabama	43,729	20,258	11,560	30	8,668	23,471
Mississippi	27,046	12,566	6,229	15	6,322	14,480
200,182	139,750	86,135	1,017	52,598	90,442	
.....	49	4,669	8,937

Illinois	114,387	79,228	52,917	886	25,725
Michigan	73,725	53,062	36,215	976	15,971
Wisconsin					20,663
West North Central	230,169	150,617	80,251	1,200	61,186
Minnesota	57,197	40,189	26,012	194	14,983
Iowa	39,898	25,102	14,931	69	10,102
Missouri	74,745	45,310	26,696	692	17,923
North Dakota	8,941	5,063	2,464	37	2,562
South Dakota	9,378	5,584	2,654	33	2,677
Nebraska	19,173	9,673	5,360	26	4,288
Kansas	29,729	19,716	10,935	150	8,631
South Atlantic	465,058	275,322	171,951	3,794	100,177
Delaware	4,408	2,948	1,871	10	1,027
Maryland	69,546	53,459	38,281	328	14,850
District of Columbia	84,074	26,804	17,777	38	7,788
Virginia	50,510	27,983	15,765	87	12,111
West Virginia	19,207	10,055	4,651	974	4,430
North Carolina	98,789	62,194	36,928	449	24,617
South Carolina	20,038	11,057	4,626	77	3,555
Georgia	57,138	35,715	20,942	1,219	8,979
Florida	92,320	48,987	31,111	611	15,245
East South Central	169,168	83,836	45,422	944	37,469
Kentucky	32,039	16,822	9,256	125	7,441
Tennessee	62,296	34,189	18,377	774	15,038
Alabama	43,729	20,258	11,560	30	8,688
Mississippi	27,046	12,566	6,229	15	6,322
West South Central	230,182	139,750	86,135	1,017	52,598
Arkansas	17,827	8,890	4,172	49	4,569
Louisiana	42,084	27,074	15,158	292	11,624
Oklahoma	29,312	15,759	7,538	94	8,127
Texas	140,989	88,027	59,287	582	28,178
Mountain	166,036	113,747	79,086	1,297	33,364
Montana	9,076	4,416	2,504	13	1,889
Idaho	5,484	3,062	1,358	36	1,658
Wyoming	4,781	3,481	1,982	17	1,482
Colorado	59,269	42,777	29,488	685	12,624
New Mexico	22,375	15,735	12,270	335	3,130
Arizona	24,810	15,432	10,124	19	5,269
Utah	35,062	25,078	18,537	177	6,385
Nevada	5,189	3,795	2,883	15	917
Pacific	493,413	375,820	275,978	4,818	96,024
Washington	74,439	48,884	33,686	172	14,946
Oregon	42,351	31,378	19,189	1,159	11,030
California	349,775	274,986	208,670	3,300	65,016
Alaska	8,054	7,107	5,925	110	1,062
Hawaii	18,794	13,545	10,498	77	2,970
Outlying areas*	20,420	11,129	4,105	132	5,892
					9,291

*Includes Puerto Rico, Virgin Islands, and Guam. The amounts to the Virgin Islands and Guam were a small fraction of the total.

SOURCE: National Science Foundation (CASE).

Table C-3.—Federal obligations for academic science to universities and colleges, by geographic division,
State, and agency, fiscal year 1970

[Dollars in thousands]

Division and State	Total, all agencies	Agriculture	AEC	Commerce	DOD	HED	Interior	NASA	NSF	Other ^a
United States, total	\$2,167,908	\$162,054	\$144,485	\$3,910	\$285,885	\$1,017,049	\$27,714	\$151,231	\$37,374	\$38,606
New England	275,254	7,767	17,808	348	63,571	90,988	2,524	38,378	44,344	2,825
Maine	3,169	1,857	4	—	36	528	158	30	744	12
New Hampshire	9,886	1,042	48	—	480	4,001	183	1,479	2,633	—
Vermont	5,498	1,112	66	—	324	3,064	88	—	694	135
Massachusetts	204,843	2,002	13,165	283	58,327	84,259	1,463	33,251	28,454	2,659
Rhode Island	12,699	847	634	—	2,280	3,989	401	289	4,181	18
Connecticut	39,259	1,107	3,652	65	2,104	24,137	221	1,224	6,948	1
Middle Atlantic	302,418	14,613	24,885	285	35,563	213,102	3,794	14,843	69,199	8,242
New York	242,617	8,111	17,189	163	21,080	142,899	2,186	7,411	42,244	3,534
New Jersey	34,384	2,086	3,030	87	4,781	11,724	282	4,177	7,834	403
Pennsylvania	105,436	8,438	4,836	15	9,842	58,679	1,348	3,256	19,121	2,305
West North Central	309,318	28,950	24,830	325	44,900	184,727	2,407	15,288	68,909	11,502
Ohio	67,258	5,988	2,305	—	12,805	32,037	646	1,876	10,250	1,539
Indiana	43,195	5,844	3,632	100	3,382	18,511	295	1,223	11,285	1,043
Illinois	116,577	6,479	9,834	125	18,539	52,912	550	4,853	23,093	1,162
Michigan	79,228	5,114	5,567	17	8,757	36,159	617	6,833	14,978	2,488
Wisconsin	53,062	4,415	3,292	83	1,567	27,108	389	1,603	9,323	5,272
West North Central	160,517	24,305	3,710	131	9,526	81,613	3,312	5,118	21,222	1,670
Minnesota	40,189	4,449	1,844	—	2,508	23,472	886	1,476	6,030	554
Iowa	25,102	4,740	165	—	1,680	12,101	547	1,941	3,848	280
Missouri	45,310	5,084	632	10	3,463	28,801	230	1,055	5,737	288
North Dakota	5,083	1,973	47	121	480	1,444	101	—	917	—
South Dakota	5,564	2,140	37	—	12	849	1,128	57	1,341	—
Nebraska	9,673	2,830	85	—	170	5,048	111	20	1,216	183
Kansas	18,716	3,079	910	—	1,223	9,888	338	569	3,343	355
South Atlantic	275,822	33,225	9,587	801	28,835	138,868	3,866	12,422	46,238	4,781
Delaware	2,908	903	30	30	728	453	93	9	684	—
Maryland	53,459	2,327	3,288	114	5,199	31,199	294	3,851	7,052	124
District of Columbia	26,804	4,430	288	15	4,891	14,491	192	1,940	2,734	813
Virginia	27,983	4,934	684	20	1,576	11,726	627	2,748	5,629	40
West Virginia	10,055	2,977	1	—	340	3,108	691	287	1,975	666
North Carolina	62,194	7,853	2,032	129	5,439	36,539	1,219	1,019	7,392	1,216
South Carolina	11,057	4,296	128	—	483	2,885	184	130	2,713	259
Georgia	35,716	6,111	1,092	75	3,987	15,181	453	1,318	7,090	388
Florida	46,987	3,415	2,013	118	6,374	20,799	834	1,110	11,049	1,265

West North Central			
Indiana	43,195	5,544	3,632
Illinois	116,577	9,834	3,382
Michigan	79,228	5,114	5,567
Wisconsin	63,062	4,415	3,292
West North Central	180,817	24,305	3,710
Minnesota	40,189	4,449	1,844
Iowa	25,102	4,740	155
Missouri	45,310	5,094	632
North Dakota	5,063	1,973	47
South Dakota	5,584	2,140	37
Nebria	9,673	2,830	85
Kansas	18,716	3,079	910
South Atlantic	276,922	33,226	9,557
Delaware	2,908	903	30
Maryland	53,459	2,327	3,289
District of Columbia	26,604	430	288
Virginia	27,963	4,534	664
West Virginia	10,055	2,977	1
North Carolina	62,194	7,853	2,032
South Carolina	11,067	4,296	128
Georgia	36,715	6,111	1,092
Florida	46,987	3,415	2,013
East South Central	83,036	23,337	2,614
Kentucky	16,822	6,288	99
Tennessee	34,188	5,611	2,189
Alabama	20,268	5,674	111
Mississippi	12,566	5,764	15
West South Central	139,760	21,368	3,940
Arkansas	8,890	4,219	155
Louisiana	27,074	4,093	300
Oklahoma	16,759	3,896	141
Texas	88,027	9,361	3,344
Mountain	113,747	12,482	3,690
Montana	4,416	1,741	33
Idaho	3,062	1,700	32
Wyoming	3,461	1,128	116
Colorado	42,777	2,267	1,392
New Mexico	15,735	1,953	75
Arizona	15,432	1,782	514
Utah	25,079	1,890	1,220
Nevada	3,796	851	248
Pacific	376,820	13,590	2,429
Washington	48,804	2,975	3,056
Oregon	31,378	2,408	1,109
California	274,988	6,234	1,643
Alaska	7,107	881	271
Hawaii	13,545	1,123	655
Quitting areas b	111,129	4,698	2,641

^aIncludes Agency for International Development, Office of Economic Opportunity, the Departments

Blcludes Puerto Rico, Virgin Islands, and Guam. The amounts to the Virgin Islands and Guam were a
of Housing and Urban Development, Labor, and Transportation.

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Table C-4.—Total Federal obligations to the 100 universities and colleges receiving the largest amounts, by agency, fiscal year 1970

[Dollars in thousands]

Institution (in order of total Federal obligations)	State	Total	Agriculture	AEC	Commerce	DOD	HEW	Interior	NASA	NSF	Other ^a
Total for 100 universities and colleges		\$2,288,759	\$143,072	\$100,901	\$2,563	\$220,886	\$1,367,204	\$18,155	\$112,353	\$280,509	\$43,237
1. Massachusetts Institute of Technology	Mass.	100,177	—	9,383	109	44,086	10,945	656	28,044	8,313	741
2. University of Michigan	Mich.	59,059	48	3,090	3	7,710	32,228	250	5,505	7,331	2,896
3. University of Washington	Wash.	58,977	208	2,722	3	2,800	44,183	742	519	7,852	148
4. Harvard University	Mass.	55,982	—	2,000	174	2,988	35,742	55	6,002	7,749	842
5. Stanford University	Calif.	53,479	—	789	39	10,928	24,376	234	4,410	12,590	113
6. University of California—Los Angeles	Calif.	52,819	—	5,086	5	6,216	31,263	330	2,439	5,784	1,546
7. University of Wisconsin—Madison	Wis.	51,740	4,416	3,228	8	1,010	28,481	343	1,603	7,225	5,446
8. Columbia University ^b	N.Y.	49,574	20	5,030	46	7,274	27,785	120	1,919	6,879	621
9. University of Cincinnati	Ohio	47,221	—	184	—	1,580	44,881	57	202	498	—
10. Ohio State University	Ohio	45,587	5,988	831	—	3,337	30,951	486	763	3,237	1,004
11. University of Minnesota	Minn.	46,529	4,449	1,844	3	2,508	30,386	846	1,476	3,284	1,640
12. University of California—Berkeley	Calif.	44,112	561	752	—	4,875	22,847	628	6,696	6,696	1,286
13. University of Illinois—Urbana	Ill.	43,198	5,429	4,247	37	12,878	11,312	408	782	7,801	341
14. University of Florida	Fla.	41,504	3,395	446	—	1,860	31,425	329	487	2,863	910
15. University of Chicago	Ill.	39,597	—	5,017	126	1,810	23,855	75	2,807	6,230	78
16. University of California—San Diego	Calif.	39,001	—	2,027	49	10,883	10,803	—	3,483	11,578	418
17. Cornell University	N.Y.	37,972	6,955	1,787	—	3,201	17,271	177	1,270	7,417	914
18. New York University	N.Y.	37,779	25	2,137	37	2,434	29,847	84	701	2,182	552
19. University of Pennsylvania	Pa.	37,074	2	1,723	—	2,839	26,677	52	259	4,981	831
20. Johns Hopkins University	Md.	36,177	29	957	52	2,387	26,708	65	486	2,505	10
21. Yale University	Conn.	33,904	—	3,515	—	1,631	23,586	1	694	4,476	1
22. University of North Carolina—Chapel Hill	N.C.	33,359	—	482	—	1,186	28,888	53	79	2,150	540
23. Howard University	D.C.	32,529	70	96	168	22	28,652	—	174	291	3,066
24. University of Colorado	Colo.	32,118	—	1,108	483	1,832	21,701	95	1,504	4,986	409
25. University of Maryland	Md.	27,946	2,298	2,342	62	2,820	12,574	229	3,284	4,046	181
26. Duke University	N.C.	27,754	2	1,006	15	3,283	20,798	19	149	2,329	156
27. Washington University	Mo.	26,901	—	383	5	1,877	22,339	—	698	1,841	—
28. University of California—San Francisco	Calif.	26,794	—	723	—	324	26,583	—	113	61	—
29. George Washington University	D.C.	26,357	—	10	—	1,941	22,249	47	1,500	467	443
30. University of Pittsburgh	Pa.	26,520	F	489	—	1,150	19,836	212	694	2,555	729
31. University of Rochester	N.Y.	26,190	—	5,051	—	884	14,641	—	233	4,256	116
32. University of Utah	Utah	24,973	—	1,138	4	2,898	16,849	884	160	2,113	947
33. Case Western Reserve University	Ohio	24,381	—	892	—	2,523	17,759	110	803	2,108	66
34. University of Southern California	Calif.	24,361	1	207	3	1,785	16,372	62	1,608	2,397	1,978
35. Purdue University	Ind.	23,490	5,826	1,682	100	2,222	7,907	280	711	4,585	398
36. Michigan State University	Mich.	23,381	5,042	2,162	—	382	10,310	220	47	4,271	927
37. University of Miami	Fla.	23,330	—	300	89	2,387	15,390	505	375	3,859	415
38. Yeshiva University	N.Y.	22,774	5,037	135	—	757	19,061	75	167	1,743	28
39. University of Missouri—Columbia	Mo.	22,715	5,037	130	5	1,145	14,287	845	1,429	3,188	410
40. Pennsylvania State University	Pa.	22,075	6,389	517	16	902	8,310	—	—	—	—
41. University of Texas—Southwestern Medical School	Tex.	21,753	—	44	—	—	21,528	—	106	77	—
42. University of Iowa	Iowa	20,410	11	95	—	—	15,239	88	1,904	1,841	146
43. Tufts University	Mass.	18,977	—	—	—	—	15,233	60	554	2,247	153
	Mass.	18,917	—	—	—	—	15,272	—	—	—	—

16. University of California—San Diego	914	1,270	7,417
17. Cornell University	562	2,182	562
18. New York University	831	4,891	831
19. University of Pennsylvania	10	2,505	10
20. Johns Hopkins University			
21. Yale University	177	177	177
22. University of North Carolina—Chapel Hill	64	701	540
23. Howard University	52	259	3,056
24. University of Colorado	65	486	409
25. University of Maryland	65	486	181
26. Duke University	177	177	177
27. Washington University	37	2,434	4,476
28. University of California—San Francisco	37	2,434	1
29. George Washington University	37	2,434	
30. University of Pittsburgh	37	2,434	
31. University of Rochester	1,005	3,283	2,329
32. University of Utah	1,005	3,283	156
33. San Diego State University	1,005	3,283	
34. University of Southern California	1,005	3,283	
35. Purdue University	1,005	3,283	
36. Michigan State University	1,005	3,283	
37. University of Miami	1,005	3,283	
38. Yeshiva University	1,005	3,283	
39. University of Missouri—Columbia	1,005	3,283	
40. Pennsylvania State University	1,005	3,283	
41. University of Texas—Southwestern Medical School	44	1,005	1,005
42. University of Iowa	95	1,005	1,005
43. Tufts University	390	1,005	1,005
44. University of Texas—Austin	770	1,005	1,005
45. University of Hawaii	107	1,005	1,005
46. Northwestern University	240	1,005	1,005
47. Princeton University	2,678	1,005	1,005
48. California Institute of Technology	19	1,005	1,005
49. University of Kentucky	2,719	1,005	1,005
50. University of Georgia	93	1,005	1,005
51. University of Arizona	123	1,005	1,005
52. University of Alabama—Birmingham	649	1,005	1,005
53. Texas A&M University	70	1,005	1,005
54. Temple University	106	1,005	1,005
55. Boston University	31	1,005	1,005
56. Virginia Commonwealth University	54	1,005	1,005
57. Colorado State University	284	98	98
58. Vanderbilt University	201	1,061	4,629
59. North Carolina State University—Raleigh	14	404	12,982
60. University of California—Davis	11	946	3,183
61. SUNY State University—Buffalo	2,044	401	9,316
62. Rutgers, The State University	124	766	22
63. Indiana University—Bloomington	272	8,101	494
64. University of Tennessee	1,837	1,314	4,822
65. University of Kansas	1	453	1,395
66. Baylor University—College of Medicine	21	623	515
67. University of Oregon	397	1,180	1,901
68. Emory University	6	1,180	144
69. Oregon State University	76	1,180	144
70. University of Virginia	155	75	340
71. Tulane University	77	217	247
72. Florida State University	29	1,649	12,040
73. University of Arkansas	1,180	6,196	23
74. West Virginia University	1,180	6,196	4,920
75. Louisiana State University—Baton Rouge	1,180	6,196	783
76. Wayne State University	99	413	345
77. University of Oklahoma	43	607	503
78. Indiana University—Indianapolis	17	11,211	345
79. Iowa State University of Science and Technology	17	6,939	327
80. University of Connecticut	55	604	106
81. University of Connecticut	92	50	102
82. University of Connecticut	55	50	197
83. University of Connecticut	55	50	4,369
84. University of Connecticut	55	50	3,944
85. University of Connecticut	55	50	1,395
86. University of Connecticut	55	50	1,395
87. University of Connecticut	55	50	1,395
88. University of Connecticut	55	50	1,395
89. University of Connecticut	55	50	1,395
90. University of Connecticut	55	50	1,395
91. University of Connecticut	55	50	1,395
92. University of Connecticut	55	50	1,395
93. University of Connecticut	55	50	1,395
94. University of Connecticut	55	50	1,395
95. University of Connecticut	55	50	1,395
96. University of Connecticut	55	50	1,395
97. University of Connecticut	55	50	1,395
98. University of Connecticut	55	50	1,395
99. University of Connecticut	55	50	1,395
100. University of Connecticut	55	50	1,395
101. University of Connecticut	55	50	1,395
102. University of Connecticut	55	50	1,395
103. University of Connecticut	55	50	1,395
104. University of Connecticut	55	50	1,395
105. University of Connecticut	55	50	1,395
106. University of Connecticut	55	50	1,395
107. University of Connecticut	55	50	1,395
108. University of Connecticut	55	50	1,395
109. University of Connecticut	55	50	1,395
110. University of Connecticut	55	50	1,395
111. University of Connecticut	55	50	1,395
112. University of Connecticut	55	50	1,395
113. University of Connecticut	55	50	1,395
114. University of Connecticut	55	50	1,395
115. University of Connecticut	55	50	1,395
116. University of Connecticut	55	50	1,395
117. University of Connecticut	55	50	1,395
118. University of Connecticut	55	50	1,395

Table C-4.—Total Federal obligations to the 100 universities and colleges receiving the largest amounts,
by agency, fiscal year 1970 (Continued)

Institution (in order of total Federal obligations)	State	Total	Agriculture	AEC	Commerce	DOD	HEW	Interior	NASA	NSF	Other ^a
81. CUNY Mt. Sinai School of Medicine	N.Y.	10,441	—	35	—	66	10,202	—	—	139	—
82. University of Massachusetts	Mass.	10,140	2,002	226	28	473	4,931	308	418	1,805	165
83. Woods Hole Oceanographic Institute	Mass.	10,023	—	624	—	5,444	92	394	25	3,415	23
84. New Mexico State University	N. Mex.	9,503	1,863	—	30	2,516	2,105	418	2,267	476	38
85. Georgetown University	D.C.	9,416	—	52	—	578	7,658	21	25	988	82
86. Auburn University	Ala.	9,135	5,408	19	—	282	1,704	194	488	282	800
87. Oklahoma State University	Oklas., Va.	9,077	3,879	42	—	982	2,487	190	729	980	8
88. Virginia Polytechnic Institute	N.Y.	8,977	4,910	185	—	199	1,382	528	281	1,492	—
89. Syracuse University	N.Y.	8,946	17	208	—	1,228	4,700	144	448	2,062	161
90. Kansas State University	Kans.	8,880	3,078	434	—	600	3,108	215	54	1,189	202
91. University of New Mexico	N. Mex.	8,822	—	68	20	1,866	4,658	4	674	810	868
92. University of Illinois—Medical Center	Ill.	8,821	—	—	—	8,766	—	—	55	—	—
93. University of Mississippi	Miss.	8,622	17	15	174	170	7,373	—	22	851	—
94. Mississippi State University	Miss.	8,284	5,725	—	—	387	1,228	122	364	200	187
95. Brown University	R.I.	8,113	—	633	—	1,214	3,973	33	269	1,891	—
96. University of Tennessee—Medical Unit Memphis	Tenn.	8,062	—	103	—	15	7,928	—	—	6	—
97. New York Medical College	N.Y.	7,880	—	—	—	44	7,732	—	—	104	—
98. St. Louis University	Mo.	7,879	—	6	—	341	6,580	—	129	582	282
99. SUNY Stony Brook	N.Y.	7,814	—	861	—	51	1,945	—	414	4,383	260
100. Carnegie Mellon University	Pa.	7,852	—	1,823	2,440	1,333	1,277	269	1,702	1,702	168

^aIncludes Agency for International Development, Office of Economic Opportunity, the Departments of Housing and Urban Development, Labor, and Transportation.

^bNon university only.

SOURCE: National Science Foundation (CASE).

Table C-6.—Federal obligations to 100 universities and colleges receiving the largest amounts,
by type of program, fiscal year 1970

[Dollars in thousands]

Institution (in order of total Federal obligations)	Total obligations			Research and development			Academic obligations			Nonscience activities			
	State	Amount	Percent of U.S. total	Total			Percent of U.S. total	Amount	R & D plant			Percent of U.S. total	
				Amount	Percent of U.S. total	Amount			Percent of U.S. total	Amount	Percent of U.S. total		
Total for 100 universities and colleges		\$2,288,769	70.93	\$1,767,216	81.08	\$1,234,364	84.35	\$22,129	80.26	\$500,122	73.95	\$631,544	50.20
1. Massachusetts Institute of Technology	Mass.	100,177	3.10	99,497	4.59	92,309	6.30	1,784	6.57	5,404	.80	680	.05
2. University of Michigan	Mich.	89,059	1.83	49,187	2.27	36,588	2.50	601	2.18	12,008	1.78	9,892	.53
3. University of Washington	Wash.	88,977	1.83	41,059	1.89	29,687	2.03	140	.51	11,232	1.68	17,918	.19
4. Harvard University	Mass.	86,582	1.72	50,980	2.34	37,546	2.56	349	1.27	12,935	1.91	4,732	.45
5. Stanford University	Calif.	83,479	1.68	50,920	2.35	39,086	2.67	986	3.60	16,888	1.61	2,569	.24
6. University of California—Los Angeles	Calif.	82,610	1.63	45,620	2.10	35,288	2.40	1,439	5.22	8,975	1.33	6,999	.66
7. University of Wisconsin—Madison	Wis.	81,740	1.60	45,798	2.11	32,815	2.24	784	2.88	12,188	1.80	5,942	.56
8. Columbia University*	N.Y.	49,574	1.54	43,973	2.03	34,953	2.33	563	2.15	9,324	1.38	5,501	.53
9. University of Cincinnati	Ohio	47,221	1.46	8,447	.39	5,145	.36	—	—	3,302	.49	38,774	.36
10. Ohio State University	Ohio	46,587	1.44	25,297	1.17	16,159	1.10	54	.20	9,084	1.34	21,280	.20
11. University of Minnesota	Minn.	46,529	1.44	37,888	1.75	24,719	1.69	194	.70	12,983	1.92	8,533	.82
12. University of California—Berkeley	Calif.	44,112	1.37	38,008	1.75	28,433	1.94	26	.08	9,550	1.41	6,104	.58
13. University of Illinois—Urbana	Ill.	43,198	1.34	40,270	1.88	30,446	2.08	519	1.88	9,305	1.38	2,978	.28
14. University of Florida	Fla.	41,504	1.29	18,492	.86	11,349	.78	517	1.88	6,628	.98	23,012	2.17
15. University of Chicago	Ill.	39,597	1.23	38,637	1.69	26,467	1.81	310	1.12	9,980	1.46	2,980	.28
16. University of California—San Diego	Calif.	39,001	1.21	37,757	1.74	34,953	2.39	39	.11	2,774	.41	1,244	.12
17. Cornell University	N.Y.	37,972	1.18	35,057	1.82	23,787	1.62	56	.20	11,214	1.68	2,915	.28
18. New York University	N.Y.	37,779	1.17	30,816	1.41	21,087	1.44	561	2.00	8,968	1.32	7,163	.68
19. University of Pennsylvania	Pa.	37,074	1.15	32,885	1.52	22,134	1.51	1,776	6.44	8,975	1.33	4,188	.40
20. Johns Hopkins University	Md.	36,177	1.12	29,901	1.38	21,585	1.47	76	.28	8,280	1.22	6,278	.59
21. Yale University	Conn.	33,904	1.05	29,064	1.34	20,120	1.37	269	.94	8,675	1.28	4,850	.46
22. University of North Carolina—Chapel Hill	N.C.	33,269	1.03	19,010	.83	10,933	.75	17	.06	7,060	1.04	15,249	1.45
23. Howard University	D.C.	32,529	1.01	2,871	.12	1,480	.10	—	—	1,191	.18	29,858	.28
24. University of Colorado	Colo.	32,118	1.00	22,778	1.05	15,809	1.08	216	.78	6,753	1.00	9,240	.88
25. University of Maryland	Md.	27,896	.88	22,417	1.03	16,549	1.13	252	.91	5,618	.83	5,628	.51
26. Duke University	N.C.	27,754	.86	24,167	1.11	16,166	1.10	250	.91	7,761	1.15	3,587	.34
27. Washington University	Mo.	26,901	.83	22,968	1.08	15,170	1.04	83	.34	7,683	1.14	3,945	.37
28. University of California—San Francisco	Calif.	26,784	.83	19,852	.92	13,828	.93	55	.20	6,169	.91	6,932	.65
29. George Washington University	D.C.	26,387	.82	9,611	.44	7,906	.54	27	.10	1,878	.26	18,746	1.58
30. University of Pittsburgh	Pa.	25,820	.79	16,253	.84	12,036	.82	1	(b)	6,216	.92	7,387	.70
31. University of Rochester	N.Y.	25,190	.78	21,689	1.00	15,951	1.09	857	3.11	4,881	.72	3,501	.33
32. University of Utah	Utah	24,973	.77	17,507	.81	13,287	.91	177	.64	4,043	.80	7,486	.71
33. Case Western Reserve University	Ohio	24,361	.75	20,431	.94	13,743	.94	40	.15	6,848	.98	3,930	.37
34. University of Southern California	Calif.	24,361	.75	18,984	.87	12,466	.85	178	.65	6,320	.93	5,387	.51

Wis.	51,740	2.1	32,013	2.33	2,15	9,334	1.38	5,601	.53
8. Columbia University	45,973	2.03	34,046	.39	6,146	.35	3,302	.49	38,774
9. University of Cincinnati	1,54	1.48	8,447	1.17	16,150	1.10	.20	9,084	1.34
10. Ohio State University	47,221	1.44	25,297	1.17	16,150	1.10	54	21,260	2.01
11. University of Minnesota	48,629	1.44	37,956	1.75	24,719	1.69	194	.70	12,983
12. University of California—	Calif.	44,112	1.37	38,008	1.75	28,433	1.54	25	.56
13. University of Illinois—	Ill.	43,188	1.34	40,270	1.85	30,446	2.06	519	1.88
14. University of Florida	Fla.	41,504	1.29	18,492	.85	11,349	.78	617	1.88
15. University of Chicago	Ill.	39,597	1.23	36,837	1.69	26,467	1.81	310	1.12
16. University of California—	San Diego	39,001	1.21	37,757	1.74	34,563	2.39	30	.11
17. Cornell University	N.Y.	37,972	1.18	36,067	1.62	23,787	1.62	56	.20
18. New York University	N.Y.	37,779	1.17	30,816	1.41	21,007	1.44	551	2.00
19. University of Pennsylvania	Pa.	37,074	1.15	32,885	1.52	22,134	1.51	1,776	6,44
20. Johns Hopkins University	Md.	36,177	1.12	29,901	1.38	21,585	1.47	76	.28
21. Yale University	Conn.	33,904	1.06	29,054	1.34	20,120	1.37	259	.94
22. University of North Carolina—	Illa.—Chapel Hill	N.C.	33,259	1.03	18,010	.83	10,933	.76	17
23. Howard University	D.C.	32,529	1.01	2,671	.12	1,480	.10	—	.06
24. University of Colorado	Colo.	32,118	1.00	22,778	1.06	15,900	1.08	216	.78
25. University of Maryland	Md.	27,846	.98	22,417	1.03	16,519	1.13	262	.91
26. Duke University	N.C.	27,754	.95	24,167	1.11	16,166	1.10	260	.91
27. Washington University	No.	28,901	.83	22,958	1.06	15,170	1.04	93	.34
28. University of California—	San Francisco	Calif.	28,784	.83	19,852	.92	13,628	.83	55
29. George Washington University	D.C.	28,357	.82	9,811	.44	7,908	.64	27	.10
30. University of Pittsburgh	Pa.	25,620	.79	18,253	.84	12,036	.82	1	(b)
31. University of Rochester	N.Y.	25,190	.78	21,889	1.00	15,951	1.09	867	3.11
32. University of Utah	Utah	24,973	.77	17,507	.81	13,287	.91	177	.84
33. Case Western Reserve University	Ohio	24,261	.75	20,431	.94	13,743	.94	40	.16
34. University of Southern California	Calif.	24,251	.75	18,984	.97	12,486	.95	178	.85
35. Purdue University	Ind.	23,490	.73	20,704	.98	12,280	.94	134	.49
36. Michigan State University	Mich.	23,361	.72	18,155	.84	10,530	.72	280	1.02
37. University of Miami	Fla.	23,330	.72	15,374	.71	12,528	.88	48	.17
38. Yale University	N.Y.	22,774	.71	19,715	.91	13,557	.93	30	.11
39. University of Missouri—Columbia	Mo.	22,715	.70	14,116	.85	6,900	.47	119	.43
40. Pennsylvania State University	Pa.	22,075	.68	18,907	.87	11,078	.76	71	.26
41. University of Texas—Southwestern Medical School	Tex.	21,753	.67	6,740	.31	4,342	.30	—	—
42. University of Iowa	Iowa	20,410	.63	14,922	.68	9,985	.68	69	.25
43. Tulane University	La.	18,977	.59	6,275	.29	4,354	.30	23	.08
44. University of Texas—Austin	Tex.	18,910	.59	16,281	.75	12,986	.87	285	.96
45. University of Hawaii	Hawaii	18,882	.58	13,545	.62	10,498	.72	77	.28
46. Northwestern University	Ill.	18,457	.57	15,405	.71	10,217	.70	26	.09
47. Princeton University	N.J.	17,728	.55	16,546	.78	14,487	.59	147	.53
48. California Institute of Technology	Calif.	17,535	.54	17,379	.80	16,527	1.03	191	.89
49. University of Kentucky	Ky.	16,883	.52	12,808	.58	7,116	.49	67	.24
50. University of Georgia	Ga.	18,826	.52	14,887	.68	6,911	.47	1,195	4.33
51. University of Arizona	Ariz.	16,805	.52	11,961	.55	8,227	.56	19	.07
52. University of Alabama—Birmingham	Ala.	16,418	.51	9,229	.43	6,677	.46	—	—
53. Texas A&M University	Tex.	16,285	.50	15,311	.71	7,980	.52	145	.53
54. Temple University	Pa.	16,022	.50	8,772	.40	6,810	.38	2	.01
55. Boston University	Mass.	16,784	.49	10,769	.50	6,282	.36	130	.47
56. Virginia Commonwealth University	Va.	15,545	.48	6,223	.24	3,507	.24	—	—
57. Colorado State University	Colo.	15,363	.48	13,077	.60	9,980	.65	457	1.86
58. Vanderbilt University	Tenn.	15,322	.47	11,822	.55	7,771	.63	28	4,025
59. North Carolina State University—Raleigh	N.C.	15,294	.47	14,339	.66	7,056	.48	7	.03
60. University of California—Davis	Calif.	15,284	.47	13,585	.63	10,585	.72	228	.83

Table C-5.—Federal obligations to 100 universities and colleges receiving the largest amounts,
by type of program, fiscal year 1970 (Continued)

Institution (in order of total Federal obligations)	Total obligations		Research and development		R & D plant		Other science		Nonacademic activities	
	Amount	Percent of U.S. total	Amount	Percent of U.S. total	Amount	Percent of U.S. total	Amount	Percent of U.S. total	Amount	Percent of U.S. total
61. SUNY State University— Buffalo	15,216	.47	10,188	.47	6,894	.47	—	—	3,344	.49
62. Rutgers, The State Uni- versity	14,713	.46	11,878	.55	7,527	.51	.29	.11	4,322	.54
63. Indiana University—Bloom- ington	14,678	.45	10,724	.49	6,769	.46	1,102	4.00	2,833	.42
64. University of Tennessee— Knoxville	14,424	.45	12,631	.58	6,045	.41	745	2.70	5,841	.85
65. University of Kansas	14,145	.44	11,382	.53	7,010	.48	.26	.08	4,246	.64
66. Baylor College of Medicine Tex.	14,135	.44	12,462	.57	9,319	.54	—	—	3,133	.48
67. University of Oregon	14,116	.44	11,266	.52	6,782	.46	1,003	3.64	3,471	.51
68. Emory University	14,110	.44	9,867	.45	6,295	.43	—	—	3,582	.53
69. Oregon State University	13,945	.43	12,511	.58	8,471	.58	161	.56	3,889	.58
70. University of Virginia	13,840	.42	10,071	.46	6,516	.45	.38	.14	3,517	.52
71. Tulane University	13,445	.42	10,989	.51	7,201	.49	—	—	3,788	.56
72. Florida State University Fla.	12,301	.38	9,434	.44	5,708	.39	.38	.13	3,980	.55
73. University of Arkansas	12,104	.38	8,514	.39	4,080	.28	.49	.18	4,386	.65
W. Va. 74. West Virginia University	11,995	.37	8,773	.40	3,969	.27	.94	.34	3,960	.57
75. Louisiana State Uni- versity—Baton Rouge La.	11,848	.36	10,472	.48	5,404	.37	.22	.06	4,776	.71
76. Wayne State University	11,534	.36	7,020	.32	4,281	.29	—	—	2,759	.41
77. University of Oklahoma	11,307	.35	6,799	.31	3,413	.23	.32	.12	3,254	.50
78. Indiana University— Indianapolis	11,290	.35	5,599	.26	3,397	.23	—	—	2,202	.33
79. Iowa State University of Science and Tech- nology	10,963	.34	9,016	.42	4,830	.33	—	—	4,186	.62
Conn.	10,631	.33	8,030	.37	4,707	.32	.58	.21	3,285	.48
80. University of Connecticut	—	—	—	—	—	—	—	—	—	—
81. Cornell Mt. Sinai School of Medicine	10,441	.32	9,735	.45	7,128	.49	—	—	2,807	.39
82. University of Nebras- ka—Omaha	10,140	.31	7,254	.33	4,807	.33	.37	.13	2,410	.36
83. Woods Hole Oceanographic Institute	10,033	.31	10,033	.46	9,873	.67	.31	.11	1,229	.17
84. New Mexico State Uni- versity	9,503	.29	7,800	.36	6,321	.43	.35	.13	1,544	.23
N. Mex.	9,416	.29	6,136	.28	4,103	.28	—	—	2,032	.30
D.C.	9,135	.28	7,046	.32	2,657	.18	—	—	4,388	.65
Ala.	9,077	.28	7,687	.35	3,953	.27	.62	.22	3,672	.54
85. Auburn University	8,977	.28	8,248	.38	4,082	.28	.38	.13	4,130	.61
Va.	8,946	.28	7,538	.35	5,120	.35	.27	.10	2,389	.36
N.Y.	8,890	.28	7,324	.34	3,931	.28	.124	.46	3,389	.50
Kans.	—	—	—	—	—	—	—	—	1,677	.25
86. Brown University	8,822	.27	6,123	.28	4,726	.32	.30	.09	1,997	.16
N. Mex.	8,821	.27	6,138	.28	3,618	.26	.4	.01	2,516	.37
Ill.	8,822	.27	4,513	.21	2,935	.20	.15	.06	1,563	.23
Miss.	8,264	.26	7,205	.23	3,142	.21	—	—	4,063	.60
R.I.	8,113	.26	7,433	.34	5,756	.39	—	—	—	—
87. University of Tennessee— Medical Units	8,062	.26	3,598	.17	2,347	.16	—	—	1,229	.18
Tenn.	8,060	.26	4,792	.22	3,580	.24	—	—	1,212	.18
N.Y.	7,979	.26	5,230	.24	3,670	.26	—	—	1,860	.23
No.	7,814	.26	6,867	.31	6,418	.37	.3	.01	1,246	.18
Pa.	7,652	.26	7,222	.33	6,216	.42	—	—	1,006	.16

^aNot a university only.
^bLess than .005 percent.

SOURCE: National Science Foundation (CASE).

Table C-8.—Distribution of Federal obligations to universities and colleges, ranked in various groups,
by type of program, fiscal year 1970

[Dollars in thousands]

Type of program	Groups of institutions, ranked in order of total Federal obligations, 1970				
	Total, all institutions	First 10	First 20	First 50	First 100
Total, all programs:	\$3,228,737	\$674,996	\$677,938	\$1,863,870	\$2,288,788
Amount	100.00	17,22	30.31	52.49	70.93
Percent of total					29.07
Academic sciences:					
Amount	2,167,908	460,600	708,127	1,307,736	1,767,216
Percent of total	100.00	21.25	36.82	60.32	81.05
Research and Development:					
Amount	1,464,075	358,557	603,507	861,277	1,234,384
Percent of total	100.00	24.49	41.22	64.97	84.35
R & D patent:					
Amount	27,573	6,720	10,774	15,937	22,129
Percent of total	100.00	24.37	39.07	57.80	80.25
Other sciences:					
Amount	676,280	95,331	183,846	340,522	500,122
Percent of total	100.00	14.10	27.19	50.35	73.95
Nonacademic activities:					
Amount	1,068,529	114,387	179,81	386,134	531,544
Percent of total	100.00	10.80	16.98	38.47	50.20
					527,285 49.80

SOURCE: National Science Foundation (CASE).

Table C-7.—Federal obligations for academic science to 100 universities and colleges receiving the largest amounts, by agency, fiscal year 1970

Institution	State	Total	Agriculture	AEC	Commerce	DOD	HED	Interior	NASA	NSF	Other ^a
1. Massachusetts Institute of Technology	Mass.	90,497	—	9,383	109	44,056	10,165	688	26,044	8,313	741
2. Stanford University	Calif.	80,970	—	780	39	10,929	21,817	234	4,410	12,590	113
3. Harvard University	Mass.	50,830	—	2,000	174	2,989	31,010	155	6,002	7,749	842
4. University of Michigan	Mich.	49,167	46	3,080	3	7,710	23,403	250	6,506	7,331	1,629
5. University of Wisconsin-Madison	Wis.	45,798	4,415	3,229	8	1,010	22,850	343	1,903	7,226	5,155
6. University of California-Los Angeles	Calif.	45,620	—	5,026	5	6,216	24,854	330	2,439	5,784	946
7. Columbia University ^b	N.Y.	43,973	20	5,030	46	7,274	22,283	120	1,919	6,879	422
8. University of Washington	Wash.	41,069	208	2,722	3	2,800	26,285	742	619	7,652	148
9. University of Illinois-Urbana	Ill.	40,270	5,429	4,247	—	12,875	8,534	408	782	7,801	191
10. University of California-Berkeley	Calif.	39,008	1801	752	—	4,875	16,983	628	6,896	6,899	826
11. University of Minnesota	Minn.	37,988	4,448	1,844	—	2,568	22,865	806	1,478	3,384	554
12. University of California-San Diego	Calif.	37,767	—	2,027	49	10,863	9,977	—	3,463	11,578	—
13. University of Chicago	Ill.	36,637	—	5,017	125	1,810	20,702	75	2,807	6,230	71
14. Cornell University	N.Y.	36,057	5,905	1,787	—	3,201	15,086	177	1,270	7,417	174
15. University of Pennsylvania	Pa.	32,895	2	1,723	—	2,639	22,498	62	259	4,891	831
16. New York University	N.Y.	30,616	25	2,137	37	2,434	22,485	64	701	2,182	552
17. Johns Hopkins University	Md.	28,901	29	967	62	2,387	23,630	65	486	2,505	10
18. Yale University	Conn.	20,054	—	3,515	—	1,631	18,736	1	684	4,478	1
19. Ohio State University	Ohio	18,287	5,908	831	—	3,337	9,881	486	783	3,237	1,004
20. Duke University	N.C.	24,167	2	1,005	15	3,283	17,346	19	149	2,329	16
21. Washington University	Mo.	22,868	—	383	5	1,877	18,384	—	686	1,841	—
22. University of Colorado	Colo.	22,778	—	1,108	483	1,832	12,788	—	1,504	4,985	14
23. University of Maryland	Md.	22,417	2,298	2,342	62	2,819	7,213	229	3,294	4,045	114
24. University of Rochester	N.Y.	21,500	—	5,061	—	884	11,140	—	233	4,285	116
25. Purdue University	Ind.	20,704	5,825	1,882	100	2,222	5,121	260	711	4,586	398
26. Case Western Reserve University	Ohio	20,431	—	982	—	2,523	13,829	110	803	2,108	66
27. University of California-San Francisco	Calif.	19,852	—	723	—	324	18,631	—	113	61	—
28. Yale University	N.Y.	19,715	—	135	—	757	15,982	75	—	2,506	260
29. University of Southern California	Calif.	18,504	1	247	3	1,785	12,248	62	1,506	2,397	615
30. Pennsylvania State University	Pa.	18,807	6,300	517	15	982	5,042	615	1,429	3,168	410
31. University of Florida	Fla.	18,492	3,205	445	—	1,880	8,413	329	487	2,863	910
32. University of Pittsburgh	Pa.	18,263	5	489	—	1,180	12,488	212	684	2,565	729
33. Michigan State University	Mich.	18,155	5,042	2,162	—	382	5,729	220	47	4,271	302
34. University of North Carolina-Chapel Hill	N.C.	18,010	—	462	—	1,185	13,540	53	70	2,150	540
35. University of Utah	Utah	17,507	—	1,138	4	2,888	9,233	684	160	2,113	397
36. California Institute of Technology	Calif.	17,379	—	2,719	—	2,486	4,808	167	3,166	4,023	—
37. Princeton University	N.J.	16,546	—	2,678	19	3,083	2,937	—	3,983	3,886	22
38. University of Texas-Austin	Tex.	16,281	—	770	—	5,272	4,956	105	1,316	3,709	153
39. Northwestern University	Ill.	15,495	2	240	—	1,408	8,473	20	3,058	3,988	236
40. University of Miami	Fla.	15,374	—	330	88	—	—	—	505	2,367	—

38.637	6,017	1,610	20,702	75	6,230	71
13. University of Chicago	5,965	1,787	—	3,201	1,270	7417
14. Cornell University	5,967	1,723	—	2,839	52	259
15. University of Pennsylvania	2	—	—	—	—	831
16. New York University	30,616	26	2,197	37	2,434	64
17. Johns Hopkins University	29,501	29	967	62	2,367	65
18. Yale University	29,504	—	3,615	—	23,420	—
19. Ohio State University	25,297	6,906	—	1,631	18,736	10
20. Duke University	26,167	2	1,005	15	3,237	4,478
21. Washington University	22,595	—	383	5	1,877	1,737
22. University of Colorado	22,778	—	1,168	463	1,822	684
23. University of Maryland	22,417	2,298	2,342	62	2,619	466
24. University of Rochester	21,688	—	5,081	—	894	762
25. Purdue University	20,704	9,625	1,682	100	2,222	149
26. Case Western Reserve University	20,431	—	992	—	2,523	1,744
27. University of California-San Francisco	19,852	—	723	—	18,631	65
28. Yale University	19,715	—	135	—	757	1,504
29. University of Southern California	18,584	1	247	3	1,784	4,046
30. Pennsylvania State University	18,207	6,309	617	15	12,348	114
31. University of Florida	18,492	3,305	445	—	1,813	1,234
32. University of Pittsburgh	18,253	6	469	—	11,180	2,506
33. Michigan State University	18,185	8,042	2,162	—	12,609	2,397
34. University of North Carolina-Chapel Hill	18,010	—	462	—	6,729	615
35. University of Utah	17,507	—	1,336	4	1,185	4,595
36. California Institute of Technology	17,279	—	2,719	—	2,485	398
37. Princeton University	16,546	—	2,576	19	3,053	—
38. University of Texas-Austin	16,281	—	770	—	5,272	—
39. Northwestern University	16,485	2	260	—	1,488	1,429
40. University of Miami	15,374	—	330	89	2,367	113
41. Texas A&M University	16,311	9,185	1,123	—	1,800	61
42. University of Iowa	14,222	11	96	—	1,088	61
43. University of Georgia	14,887	9,088	698	70	9,651	729
44. North Carolina State University-Raleigh	14,239	7,785	906	14	4,189	4,271
45. University of Missouri-Columbia	14,116	5,037	130	6	1,445	1,150
46. University of California-Davis	13,985	111	2,572	—	2,168	1,038
47. University of Hawaii	13,585	1,123	986	107	2,937	3,936
48. Colorado State University	13,077	2,267	204	98	4,958	3,755
49. University of Tennessee-Knoxville	12,851	5,882	1,257	—	1,484	1,904
50. University of Kentucky	12,808	6,299	93	123	2,797	1,204
51. Oregon State University	12,611	2,400	600	—	1,282	1,941
52. Baylor College of Medicine	12,462	—	21	—	1,243	1,436
53. University of Arizona	11,961	1,704	425	6	2,614	2,518
54. Rutgers, The State University	11,874	2,006	124	—	401	4,206
55. Vanderbilt University	11,822	—	201	—	4,044	4,422
56. University of Kansas	11,262	—	453	—	622	1,305
57. University of Oregon	11,228	6	307	—	816	1,032
58. Tulane University	10,568	—	77	—	247	1,277
59. Boston University	10,769	—	31	—	491	1,356
60. Indiana University-Bloomington	10,724	6	272	—	788	1,417
61. Louisiana State University-Baton Rouge	10,472	4,028	217	—	784	1,144
62. SUNY State University-Buffalo	10,168	—	204	—	300	1,053
63. University of Virginia	10,071	6	392	—	1,162	1,031
64. Woods Hole Oceanographic Institution	10,033	—	634	—	5,444	1,475
65. Emory University	9,907	—	76	—	163	2,369
66. CUNY-Mt. Sinai School of Medicine	9,736	—	36	—	65	1,305
67. George Washington University	9,611	—	10	—	1,840	467
68. Florida State University	9,434	—	1,180	29	1,649	443
69. University of Oklahoma-Oklahoma City	9,229	—	2	—	104	1,333
70. Iowa State University of Science and Technology	9,015	4,729	85	—	604	1,315
71. West Virginia University	8,773	2,977	—	340	2,784	297
72. Temple University	8,772	—	108	—	132	1,655
73. University of Arkansas	8,514	4,183	185	76	3,229	221
74. University of Oklahoma-Oklahoma City	8,447	—	186	—	1,588	1,674
75. Wright Polytechnic Institute	8,248	4,910	185	—	190	890
76. University of Connecticut	8,030	1,107	92	50	4,625	1,118
77. New Mexico State University	7,900	1,853	—	30	2,515	476
78. Oklahoma State University	7,887	3,879	42	—	982	3,905
79. Syracuse University	7,538	17	208	—	1,228	8
80. Brown University	7,433	—	633	—	1,214	2,052
81. Kansas State University	7,324	3,078	434	—	602	1,189
82. University of Massachusetts	7,254	2,002	226	—	473	2,223
83. Carnegie Mellon University	7,222	—	1,623	—	2,440	1,702
84. Mississippi State University	5,725	—	—	—	387	200
85. Illinois Institute of Technology	5,124	—	—	—	1,950	197

Table C-7.—Federal obligations for academic science to 100 universities and colleges receiving the largest amounts, by agency, fiscal year 1970 (Continued)

Institution	State	Total	Agriculture	AEC	Commerce	DOD	HED	Interior	NASA	NSF	Other ^a
85. University of Alaska	Ala.	7,076	881	271	149	2,550	819	408	302	2,297	68
87. Auburn University	Ala.	7,046	5,408	19	—	202	414	184	485	282	—
88. Wayne State University	Mich.	7,020	—	140	—	413	4,386	—	68	1,162	395
89. Brooklyn University	N.Y.	6,880	—	273	—	413	—	3,181	—	2,862	38
90. University of Oklahoma	Okla.	6,790	—	89	43	897	3,884	24	105	1,959	367
91. Georgia Institute of Technology	Ga.	6,767	10	344	5	3,280	688	201	949	1,164	108
92. University of Texas—Southwestern Medical School	Tex.	6,740	—	44	—	51	6,513	—	105	77	—
93. SUNY State University—Albany Branch	N.Y.	6,687	—	851	—	—	544	—	414	4,383	—
94. Penn University	Pa.	6,646	—	771	—	705	1,704	—	1,306	1,428	—
95. Tulane University	La.	6,276	—	300	—	300	4,532	—	60	654	346
96. Clemson University	S.C.	6,271	4,278	49	—	—	48	186	130	1,174	—
97. Washington State University	Wash.	6,183	2,767	304	—	261	1,888	301	18	620	25
98. Worcester Polytechnic Institute	Mass.	6,138	—	—	—	—	6,052	622	1,016	818	155
99. University of Texas—M.D. Anderson Hospital and Tumor Institute	N.Y.	6,137	—	1,142	36	1,279	—	—	135	1,209	28
	Tex.	6,137	—	65	—	70	6,748	—	—	119	—

^aIncludes Agency for International Development, Office of Economic Opportunity, the Departments of Housing and Urban Development, Labor, and Transportation, and other university only.

^bIndicates number indicate same amount of Federal obligations needed for this particular rank.

SOURCE: National Science Foundation (CARE).

Table C-8.—Federal obligations for research and development to the 100 universities and colleges receiving the largest amounts, by agency, fiscal year 1970

Institution (in order of R&D obligations)	State	Amount	Percent of U.S. total	(Dollars in thousands)								
				Agriculture	AEC	Commerce	DOD	HEW	Interior	NASA	NSF	Other*
Total for 100 universities and colleges		\$1,236,024	35.72	304,185	80,367	\$1,784	\$233,880	\$524,890	\$19,850	\$115,256	\$190,752	\$27,071
1. Massachusetts Institute of Tech- nology	Mass.	82,300	6.30	—	7,853	100	44,586	7,477	666	28,013	5,884	741
2. Stanford University	Calif.	39,006	2.67	—	6852	10	10,828	15,254	234	4,012	7,873	113
3. Harvard University	Mass.	37,546	2.86	—	1,705	174	2,888	20,982	56	6,002	5,128	842
4. University of Michigan	Mich.	36,808	2.80	46	2,458	—	7,710	13,483	250	5,505	5,277	1,829
5. University of California—Los Angeles	Calif.	36,206	2.60	—	4,006	5	6,218	15,873	323	2,439	3,903	946
6. University of California—San Diego	Calif.	24,863	2.39	20	2,027	49	10,863	7,731	—	3,463	11,020	—
7. Columbia University	N.Y.	26,044	2.33	—	4,639	46	7,274	13,800	120	1,886	5,819	422
8. University of Wisconsin—Madison	Wis.	32,815	2.24	1,060	2,853	—	1,010	16,321	340	1,603	4,803	5,156
9. University of Illinois—Urbana	Ill.	30,444	2.08	1,066	3,000	—	12,778	5,287	403	782	5,395	191
10. University of Washington	Wash.	29,807	2.03	207	2,300	—	2,800	17,313	572	519	5,738	148
11. University of California—Berkeley	Calif.	28,433	1.94	861	856	—	4,876	10,720	626	6,906	3,564	825
12. University of Chicago	Ill.	28,407	1.81	—	4,704	125	1,704	11,823	75	2,807	5,248	71
13. University of Minnesota	Minn.	26,710	1.80	1,675	1,958	—	2,808	13,754	828	1,476	2,286	554
14. Cornell University	N.Y.	23,787	1.62	1,005	1,853	—	3,201	9,444	177	1,270	5,973	174
15. University of Pennsylvania	Pa.	22,134	1.51	—	1,667	—	2,639	14,137	52	259	2,549	831
16. Johns Hopkins University	Md.	21,805	1.47	23	853	32	2,306	15,623	65	486	2,002	10
17. New York University	N.Y.	21,007	1.44	26	1,658	37	2,434	14,388	64	701	1,258	562
18. Yale University	Conn.	20,120	1.37	—	3,306	—	1,631	11,271	1	694	3,216	1
19. University of Maryland	Md.	18,540	1.13	843	2,158	—	2,518	4,586	229	3,190	2,561	114
20. Duke University	N.C.	16,186	1.10	2	797	15	3,283	10,003	19	149	1,802	16
21. Ohio State University	Ohio	18,159	1.10	1,851	758	—	3,236	6,072	465	687	2,005	1,004
22. University of Rochester	N.Y.	15,951	1.09	—	4,603	—	1,684	7,165	—	233	2,950	116
23. University of Colorado	Colo.	15,800	1.08	—	880	48	1,822	7,485	96	1,504	3,571	14
24. Washington University	Mo.	15,170	1.04	—	352	—	1,877	11,125	—	686	1,120	—
25. California Institute of Technology	Calif.	15,027	1.03	—	2,958	—	2,086	3,779	167	3,186	2,911	—
26. Princeton University	N.J.	14,487	1.01	—	2,631	19	3,083	2,173	—	3,933	2,846	22
27. Case Western Reserve University	Ohio	13,743	1.00	—	891	—	2,523	7,949	110	696	1,406	86
28. University of California—San Francisco	Calif.	13,628	1.00	—	659	—	324	12,552	—	113	—	—
29. Yeshiva University	N.Y.	13,587	1.00	—	135	—	757	10,803	75	—	1,747	259
30. University of Utah	Utah	13,267	1.01	—	1,057	4	2,886	6,446	864	160	1,461	397
31. University of Texas—Austin	Tex.	12,606	.97	—	695	—	5,272	2,743	106	1,316	2,412	153
32. University of Miami	Fla.	12,528	.96	—	319	86	2,267	5,441	805	375	3,287	148
33. University of Southern California	Calif.	12,466	.95	—	247	—	1,786	7,266	67	912	1,491	615
34. Purdue University	Ind.	12,260	.96	—	2,700	3	2,222	2,234	280	711	2,076	398
35. University of Pittsburgh	Pa.	12,036	.92	—	413	—	1,150	7,211	212	597	1,884	729
36. University of Florida	Fla.	11,349	.78	—	206	—	1,850	4,820	329	487	1,246	910
37. Pennsylvania State University	Pa.	11,076	.76	2,014	461	—	592	3,165	845	1,428	1,771	410
38. University of North Carolina— Chapel Hill	N.C.	10,933	.75	—	462	—	1,186	7,229	44	79	1,283	540

Table C-8.—Federal obligations for research and development to 111-100 universities and colleges receiving the largest amounts, by agency, fiscal year 1970 (Continued)

Institution (in order of R&D obligations)	Year	Amount	Percent of U.S. total	Agriculture	AEC	Commerce	DOD	HEW	Inventor	NASA	NSF	Other ^a
76. Louisiana State University—Baton Rouge	1969	5,404	6.282	200	51	762	409	144	615	1,361	20	135
77. Boston University	1969	5,171	6,145	165	165	1,300	3,824	672	1,213	1,350	667	1,004
78. Penn University	1969	5,171	6,145	165	165	1,300	2,861	67	202	1,203	141	141
79. University of Oklahoma	1969	5,124	5,124	65	65	70	4,735	—	135	110	—	—
80. University of Texas—M.D. Anderson Hospital and Tumor Institute	1969	5,124	5,124	17	203	1,228	1,362	144	446	634	161	161
81. Syracuse University	1970	5,120	4,904	860	—	1,279	213	1,016	610	592	26	26
82. Rensselaer Polytechnic Institute	1970	5,004	—	31	31	604	1,207	498	37	360	134	134
83. Iowa State University of Science and Technology	1970	4,820	4,820	225	473	1,441	308	418	1,188	223	640	640
84. University of Illinois-Chicago	1970	4,807	704	20	1,045	1,410	4	574	—	—	—	—
85. University of New Mexico	1970	4,728	—	80	426	2,78	220	80	863	—	—	—
86. University of Connecticut	1970	4,707	—	82	1,171	329	783	—	217	871	803	803
87. Northeastern University	1970	4,640	—	80	413	1,088	—	—	2,160	38	339	346
88. Utah State University	1970	4,501	—	300	300	2,826	—	60	—	—	—	629
89. Brandeis University	1970	4,478	—	—	—	—	—	—	—	—	—	—
90. Tufts University	1970	4,294	—	44	140	—	—	—	105	77	365	365
91. University of Texas—Austin	1970	4,262	—	140	413	2,088	—	—	65	65	25	25
92. Wayne State University	1970	4,201	—	122	673	2,488	21	—	649	649	92	92
93. Georgetown University	1970	4,103	—	180	180	408	528	—	862	862	—	—
94. Virginia Polytechnic Institute	1970	4,062	—	185	75	2,930	139	—	303	303	—	—
95. University of Arizona	1970	4,000	—	—	—	—	—	—	—	—	—	—
96. West Virginia University	1970	3,900	3,900	47	300	1,400	67	67	228	228	20	20
97. University of Dayton	1970	3,868	3,868	42	3,000	602	180	750	700	700	206	206
98. Oklahoma State University	1970	3,663	3,663	—	600	726	215	54	600	600	165	165
99. Kansas State University	1970	3,521	3,521	—	—	—	—	—	—	—	—	—
100. University of Texas—Dallas	1970	3,711	—	—	—	—	—	—	—	—	—	—

^aIncludes Agency for International Development, Office of Economic Opportunity, the Departments of Housing and Urban Development, Labor, and Transportation.

^bState university only.

SOURCE: National Science Foundation (CASE).

Table C-8.—Research and development and R&D plant obligations as a percent of total Federal obligations for each of the 150 universities and colleges receiving the largest amounts, fiscal year 1970

Table C-9.—Research and development and R&D plant obligations as a percent of total Federal obligations for each of the 150 universities and colleges receiving the largest amounts, fiscal year 1970 (Continued)

Institution (in order of R&D obligations)	State	R&D obligations as a percent of institution's total obligations	R&D plant obligations as a percent of institution's total obligations
1. Mass. Institute of Tech.	Mass.	82.15	1.76
2. Standard Univ.	N.J.	73.08	.45
3. Harvard Univ.	Mass.	67.57	1.02
4. Univ. of Mich.	Mich.	61.50	2.73
5. Univ. of Calif.-Los Angeles	Calif.	60.51	2.46
6. Univ. of Calif.-San Diego	Calif.	60.22	2.46
7. Columbia Univ.	N.Y.	60.08	1.22
8. Univ. of Md.-Baltimore	Md.	60.42	1.22
9. Univ. of Ill.-Urbana	Ill.	70.48	1.22
10. Univ. of Wash.	Wash.	80.24	2.46
11. Univ. of Calif.-Berkeley	Calif.	60.46	2.46
12. Univ. of Chicago	Ill.	60.35	4.22
13. Univ. of Minn.	Minn.	62.13	1.15
14. Cornell Univ.	N.Y.	62.64	4.76
15. Univ. of Pa.	Pa.	60.70	4.76
16. Johns Hopkins Univ.	Md.	60.61	2.73
17. N.Y. Univ.	N.Y.	60.46	1.48
18. Yale Univ.	Conn.	60.26	1.48
19. Univ. of Md.	Md.	60.43	2.46
20. Duke Univ.	N.C.	60.25	1.22
21. Ohio State Univ.	Ohio	56.88	.42
22. Univ. of Rochester	N.Y.	63.22	3.60
23. Univ. of Okla.	Okl.	49.22	.47
24. Wash. Univ.	Mo.	56.26	.26
25. Calif. Institute of Tech.	Calif.	60.70	1.22
26. Princeton Univ.	N.J.	61.72	1.15
27. City Univ. of New York	N.Y.	60.61	1.15
28. Univ. of Calif.-San Francisco	Calif.	60.88	1.07
29. Yeshiva Univ.	N.Y.	60.57	1.22
30. Univ. of Colo.	Colo.	62.21	1.48
31. Univ. of Texas-Austin	Tex.	67.14	1.40
32. Univ. of Illinois	Ill.	63.70	2.11
33. Univ. of Southern Calif.	Calif.	61.19	1.22
34. Penn State Univ.	Pa.	62.22	.57
35. Univ. of Pitt.	Pa.	46.88	1.40
36. Univ. of Fla.	Fla.	27.24	1.26
37. Pa. State Univ.	Pa.	60.18	2.21
38. Univ. of Ill.-Champaign	Ill.	52.77	1.26
39. Univ. of Calif.-Davis	Calif.	60.36	1.40
40. Mich. State Univ.	Mich.	46.08	1.20
41. Univ. of Wash.	Wash.	56.19	1.41
42. Northwestern Univ.	Ill.	60.36	1.14
43. Univ. of Iowa	Iowa	40.82	1.26
44. Woods Hole Oceanographic Inst.	Mass.	60.41	.57
45. Colo. State Univ.	Colo.	62.23	2.57
46. Baylor Coll. of Medicine	Tex.	60.50	1.41
47. Ohio State Univ.	Ohio	60.75	.10
48. Univ. of Ariz.	Ariz.	44.86	.11
49. George Washington Univ.	D.C.	50.50	.10
50. Vanderbilt Univ.	Tenn.	60.72	.17

Plain University only.

*Less than 100 percent.

SOURCE: National Science Foundation (CASE).

Table C-10.—Federal obligations for R&D plant to the 100 universities and colleges receiving the largest amounts, by agency, fiscal year 1970

Institution (in order of R&D plant obligations)		State	Amount	Percent of U.S. total	Agriculture	AEC	Commerce	HEW	NSF
[Dollars in thousands]									
Total for 100 universities and colleges	\$20,344	\$7,35	\$600	\$7,016	\$18	\$276	\$18,565		
1. Massachusetts Institute of Technology		1,704	6.47						108
2. University of Pennsylvania		1,778	6.44					1	1,719
3. University of California—Los Angeles	Calif.	1,439	5.22		437			2	1,000
4. University of Georgia	Ga.	1,185	4.32		31				1,164
5. Indiana University—Bloomington	Ind.	1,02	4.00						1,02
6. University of Oregon	Ore.	1,003	3.64				14	969	
7. Stanford University	Calif.	988	3.50				35	910	
8. West Virginia University	W. Va.	944	3.42					944	
9. University of Rochester	N.Y.	887	3.11					887	
10. University of Tennessee—Knoxville	Tenn.	794	2.86				12	639	
11. Albany State University—Albany	N.Y.	780	2.72					780	
12. University of Tennessee	Tenn.	745	2.70					5	
13. University of Michigan	Mich.	621	2.10					621	
14. Colorado University	Colo.	583	2.15					583	
15. New York University	N.Y.	551	2.00					551	
16. University of Illinois—Urbana	Ill.	519	1.85					519	
17. University of Florida	Fla.	517	1.85					517	
18. Cornell University	N.Y.	498	1.65					498	
19. University of Minnesota—Duluth	Minn.	480	1.74					480	
20. Oklahoma State University	Okl.	457	1.66					457	
21. Brigham Young University	Utah	396	1.43					396	
22. Harvard University	Mass.	390	1.37					390	
23. University of Chicago	Ill.	310	1.12					310	
24. University of New Mexico	N.M.	300	1.09					300	
25. Clark University	Conn.	297	1.03					297	
26. Louisiana State University—Baton Rouge	La.	282	1.02					282	
27. Michigan State University	Mich.	260	0.95					260	
28. University of Texas—Austin	Tex.	260	0.95					260	
29. Yale University	Conn.	262	0.95					262	
30. Ohio University	Ohio	262	0.95					262	
31. University of Maryland	Md.	222	0.81					222	
32. Drexel University	Pa.	200	0.74					200	
33. University of California—Davis	N.C.	200	0.74					200	
34. University of Notre Dame	Calif.	227	0.82					227	
35. University of Rhode Island	Fla.	226	0.82					226	
36. Stevens Polytechnic Institute	Ind.	220	0.82					220	
37. University of Colorado	Colo.	216	0.82					216	
38. University of Minnesota	Minn.	196	0.71					196	
39. California Institute of Technology	Calif.	191	0.70					191	
40. University of Southern California	Calif.	172	0.63					172	
41. University of Utah	Utah	177	0.63					177	
42. North Carolina A&T State University	N.C.	175	0.63					175	
43. Dartmouth College	N.H.	168	0.62					168	
44. Oregon State University	Ore.	161	0.59					161	
45. Institute of Paper Chemistry	N.C.	150	0.54					150	
46. Princeton University	N.J.	147	0.53					147	
47. Texas A&M University	Tex.	145	0.51					145	
48. University of Washington	Calif.	140	0.51					140	

Table C-10.—Federal obligations for R&D paid to the 100 universities and colleges receiving the largest amounts, by agency, fiscal year 1970 (Continued)

Institution (in order of R&D obligations)	State	Amount	Percent of U.S. total	Agriculture	AEC	Commerce	HED	NSF
St. Virginia Polytechnic Institute ^a	Va.	\$ 2,201,910	.13					\$ 22
St. North Dakota State University ^a	N.D.	1,130,000	.13					22
St. University of Idaho ^a	Idaho	1,130,000	.13					22
St. New Mexico State University ^a	N.M.	1,130,000	.13					22
St. Florida State University ^a	Fla.	1,130,000	.13					22
St. Albright College ^b	Pa.	3,220,000	.13					38
St. South Dakota State University ^b	S.D.	3,220,000	.13					38
St. Leavenworth University ^b	Kan.	3,220,000	.13					38
St. University of Oklahoma ^b	Ola.	3,220,000	.13					38
St. University of South Carolina ^b	S.C.	3,220,000	.13					38
St. Woods Hole Oceanographic Institute ^b	Mass.	3,220,000	.13					38
St. Shippensburg State College ^b	Pa.	3,220,000	.13					38
St. University of Alabama ^b	Ala.	3,220,000	.13					38
St. Yeshiva University ^b	N.Y.	3,220,000	.13					38
St. University of California—San Diego ^b	Calif.	3,220,000	.13					38
St. Rutgers, The State University ^b	N.J.	3,220,000	.13					38
St. University of Vermont ^b	Vt.	3,220,000	.13					38
St. Syracuse University ^b	N.Y.	3,220,000	.13					38
St. George Washington University ^b	D.C.	3,220,000	.13					38
St. University of Kansas ^b	Kans.	3,220,000	.13					38

^aJohn University only.
^bEstimated amounts indicate some amount of Federal obligations received for this particular year.

SOURCE: National Science Foundation (CASS).

Table C-11.—Obligations by the Department of Health, Education, and Welfare, to universities and colleges, by type of program and subdivision, fiscal year 1970

Type of program	Total	Health activities	Office of Education	Other
Total, all programs	\$2,081,910	\$1,240,004	\$1,028,961	\$814,577

31. University of South Carolina	
32. Woods Hole Oceanographic Institution	
33. Blinn and State Colleges	
34. University of Alabama	
35. Yale University	
36. University of California-San Diego	
37. Ph.D., The State University	
38. University of Vermont	
39. Syracuse University	
40. George Washington University	
41. University of Kansas	

Public University only.
Program numbers indicate same amount of Federal obligations received for
the particular year.

SOURCE: National Science Foundation (CASE).

Table C-11.—Obligations by the Department of Health, Education, and Welfare to universities and colleges,
by type of program and substitution, fiscal year 1970

Type of program	Total	Health activities			Office of Education	Other
		National Institutes of Health	Other	Total		
Total, all programs	\$9,691,210	\$1,240,504	\$1,229,561	\$10,150,275	\$14,577	\$60,429
Academic science	1,017,300	877,300	692,116	1,571,474	86,137	51,322
Research and development						
R&D plan	614,450	588,203	484,887	82,416	22,984	23,506
Other science activities	401,852	309,307	207,240	102,068	361	27,413
Nonuniv. activities	1,003,001	402,414	307,308	126,879	639,490	44,107

SOURCE: National Science Foundation (CASE).

Table C-12.—Obligations by the Department of Defense to universities and colleges,
by type of program and substitution, fiscal year 1970

Type of program	Total	Health activities			Air Force	Other DOD
		Army	Navy	Air Force		
Total, all programs	\$20,526	\$87,500	\$86,282	\$1,02,800	\$7,000	\$7,000
Academic science	200,468	67,500	64,282	102,800	1,004	1,004
Research and development						
R&D plan	200,476	67,500	64,282	102,800	1,004	1,004
Other science					10	10
Nonuniv. activities	39	—	—	—	—	39

SOURCE: National Science Foundation (CASE).

TABLE C-13
**TOTAL FEDERAL OBLIGATIONS
 TO ALL UNIVERSITIES AND COLLEGES BY
 STATE, INSTITUTION, AND AGENCY, FISCAL YEAR 1970**
 (THOUSANDS OF DOLLARS)

STATE AND INSTITUTION	TOTAL	AGR	AGC	COR	COM	DDO	HED	INT	NSA	NSF	OTHER
ALABAMA											
ALA AGH AND MECM COL	702	26	0	0	0	0	0	0	0	0	0
ALA CHRISTIAN COL **	45	0	0	0	0	0	0	0	0	0	0
ALABAMA STATE UNIVERSITY	323	5	0	0	0	0	0	0	0	0	0
ALBERT P BRUMBA ST JR COL **	16	0	0	0	0	0	0	0	0	0	0
ALBANYA CITY ST JR COL **	74	0	0	0	0	0	0	0	0	0	0
ATHENS COL	29	0	0	0	0	0	0	0	0	0	0
AUBURN UNIV	9,133	3,408	19	0	0	0	0	0	0	0	0
BIRMINGHAM-SOUTHERN COL	97	0	0	0	0	0	0	0	0	0	0
CAL MOUN ST TECH JR COL **	32	0	0	0	0	0	0	0	0	0	0
ENTERPRISE JR COL **	50	0	0	0	0	0	0	0	0	0	0
PAULINER STATE JUNIOR COL **	80	0	0	0	0	0	0	0	0	0	0
FLORENCE STATE UNIVERSITY	288	0	0	0	0	0	0	0	0	0	0
G C WALLACE ST TEC JR COL **	11	0	0	0	0	0	0	0	0	0	0
GADSDEN STATE JR COLLEGE **	175	0	0	0	0	0	0	0	0	0	0
HUNTINGDON COL	194	0	0	0	0	0	0	0	0	0	0
JACKSONVILLE ST UNIV	268	0	0	0	0	0	0	0	0	0	0
JEFFERSON DAVIS COL **	30	0	0	0	0	0	0	0	0	0	0
JEFFERSON ST JR COL **	1,163	0	0	0	0	0	0	0	0	0	0
JUDSON COL	71	0	0	0	0	0	0	0	0	0	0
LAKELAN B WALLACE ST JR C **	72	0	0	0	0	0	0	0	0	0	0
LAWSON STATE JUNIOR COL **	159	0	0	0	0	0	0	0	0	0	0
LIVINGSTON UNIVERSITY	283	0	0	0	0	0	0	0	0	0	0
MILES COL	1,063	0	0	0	0	0	0	0	0	0	0
MOBILE COL	66	0	0	0	0	0	0	0	0	0	0
MOBILE ST JR COL **	170	0	0	0	0	0	0	0	0	0	0
NE ALABAMA STATE JR COL **	63	0	0	0	0	0	0	0	0	0	0
NORTHWEST ALA ST JR COL **	37	0	0	0	0	0	0	0	0	0	0
NAMIBUO COL	148	0	0	0	0	0	0	0	0	0	0
PATRICK HENRY ST JR COL	23	0	0	0	0	0	0	0	0	0	0
SACRED HEART COL **	19	0	0	0	0	0	0	0	0	0	0
SAMPSON UNIV	134	0	0	0	0	0	0	0	0	0	0
SELMA UNIV	24	0	0	0	0	0	0	0	0	0	0
SNAQ STATE JUNIOR COL **	3	0	0	0	0	0	0	0	0	0	0
SOUTHERN UNION ST JR COL **	250	0	0	0	0	0	0	0	0	0	0
SPRING HILL COL	198	0	0	0	0	0	0	0	0	0	0
ST AERNARD COL	92	0	0	0	0	0	0	0	0	0	0
STILLMAN COL	720	0	0	0	0	0	0	0	0	0	0
TALLADEGA COL	824	0	0	0	0	0	0	0	0	0	0
TROY STATE UNIV	494	0	0	0	0	0	0	0	0	0	0
TUSKEGEE INST	4,723	233	64	0	0	0	0	0	0	0	0
U OF ALA IN BIRMINGHAM	16,418	0	2	0	0	0	0	0	0	0	0
U OF ALA IN MURKINSVILLE	864	0	0	0	0	0	0	0	0	0	0
U OF ALA IN TUSCALOOSA	3,691	0	24	0	0	0	0	0	0	0	0
UNIV OF MONTEVALLO	97	0	0	0	0	0	0	0	0	0	0
UNIV OF SOUTH ALA	301	0	0	0	0	0	0	0	0	0	0
TOTAL ALABAMA	43,729	5,674	111	0	0	0	0	0	0	0	0
ARIZONA											
ALASKA METHODIST UNIV	431	0	0	0	0	0	0	0	0	0	0
KODIAK COMMUNITY COLLEGE	3	0	0	0	0	0	0	0	0	0	0
SHIELDON JACKSON JR COL **	10	0	0	0	0	0	0	0	0	0	0
UNIV OF ALASKA	7,610	861	271	169	2,090	1,194	2,090	1,194	0	0	0
TOTAL ALASKA	8,054	861	271	169	2,090	1,194	2,090	1,194	0	0	0

HUNTINGDON COL	196
JACKSONVILLE ST UNIV	268
JEFFERSON HAVIS COL **	30
JEFFERSON JR COL **	1,165
JUDSON COL	71
LAWRENCE B WALLACE ST JR C **	22
LAWSON STATE JUNIOR COL **	159
LIVINGSTON UNIVERSITY	283
MILES COL	1,043
MOBILE COL	99
MOBILE ST JR COLL **	110
MS ALABAMA STATE JR COLL **	63
NORTHWEST ALA ST JR COL **	37
DAKINNED COL	146
PATRICK HENRY ST JR COL	23
SACRED HEART COL **	19
SANFORD COL	124
SELMA UNIV	24
SINGAD STATE JUNIOR COL **	3
SOUTHERN UNION ST JR COL **	290
SPRING HILL COL	161
ST PERNARD COL	52
STILLMAN COL	730
TALLADEGA COL	829
TROY STATE UNIV	464
TUSKEGEE INST	4723
U OF ALA IN BIRMINGHAM	16,418
U OF ALA IN MONTGOMERY	866
U OF ALA IN TUSCALOOSA	3,681
UNIV OF MONTVALLO	97
UNIV OF SOUTH ALA	301
TOTAL ALABAMA	43,729
	111

ALASKA

ALASKA METHODIST UNIV	431
KODIAK COMMUNITY COLLEGE	3
SHIELDON JACKSON JR COL **	10
UNIV OF ALASKA	7,054
TOTAL ALASKA	8,601

ARIZONA

ARIZ WESTERN COL **	166
ARIZONA STATE UNIV	4,397
CENTRAL ARIZONA COL **	107
COCHISE COL **	122
EASTERN ARIZ JR COL **	218
GRAND CANYON COL	56
GRANDFAIR COMM COL **	56
MARICOPA CITY JC CEN SYSTE	42
MARICOPA TECHNICAL COL **	24
MESA COMM COL **	84
NAVAJO COMMUNITY COLLEGE **	1,093
NORTHERN ARIZ UNIV	950
PHOENIX COL **	224
PIMA COUNTY JR COLLEGE **	276
PREScott COL	63
THUNDERBIRD GRADUATE SCH	3
UNIV & ST COL ARIZ C SYSTE	2
TOTAL ARIZONA	15,805
	425
	1,064
	1,762

ARKANSAS

AG MACHINERY COL OF ARK	607
	23

TABLE C-13 CONT'D

TOTAL PREDICTED OBLIGATIONS
TO ALL UNIVERSITIES AND COLLEGES BY
STATE, INSTITUTION, AND AGENCY, FISCAL YEAR 1970
(THOUSANDS OF DOLLARS)

STATE AND INSTITUTION	TOTAL	AGR	AIC	COM	DDO	HEW	INT	NASA	NSF	OTHER
ARKANSAS										
ARM AGR & MECH COL	279									
ARM BAPTIST COL	41									
ARM COL	226									
ARM POLYTECHNIC COL	602									
ARM ST UNIV	489									
COL OF THE OZARKS	99									
CROWNBY'S LOGG COL **	66									
HARDING COL	176									
MARSHALL STATE COL	292									
MENDIX COL	67									
JOHN BROWN UNIV	67									
JAACHITA BAPTIST UNIV	325									
PHILANDER SMITH COL	493									
PHILLIPS CO COMM COLL **	484									
SHORTER COL **	120									
SOUTHERN BAPTIST COL **	123									
SOUTHERN ST COL **	796									
STATE COLLEGE OF ARKANSAS	218									
UNIV OF ARK	12,104	4,196	193	75						
WESTARK JR COL **	91	0	0	0						
TOTAL ARKANSAS	17,827	4,219	195	75						
CALIFORNIA										
ALLAN HANCOCK COL **	37									
AMER RIVER COL **	138									
ANTIOCH VALLEY COL **	23									
ARMSTRONG SCH OF BUS	23									
ART CTR COL OF DESIGN	4									
AZUSA PACIFIC COL	124									
BAKERFIELD COL **	123									
BARTON COL **	93									
BETHANY BIBLE COL	74									
BIGLA COL	163									
BUTTE COL **	29									
CABRILLO COL **	160									
CAL COL OF ARTS & CHARTS	35									
CAL COL OF PODIATRIC MED	934									
CAL INST OF TECH	17,135									
CAL INST OF THE ARTS	1,062									
CAL LUTHERAN COL	92									
CAL MARITIME ACAD	75									
CAL ST COL AT BAKERSFIELD	1,099									
CAL ST COL AT FULLERTON	1,720									
CAL ST COL AT HAYWARD	797									
CAL ST COL AT LONG BEACH	1,392									
CAL ST COL AT LOS ANGELES	2,928									

PHILADELPHIA BAPTIST UNIV	515	727
PHILANDER SMITH COL	493	493
PHILLIPS CO COMM COLL **	484	184
SHORELINE COL ***	130	130
SOUTHERN BAPTIST COL **	123	123
SOUTHWEST COL	796	796
STATE COLLEGE OF ARKANSAS	318	318
UNIV OF ARK	12,104	4,196
WESTARK JR COL ***	91	0
TOTAL ARKANSAS	17,827	4,219

CALIFORNIA

ALLAN HANCOCK COL ***
AMER RIVER COL ***
ANTELOPE VALLEY COL ***
ARMSTRONG SCH OF BUS
ART CTR COL OF DESIGN
AZUSA PACIFIC COL
BAKERSFIELD COL ***
BARTON COL ***
BETHANY BIBLE COL
BIGLIA COL
BLUFFTON COL ***
BOLARIE COL ***
CAL COL OF ARTS & CHAPTS
CAL COL OF PODIATRIC MED
INST OF TECH
CAL INST OF THE ARTS
CAL LUTHERAN COL
CAL MARITIME ACADEMY
CAL ST COL AT BAKERSFIELD
CAL ST COL AT BURTONTON
CAL ST COL AT HAYWARD
CAL ST COL AT LONG BEACH
CAL ST COL AT LOS ANGELES
CAL ST COL DOMINGUEZ HILL
CAL ST COL SAN BERNARDINO
CAL ST POLY C POMONA
CAL ST POLY C SAN LU OBIS
CANADA COL ***
CERRITOS COL ***
CHABOT COL ***
CHAPPEY COL ***
CHAPMAN COL
CHICO STATE COL
CLEARHORN GRAD SCH & UNIV
CITRUS COL ***
CITY COL OF SAN FRANCISCO ***
CLEARHORN GRAD SCH & UNIV
COL OF ALAMEDA ***
COL OF MARIN ***
COL OF NOTRE DAME
COL OF SAN MATEO ***
COL OF THE DESERT ***
COL OF THE HOLY NAMES
COL OF THE REDWOODS ***
COL OF THE SEQUOIAS ***
COL OF THE SISKIYOUS ***
COLLEGE OF THE CANYONS ***
COLUMBIA JR COL ***
COMPTON COL ***
CONSUMES RIVER COL ***
CONTRA COSTA COL ***
CORTLAND COL ***
COURTESY COL ***
CYPRESS JR COL ***
DE ANZA COLLEGE ***
DESIGN INSTITUTE CO. ***
DIXIE STATE COL ***

TABLE C-13 (CONT'D)
TOTAL FEDERAL OBLIGATIONS
TO ALL UNIVERSITIES AND COLLEGES BY
STATE, INSTITUTION, AND AGENCY, FISCAL YEAR 1970
(THOUSANDS OF DOLLARS)

STATE AND INSTITUTION	TOTAL	AGR	AEC	COM	DDO	HEW	INT	NASA	NSF	OTHER
CALIFORNIA										
OJAI VALLEY COL **	126									
DOMINICAN COL SAN RAFAEL	16									
DON BOSCO TECH INST & COL **	27									
EAST LOS ANGELES COL **	287									
EL CAMINO COL **	42									
FEATHER RIVER COLLEGE **	20									
FOOTHILL COL **	192									
FREIGHTON-NEWARK JR COL OS	900									
PRESO CITY COL **	292									
PRESO STATE COL	1,763									
PULLER THEOL SEM	41									
PULLERTON JR COL **	72									
SAVILIAN COL **	115									
SCENDALE COL **	18									
GOLDEN GATE COL	105									
GOLDEN WEST COL **	62									
GRADUATE THEOL UNION	10									
GAOSHONTZ COL **	154									
HARTMILL COL **	54									
HARVEY MUO COL	109									
HUMBERT STATE COL	517									
HUMPHREYS COL	32									
IMMACULATE HEART COL	116									
IMPENITENT VALLEY COL **	76									
JOHN F KENNEDY UNIVERSITY	17									
L A CITY JR COL CEN SYSE	144									
LA VERNE COL	60									
LAWY COL **	238									
LASSIN COL **	19									
LOMA LINDA UNIV	3,941									
LONG BEACH CITY COL **	50									
LOS ANGELES BAPT COLLEGE	21									
LOS ANGELES CITY COL **	214									
LOS ANGELES COL OF OTON	221									
LOS ANGELES HARBOR COL **	16									
LOS ANGELES PIERCE COL **	26									
LOS ANGELES SOUTHERN COL **	23									
LOS ANGELES TR TECH COL **	47									
LOS ANGELES VALLEY COL **	113									
LOYOLA UNIV LOS ANGELES	150									
MARYMOUNT COL	176									
MENLO COL	9									
MERCED COL **	651									
MILLS COL	491									

INDIAN VALLEY COL
 JOHN F KENNEDY UNIVERSITY
 LA CITY JR COL CEN SYSE
 LA VERNE COL
 LANAY COL **
 LASSEN COL **
 LOMA LINDA UNIV
 LONG BEACH CITY COL **
 LOS ANGELES BAPT COLESEUM
 LOS ANGELES CITY COL **
 LOS ANGELES COL OF OPTOM
 LOS ANGELES HARBOR COL **
 LOS ANGELES PIERCE COL **
 LOS ANGELES SOUTHWEST COL **
 LOS ANGELES TA-TECH COL **
 LOS ANGELES VALLEY COL **
 LOYOLA UNIV LOS ANGELES
 MARYPOINT COL
 MERLO COL
 MERED COL **
 MERITT COL **
 MILLS COL
 MIRA COSTA COL **
 MODesto JR COL **
 MONTEREY INST OF FOR STUO
 MONTEREY PENINSULA COL **
 MOORPARK JR COL **
 MOUNT SAM ANTONIO COLLEGE **
 MT SAN JACINTO COL **
 MT ST MARYS COL
 NAIROBI COLLEGE **
 NAPA COL **
 NORTHROP INST OF TECH
 OCCIDENTAL COL
 OMCONE COLLEGE **
 ORANGE COAST COL **
 OTIS ART INST LA CNTY
 PACIFIC CHRISTIAN COL
 PACIFIC COL
 PACIFIC OAKS COL
 PACIFIC SCH OF RELIGION
 PACIFIC UNION COL
 PALO VERDE COL **
 PALOMAR COL **
 PASADENA CITY COL **
 PASADINA COL
 PEPPERDINE COL
 PERALTA JR COL CEN SYSE
 PITZER COL
 POMONA COL
 PORTERVILLE COL **
 REDLEY COL **
 RIO MONDO JR COL **
 RIVERSIDE CITY COL **
 SACRAMENTO CITY COL
 SACRAMENTO STATE COL
 SAN BERNARDINO VALLEY COL **
 SAN DIEGO CITY COL **
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TABLE C-13 CONT'D

TOTAL FEDERAL GRANTINGS
TO ALL UNIVERSITIES AND COLLEGES BY
STATE INSTITUTION AND AGENT, FISCAL YEAR 1970
(THOUSANDS OF DOLLARS)

STATE AND INSTITUTION	TOTAL	AGR	AFC	COR	EDD	HHS	INT	MSA	NUP	OTHR
CALIFORNIA										
SAN DIEGO COLLEGE-MORRIN	10	0	0	0	0	10	0	0	0	0
SAN DIEGO JR COL CEN SYSE	891	0	0	0	0	97	0	0	0	0
SAN DIEGO MESA COL **	43	0	0	0	0	63	0	0	0	0
SAN DIEGO STATE COL	3,281	100	0	0	0	1,978	0	0	0	0
SAN FERNANDO VLY ST COL	1,983	0	0	0	0	1,972	0	0	0	0
SAN FRANCISCO ART INST	111	0	0	0	0	14	0	0	0	0
SAN FRANCISCO COL WOMEN	96	0	0	0	0	21	0	0	0	0
SAN FRANCISCO CONVY MUSIC	21	0	0	0	0	21	0	0	0	0
SAN FRANCISCO STATE COL	2,738	0	0	0	0	2,731	0	0	0	0
SAN JOAQUIN DELTA COL **	794	0	0	0	0	794	0	0	0	0
SAN JOSE STATE COL	12	0	0	0	0	12	0	0	0	0
SAN JOSE CITY COL **	209	0	0	0	0	209	0	0	0	0
SAN JOSE STATE COL	3,269	0	0	0	0	3,269	0	0	0	0
SANTA ANA COL **	94	0	0	0	0	94	0	0	0	0
SANTA BARBARA CITY COL **	115	0	0	0	0	115	0	0	0	0
SANTA MONICA CITY COL **	34	0	0	0	0	34	0	0	0	0
SANTA ROSA JR COL **	71	0	0	0	0	71	0	0	0	0
SCRIPPS COL	42	0	0	0	0	42	0	0	0	0
SHASTA COL **	79	0	0	0	0	79	0	0	0	0
SIMI VAL COL **	31	0	0	0	0	31	0	0	0	0
SIMPSON STATE COL	31	0	0	0	0	31	0	0	0	0
SKYLINE COLLEGE **	68	0	0	0	0	68	0	0	0	0
SOLANO COL **	68	0	0	0	0	68	0	0	0	0
SONOMA STATE COL	287	0	0	0	0	287	0	0	0	0
SOUTHERN CAL COL	175	0	0	0	0	175	0	0	0	0
SOUTHWEST CAL SCH THEOLOGY	13	0	0	0	0	13	0	0	0	0
SOUTHWESTERN COL **	481	0	0	0	0	481	0	0	0	0
ST. MARYS COL CALIFORNIA	81	0	0	0	0	81	0	0	0	0
ST PATRICKS COL	1	0	0	0	0	1	0	0	0	0
STANFORD UNIV	93,679	0	0	0	0	93,679	0	0	0	0
STANISLAUS STATE COL	164	0	0	0	0	164	0	0	0	0
TAFT COL. **	12	0	0	0	0	12	0	0	0	0
TAHOE COLLEGE	16	0	0	0	0	16	0	0	0	0
U.S. INTERNATIONAL UNIV	211	0	0	0	0	211	0	0	0	0
UNIV OP CAL BERKELEY	44,812	0	0	0	0	44,812	0	0	0	0
UNIV OP CAL DAVIS	15,164	0	0	0	0	15,164	0	0	0	0
UNIV OP CAL IRVINE	5,060	0	0	0	0	5,060	0	0	0	0
UNIV OP CAL LOS ANGELES	52,019	0	0	0	0	52,019	0	0	0	0
UNIV OP CAL RIVERSIDE	4,917	0	0	0	0	4,917	0	0	0	0
UNIV OP CAL SAN DIEGO	39,001	0	0	0	0	39,001	0	0	0	0
UNIV OP CAL SANTA CRUZ	1,617	0	0	0	0	1,617	0	0	0	0
UNIV OP CAL CENTRAL SYSE	6,020	0	0	0	0	6,020	0	0	0	0
UNIV OP CAL SAN FRANCISCO	26,744	0	0	0	0	26,744	0	0	0	0
UNIV OP CAL SANTA BARBARA	5,133	0	0	0	0	5,133	0	0	0	0
UNIV OP REDLANDS	299	0	0	0	0	299	0	0	0	0
UNIV OP SAN DIEGO	486	0	0	0	0	486	0	0	0	0
UNIV OP SAN FRANCISCO	73	0	0	0	0	73	0	0	0	0

SANTA BARBARA CITY COLLEGE	111	1,265	34	1,265	111
SANTA ROSA JR COLLEGE **	71	42	42	42	71
SCRIPPS COLLEGE	42	31	31	31	42
SHASTA COLLEGE **	79	31	31	31	79
SIERRA COLLEGE **	79	31	31	31	79
SIMPSON STATE COLLEGE	211	108	108	108	211
SKYLINE COLLEGE **	608	308	308	308	608
SON AND SON JR COLLEGE **	68	34	34	34	68
SONOMA STATE COLLEGE	287	143	143	143	287
SOUTHERN CAL COLLEGE	175	123	123	123	175
SOUTHWESTERN CALIFORNIA SEMINARY	12	12	12	12	12
ST MARYS COLLEGE CALIFORNIA	461	246	246	246	461
ST PATRICKS COLLEGE	61	31	31	31	61
STANFORD UNIVERSITY	93,471	47,171	47,171	47,171	93,471
STATE ISLANDS STATE COLLEGE **	1,164	582	582	582	1,164
TASC COLLEGE **	123	62	62	62	123
TAMO COLLEGE	19	11	11	11	19
U S INTERNATIONAL UNIVERSITY	211	111	111	111	211
UNIVERSITY OF CALIFORNIA BERKELEY	44,912	20,572	20,572	20,572	44,912
UNIVERSITY OF CALIFORNIA DAVIS	15,012	7,793	7,793	7,793	15,012
UNIVERSITY OF CALIFORNIA IRVING	3,640	1,656	1,656	1,656	3,640
UNIVERSITY OF CALIFORNIA LOS ANGELES	52,419	24,242	24,242	24,242	52,419
UNIVERSITY OF CALIFORNIA RIVERSIDE	4,177	2,141	2,141	2,141	4,177
UNIVERSITY OF CALIFORNIA SAN DIEGO	39,101	20,027	20,027	20,027	39,101
UNIVERSITY OF CALIFORNIA SANTA CRUZ	1,173	50	50	50	1,173
UNIVERSITY OF CALIFORNIA CENTRAL SYSTEM	60,026	30	30	30	60,026
UNIVERSITY OF CALIFORNIA SAN FRANCISCO	26,784	12,414	12,414	12,414	26,784
UNIVERSITY OF CALIFORNIA SANTA BARBARA	3,193	722	722	722	3,193
UNIVERSITY OF CALIFORNIA REDWOODS	290	233	233	233	290
UNIVERSITY OF SAN DIEGO	286	20	20	20	286
UNIVERSITY OF SAN FRANCISCO	892	0	0	0	892
UNIVERSITY OF SANTA CLARA	2,031	1,759	1,759	1,759	2,031
UNIVERSITY OF SOUTHERN CALIFORNIA	20,351	14,743	14,743	14,743	20,351
UNIVERSITY OF THE PACIFIC	2,176	1,111	1,111	1,111	2,176
VICTORIA COLLEGE **	111	43	43	43	111
WEST HILLS COLLEGE **	18	103	103	103	18
WEST LOS ANGELES COLLEGE	20	102	102	102	20
WEST VALLEY COLLEGE **	95	40	40	40	95
WISCONSIN COLLEGE **	102	0	0	0	102
WHITTIER COLLEGE **	127	0	0	0	127
YUBA COLLEGE **	71	0	0	0	71
TOTAL CALIFORNIA	349,779	6,234	6,234	6,234	349,779
COLORADO					
ADAMS STATE COLLEGE	192	164	164	164	192
ATMOS COLLEGE **	176	147	147	147	176
ATLAPACHE JR COLLEGE **	000	000	000	000	000
COLORADO MOUNTAIN COLLEGE	28	1,775	1,775	1,775	28
COLORADO SCHOOL OF MINES	15,363	2,267	2,267	2,267	15,363
COLORADO STATE UNIVERSITY	324	19	19	19	324
COMMUNITY COLLEGES OREGON **	19	19	19	19	19
EL PASO COMMUNITY COLLEGE **	19	19	19	19	19
PONTIUS LEWIS COLLEGE	66	2,629	2,629	2,629	66
SLIPP SCHOOL OF THEOLOGY	17	17	17	17	17
LAMAR COMMUNITY COLLEGE **	16	16	16	16	16
LORRETTA HEIGHTS COLLEGE **	117	117	117	117	117
MESA COLLEGE **	66	276	276	276	66
NORTHWESTERN STATE COLLEGE	73	1,270	1,270	1,270	73
OTERO JR COLLEGE **	168	397	397	397	168
RANGELY COLLEGE **	44	164	164	164	44

TABLE C-13 (CONT'D)
TOTAL FEDERAL OBLIGATIONS
TO ALL UNIVERSITIES AND COLLEGES BY
STATE, INSTITUTION, AND AGENCY, FISCAL YEAR 1970
(THOUSANDS OF DOLLARS)

STATE AND INSTITUTION	TOTAL	A&E	A&E	COM	COM	H&R	H&R	GRANT	GRANT	NET	NET	OTHER	OTHER	STATE	STATE
COLORADO															
REGIS COL.	99	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOUTHERN COLORADO ST COL.	928	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TEMPLE BELL COL.	276	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRINIDAD STATE JR COL. **	314	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UNIV OF COLORADO **	32,618	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UNIV OF DENVER	4,404	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UNIV OF NORTHERN COLORADO	1,404	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WESTERN ST COL COLORADO	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL COLORADO	39,266	0													
CONNECTICUT															
ALBERTUS MAGNUS COL.	62	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AMHERST COL.	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CENTRAL COMM ST COL.	204	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CONNECTICUT COL.	196	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EASTERN COMM STATE COL.	88	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FAIRFIELD UNIV	264	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HARTFORD COL FOR WOMEN **	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HARTFORD STATE TECH COL.	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HARVARD A&E COMM COL. **	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MATC CHESTER COMM COL. **	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MATTATUCK COMMUNITY COL. **	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MIDDLESEX COMM COL. **	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MITCHELL COL. **	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORSE OF HARTFORD **	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEW ENGLAND INST?	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEW HAVEN COL.	250	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NORTHEASTERN COMM COMM COL. **	189	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NORMAN COMM COL. **	69	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NORMAN STATE TECH COL. **	192	0	0	0	0	0	0	0	0	0	0	0	0	0	0
POST JR COL. **	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
QUINTINPIAC COL.	237	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SACRED HEART UNIV	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SILVERLAKE COL OF ART **	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOUTH CENTRAL COMM COL. **	132	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOUTHERN COMM STATE COL.	326	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ST JOSEPH COL.	92	0	0	0	0	0	0	0	0	0	0	0	0	0	0
THOMAS VALLEY ST TECH COL. **	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRINITY COL.	146	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UNIV OF BRIDGEPORT	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UNIV OF CONNECTICUT	10,631	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UNIV OF HARTFORD	643	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WATERTOWN STATE TECH COL. **	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WESTFIELD COMM STATE COL.	1,950	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YALE UNIV	35,756	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL CONNECTICUT	50,378	1,107	3,915	3,915	1,107	3,915									
DELAWARE															
BRANDYWINE COLLEGE **	144	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DELAWARE STATE COL.	477	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DELAWARE TECH & COMM COL. **	72	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GOLDCY BEACON JR COL. **	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UNIV OF ORLAWANG	3,604	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WESLY COL. **	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CONNECTICUT COL
 EASTERN COMM STATE COL
 FAIRFIELD COL FOR WOMEN #4
 HARTFORD COL FOR WOMEN #4
 HARTFORD STATE TECH COL
 Housatonic REC COMM COL #4
 HAMPTON COMM COL #4
 MATTATUCK COMMUNITY COL #4
 MIDDLESEX COMM COL #4
 MITCHELL COL #4
 HORSE OF HARTFORD #4
 NEW ENGLAND INST
 NEW HAVEN COL
 NORTHEASTERN COMM COMM COL #4
 NORWALK COMM COL #4
 NORWALK STATE TECH COL #4
 POST JR COL #4
 QUINNIPAC COL
 SACRED HEART UNIV
 SILVERMAN COL OF ART #4
 SOUTH CENTRAL COMM COL #4
 SOUTHWEST STATE COL
 ST. JOSEPH COL
 THAMES VALLEY ST TECH COL
 TRINITY COL
 UNION OF RIDGEPORT
 UNIV OF CONNECTICUT
 UNIV OF HARTFORD
 WATERBURY STATE TECH COL #4
 WESLEYAN UNIV
 WESTERN COMM STATE COL
 YALE UNIV
 TOTAL CONNECTICUT

OGLAMAR

GRANDWINE COLLEGE #10
DELAWARE STATE COL #40
DELAWARE TECH & COMM COL #40
GLENORY BEACON JR COL #40
UNIV OF DELAWARE
WESLEY COL #40
WILMINGTON COLLEGE
TOTAL DELAWARE #1

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AMERICAN UNIVERSITY
BENJAMIN FRANKLIN UNIV
CATHOLIC UNIV OF AMERICA
COL ST OF COL TECH COA
DUNBARTON COL HLY CROSS
FEDERAL CITY COA
GALLAGHT COL
GEORGE WASHINGTON UNIV
GEORGIA TOWN UNIV
HARVARD UNIV
IMMACULATA COL OF MASH #4
MOUNT VERNON JR COL #4
OMALIE COL
STRAYER COLLEGE
TRINITY COL
WASHINGTON TECHNICAL INST

TABLE C-33- CONT'D

TOTAL FEDERAL OBLIGATIONS
TO ALL UNIVERSITIES AND COLLEGES BY
STATE, INSTITUTION, AND AGENCY, FISCAL YEAR 1970
(THOUSANDS OF DOLLARS)

STATE AND INSTITUTION	TOTAL	AGR	AEC	COM	DOD	HED	INT	NASA	NSF	OTHER
OIST OF COLUMBIA										
TOTAL DISTRICT OF COLUMBIA	84,074	430	298	183	4,694	69,950	192	1,940	2,734	3,653
FLORIDA										
PARRY COL	170	0	0	0	0	0	170	0	0	0
BETHUNE-COOKMAN COL	582	0	0	0	0	0	582	0	0	0
BISCAYNE COL	61	0	0	0	0	0	61	0	0	0
BREVARD JR COL **	206	0	0	0	0	0	206	0	0	0
BROWARD JUNIOR COLLEGE **	175	0	0	0	0	0	175	0	0	0
CENTRAL FLORIDA JR COL**	536	0	0	0	0	0	536	0	0	0
CHIPOLA JR COL **	41	0	0	0	0	0	41	0	0	0
DAYTONA BEACH JR COL **	95	0	0	0	0	0	95	0	0	0
EOLSON JR COL **	29	0	0	0	0	0	29	0	0	0
EDWARO WATERS COL	245	0	0	0	0	0	245	0	0	0
EMBRY-RIDDLE AERO INST	804	0	0	0	0	0	791	0	0	13
FLAGER COLLEGE	3	0	0	0	0	0	3	0	0	0
FLORIO AGR & MECH UNIV	967	20	0	0	0	0	922	0	0	25
FLORIO ATLANTIC UNIV	1,018	0	0	0	0	0	126	0	0	616
FLORIO INST OF TECH	533	0	0	8	0	0	21	88	0	336
FLORIO JR. COL **	44	0	0	0	0	0	44	0	0	0
FLORIO KEYS JR COL **	47	0	0	0	0	0	47	0	0	0
FLORIO MEMORIAL FDL	636	0	0	0	0	0	636	0	0	0
FLORIO PRESBYTERIAN COL	303	0	0	0	0	0	281	0	0	22
FLORIO SOUTHERN COL	157	0	0	0	0	0	157	0	0	0
FLORIO STATE UNIV	12,301	0	0	1,180	29	1,649	6,196	0	0	2,917
FLORIDA TECHNOLOGICAL UNIV	322	0	9	0	25	185	185	25	78	0
GOLF COAST JR COL **	29	0	0	0	0	0	29	0	0	0
HILLSBOROUGH JR COLLEGE **	53	0	0	0	0	0	53	0	0	0
INDIAN RIVER JR COL **	118	0	0	0	0	0	118	0	0	0
JACKSONVILLE UNIV	133	0	0	0	0	0	133	0	0	0
JONES COL	103	0	0	0	0	0	103	0	0	0
LAKE CITY JR COL & FOREST **	233	0	0	0	0	0	233	0	0	0
LAKE-SUMTER JR COL **	19	0	0	0	0	0	19	0	0	0
MANATEE JR COL **	28	0	0	0	0	0	28	0	0	0
MARYMOUNT COL **	101	0	0	0	0	0	101	0	0	0
MAMI-DADE JR COL **	1,275	0	0	0	0	0	1,273	0	2	13
NEW COL	66	0	0	0	0	0	53	0	0	0
NORTH FLORIO JR COL **	195	0	0	0	0	0	195	0	0	0
NOVA UNIV	693	0	0	0	0	0	284	168	0	200
OKALOOSA-WALTON JR COL **	24	0	0	0	0	0	24	0	0	0
PALM BEACH ATLANTIC COLL	22	0	0	0	0	0	22	0	0	0
PALM BEACH JR COL **	49	0	0	0	0	0	46	0	3	0
PENSACOLA JR COL **	57	0	0	0	0	0	57	0	0	0
PULK JR COL **	3	0	0	0	0	0	3	0	0	0
ROLLINS COL	90	0	0	0	0	0	90	0	0	0
SANTA FE JR COL **	37	0	0	0	0	0	37	0	0	0
SEMINOLE JR COL **	37	0	0	0	0	0	37	0	0	0
SOUTH-EASTERN BIBLE COL	7	0	0	0	0	0	7	0	0	0
SOUTH FLORIO JR COL **	172	0	0	0	0	0	172	0	0	0
ST JOHNS RIVER JR COL **	40	0	0	0	0	0	40	0	0	0
ST JOSEPH COL OF FLORIO **	36	0	0	0	0	0	36	0	0	0
ST LEO COL	33	0	0	0	0	0	31	0	0	0
ST PETERSBURG JR COL	320	0	0	0	0	0	320	0	0	0
STETSON UNIV	362	0	0	0	0	0	17	337	0	8
TALLAHASSEE JR COL **	63	0	0	0	0	0	63	0	0	0
UNIV OF FLORIO	41,504	3,395	445	0	0	0	1,850	31,425	329	487

GEORGIA

TABLE C-13 CONT'D

TOTAL FEDERAL OBLIGATIONS
TO ALL UNIVERSITIES AND COLLEGES BY
STATE, INSTITUTION, AND AGENCY, FISCAL YEAR 1970
(THOUSANDS OF DOLLARS)

STATE AND INSTITUTION	TOTAL	AGR	AEC	COM	DOD	HEW	INT	NASA	NSF	OTHER
GEORGIA										
CLARK COL.	1,266	0	0	0	0	1,221	0	0	45	0
CLAYTON JUNIOR COLLEGE **	49	0	0	0	0	49	c	0	0	0
COLUMBUS COL.	82	0	0	0	0	80	0	0	2	0
COVENANT COL.	90	0	0	0	0	90	0	0	0	0
DALTON JR COL. **	453	0	0	0	0	453	0	0	0	0
DEKA B COL. **	61	0	0	0	0	61	0	0	0	0
EMMANUEL COL. **	28	0	0	0	0	28	0	0	0	0
EMORY UNIV	14,110	0	76	0	163	12,754	0	345	508	264
FORT VALLEY STATE COL.	612	35	0	0	0	563	0	14	0	0
GA COL AT MILLEDGEVILLE	143	0	0	0	0	113	0	0	30	0
GAINESVILLE JR COL. **	300	0	0	0	0	300	0	0	0	0
GEORGIA INST OF TECH	7,438	10	344	175	3,289	1,199	201	948	1,164	108
GEORGIA SOUTHERN COL	495	0	0	0	0	437	0	0	58	0
GEORGIA SOUTHWESTERN COL	356	0	0	0	0	342	0	0	14	0
GEORGIA STATE UNIVERSITY	663	0	0	0	26	485	0	0	147	5
GORDON MILITARY COL. **	26	0	0	0	0	26	0	0	0	0
KENNEDYAM JR COL. **	8	0	0	0	0	8	0	0	0	0
LA GRANGE COL.	64	0	0	0	0	64	0	0	0	0
MACON JR COL. **	23	0	0	0	0	20	0	0	3	0
MEDICAL COL OF GEORGIA	3,670	23	0	0	0	3,550	0	0	37	0
MERCER UNIV	1,601	0	0	0	0	1,601	0	0	0	0
MIDDLE GEORGIA COL. **	182	0	0	0	0	175	0	0	7	0
MOREHOUSE COL.	757	0	0	0	0	735	0	0	22	0
MORRIS BROWN COL.	925	0	0	0	0	881	0	0	74	0
NORMAN COL. **	106	0	0	0	0	106	0	0	0	0
NORTH GEORGIA COL.	125	0	0	0	0	125	0	0	0	0
OGLETHORPE COL.	97	0	0	0	0	50	0	0	47	0
PAIN COL.	729	0	0	0	0	727	0	0	2	0
PEACHTON COL.	66	0	0	0	0	66	0	0	0	0
REINHARDT COL. **	51	0	0	0	0	51	0	0	0	0
SAVANNAH STATE COL.	417	0	0	0	0	403	0	0	14	0
SHORTER COL.	24	0	0	0	0	17	0	0	7	0
SOUTH GEORGIA COL. **	139	0	0	0	0	135	0	0	4	0
SPelman CCL	634	0	0	0	0	634	0	0	0	0
TIFT COL.	24	0	0	0	0	24	0	0	0	0
TOCCOA FALLS INST	59	0	0	0	0	59	0	0	0	0
UNIV OF GEORGIA	16,925	6,058	649	70	459	4,935	252	25	4,366	11
UNIV SYSTEM OF GEORGIA	233	0	0	0	0	0	0	0	233	0
VALDOSTA ST COL	318	0	0	0	0	304	0	0	14	0
WEST ELYAN COL	14	0	0	0	0	14	0	0	0	0
WEST GEORGIA COL.	667	0	0	0	0	629	0	0	38	0
TOTAL GEORGIA	57,138	6,111	1,092	245	3,997	36,079	453	1,318	7,090	753
HAWAII										
CHAMINADE COL OF HONOLULU	43	0	0	0	0	43	0	0	0	0
HAWAII LOA COLLEGE	3	0	0	0	0	3	0	0	0	0
HAWAII PACIFIC COLLEGE	22	0	0	0	0	22	0	0	0	0
HONOLULU BUSINESS COL. **	11	0	0	0	0	11	0	0	0	0
MAUNAOI COL	33	0	0	0	0	33	0	0	0	0
UNIV OF HAWAII	18,682	1,123	555	107	2,169	9,301	129	1,103	4,195	1,103
TOTAL HAWAII	18,794	1,123	555	107	2,169	9,413	129	1,103	4,195	0
IDAHO										
BOISE STATE COLLEGE	378	0	0	0	0	378	0	0	0	0
COL OF IDAHO	212	0	0	0	0	183	0	0	0	0
COL OF SOUTHERN IDAHO *	355	0	0	0	0	352	0	0	0	0

KENNESAW JR COL **	8	0
LA GRANGE COL	64	0
MACON JR COL **	23	0
MEDICAL COL OF GEORGIA	3,670	0
MERCER UNIV	1,051	23
MIDDLE GEORGIA COL**	1,822	0
MOREHOUSE COL	757	0
MORRIS BROWN COL	955	0
NORMAN COL **	106	0
NORTH GEORGIA COL	125	0
OGLETHORPE COL	97	0
PAINES COL	729	0
PIEMONTE COL	66	0
REINHARDT COL **	51	0
SAVANNAH STATE COL	417	0
SHORTER COL	24	0
SOUTH GEORGIA COL**	139	0
SPELMAN COL	634	0
TIFT COL	24	0
TOCCOA FALLS INST	59	0
UNIV OF GEORGIA	16,825	6,058
UNIV SYSTEM OF GEORGIA	233	0
VALDOSTA ST COL	318	0
WESLEYAN COL	14	0
WEST GEORGIA COL	467	0
TOTAL GEORGIA	57,138	6,111
	1,092	245
		3,997
		36,079
		453
		1,318
		7,090
		753

HAWAII

CHAMOMAe COL OF HONOLULU	43	0
HAWAII LOA COLLEGE	3	0
HAWAII PACIFIC COLLEGE	22	0
HONOLULU BUSINESS COL**	11	0
HAUNAOLOU COL	33	0
UNIV OF HAWAII	18,682	1,123
TOTAL HAWAII	18,794	1,123

IDAHO

BOISE STATE COLLEGE	378	0
COL OF IDAHO	212	0
COL OF SOUTHERN IDAHO **	356	0
IDAHO STATE UNIV	1,294	26
LEWIS-CLARK NORMAL SCHOOL	50	0
NORTH IDAHO JR COL **	20	0
NORTHEAST NAZARENE COL	242	0
UNIV OF IDAHO	2,932	1,700
TOTAL IDAHO	5,484	1,700

ILLINOIS

AUGUSTANA COL	128	0
AURORA COL	39	0
BARAT COLLEGE	365	0
BELLEVILLE JR COL **	28	0
BLACK HAWK COL **	45	0
BLACKBURN COL	43	0
BRADLEY UNIV	355	0
CARL SANDBURG COL **	1,9	0
CENTRAL YMCA COMM COL **	1,226	0
CHICAGO COL OF OSTEOPATHY	592	0
CHICAGO MEDICAL SCHOOL	1,676	0

TABLE C-13 CONT'D
TOTAL FEDERAL OBLIGATIONS
TO ALL UNIVERSITIES AND COLLEGES BY
STATE, INSTITUTION, AND AGENCY, FISCAL YEAR 1970
(THOUSANDS OF DOLLARS)

STATE AND INSTITUTION	TOTAL	AGR	AEC	COM	DDO	H&W	INT	NASA	NSF	OTHER
ILLINOIS										
CHICAGO STATE COL	285	0	0	0	0	285	0	0	0	0
CITY COLLEGES OF CHICAGO **	2,615	0	0	0	0	2,598	0	0	0	0
COL OF DU PAGE **	63	0	0	0	0	63	0	0	0	0
COL OF JEWISH STUDIES	3	0	0	0	0	3	0	0	0	0
COL OF ST FRANCIS	16	0	0	0	0	16	0	0	0	0
COLLEGE OF LAKE COUNTY **	67	0	0	0	0	67	0	0	0	0
COLUMBIA COL	13	0	0	0	0	13	0	0	0	0
CONCORDIA THEOL SEM	31	0	0	0	0	31	0	0	0	0
DANVILLE JR COL **	5	0	0	0	0	5	0	0	0	0
DEPAUL UNIV	1,008	0	0	0	0	75	0	0	0	0
EASTERN ILLINOIS UNIV	530	0	0	0	0	901	0	0	0	0
ELGIN COMM COL **	35	0	0	0	0	411	0	0	0	0
ELMHURST COL	85	0	0	0	0	35	0	0	0	0
EUREKA COL	94	0	0	0	0	73	0	0	0	0
GARRETT BIBLICAL INST	9	0	0	0	0	92	0	0	0	0
GEORGE WILLIAMS COL	121	0	0	0	0	121	0	0	0	0
GREENVILLE COL	169	0	0	0	0	77	0	0	0	0
HEBREW THEOL COL	32	0	0	0	0	32	0	0	0	0
HIGHLAND COMM COL **	35	0	0	0	0	35	0	0	0	0
ILL COL OF PODIATRIC MED	236	0	0	0	0	236	0	0	0	0
ILLINOIS CENTRAL COL **	63	0	0	0	0	63	0	0	0	0
ILLINOIS COL OF OPTOMETRY	47	0	0	0	0	45	0	0	0	0
ILLINOIS INST OF TECH	558	0	0	0	0	458	0	0	0	0
ILLINOIS ST UNIV	7,408	0	0	0	0	3,603	0	0	0	0
ILLINOIS WESLEYAN UNIV	1,218	0	0	0	0	23	0	0	0	0
JOHN A LOGAN COLLEGE **	147	0	0	0	0	9	0	0	0	0
JOLIET JR COL **	12	0	0	0	0	145	0	0	0	0
JUDSON COL	30	0	0	0	0	12	0	0	0	0
KANKAKEE COMMUNITY COL **	38	0	0	0	0	30	0	0	0	0
KASKASKIA COL **	15	0	0	0	0	38	0	0	0	0
KENDALL COL **	29	0	0	0	0	15	0	0	0	0
KISHWAKEE COL **	140	0	0	0	0	135	0	0	0	0
KNOX COL	21	0	0	0	0	21	0	0	0	0
LAKE FOREST COL	563	0	0	0	0	46	0	0	0	0
LAKE LAND COL **	230	0	0	0	0	117	0	0	0	0
LEWIS COL	325	0	0	0	0	325	0	0	0	0
LINCOLN CHRISTIAN COL	129	0	0	0	0	119	0	0	0	0
LINCOLN COL **	15	0	0	0	0	15	0	0	0	0
LINCOLN LAND JR COLLEGE **	15	0	0	0	0	15	0	0	0	0
LOYOLA UNIV	1,017	0	0	0	0	1,017	0	0	0	0
MACMURRAY COL **	5,149	0	0	0	0	55	0	0	0	0
MARYKNOX COL	13	0	0	0	0	197	0	0	0	0
MCCORMICK THEOL SEM	8	0	0	0	0	13	0	0	0	0
MCHENRY COUNTY COL **	26	0	0	0	0	8	0	0	0	0
MCKENOREE COL	52	0	0	0	0	24	0	0	0	0
MILLIKIN UNIV	501	0	0	0	0	52	0	0	0	0
MONMOUTH COL	84	0	0	0	0	501	0	0	0	0
						17	0	0	0	0

TABLE C-13 CONT'D

TOTAL FEDERAL OBLIGATIONS
TO ALL UNIVERSITIES AND COLLEGES BY
STATE, INSTITUTION, AND AGENCY, FISCAL YEAR 1970
(THOUSANDS OF DOLLARS)

STATE AND INSTITUTION	TOTAL	AGR	AEC	COM	DOD	HEN	INT	NASA	NSF	OTHER
ILLINOIS										
ST XAVIER COL	268	0	0	0	0	258	0	0	10	0
THORNTON COMMUNITY COL **	118	0	0	0	0	118	0	0	0	0
TOLENTINE COL	8	0	0	0	0	8	0	0	0	0
TRINITY CHRISTIAN COL	78	0	0	0	0	78	0	0	0	0
TRINITY COL	167	0	0	0	0	167	0	0	0	0
TRITON COL **	145	0	0	0	0	145	0	0	0	0
UNIV OF CHICAGO	39,597	0	5,017	125	1,610	23,655	75	2,807	6,230	78
UNIV OF ILL CEN SYS*	511	0	0	0	0	0	0	0	25	486
UNIV OF ILLINOIS-CHGO CIR	2,312	0	33	0	512	931	0	45	641	150
UNIV OF ILLINOIS-MED CTR	8,821	0	0	0	8,766	0	0	55	0	341
UNIV OF ILLINOIS-URBANA	43,198	5,629	4,247	0	12,878	11,312	408	782	7,801	341
WABASH VALLEY COL **	36	0	0	0	0	36	0	0	0	0
WAUBONSEE COMMUNITY COL **	5	0	0	0	0	5	0	0	0	0
WESTERN ILLINOIS UNIV	335	12	0	0	0	119	0	0	204	0
WHEATON COL	78	0	0	0	0	74	0	0	4	0
WILLIAM RAINY HARPER COL **	81	0	0	0	0	81	0	0	0	0
WINSTON CHURCHILL COL **	151,674	5,479	9,334	125	18,589	87,754	550	4,833	23,093	1,417
TOTAL ILLINOIS										
INDIANA										
ANCILLA DOMINI COL **	3	0	0	0	0	3	0	0	0	0
ANDERSON COL	270	0	0	0	0	270	0	0	0	0
BALL STATE UNIV	1,513	0	0	0	0	1,073	0	0	500	0
DETHEL COL	43	0	0	0	0	43	0	0	0	0
BUTLER UNIV	144	0	0	0	0	108	0	0	36	0
CHRISTIAN THEOL SEM	94	0	0	0	0	94	0	0	0	0
OEPAU UNIV	196	0	0	0	0	120	13	0	63	0
FARLHAM COL	407	0	0	0	0	292	0	0	115	0
FORT WAYNE ART INSTITUTE	22	0	0	0	0	22	0	0	0	0
FRANKLIN COL	185	0	0	0	0	140	0	0	45	0
GOSHEN COL	245	0	0	0	0	245	0	0	0	0
GRACE THEOL SEM	109	0	0	0	0	109	0	0	0	0
HANOVER COL	4	0	0	0	0	0	0	0	4	0
HUNTINGTON COL	111	0	0	0	0	111	0	0	0	0
INDIANA CENTRAL COL	47	0	0	0	0	47	0	0	0	0
INDIANA INST OF TECH	76	0	0	0	0	42	0	0	34	0
INDIANA STATE UNIV	1,959	10	0	0	0	1,921	0	0	28	0
INDIANA UNIV-BLOOMINGTON	14,678	9	272	0	0	766	8,101	22	4,369	645
INDIANA UNIV-FORT WAYNE	6	0	0	0	0	6	0	0	0	0
INDIANA UNIV-INDIANAPOLIS	11,290	0	17	0	0	11,211	0	0	62	0
INDIANA UNIV-KOKOMO	10	0	0	0	0	10	0	0	0	0
INDIANA UNIV-NORTHWEST	121	0	0	0	0	113	0	0	8	0
INDIANA UNIV-SOUTH BEND	6	0	0	0	0	6	0	0	0	0
INDIANA UNIV-SOUTHEAST	12	0	0	0	0	12	0	0	0	0
MANCHESTER COL	139	0	0	0	0	127	0	0	12	0
MARIAN COL	260	0	0	0	0	260	0	0	0	0
MARION COL	231	0	0	0	0	231	0	0	0	0
OAKLAND CITY COL	62	0	0	0	0	42	0	0	0	0
PURDUE UNIV	23,490	5,625	1,682	0	0	2,222	7,907	711	4,585	398
ROSE POLYTECH INST	124	0	0	0	0	80	0	0	23	0
ST FRANCIS COL	40	0	0	0	0	40	0	0	0	0
ST JOSEPHS COL	198	0	0	0	0	188	0	0	10	0
ST MARY-OF-THE-WOODS COL	21	0	0	0	0	21	0	0	0	0
ST MARYS COL	99	0	0	0	0	97	0	0	2	0
ST MENNAD COL	27	0	0	0	0	27	0	0	0	0
ST MENNAD SCH - THEOLOGY	4	0	0	0	0	4	0	0	0	0

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AMERICAN BUSINESS

AQUINAS INSTITUTE
AREA SIX COMMUNITY COL **
BRIAR CLIFF COL
BUENA VISTA COL
CENTRAL COL
CLARKE COL
COE COL
COL OF OSTEOPATH MED SURG
CORNELL COL
DES MOINES AREA COMM COL **

TABLE C-13 CONT'D

TOTAL FEDERAL OBLIGATIONS
TO ALL UNIVERSITIES AND COLLEGES BY
STATE, INSTITUTION, AND AGENCY, FISCAL YEAR 1970
(IN THOUSANDS OF DOLLARS)

STATE AND INSTITUTION	TOTAL	AGR	AEC	COM	DDO	HEW	INT	HSA	NSF	OTHER
IOWA										
DIVINE WORD COL	33	0	0	0	0	33	0	0	0	0
DORDT COL	1,677	0	0	0	0	154	0	0	13	0
DRAKE UNIV	733	0	0	0	0	530	0	0	203	0
EASTERN IOWA COMM COL **	458	0	0	0	0	458	0	0	0	0
GRACELAND COL	200	0	0	0	0	200	0	0	0	0
GRANVIEW COL **	50	0	0	0	0	50	0	0	0	0
GRINNELL COL	92	0	0	0	0	58	0	0	34	0
INDIAN HILLS COMMUNITY CO **	3	0	0	0	0	3	0	0	0	0
IOWA CENTRAL COMM COL **	41	0	0	0	0	41	0	0	0	0
IOWA LAKES COMMUNITY COL **	489	0	0	0	0	489	0	0	0	0
IOWA ST U OF SCIENCE & TECH	10,963	4,729	55	0	0	3,03	459	37	967	509
IOWA WESLEYAN COL	98	0	0	0	0	83	0	0	15	0
IOWA WESTERN COMM COL **	58	0	0	0	0	58	0	0	0	0
KIRKWOOD COMMUNITY COLL **	82	0	0	0	0	68	0	0	14	0
LORAS COL	198	0	0	0	0	184	0	0	14	0
LUTHER COL	545	0	0	0	0	497	0	0	48	0
MARYREST COL	173	0	0	0	0	160	0	0	13	0
MIDWESTERN COL	61	0	0	0	0	61	0	0	0	0
MORNINGSIDE COL	213	0	0	0	0	213	0	0	0	0
MT MERCY COL	63	0	0	0	0	63	0	0	0	0
MT ST CLARE COL **	10	0	0	0	0	10	0	0	0	0
NORTH IOWA AREA COMM COL. **	117	0	0	0	0	117	0	0	0	0
NORTHWESTERN COL	118	0	0	0	0	118	0	0	0	0
OTTUMWA HEIGHTS COL **	67	0	0	0	0	67	0	0	0	0
PALMER JR COL **	4	0	0	0	0	4	0	0	0	0
PARSONS COL	47	0	0	0	0	47	0	0	0	0
SIMPSON COL	146	0	0	0	0	140	0	0	6	0
SOUTHEASTERN IOWA COMM COL **	35	0	0	0	0	35	0	0	0	0
SOUTHWESTERN COMM COLLEGE **	23	0	0	0	0	23	0	0	0	0
ST. AMBROSE COL	57	0	0	0	0	54	0	0	3	0
UNIV OF DUBUQUE	84	0	0	0	0	80	0	0	4	0
UNIV OF IOWA	20,410	11	95	1,086	15,239	88	0	0	1,841	146
UNIV OF NORTHERN IOWA	1,398	0	0	0	1,036	0	0	0	357	0
UPPER IOWA UNIV	120	0	0	0	0	120	0	0	0	0
VENNARO COL	74	0	0	0	0	74	0	0	0	0
WALDORF COL **	104	0	0	0	0	104	0	0	0	0
WARTBURG COL	159	0	0	0	0	157	0	0	2	0
WESTMAR COL	130	0	0	0	0	128	0	0	2	0
WILLIAM PENN COL	37	0	0	0	0	37	0	0	0	0
TOTAL IOWA	39,996	4,740	0	1,690	26,620	547	0	1,941	3,648	655
KANSAS										
ALLEN COUNTY COMM JR COL **	16	0	0	0	0	0	0	0	16	0
BAKER UNIV	35	0	0	0	0	0	0	0	35	0
BARTON CNTY COMM JR COL **	46	0	0	0	0	0	0	0	46	0
BETHANY COL	45	0	0	0	0	0	0	0	43	0

STATE	COUNTY	NAME	TYPE	COLLEGE	STUDENTS
KANSAS	WICHITA COUNTY COL	KIRKWOOD COMMUNITY COLL **	COMM	82	14
LORAS COL	MORNINGSIDE COL	LORAS COL	COMM	198	14
LUTHER COL	MT MERCY COL	LUTHER COL	COMM	545	48
MARYCREST COL	MT ST CLARE COL **	MARYCREST COL	COMM	173	13
MIDWESTERN COL	NORTHWESTERN COL	MIDWESTERN COL	COMM	61	0
MORNINGSIDE COL	OTTIMA HEIGHTS COL **	MORNINGSIDE COL	COMM	213	0
MT MERCY COL	PALMER JR COL **	MT MERCY COL	COMM	63	0
MT ST CLARE COL **	PARSONS COL	MT ST CLARE COL **	COMM	10	0
SOUTHEASTERN IOWA COMM COLLEGE **	SIMPSON COL	SOUTHEASTERN IOWA COMM COLLEGE **	COMM	35	0
SOUTHWESTERN COMM COLLEGE **	ST AMBROSE COL	SOUTHWESTERN COMM COLLEGE **	COMM	23	0
UNIV OF DUBUQUE	UNIV OF IOWA	ST AMBROSE COL	COMM	57	0
UNIV OF NORTHERN IOWA	UPPER IOWA UNIV	UNIV OF DUBUQUE	COMM	84	3
UNIV OF NORTHERN IOWA	VENNARD COL	UNIV OF IOWA	COMM	11	0
VALDORF COL **	WALDRIP COL	UNIV OF NORTHERN IOWA	COMM	95	4
WARTBURG COL	WILLIAM PENN COL	VALDORF COL **	COMM	106	0
WESTMAR COL	WILLIAM PENN COL	WARTBURG COL	COMM	159	0
WILLIAM PENN COL	TOTAL IOWA	WESTMAR COL	COMM	130	0
		WILLIAM PENN COL	COMM	37	0
		TOTAL IOWA	COMM	39,990	655
KANSAS	ALLEN COUNTY COMM JR COL **	BAKER UNIV	COMM	16	0
BARTON CNTY COMM JR COL **	BETHANY COL	BARTON CNTY COMM JR COL **	COMM	35	0
BETHANY COL	BETHEL COL	BETHANY COL	COMM	46	2
BUTLER COUNTY COMM JR COL **	CENTRAL COL **	BUTLER COUNTY COMM JR COL **	COMM	334	12
CLOUD COUNTY COMM JR COL **	COFFEEVILLE COMM JR COL **	CENTRAL COL **	COMM	50	0
COFFEEVILLE COMM JR COL **	COL OF EMPIORIA	CLOUD COUNTY COMM JR COL **	COMM	41	0
COLBY COMM JR COL **	COMLEY COUNTY COMM JR COL **	COFFEEVILLE COMM JR COL **	COMM	37	0
DOODGE CITY COMM JR COL **	DODGE CITY COMM JR COL **	COLBY COMM JR COL **	COMM	45	0
DONNELLY COL **	FORT MAYS KANSAS ST COL	COMLEY COUNTY COMM JR COL **	COMM	29	0
FORT SCOTT COMM JR COL **	FORT MAYS KANSAS ST COL	DODGE CITY COMM JR COL **	COMM	15	0
FRIENDS UNIV	GARDEN CITY COMM JR COL **	DODGE CITY COMM JR COL **	COMM	168	0
GARDEN CITY COMM JR COL **	HESSTON COL **	DODGE CITY COMM JR COL **	COMM	13	0
HIGHLAND COMM JR COL **	HOTCHINSON COMM JR COL **	FORT MAYS KANSAS ST COL	COMM	550	0
INDEPENDENCE COMM JR COL **	JOHNSON CO COMMUNITY COLL **	FORT SCOTT COMM JR COL **	COMM	28	0
JOHNSON CO COMMUNITY COLL **	KANS CITY KANS COM JR COL **	FRIENDS UNIV	COMM	129	2
KANS CITY KANS COM JR COL **	KANS ST COL OF PITTSBURG	GARDEN CITY COMM JR COL **	COMM	7	0
KANS ST COL OF PITTSBURG	KANSAS STATE TECHRS COL	HESSTON COL **	COMM	161	0
KANSAS STATE TECHRS COL	KANSAS STATE UNIV	HIGHLAND COMM JR COL **	COMM	15	0
KANSAS TECHNICAL INST **	KANSAS WESLEYAN UNIV.	HOTCHINSON COMM JR COL **	COMM	15	0
KANSAS WESLEYAN UNIV.	LABELLE COMM JR COL **	INDEPENDENCE COMM JR COL **	COMM	25	0
LABELLE COMM JR COL **	MANHATTAN BIBLE COL	JOHNSON CO COMMUNITY COLL **	COMM	228	3
MANHATTAN BIBLE COL	MARYMONT COL	KANS CITY KANS COM JR COL **	COMM	11	0
MARYMONT COL	MCPHERSON COL	KANS ST COL OF PITTSBURG	COMM	372	0
MID-AMERICAN NAZARENE COL	MILTONWALE WESLEYAN COL	KANSAS STATE TECHRS COL	COMM	641	106
MILTONWALE WESLEYAN COL	MOUNT ST SCHOLASTICA COL	KANSAS STATE UNIV	COMM	600	238
MOUNT ST SCHOLASTICA COL	NEOSHO COUNTY COMM JR COL	KANSAS TECHNICAL INST **	COMM	3,108	54
NEOSHO COUNTY COMM JR COL	NEOSHO COUNTY COMM JR COL	KANSAS WESLEYAN UNIV.	COMM	0	0
		LABELLE COMM JR COL **	COMM	0	0
		MANHATTAN BIBLE COL	COMM	0	0
		MARYMONT COL	COMM	216	0
		MCPHERSON COL	COMM	38	0
		MID-AMERICAN NAZARENE COL	COMM	35	0
		MILTONWALE WESLEYAN COL	COMM	17	0
		MOUNT ST SCHOLASTICA COL	COMM	226	0
		NEOSHO COUNTY COMM JR COL	COMM	14	0

TABLE C-13 CONT'D

TOTAL FEDERAL OBLIGATIONS
TO ALL UNIVERSITIES AND COLLEGES BY
STATE, INSTITUTION, AND AGENCY, FISCAL YEAR 1970
(THOUSANDS OF DOLLARS)

STATE AND INSTITUTION	TOTAL	AGR	AEC	COM	DOD	HEW	INT	NASA	NSF	OTHER
KANSAS										
OTTAWA UNIV	162	0	0	0	0	160	0	0	2	0
PRATT COMM JR COL **	29	0	0	0	0	29	0	0	0	0
SACRED HEART COL	341	0	0	0	0	341	0	0	0	0
SEWARD CO COMMUNITY JR COL **	22	0	0	0	0	22	0	0	0	0
SOUTHWESTERN COL	56	0	0	0	0	56	0	0	0	0
ST BENEDICTS COL	81	0	0	0	0	65	0	0	16	0
ST JOHNS COL **	5	0	0	0	0	5	0	0	0	0
ST MARY COL	71	0	0	0	0	71	0	0	0	0
ST MARY OF THE PLAINS COL	65	0	0	0	0	65	0	0	0	0
STERLING COL	53	0	0	0	0	51	0	0	2	0
TABOR COL	93	0	0	0	0	90	0	0	3	0
UNIV OF KANSAS	14,145	1	453	0	623	10,696	124	515	1,563	170
WASHBURN UNIV OF TOPEKA	313	0	0	0	0	243	0	0	70	0
WICHITA STATE UNIV	963	0	23	0	0	878	0	0	62	0
TOTAL KANSAS	29,729	3,079	910	0	1,223	19,894	339	569	3,343	372
KENTUCKY										
ALICE LLOYD COL **	422	0	0	0	0	420	0	0	2	0
ASBURY COL	81	0	0	0	0	55	0	0	26	0
ASBURY THEOL SEM	19	0	0	0	0	19	0	0	0	0
BELLARMINE-URSULINE COL	384	0	0	0	13	350	0	0	21	0
Berea COL	445	0	0	0	0	408	0	0	1	36
BRENTA COL	78	0	0	0	0	76	0	0	2	0
CAMPBELLSVILLE COL	164	0	0	0	0	162	0	0	2	0
CENTRE COL OF KENTUCKY	76	0	0	0	0	59	0	0	17	0
CUMBERLAND COL	258	0	0	0	0	258	0	0	0	0
EASTERN KENTUCKY UNIV	1,670	0	0	0	0	1,086	0	0	54	528
GEORGETON COL	-133	0	0	0	0	127	0	0	66	0
HAZARD COUNTY COLLEGE	148	0	0	0	0	148	0	0	0	0
KENTUCKY STATE COL	273	0	0	0	0	244	0	0	10	0
KENTUCKY WESLEYAN COL	21	0	0	0	0	21	0	0	0	0
LEES JR COL **	668	0	0	0	0	668	0	0	0	0
LOUISVILLE PRES THEOL SEN	7	0	0	0	0	7	0	0	0	0
MADISONVILLE COMM COLLEGE **	3	0	0	0	0	3	0	0	0	0
MIDWAY JR COL **	137	0	0	0	0	137	0	0	0	0
MOREHEAD STATE UNIV	1,821	0	0	0	0	1,564	0	0	50	201
MURRAY STATE UNIV	945	0	0	0	0	798	0	0	147	0
PIKEVILLE COL	75	0	0	0	0	75	0	0	0	0
SOUTHEASTN CHRISTIAN COL **	14	0	0	0	0	14	0	0	0	0
SPALDING COLLEGE	252	0	0	0	0	252	0	0	0	0
ST CATHERINE COL **	25	0	0	0	0	25	0	0	0	0
SUE BENNETT COL **	3	0	0	0	0	3	0	0	0	0
THOMAS MORE COL	160	0	0	0	0	87	0	0	73	0
TRANSYLVANIA UNIVERSITY	116	0	0	0	0	116	0	0	0	0
UNION COL	299	0	0	0	0	299	0	0	0	0
UNIV OF KENTUCKY	16,063	6,269	93	0	0	856	8,020	211	279	969
UNIV OF LOUISVILLE	5,061	0	0	0	0	267	5,035	0	0	43
WESTERN KENTUCKY UNIV	918	0	0	0	0	905	0	0	182	77
TOTAL KENTUCKY	32,039	6,288	99	0	1,136	21,443	211	575	279	885

KENTUCKY

ALICE LLOYD COL **	422
ASBURY COL	81
ASBURY THEOL SEM	19
BELLARMIN-E-URSULINE COL	384
BEREA COL	445
BRECKA COL	78
CAMPBELLSVILLE COL	164
CENTRE COL OF KENTUCKY	258
EASTERN KENTUCKY UNIV	1,670
GEORGETOWN COL	133
HAZARD COUNTY COLLEGE	148
KENTUCKY STATE COL	273
KENTUCKY WESLEYAN COL	21
LEES JR COL **	668
Louisville Pres Theol Sem	7
MADISONVILLE COMM COLLEGE-HC	3
MIDWAY JR COL **	137
MOREHEAD STATE UNIV	1,321
MURRAY STATE UNIV	945
PIKEVILLE COL	75
SOUTHEASTN CHRISTIAN COL **	14
SPALDING COLLEGE	252
ST CATHERINE COL **	25
SUE BENNETT COL **	3
THOMAS MORE COL	160
TRANSYLVANIA UNIVERSITY	116
UNION COL	299
UNIV OF KENTUCKY	16,863
UNIV OF LOUISVILLE	5,561
WESTERN KENTUCKY UNIV	918
TOTAL KENTUCKY	32,039

LOUISIANA

CENTENARY COLL OF LOUIS	60
DELGADO COL **	314
DILLARD UNIV	788
FRANCIS T NICHOLLS ST COL	319
GRAMBLING COL	1,254
LA ST UNIV BATON ROUGE	11,648
LA ST UNIV NEW ORLEANS	1,308
LA ST UNIV MEDICAL CTR	2,915
LA ST UNIV MEDICAL CTR	86
LOUISIANA COL	66
LOUISIANA TECH UNIVERSITY	737
LOYOLA UNIV	616
LSU CENTRAL SYSTEM*	645
MCNEESE STATE COL	281
NORTHEAST LOUISIANA UNIV	1,530
NORTHWESTERN ST COL OF LA	568
SAINT BERNARD PARISH CC **	500
SOUTHEASTERN LA COL	226
SOUTHERN UNIV	2,730
ST JOSEPH SEM	10
ST MARYS DOMINICAN COL	42
TULANE UNIV	13,445
UNIV OF SOUTHWESTERN LA	524
XAVIER U OF LOUISIANA	1,372
TOTAL LOUISIANA	42,064

MAINE
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TOTAL FEDERAL OBLIGATIONS
TO ALL UNIVERSITIES AND COLLEGES BY
STATE, INSTITUTION, AND AGENCY, FISCAL YEAR 1970
(THOUSANDS OF DOLLARS)

STATE AND INSTITUTION	TOTAL	AGR	AEC	COM	DDO	HED	INT	NASA	NSF	OTHER
MAINE										
BATES COL.	64	0	0	0	0	0	62	2	336	95
BONDIN COL.	698	0	0	0	10	51	141	0	0	0
COLBY COL.	154	0	0	0	0	0	35	0	0	0
FARMINGTON STATE COL.	161	0	0	0	0	0	285	0	0	0
PORT KENT STATE COL.	35	0	0	0	0	0	54	0	0	0
GORHAM STATE COL.	285	0	0	0	0	0	62	0	0	0
MUSSON COL.	54	0	0	0	0	0	16	0	0	0
MAINE MARITIME ACADEMY	137	0	0	0	75	0	164	0	0	0
MASSON COL.	164	0	0	0	0	0	17	0	0	0
NORTHERN CONSERV OF MUSIC	17	0	0	0	0	0	23	0	0	0
RICKER COL.	23	0	0	0	0	0	0	0	0	0
SOUTHERN ME VOC TECH INST	16	0	0	0	0	0	0	0	0	0
ST FRANCIS COL.	50	0	0	0	0	0	50	0	0	0
ST JOSEPHS COL.	24	0	0	0	0	0	24	0	0	0
THOMAS COL.	48	0	0	0	0	0	48	0	0	0
UNITY COLLEGE	3	0	0	0	0	0	3	0	0	0
UNIV OF MAINE ORONO	4,191	1,057	0	0	10	2,025	158	30	295	12
WASHINGTON STATE COL.	38	0	0	0	0	0	38	0	0	0
WESTBROOK JR COL.	63	0	0	0	0	0	63	0	0	0
TOTAL MAINE	6,254	1,057	0	0	75	36	3,538	158	744	12
MARYLAND										
ALLEGANY COMM COL.**	125	0	0	0	0	0	122	0	0	0
ANNE ARUNDEL COMM COL.**	26	0	0	0	0	0	26	4	0	0
BALTIMORE COL. OF COMMERCE	4	0	0	0	0	0	457	6	0	0
BONIE STATE COL.	490	0	0	0	0	0	728	0	0	0
CAPITOL INST OF TECH	6	0	0	0	0	0	13	0	0	0
CATONSVILLE COMM COL.**	745	0	0	0	0	0	12	0	0	0
CECIL COMMUNITY COLLEGE **	13	0	0	0	0	0	0	0	0	0
CHARLES COUNTY COMM COL.**	32	0	0	0	0	0	21	0	0	0
CHESAPEAKE COLLEGE **	41	0	0	0	0	0	29	0	0	0
COL. OF NOTRE DAME OF MD	18	0	0	0	0	0	18	0	0	0
COLUMBIA UNION COL.	151	0	0	0	0	0	142	0	0	0
CONN COL OF BALTIMORE **	243	0	0	0	0	0	243	0	0	0
COPPIN STATE COL.	395	0	0	0	0	0	385	0	0	0
ESSEX COMM COL.**	75	0	0	0	0	0	75	0	0	0
FREDERICK COMM COL.**	9	0	0	0	0	0	9	0	0	0
FROSTBURG STATE COL.	104	0	0	0	0	0	100	0	0	0
GOUCHER COL.	133	0	0	0	0	0	93	0	0	0
HAGERSTOWN JR COL.**	78	0	0	0	0	0	78	0	0	0
HARFORD JR COL.**	36	0	0	0	0	0	34	0	0	0
HODD COL.	20	0	0	0	0	0	20	0	0	0
JOHNS HOPKINS UNIV	36,177	2,9	0	0	0	0	52	2,367	29,706	45
LOYOLA COL.	159	0	0	0	0	0	0	0	149	0
MARYLAND INST COL OF ART	81	0	0	0	0	0	81	0	0	0
MONTGOMERY COL-ROCKVILLE **	85	0	0	0	0	0	83	0	0	0

SOUTHERN ME VOC TECH INST	15
ST FRANCIS COL	50
ST JOSEPHS COL	24
THOMAS COL	48
UNITY COLLEGE	3
UNIV OF MAINE ORONO	4,191
WASHINGTON STATE COL	380
WESTBROOK JR COL	63
TOTAL MAINE	6,254

MARYLAND

ALLEGANY COMM COL**	125
ANNE ARUNDEL COMM COL**	26
BALTIMORE COL OF COMMERCE	4
BONNIE STATE COL	490
CAPITOL INST OF TECH	6
CATONSVILLE COMM COL**	745
CECIL COMMUNITY COLLEGE **	13
CHARLES COUNTY COMM COL **	32
CHESAPEAKE COLLEGE **	41
COL OF NOTRE DAME OF MD	18
COLUMBIA UNION COL	151
COMM COL OF BALTIMORE **	243
COPPIN STATE COL	385
ESSEX COMM COL **	75
FREDERICK COMM COL **	9
FROSTBURG STATE COL	166
Goucher COL	133
HAGERSTOWN JR COL **	78
HARFORD JR COL **	34
HODD COL	20
JOHNS HOPKINS UNIV	36,177
LOYOLA CR	159
MARYLAND INST COL OF ART	81
MONTGOMERY COL-ROCKVILLE **	85
MORGAN STATE COL	1,076
MT PROVIDENCE JR COL **	45
MT ST AGNES COL	65
MT ST MARY'S COL	17
NER ISRAEL RABINICAL COL	41
PEABODY CONSERV OF MUSIC	41
PRINCE GEORGES COMM COL **	87
SALISBURY STATE COL	30
ST JOHNS COL	25
ST JOSEPH COL	100
ST MARY'S COL OF MD	23
TOWSON STATE COL	372
UNIV OF BALTIMORE	32
UNIV OF MARYLAND	27,846
VILLA JULIE COL **	276
WASHINGTON COL	34
WESTERN MARYLAND COL	145
WOODSTOCK COL	33
TOTAL MARYLAND	69,546

AMERICA INTL COL	125
AMHFEST COL	555
ANDOVER NEWTON THEOL SCH	34
YMA MARIA COL FOR WOMEN	47
AQUINAS JR COL OF BUS **	11
ASSUMPTION COL	239
ATLANTIC UNION COL	225
DARSON COLLEGE	24
BAY PATH JR COL **	31
BAY STATE JR COL BUSINESS **	11

MASSACHUSETTS

AMERICAN INTL COL	125
AMHFEST COL	555
ANDOVER NEWTON THEOL SCH	34
YMA MARIA COL FOR WOMEN	47
AQUINAS JR COL OF BUS **	11
ASSUMPTION COL	239
ATLANTIC UNION COL	201
DARSON COLLEGE	225
BAY PATH JR COL **	24
BAY STATE JR COL BUSINESS **	31

TABLE C-13 CONT'D

TOTAL FEDERAL OBLIGATIONS
TO ALL UNIVERSITIES AND COLLEGES BY
STATE, INSTITUTION, AND AGENCY, FISCAL YEAR 1970
(THOUSANDS OF DOLLARS)

STATE AND INSTITUTION	TOTAL	AGR	AEC	COM	DOD	HEN	INT	NASA	NSF	OTHER
MASSACHUSETTS										
BECKER JR COL **	4									
BENTLEY COL OF ACCT & FIN	147									
BERKSHIRE CHRISTIAN COL	14									
BERKSHIRE COMM COL **	35									
BOSTON ARCHITECTURAL CTR	3									
BOSTON COL	5,548									
BOSTON CONSERV OF MUSIC	3									
BOSTON STATE COLLEGE	181									
BOSTON UNIV	15,764									
BRAFORD JR COL **	3									
BRANDEIS UNIV	7,421									
BRIDGEWATER STATE COLLEGE	288									
BRISTOL COMM COL **	475									
BRYANT-HCINTOSH JC-BUS **	9									
BURDOTT COL **	5									
CAMBRIDGE JR COL **	7									
CAPE COD COMM COL **	49									
CARDINAL CUSHING COL	8									
CLARK UNIV	1,627									
COL OF OUR LADY OF ELMS	65									
COL OF THE HOLY CROSS	460									
CURRY COL	43									
DEAN JR COL **	22									
EASTERN NAZARENE COL	259									
EMERSON COL	173									
EMMANUEL COL	566									
FISHER JR COL **	12									
FITCHBURG STATE COLLEGE	105									
FRAMINGHAM STATE COLLEGE	126									
FRANKLIN INST OF BOSTON **	1									
GARLAND JR COL **	7									
GORDON COL	162									
GRAHAM JR COL **	76									
GREENFIELD COMM COL **	178									
HAMPshire COLLEGE	134									
HARVARD UNIV	55,562									
HEBREW TCHR COL	12									
HELLENIC COL	54									
HOLYoke COMM COL **	30									
LASEL JR COL **	3									
LEICESTER JR COL **	18									
LESLEY COL	20									
LONEILL STATE COLLEGE	129									
LONEILL TECHNOLOGICAL INST	963									
MASS BAY COMM COL **	1,104									
MASS COL OF ART	69									
MASS COL OF OPTOMETRY	458									
MASS COL OF PHARMACY	324									
MASS INST OF TECH	100-177									
MASS MARITIME ACAO	75									
MASSASOIT COMM COL **	38									
MERRIMACK COL	136									
MOUNT IADA JR COL **	7									

CARDINAL CUSHING COL	
CLARK UNIV	1,627
COL OF CUR LADY OF ELM	65
COL OF THE HOLY CROSS	460
CURRY COL	43
DEAN JR COL**	22
EASTERN NAZARENE COL	259
FISHER JR COL**	173
FITCHBURG STATE COLLEGE	105
FORSTH SCH DENT HYGNSTS **	50
FRAMINGHAM STATE COLLEGE	126
FRANKLIN INST OF BOSTON **	1
GARLAND JR COL**	7
GORDON COL	162
GRAHAM JR COL**	76
GREENFIELD COMM COL **	178
HAMPSHIRE COLLEGE	134
HARVARD UNIV	55,562
HEBREW TCHR'S COL	12
HELLENIC COL	54
HENRYK COMM COL **	30
LASELL JR COL**	3
LEICESTER JR COL**	18
LESLIEY COL	20
LINCOLN STATE COLLEGE	129
LINCOLN TECHNICAL INST	963
MASS BAY COMM COL **	1,104
MASS COL OF ART	469
MASS COL OF OPTOMETRY	458
MASS COL OF PHARMACY	324
MASS INST OF TECH	100,177
MASS MARITIME ACADEMY	75
MASASDIT COMM COL **	38
MERRIMACK COL	136
MOUNT IONA JR COL **	7
MOUNT MACHUSETT COMM COL **	29
MOUNT HOLYOKE COL	137
NEW ENGLAND CONSERV OF MUSIC	17
NEW ENGLAND SCHOOL OF LAW	3
MENTON COLLEGE	85
NICHOLS COL JR COL**	7
NICHOLS COL OF BUS ADMIN	27
NORTH ADAMS STATE COLLEGE	12
NORTH SHORE COMM COL **	105
NORTHAMPTON JR COLLEGE **	110
NORTHEASTERN UNIV	4,089
NORTHERN ESSEX COMM COL **	70
PERRY NORMAL SCH **	26
PINE MANOR JR COL **	11
QUINCY JR COL **	37
QUINSIGAMOND COMM COL **	30
RADCLIFFE COLLEGE	82
REGIS COL	328
SALEM STATE COLLEGE	193
SCH OF THE MUS FINE ARTS	37
SIMMONS COL	705
SMITH COL	828
SOUTHEASTERN MASS UNIV	251
SPRINGFIELD COL	272
SPRINGFIELD TECH COMM COL **	5
STEVENS COLLEGE	14

23	28	932	0	596
EMERSON COL	0	0	0	0
EMMANUEL COL	0	0	0	0
FISHER JR COL**	0	0	0	0
FITCHBURG STATE COLLEGE	0	0	0	0
FORSTH SCH DENT HYGNSTS **	0	0	0	0
FRAMINGHAM STATE COLLEGE	0	0	0	0
FRANKLIN INST OF BOSTON **	0	0	0	0
GARLAND JR COL**	0	0	0	0
GORDON COL	0	0	0	0
GRAHAM JR COL**	0	0	0	0
GREENFIELD COMM COL **	0	0	0	0
HAMPSHIRE COLLEGE	0	0	0	0
HARVARD UNIV	0	0	0	0
HEBREW TCHR'S COL	0	0	0	0
HELLENIC COL	0	0	0	0
HENRYK COMM COL **	0	0	0	0
LASELL JR COL**	0	0	0	0
LEICESTER JR COL**	0	0	0	0
LESLIEY COL	0	0	0	0
LINCOLN STATE COLLEGE	0	0	0	0
LINCOLN TECHNICAL INST	0	0	0	0
MASS BAY COMM COL **	0	0	0	0
MASS COL OF ART	0	0	0	0
MASS COL OF OPTOMETRY	0	0	0	0
MASS COL OF PHARMACY	0	0	0	0
MASS INST OF TECH	0	0	0	0
MASS MARITIME ACADEMY	0	0	0	0
MASASDIT COMM COL **	0	0	0	0
MERRIMACK COL	0	0	0	0
MOUNT IONA JR COL **	0	0	0	0
MOUNT MACHUSETT COMM COL **	0	0	0	0
MOUNT HOLYOKE COL	0	0	0	0
NEW ENGLAND CONSERV OF MUSIC	0	0	0	0
NEW ENGLAND SCHOOL OF LAW	0	0	0	0
MENTON COLLEGE	0	0	0	0
NICHOLS COL JR COL**	0	0	0	0
NICHOLS COL OF BUS ADMIN	0	0	0	0
NORTH ADAMS STATE COLLEGE	0	0	0	0
NORTH SHORE COMM COL **	0	0	0	0
NORTHAMPTON JR COLLEGE **	0	0	0	0
NORTHEASTERN UNIV	0	0	0	0
NORTHERN ESSEX COMM COL **	0	0	0	0
PERRY NORMAL SCH **	0	0	0	0
PINE MANOR JR COL **	0	0	0	0
QUINCY JR COL **	0	0	0	0
QUINSIGAMOND COMM COL **	0	0	0	0
RADCLIFFE COLLEGE	0	0	0	0
REGIS COL	0	0	0	0
SALEM STATE COLLEGE	0	0	0	0
SCH OF THE MUS FINE ARTS	0	0	0	0
SIMMONS COL	0	0	0	0
SMITH COL	0	0	0	0
SOUTHEASTERN MASS UNIV	0	0	0	0
SPRINGFIELD COL	0	0	0	0
SPRINGFIELD TECH COMM COL **	0	0	0	0
STEVENS COLLEGE	0	0	0	0

TABLE C-13 CONT'D

TOTAL FEDERAL OBLIGATIONS
TO ALL UNIVERSITIES AND COLLEGES BY
STATE, INSTITUTION, AND AGENCY, FISCAL YEAR 1970
(THOUSANDS OF DOLLARS)

STATE AND INSTITUTION	TOTAL	AGR	AEC	COM	DOD	HEW	INT	NASA	NSF	OTHER
MASSACHUSETTS										
STONEHILL COL	145	0	0	0	0	0	126	0	0	19
SUFFOLK UNIV	1512	0	0	0	4	98	0	20	30	0
SWAIN SCH OF DESIGN	19	0	0	0	0	19	0	0	0	0
TUFTS UNIV	18,977	0	390	0	393	15,233	0	60	554	2,397
UNIV OF MASSACHUSETTS	10,140	2,002	225	28	473	4,931	308	418	1,605	150
WELLESLEY COL	241	0	0	0	0	147	0	0	94	0
WENTWORTH INST **	913	0	0	0	779	77	0	0	57	0
WESTERN NEW ENGLAND COL	33	0	0	0	0	30	0	0	3	0
WESTFIELD STATE COLLEGE	157	0	0	0	0	157	0	0	0	0
WHEATON COL	43	0	0	0	0	27	0	0	16	0
WHEELOCK COL	43	0	0	0	0	43	0	0	0	0
WILLIAMS COL	276	0	0	0	19	103	0	0	95	59
WOODS HOLE OCEAN INST	10,033	0	634	0	5,444	92	394	25	3,415	29
WORCESTER JR COL **	8	0	0	0	0	8	0	0	0	0
WORCESTER POLYTECH INST	991	0	35	0	86	256	0	89	525	0
WORCESTER STATE COLLEGE	25	0	0	0	0	25	0	0	0	0
TOTAL MASSACHUSETTS	244,169	2,002	13,145	386	58,327	101,331	1,463	33,231	29,454	4,810
MICHIGAN										
ADRIAN COL	63	0	0	0	0	0	53	0	0	10
ALBION COL	126	0	0	0	0	0	93	0	0	33
ALMA COL	179	0	0	0	0	0	162	0	0	17
ALPENA COMM COL **	117	0	0	0	0	0	117	0	0	0
ANDREWS UNIV	134	0	0	0	0	0	94	0	40	40
AQUINAS COL	145	0	0	0	0	0	145	0	0	0
BAY OF NOG COMM COL **	78	0	0	0	0	0	78	0	0	90
CALVIN COL	1,485	0	0	0	0	0	1,375	0	0	50
CENTRAL MICH UNIV	774	0	0	0	0	0	724	0	0	52
CONCORDIA LUTHERAN JR COL **	12	0	0	0	0	0	10	0	0	0
CRANBROOK ACAD OF ART	58	0	0	0	0	0	58	0	0	0
DAVENPORT COL OF BUSINESS **	139	0	0	0	0	0	139	0	0	0
DELTA COL **	786	0	0	0	0	0	776	0	0	10
DETROIT COL OF BUSINESS	43	0	0	0	0	0	43	0	0	0
DETROIT INST OF TECH	74	0	0	0	0	0	74	0	0	0
DUNS SCOTUS COL	4	0	0	0	0	0	4	0	0	0
EASTERN MICHIGAN UNIV	1,211	0	0	0	0	0	1,106	0	0	105
FERRIS ST COL	2,047	0	0	0	0	0	2,047	0	0	0
FLINT COMM JR COL **	68	0	0	0	0	0	68	0	0	0
GLENDAKS COMM COL **	70	0	0	0	0	0	70	0	0	0
GODFRED COMM COL **	80	0	0	0	0	0	80	0	0	0
GRAND RAPIDS BAPT COL	25	0	0	0	0	0	25	0	0	0
GRAND RAPIDS JR COL **	171	0	0	0	0	0	169	0	0	2
GRAND VALLEY STATE COL	268	0	0	0	0	0	264	0	0	4
HENRY FORD COMM COL **	173	0	0	0	0	0	173	0	0	0
HIGHLAND PARK COLLEGE **	255	0	0	0	0	0	255	0	0	0
HILLSDALE COL	440	0	0	0	0	0	440	0	0	0
HOPE COL	402	0	0	0	0	0	399	0	0	163
JACKSON COMM COL **	47	0	0	0	0	0	47	0	0	0
KALAMAZOO COL	193	0	0	0	0	0	156	0	0	34
KALAMAZOO VALLEY COMM COL **	34	0	0	0	0	0	34	0	0	0

TABLE C-13 CONT'D

TOTAL FEDERAL OBLIGATIONS
TO ALL UNIVERSITIES AND COLLEGES BY
STATE, INSTITUTION, AND AGENCY, FISCAL YEAR 1970
(THOUSANDS OF DOLLARS)

STATE AND INSTITUTION	TOTAL	AGR	AEC	COM	DOD	HEW	INT	NASA	NSF	OTHER
MICHIGAN										
SACRED HEART SEM	31	0	0	0	0	31	0	0	0	0
SAGINAW VALLEY COL	70	0	0	0	0	70	0	0	0	0
SCHOOLCRAFT COL **	83	0	0	0	0	83	0	0	0	0
SHAW COLLEGE AT DETROIT	54	0	0	0	0	54	0	0	0	0
SIENA HEIGHTS COL	9	0	0	0	0	9	0	0	0	0
SOCIETY OF ARTS & CRAFTS	5	0	0	0	0	5	0	0	0	0
SOUTHWESTERN MICH COL **	33	0	0	0	0	33	0	0	0	0
SPRING ARBOR COL	81	0	0	0	0	81	0	0	0	0
ST CLAIR COUNTY COMM COL **	75	0	0	0	0	75	0	0	0	0
SUOMI COL **	124	0	0	0	0	124	0	0	0	0
UNIV OF DETROIT	1,848	0	4	14	7,710	1,392	250	15	344	0
UNIV OF MICHIGAN	59,059	46	3,392	5	32,228	250	5,505	7,331	2,896	0
WALSH COL ACCIGABUS ADMIN	3	0	0	0	0	3	0	0	0	0
WASHTENAW COMM COL **	197	0	0	0	0	197	0	0	0	0
WAYNE COUNTY COMMUNITY COL **	217	0	0	0	0	217	0	0	0	0
WAYNE STATE UNIV	11,534	0	140	0	413	9,328	0	66	1,162	425
WEST SHORE COMMUNITY COLL **	434	0	0	0	0	434	0	0	0	0
WESTERN MICH UNIV	2,615	0	9	0	75	1,597	0	0	734	0
TOTAL MICHIGAN	114,387	5,114	5,567	92	8,757	69,356	517	5,633	14,978	4,373

MINNESOTA

ANOKA-RAMSEY ST JR COL **	234	0	0	0	0	238	0	0	0	0
AUGSBURG COL	216	0	0	0	0	210	0	0	0	0
AUSTIN ST JUNIOR COLLEGE **	4	0	0	0	0	1,042	0	0	88	169
BEMIDJI STATE COL	1,299	0	0	0	0	14	0	0	0	0
BETHANY LUTHERAN COL	14	0	0	0	0	96	0	0	42	0
BETHEL COL & SEM	136	0	0	0	0	31	0	0	0	0
BRAINERO ST JUNIOR COL **	31	0	0	0	0	110	0	0	195	0
CARLETON COL	305	0	0	0	0	162	0	0	2	0
COL OF ST BENEDICT	184	0	0	0	0	231	0	0	0	0
COL OF ST CATHERINE	233	0	0	0	0	232	0	0	0	0
COL OF ST SCHOLASTICA	232	0	0	0	0	263	0	0	12	0
COL OF ST TERESA	275	0	0	0	0	142	0	0	54	0
COL OF ST THOMAS	196	0	0	0	0	250	0	0	155	0
CONCORDIA COL, MORRHAEO	405	0	0	0	0	88	0	0	0	0
CONCORDIA COL, ST PAUL	88	0	0	0	0	5	0	0	0	0
CORBETT COLLEGE **	5	0	0	0	0	8	0	0	0	0
CROSTER SEM **	8	0	0	0	0	24	0	0	0	0
FERGUS FALLS STATE JR COL **	26	0	0	0	0	15	0	0	0	0
GOLDEN VALLEY LUTHERAN COL	15	0	0	0	0	149	0	0	261	0
GUSTAVUS ADOLPHUS COL	410	0	0	0	0	72	0	0	109	0
HAMLINE UNIV	181	0	0	0	0	45	0	0	0	0
HIBBING STATE JR COLLEGE **	45	0	0	0	0	45	0	0	0	0
ITASCO STATE JR COLLEGE **	18	0	0	0	0	18	0	0	0	0
LAKESHORE STATE JR COL **	18	0	0	0	0	23	0	0	0	0
LEA COLLEGE	23	0	0	0	0	79	0	0	0	0
MACALESTER COL	474	0	0	0	0	395	0	0	0	0
MANKATO STATE COL	892	0	0	0	0	739	0	0	0	0

MISSISSIPPI

ALCORN AGR & MECH COL
BELHAVEN COL
BLUFF MOUNTAIN COL

TABLE C-33 CONTD
TOTAL FEDERAL OBLIGATIONS
TO ALL UNIVERSITIES AND COLLEGES BY
STATE, INSTITUTION, AND AGENCY, FISCAL YEAR 1970
(THOUSANDS OF DOLLARS)

STATE AND INSTITUTION	TOTAL	AGR	AEC	COM	DOD	HEW	INT	NASA	NSF	OTHER
MISSISSIPPI										
CLARKE MEMORIAL COL **	9	0	0	0	0	0	0	0	0	0
COAHOMA JR COL **	239	0	0	0	0	0	239	0	0	0
COP TAW-LINCOLN JR COL **	29	0	0	0	0	0	29	0	0	0
DELTA STATE COL	419	0	0	0	0	0	419	0	0	0
EAST CENTRAL JR COL **	20	0	0	0	0	0	20	0	0	0
EAST MISS JR COL **	340	0	0	0	0	0	340	0	0	0
HINDS JR COL **	179	0	0	0	0	0	179	0	0	0
HOLMES JR COL **	224	0	0	0	0	0	222	0	0	0
ITAWAMBA JR COL **	83	0	0	0	0	0	83	0	0	0
JACKSON STATE COL	995	0	0	0	0	0	947	0	0	0
JONES COUNTY JR COL **	62	0	0	0	0	0	62	0	0	0
MARY HOLMES COLLEGE **	1,590	0	0	0	0	0	911	0	0	0
MERIDIAN JR COL **	201	0	0	0	0	0	201	0	0	0
MILLSAPS COL	482	0	0	0	0	0	482	0	0	0
MISS DELTA JR COL **	20	0	0	0	0	0	20	0	0	0
MISS GOLD COAST J C SYS*	171	0	0	0	0	0	171	0	0	0
MISS ST COL FOR WOMEN	169	0	0	0	0	0	150	0	0	0
MISS VALLEY ST COL	368	0	0	0	0	0	368	0	0	0
MISSISSIPPI COL	56	0	0	0	0	0	56	0	0	0
MISSISSIPPI INDUS COL	111	0	0	0	0	0	0	0	0	0
MISSISSIPPI STATE UNIV.	8,264	5,725	0	0	0	0	397	1,229	0	0
MATCHETZ JR COL **	30	0	0	0	0	0	30	0	0	0
NORTHEAST MISS JR COL **	95	0	0	0	0	0	95	0	0	0
NORTHWEST MISS JR COL **	75	0	0	0	0	0	75	0	0	0
PEARL RIVER JR COL **	56	0	0	0	0	0	56	0	0	0
PEAK INSTON COL **	654	0	0	0	0	0	654	0	0	0
PRENTISS NORN & IND INST **	156	0	0	0	0	0	154	0	0	0
RUST COL	524	0	0	0	0	0	509	0	0	0
SAINTS JR COL **	312	0	0	0	0	0	23	0	0	0
SOUTHWEST MISS JR COL **	7	0	0	0	0	0	7	0	0	0
T J HARRIS JR COL **	17	0	0	0	0	0	17	0	0	0
TOUGALOO COL	612	0	0	0	0	0	605	0	0	0
UNIV OF MISSISSIPPI	8,622	17	0	0	0	0	174	170	0	0
UNIV OF SOUTHERN MISS	6,99	0	0	0	0	0	0	507	0	0
UTICA JR COL **	158	0	0	0	0	0	0	158	0	0
WILLIAM CAREY COL	153	0	0	0	0	0	0	153	0	0
WOOD JR COL **	22	0	0	0	0	0	0	22	0	0
TOTAL MISSISSIPPI	27,045	5,754	15	174	0	0	567	17,383	122	416
MISSOURI										
AVILA COL	137	0	0	0	0	0	0	0	0	0
CENTRAL BIBLE COLLEGE	81	0	0	0	0	0	81	0	0	0
CENTRAL METHOD COL	36	0	0	0	0	0	36	0	0	0
CENTRAL MO STATE COL	696	0	0	0	0	0	696	0	0	0
CHRISTIAN COL **	16	0	0	0	0	0	16	0	0	0
CONCORDIA SEMINARY	32	0	0	0	0	0	32	0	0	0
COTTEY COL **	13	0	0	0	0	0	13	0	0	0
CROWDER COL **	31	0	0	0	0	0	31	0	0	0
CULVER-STOKTON COL	83	0	0	0	0	0	83	0	0	0

HILLSAPS COL	482
MISS DELA JR COL **	20
MISS GULF COAST J C SYS*	171
MISS ST COL FOR WOMEN	169
MISS VALLEY ST COL	368
MISSISSIPPI COL	56
MISSISSIPPI INDUS COL	111
MISSISSIPPI STATE UNIV	5,725
MATCHEZ JR COL **	30
NORTHEAST MISS JR COL **	95
NORTHWEST MISS JR COL **	75
PEARL RIVER JR COL **	56
PERKINSON COL **	654
PRENTISS NORM & IND INST **	154
RUST COL	524
SAINTS JR COL **	312
SOUTHWEST MISS JR COL **	7
T J HARRIS JR COL **	17
TOUGALOO COL	612
UNIV OF MISSISSIPPI	8,622
UNIV OF SOUTHERN MISS	459
UTICA JR COL **	150
WILLIAM CAREY COL	153
WOOD JR COL **	22
TOTAL MISSISSIPPI	27,026
	5,764

MISSOURI

AVILA COL	137
CENTRAL BIBLE COLLEGE	81
CENTRAL METHODIST COL	36
CENTRAL MO STATE COL	696
CHRISTIAN COL **	16
CONCORDIA SEMINARY	22
COTTEY COL **	13
CROWDER COL **	31
CULVER-STOCKTON COL	83
DRURY COL	106
E CENTRAL JUNIOR COLLEGE **	13
EDEN THEOLOGICAL SEMINARY	13
EVANGEL COL	189
FONT BONNE COL	123
HARRIS TECHS COL	100
IMMACULATE CONCEPTION SEM	14
JEFFERSON COL **	28
KANSAS CITY ART INST	231
KANSAS CITY COL OF OSTEOP	774
KIRKSVILLE COL OF OSTEOP	3,154
LINCOLN UNIV	487
LINDEMANOOD COL	57
LONGVIEW COMMUNITY COL **	38
MAPLE WOODS COMMUNITY COL **	9
MARYVILLE COL SAC HEART	7
MERCY JR COL **	30
MINERAL AREA COL **	3
MISSOURI BAPTIST COL **	91
MISSOURI SOUTHERN COL	48
MISSOURI VALLEY COL	60
MISSOURI WESTERN COL	161
MOBERLY JR COL **	10
NORTH EAST MO ST COL	409
NORTHWEST MO STATE -OL	465
NOTRE DAME COL	3
PARK COL	68
PENN VALLEY COMMUNITY COL **	1,089
ROCKHARVEST COL	571
SCHOOL OF THE OZARKS	192

TABLE C-13 CONTROL
TOTAL FEDERAL OBLIGATIONS
TO ALL UNIVERSITIES AND COLLEGES BY
STATE, INSTITUTION, AND AGENCY, FISCAL YEAR 1970
(THOUSANDS OF DOLLARS)

STATE AND INSTITUTION	TOTAL	AGR	AEC	COM	DDO	H&M	INT	NASA	NSF	OTHER
MISSOURI										
SOUTHEAST MO STATE COL.	166	0	0	0	0	110	0	0	56	0
SOUTHWEST BAPTIST COL.	219	0	0	0	0	217	0	0	2	0
SOUTHWEST MO STATE COL.	525	0	0	0	0	475	16	0	34	0
ST LOUIS COL OF PHARMACY	244	0	0	0	0	244	0	0	0	0
ST LOUIS JR COLLEGE DIST **	683	0	0	0	0	683	0	0	0	0
ST LOUIS UNIV	7,879	5	341	6,560	0	129	562	0	282	0
ST MARYS COL OF OFALLON **	32	0	0	0	32	0	0	0	0	0
ST PAULS COL **	23	0	0	0	0	23	0	0	0	0
STATE FAIR COMM COLLEGE **	8	0	0	0	0	4	0	4	0	0
STEPHENS COL	24	0	0	0	0	24	0	0	0	0
TARKIO COL	158	0	0	0	0	131	0	0	27	0
THREE RIVERS JR COL. **	69	0	0	0	0	89	0	0	0	0
TRENTON JR COL. **	13	0	0	0	0	13	0	0	0	0
UNIV OF MISSOURI COLUMBIA	22,715	5,037	130	5	1,165	14,287	167	1,763	28	0
UNIV OF MISSOURI KAN CITY	2,305	0	0	0	0	1,845	0	25	135	0
UNIV OF MISSOURI ROLLA	1,857	0	144	0	71	304	47	42	1,249	0
UNIV OF MISSOURI ST LOUIS	486	0	0	0	29	368	0	0	89	0
UNIV OF MO CEN SYSP	558	0	0	0	0	0	0	0	558	0
WASHINGTON UNIV	26,901	353	5	1,877	22,339	0	686	1,641	0	0
WEBSTER COL	360	0	0	0	0	352	0	0	8	0
WESTMINSTER COL	38	0	0	0	0	38	0	0	0	0
WILLIAM JEWELL COL	45	0	0	0	0	45	0	0	0	0
WILLIAM WOODS COL	34	0	0	0	0	34	0	0	0	0
TOTAL MISSOURI	74,745	5,094	632	10	3,463	57,656	230	1,055	5,737	868
MONTANA										
CARROLL COL	409	0	0	0	0	407	0	0	2	0
COL OF GREAT FALLS	117	0	0	0	0	117	19	0	0	0
DAMSON COL **	19	0	0	0	0	850	0	0	6	0
EASTERN MONTANA COL	856	0	0	0	0	95	0	0	0	0
FLATHEAD VALLEY COMM COL **	95	0	0	0	0	22	0	0	14	0
MILES COMMUNITY COL **	22	0	0	0	0	93	16	0	536	0
MONTANA COL MINERAL SCI	123	0	0	0	0	40	2,017	408	0	0
MONTANA STATE UNIV	4,820	1,646	33	140	0	69	0	0	0	0
NORTHERN MONTANA COL	69	0	0	0	0	85	0	0	667	186
ROCKY MOUNTAIN COL	85	0	0	0	0	1,315	0	0	0	0
UNIV OF MONTANA	2,763	95	0	0	0	198	0	0	667	186
WESTERN MONTANA COL	198	0	0	0	0	5,287	424	0	0	0
TOTAL MONTANA	9,076	1,741	33	140	0	5,287	424	0	1,225	186
NEBRASKA										
CENTRAL NEB TECHNICAL COL	15	0	0	0	0	15	0	0	0	0
CHADRON STATE COL	428	0	0	0	0	363	0	0	65	0
COL OF ST MARY	52	0	0	0	0	52	0	0	9	0
CONCORDIA TECHS COL	74	0	0	0	0	65	0	0	50	0
CREIGHTON UNIV	2,618	0	0	0	0	2,628	0	0	34	0
DANA COL	76	0	0	0	0	42	0	0	0	0
DOANE COL	228	0	0	0	0	228	0	0	0	0
FAIRBURY JR COL **	16	0	0	0	0	16	0	0	0	0
HASTINGS COL	58	0	0	0	0	58	0	0	0	0
HIRAM SCOTT COL	59	0	0	0	0	59	0	0	0	0
JOHN F KENNEDY COL	55	0	0	0	0	55	0	0	0	0

MONTANA	CARROLL COL.	409
	GUL OF GREAT FALLS	111
	DANSON COL.**	19
	EASTERN MONTANA COL.	856
	FLATHEAD VALLEY COMM COL.**	95
	MILES COMMUNITY COL.**	22
	MONTANA COL MINERAL SCI	123
	MONTANA STATE UNIV.	4,820
	NORTHERN MONTANA COL.	69
	ROCKY MOUNTAIN COL.	85
	UNIV OF MONTANA	2,263
	WESTERN MONTANA COL.	198
	TOTAL MONTANA	9,076

NEBRASKA

NEBRASKA	CENTRAL NEB TECHNICAL COL	15
	CHADRON STATE COL	424
	COL OF ST MARY	52
	CONCORDIA TCNS COL	74
	CREIGHTON UNIV	2,678
	DANA COL	76
	DOANE COL	228
	FAIRBURY JR COL.**	16
	HASTINGS COL	58
	MIRAM SCOTT COL	39
	JOHN F KENNEDY COL	55
	KEARNEY STATE COL	356
	MCCOOK COLLEGE **	281
	MIDLAND LUTHERAN COL	85
	NEBRASKA WESLEYAN UNIV	353
	NEBRASKA WESTERN COLLEGE **	32
	NORTH PLATTE JR COL.**	12
	NORTH-EASTERN NEBRASKA COL.**	32
	PERSHING COL	61
	PERU STATE COL	122
	PLATTE JR COL.**	104
	U OF NEB MED CTR AT OMAHA	3,780
	UNION COL	82
	UNIV OF NEBRASKA CEN SY'S *	209
	UNIV OF NEBRASKA-LINCOLN	7,586
	UNIV OF NEBRASKA-OMAHA	2,140
	WAYNE STATE COL	180
	YORK COL.**	59
	TOTAL NEBRASKA	19,173

NEVADA

NEVADA	DESERT RESEARCH INSTITUTE	219
	ELKO COMMUNITY COLLEGE **	14
	SIERRA NEVADA COLLEGE	3

TABLE C-13 CONT'D

TOTAL FEDERAL OBLIGATIONS
TO ALL UNIVERSITIES AND COLLEGES BY
STATE, INSTITUTION, AND AGENCY, FISCAL YEAR 1970
(THOUSANDS OF DOLLARS)

STATE AND INSTITUTION	TOTAL	AGR	AEC	COM	DDO	HEM	INT	NASA	NSF	OTHER
NEVADA										
UNIV OF NEV RENO CAMPUS	4,666	851	186	0	475	1,567	837	223	327	0
UNIV OF NEVADA CEN SYS*	39	0	0	0	0	0	0	0	39	0
UNIV OF NEVADA LAS VEGAS	448	0	62	0	0	349	0	0	37	0
TOTAL NEVADA	5,189	851	248	0	475	1,933	837	223	622	0
NEW HAMPSHIRE										
BELKNAP COL	247	0	0	0	0	247	0	0	0	0
COLBY JR-COL FOR WOMEN	25	0	0	0	0	25	0	0	0	0
DARTMOUTH COL	6,161	0	36	0	305	4,659	46	178	1,147	0
FRANCONIA COL	28	0	0	0	0	28	0	0	0	0
FRANKLIN PIERCE COL	65	0	0	0	0	70	15	0	0	0
KEENE STATE COLLEGE	128	0	0	0	0	128	0	0	0	0
MT ST. MARY COL	43	0	0	0	0	0	0	0	0	0
N.H. VOC INST MANCHESTER **	2	0	0	0	0	0	0	0	0	0
N.H. VOC INST PORTSMOUTH ***	1	0	0	0	0	0	0	0	0	0
NATHANIEL HAWTHORNE COL	50	0	0	0	0	50	0	0	0	0
NEW ENGLAND AERONAUT INST **	24	0	0	0	0	24	0	0	0	0
NEW ENGLAND COL	124	0	0	0	0	40	0	0	84	0
NEW HAMP COL ACCT & COMM	83	0	0	0	0	83	0	0	0	0
NEW HAMPSHIRE TECH INST **	94	0	0	0	0	94	0	0	0	0
NOTRE DAME COL	35	0	0	0	0	35	0	0	0	0
PLYMOUTH STATE COLLEGE	96	0	0	0	0	76	0	0	20	0
RIVER COL	37	0	0	0	0	37	0	0	0	0
ST. ANSELM'S COL	487	0	0	0	0	487	0	0	1,301	0
UNIV OF N H DURHAM	5,634	1,042	12	0	0	115	1,635	147	1,479	2,633
TOTAL NEW HAMPSHIRE	13,586	1,042	46	0	490	7,699	193			
NEW JERSEY										
ALPHONSUS COL **	17	0	0	0	0	0	0	0	0	0
ATLANTIC COMM COL **	77	0	0	0	0	0	0	0	77	0
BERGEN COMMUNITY COLLEGE **	77	0	0	0	0	0	0	0	134	0
BETH MEORASH GEVARAH AMER	134	0	0	0	0	0	0	0	284	0
BLOOMFIELD COL	284	0	0	0	0	0	0	0	62	0
ARROKOLE COMMUNITY COL **	62	0	0	0	0	0	0	0	71	0
BURLINGTON COUNTY COL **	71	0	0	0	0	0	0	0	36	0
CALDWELL COL FOR WOMEN	36	0	0	0	0	0	0	0	275	0
CAMDEN COUNTY COL **	275	0	0	0	0	0	0	0	3	0
CENTENARY COL FOR WOMEN	3	0	0	0	0	0	0	0	151	0
COL OF ST. ELIZABETH	154	0	0	0	0	0	0	0	62	0
COUNTY COL OF MORRIS **	62	0	0	0	0	0	0	0	28	0
CUMBERLAND COUNTY COL **	28	0	0	0	0	0	0	0	7	0
DON BOSCO COL	7	0	0	0	0	0	0	0	34	0
ENGLEWOOD CLIFFS COLLEGE **	10	0	0	0	0	0	0	0	10	0

TABLE C-13 CONT'D
TOTAL FEDERAL OBLIGATIONS
TO ALL UNIVERSITIES AND COLLEGES BY
STATE, INSTITUTION, AND AGENCY, FISCAL YEAR 1970
(THOUSANDS OF DOLLARS)

STATE AND INSTITUTION	TOTAL	AGR	AEC	CDA	DOO	HED	INT	NASA	NSF	OTHER
NEW MEXICO										
COL OF ARTESIA	47	0	0	0	0	47	0	0	0	0
COL OF SANTA FE	298	0	0	0	0	298	0	0	0	0
EASTERN NEW MEXICO UNIV	1,217	0	0	0	0	992	27	0	0	164
NEW MEX INST MINING & TEC	1,166	0	0	0	0	71	0	16	544	0
NEW MEXICO HIGHLANDS UNIV	643	0	0	0	0	576	0	0	58	0
NEW MEXICO JR COL **	6	0	0	0	0	6	0	0	0	0
NEW MEXICO STATE UNIV	9,503	1,653	0	30	2,516	2,105	418	2,267	476	38
UNIV OF ALBUQUERQUE	547	0	0	0	36	500	0	0	11	0
UNIV OF NEW MEXICO	8,822	0	66	20	1,856	4,636	4	574	610	656
WESTERN NEW MEXICO UNIV	126	0	0	0	0	117	0	0	9	0
TOTAL NEW MEXICO	22,375	1,653	75	50	4,941	9,348	449	2,859	1,922	1,078
NEW YORK										
ACADEMY OF AERONAUTICS **	4	0	0	0	0	4	0	0	0	0
ADELPHI UNIV	1,634	0	0	0	0	1,364	0	0	270	0
ALBANY COL OF PHARMACY	200	0	0	0	0	200	0	0	0	0
ALBANY LAW SCHOOL	73	0	0	0	0	3	0	0	0	0
ALBANY MEDICAL COL	6,746	0	0	0	0	5,386	0	0	14	1,099
ALFRED UNIV	168	0	0	0	0	151	0	0	17	0
BANK STREET COL OF ED	26	0	0	0	0	3	0	0	0	23
BARD COL	36	0	0	0	0	36	0	0	0	0
BARNARD COL	283	0	0	0	0	124	77	0	12	70
BENNETT COL **	9	0	0	0	0	9	0	0	0	0
BRIARCLIFF COL	10	0	0	0	0	10	0	0	0	0
BROOKLYN LAW SCHOOL	4	0	0	0	0	4	0	0	0	0
CANISIUS COL	200	0	0	0	0	194	0	0	6	0
CATH COL IMMAG CONCEPTION	20	0	0	0	0	20	0	0	0	0
CAZENOVIA COL **	15	0	0	0	0	15	0	0	0	0
CEN YESH TON TWINIM CRUZ	62	0	0	0	0	62	0	0	0	563
CLARKSON COL OF TECH	1,288	0	0	0	0	136	0	0	20	0
COL OF INSURANCE	1	0	0	0	0	63	414	110	0	0
COL OF MT ST VINCENT	72	0	0	0	0	72	0	0	0	0
COL OF NEW ROCHELLE	39	0	0	0	0	39	0	0	0	0
COL OF PHARMACEUTICAL SCI	236	0	0	0	0	225	0	0	8	0
COL OF ST ROSE	58	0	0	0	0	25	0	0	33	0
COLGATE ROCHESTER OIV SCH	11	0	0	0	0	11	0	0	0	0
COLGATE UNIV	213	0	0	0	0	77	0	0	136	0
COLUMBIA UNIV†	49,574	20	5,030	46	7,274	27,765	120	1,919	6,979	521
COLUMBIA UNIV CEN SYSE	423	0	0	0	0	0	0	0	423	0
CONCORDIA COLLEGE **	21	0	0	0	0	21	0	0	0	0
COOPER UNION	127	0	0	0	0	73	0	0	54	0
CORNELL UNIV	37,972	5,955	1,767	0	3,201	17,271	177	1,270	7,417	914
CUNY BARUCH COL	9	0	0	0	0	9	0	0	0	0
CUNY BORO OF MAN-COMM COL **	108	0	0	0	0	108	0	0	0	0
CUNY BRONX COMM COL **	171	0	0	0	0	54	104	0	13	0
CUNY BROOKLYN COL	661	0	0	0	0	0	264	0	368	0
CUNY CENTRAL SYSTEM*	12,963	0	29	0	0	58	12,096	0	399	405
CUNY CITY COL **	1,373	0	51	0	0	118	286	0	539	0
CUNY HUNTER COL	1,373	0	51	0	0	53	1,039	0	179	246
CUNY LEWIS LAW INST	272	0	0	0	0	0	0	0	0	0

ACADEMY OF AERONAUTICS **	4	1,634
ADELPHI UNIV	200	200
ALBANY COL OF PHARMACY	3	3
ALBANY LAW SCHOOL	6,746	5,386
ALBANY MEDICAL COL	168	151
ALFRED UNIV	26	3
BANK STREET COL OF ED	36	36
BARO COL	283	124
BARNARD COL	9	9
BENNETT COL **	10	10
BRIARCLIFF COL	4	4
BROOKLYN LAW SCHOOL	200	194
CANISIUS COL	200	20
CATH COL INMAC CONCEPTION	15	15
CAZ EMONIA COL **	62	63
CEN YESH TOM TWINIM LUBUZ	1,206	414
CLARKSON COL OF TECH	136	110
COL OF INSURANCE	0	0
COL OF MT ST VINCENT	72	0
COL OF NEW ROCHELLE	39	0
COL OF PHARMACEUTICAL SCI	236	0
COL OF ST ROSE	58	0
COLGATE ROCHESTER DIV SCH	11	0
COLGATE UNIV	213	0
COLUMBIA UNIV†	49,576	7,274
COLUMBIA UNIV CEN CEN SYS*	423	46
CONCORDIA COLLEGE **	21	0
COOPER UNION	127	0
CORNELL UNIV	37,972	5,955
CUNY BARUCH COL	9	1,767
CUNY BORO OF MAN COMM COL **	108	3,201
CUNY BRONX COMM COL **	171	0
CUNY BROOKLYN COL	661	29
CUNY CENTRAL SYSTEM*	12,963	55
CUNY CITY COL **	1,173	51
CUNY HUNTER COL	1,355	17
CUNY JOHN JAY C CRIM JUST.	276	0
CUNY KINGSBORO COMM COL **	293	0
CUNY LEHMAN COL	117	0
CUNY Mt SINAI SCH OF MED	10,441	35
CUNY N Y CITY CHTY COL **	91	0
CUNY QUEENS COL	381	40
CUNY QUEENSBORO COMM COL **	65	0
CUNY RICHMOND COL	115	0
CUNY STATEN ISL COMM COL **	101	0
CUNY YORK COL	53	0
DYONVILLE COL	298	0
DOMINICAN COL OF BLAUVLT DOWLING COLLEGE	1,536	1,529
DUOLY OBSERVATORY	676	0
EISENHOWER COL	25	0
ELIZABETH SETON COL **	12	0
ELMIRA COL	43	0
FINCH COL	3	0
FORWAM UNIV	1,861	1,419
FRIENDS WORLD COLLEGE	22	25
GOOD COUNSEL COL	21	0
HAMILTON COL	112	0
HARRIMAN COLLEGE **	6	0
HARTWICK COL	114	0
HILBERT COLLEGE **	24	0
HOBART AND WM SMITH COL	38	36
HOFSTRA UNIV	766	588
HOUGHTON COL	51	51
TONA COL	113	107
ITHACA COL	209	198

TABLE C-33. CONT'D

TOTAL FEDERAL OBLIGATIONS
TO ALL UNIVERSITIES AND COLLEGES BY
STATE, INSTITUTION, AND AGENCY, FISCAL YEAR 1970
(THOUSANDS OF DOLLARS)

STATE AND INSTITUTION	TOTAL	AGR	AEC	COM	DOO	HED	INT	NASA	NSF	OTHER
NEW YORK										
JEWISH THEOL SEM OF AMER	17									
JUILLIARD SCHOOL	49									
KELKA COL	896									
KINGS COL	49									
KIRKLAND COLLEGE	21									
LEPOWNE COL	273									
LEM I COL OF PODIATRY	287									
LONG ISLAND UNIVERSITY	1,120									
MANHATTAN COL	593									
MANHATTAN SCH OF MUSIC	48									
MARYMOUNT MANHATTAN COL	89									
MANNES COL OF MUSIC	16									
MARIA COL OF ALBANY **	9									
MARIA REGINA COL **	10									
MARIST COL	243									
MARYMOUNT COL	64									
MARYMOUNT MANHATTAN COL	262									
MATER DEI COL **	12									
MEDAILLE COL	3									
MERCY COL	32									
MES TOR VODAATH RABIN SEM	74									
MESIVTA E PKAY RABBIN SEM	13									
MESIVTA HATIFERETH JERU AM	58									
MILLS COL OF EDUCATION	13									
MIRRER YESHIVA CENT INST	43									
MOLLOY COLLEGE	12									
MT ST MARY COL	97									
N COUNTRY COMMUNITY COL ***	67									
N Y INST OF TECHNOLOGY	654									
NAZARETH COL OF ROCHESTER	57									
NEW SCHOOL FOR SOCIAL RES	221									
NEW YORK LAW SCHOOL	13									
NEW YORK MEDICAL COL	7,880									
NEW YORK THEOLOGICAL SEM	10									
NEW YORK UNIV	37,779									
NIAGARA UNIV	1,352									
NOTRE DAME COL. STATEEN IS	27									
NYACK MISSIONARY COL	16									
PACE COL	209									
PACKER COLEGiate INST ***	3									
PARSONS SCHOOL OF DESIGN	26									
PAUL SMITHS COL ARTS SCI ***	5									
POLYTECHNIC INST OF BKLYN	3,991									
PRATT INST	37									
RAB COL BOBOVER YESHIVA	337									
RAB SEM NETZACHYNSR RAM	31									
RABB COL OF KARMINZ YESH	43									
RABBI JOSEPH RABBINCL COL	54									
RABBINCL ACAD M R BERLIN	23									
RABBINCL ACAD OF AMERICA	49									

WATER DEP-COL	3
MEDAILLE COL	32
MERCY COL	32
MES TOR YODAATH RABIN SEM	74
MES LIVTA E PKWY RABBIN SEM	13
MESIVTHA TIFERETH JERU AM	58
MILLS COL OF EDUCATION	13
MIRRER YESHIVA CENT INST	43
MOLLOY COLLEGE	12
MT ST MARY COL	97
N COUNTRY COMMUNITY COL #**	67
N Y INST OF TECHNOLOGY	654
NAZARETH COL OF ROCHESTER	57
NEW SCHOOL FOR SOCIAL RES	221
NEW YORK LAW SCHOOL	13
NEW YORK MEDICAL COL	7,880
NEW YORK THEOLOGICAL SEM	10
NEW YORK UNIV	37,779
NIAGARA UNIV	1,352
NOTRE DAME COL STATED IS	27
NYACK MISSIONARY COL	16
PACE COL	209
PACER COLEGIAE INST**	3
PARSONS SCHOOL OF DESIGN	26
PAUL SMITHS COL ARTS SCI #**	5
POLYTECHNIC INST OF BKLYN	3,991
PRATT INST	250
RAB COL BOBOVER YESHIVA	37
RAB SEM NETZACHIVUS RAM	37
RABB COL OF KAMENITZ YESH	43
RABBI JOSEPH RABBINCL COL	54
RABBINICAL SEM OF AMERICA	23
RABBINICAL ACOA M R BERLIN	49
RABBINICAL COL CHSAM SOFER	66
RENNSELAKER POLYTECH INST	6,520
ROBERTS YESLEYAN COL	117
ROCHESTER INST OF TECH	523
ROCKEFELLER UNIV	5,564
ROSARY HILL COL	118
RUSSELL SAGE COL	176
SARAH LAWRENCE COL	199
SIENA COLLEGE	123
SKIDMORE COL	271
ST BONAVENTURE UNIV	66
ST FRANCIS COL	377
ST JOHN FISHER COL	73
ST JOHN LAW UNIV	691
ST JOSEPHS COL FOR WOMEN	3
ST LAWRENCE UNIV	398
ST THOMAS AQUINAS COL	14
ST VLADIMIRS THEOL SEM	8
SUNY ART COL ALFREDO #**	254
SUNY ART COL CANTON #**	132
SUNY ART COL COBLESKILL #**	116
SUNY ART COL DELHI #**	151
SUNY ART COL FARMINGDALE #**	254
SUNY ART COL MORRISVILLE #**	46
SUNY ADIRONDACK CNTY COL #**	33
SUNY AUBURN CNTY COL #**	19
SUNY BROOME TECH CNTY COL #**	102
SUNY CENTRAL SYSTEM*	232
SUNY CLINTON CNTY COL #**	40
SUNY CNTY C FINGER LAKES #**	17
SUNY COL AT OLD WESTBURY	42

TABLE C-3 CONT'D
**TOTAL FEDERAL OBLIGATIONS
 TO ALL UNIVERSITIES AND COLLEGES BY
 STATE, INSTITUTION, AND AGENCY, FISCAL YEAR 1970**
 (THOUSANDS OF DOLLARS)

STATE AND INSTITUTION	TOTAL	AIR	AEC	COM	DOE	HEN	INT	NASA	NSF	OTHER
NEW YORK										
SUNY COL BROCKPORT-										
SUNY COL BUFFALO	278									
SUNY COL CORLIAND	1,195									
SUNY COL FORESTY SYR U	281									
SUNY COL FREDDONIA	521									
SUNY COL GENESEE	412									
SUNY COL GENESEE	471									
SUNY COL NEW PALTZ	179									
SUNY COL ONEONTA	346									
SUNY COL OSWEGO	360									
SUNY COL PLATTSBURGH	574									
SUNY COL POTSDAM	318									
SUNY COL PURCHASE	19									
SUNY COLUMBIA GREENE C C **	7									
SUNY CORNING CNTY COL **	78									
SUNY DOWNSTATE MED CTR	6,246									
SUNY DUTCHESSE CNTY COL **	44									
SUNY ERIE COUNTY CNTY COL **	229									
SUNY FASHION INST TECH **	1,540									
SUNY FULTON-MONT CNTY COL **	47									
SUNY GENESSEE CNTY COL **	42									
SUNY HERKIMER CNTY CNTY C **	29									
SUNY HUDSON VAL CNTY COL **	208									
SUNY JAMESTOWN CNTY COL **	32									
SUNY JEFFERSON CNTY COL **	35									
SUNY MARITIME COLLEGE	102									
SUNY MOHAWK VAL CNTY CCR. **	91									
SUNY MONROE CNTY COL **	246									
SUNY NASSAU CNTY COL **	140									
SUNY NIAGARA CNTY CNTY C **	48									
SUNY ONONDAGA CNTY CNTY C **	1,539									
SUNY ORANGE CNTY CNTY C **	88									
SUNY ROCKLAND CNTY CNTY C **	87									
SUNY SCHENECTADY CNTY C C **	83									
SUNY ST U ALBANY	5,280									
SUNY ST U BINGHAMTON	1,295									
SUNY ST U BUFFALO	15,213									
SUNY ST U STONY BROOK	7,814									
SUNY SUFFOLK CNTY CNTY C **	256									
SUNY SULLIVAN CNTY CNTY C **	58									
SUNY TOMP-CORT CNTY CNTY C **	31									
SUNY ULSTER CNTY CNTY CNTY C **	67									
SUNY UPSTATE MED CTR	3,495									
SUNY WESTCHESTER CNTY CNTY C **	40									
SYRACUSE UNIV	8,946									
TEACHERS COL	5,222									
TROYAIRE COL **	28									
UNION COL	447									
UNION COL & UNIV CEN SYS*	199									
UNION THEOL SEMINARY	51									
UNIV OF ROCHESTER	25,190									
VASSAR COL	113									
VILLA MARIA COL BUFFALO **	13									
VOORHEES TECH INST **	2									
WAUGH'S HALL	171									
WAUGH'S COI	1									

SUNY JAMESTOWN CNTY COL**	32
SUNY JEFFERSON CNTY COL**	35
SUNY MARITIME COLLEGE	102
SUNY MOHAWK VAL CNTY COL**	91
SUNY MONROE CNTY COL**	246
SUNY NIAGARA CNTY CNTY C **	148
SUNY NIAGARA CNTY CNTY C **	48
SUNY ONONDAGA CNTY CNTY C **	1,539
SUNY ORANGE CNTY CNTY COL**	88
SUNY ROCKLAND CNTY COL**	87
SUNY SCHENECTADY CNTY C C **	83
SUNY ST ALBANY	39
SUNY ST BINGHAMTON	204
SUNY ST BUFFALO	15,216
SUNY ST STONY BROOK	7,614
SUNY SUFFOLK CNTY CNTY C **	256
SUNY SULLIVAN CNTY CNTY C **	58
SUNY TOMP-CORT CNTY COL**	31
SUNY ULMSTER CNTY CNTY COL**	67
SUNY UPSTATE MED CTR	3,495
SUNY WESTCHESTER CNTY COL**	40
SYRACUSE UNIV	8,946
TEACHERS COL	5,222
TROYCAIRE COL**	28
UNION COL	447
UNION COL & UNIV CEN SYSC	194
UNION THEOL SEMINARY	51
UNIV OF ROCHESTER	25,190
VASSAR COL	113
VILLA MARIA COL BUFFALO **	13
VOORHEES TECH INST**	3
WAHNS HALL	1
WAGNER COL	171
WEBB INST OF NAVAL ARCH	41
WELLS COL	26
YESH BETH SHEAR RABB INST	39
YESHIVA UNIV	22,774
TOTAL NEW YORK	320,298
	6,111
	17,199
	228
	21,080
	2,186

SUNY JAMESTOWN CNTY COL**	32
SUNY JEFFERSON CNTY COL**	35
SUNY MARITIME COLLEGE	102
SUNY MOHAWK VAL CNTY COL**	91
SUNY MONROE CNTY COL**	246
SUNY NIAGARA CNTY CNTY C **	148
SUNY NIAGARA CNTY CNTY C **	48
SUNY ONONDAGA CNTY CNTY C **	1,539
SUNY ORANGE CNTY CNTY COL**	88
SUNY ROCKLAND CNTY COL**	87
SUNY SCHENECTADY CNTY C C **	83
SUNY ST ALBANY	39
SUNY ST BINGHAMTON	204
SUNY ST BUFFALO	15,216
SUNY ST STONY BROOK	7,614
SUNY SUFFOLK CNTY CNTY C **	256
SUNY SULLIVAN CNTY CNTY C **	58
SUNY TOMP-CORT CNTY COL**	31
SUNY ULMSTER CNTY CNTY COL**	67
SUNY UPSTATE MED CTR	3,495
SUNY WESTCHESTER CNTY COL**	40
SYRACUSE UNIV	8,946
TEACHERS COL	5,222
TROYCAIRE COL**	28
UNION COL	447
UNION COL & UNIV CEN SYSC	194
UNION THEOL SEMINARY	51
UNIV OF ROCHESTER	25,190
VASSAR COL	113
VILLA MARIA COL BUFFALO **	13
VOORHEES TECH INST**	3
WAHNS HALL	1
WAGNER COL	171
WEBB INST OF NAVAL ARCH	41
WELLS COL	26
YESH BETH SHEAR RABB INST	39
YESHIVA UNIV	22,774
TOTAL NEW YORK	320,298
	6,111
	17,199
	228
	21,080
	2,186

NORTH CAROLINA

APPALACHIAN STATE UNIV	526
ASHVLL-BUNCOMBE TECH INST **	8
ATLANTIC CHRISTIAN COL	163
BARRIER-SCOTIA COL	209
BEAUFORT COUNTY TECH-INST **	8
BELMONT ABBEY COL	66
BENNETT COL	742
BREVARD COL**	26
CALDWELL TECHNICAL INST **	36
CAMPBELL COL	273
CAPE FEAR TECHNICAL INST **	221
CARTERET TECHNICAL INST **	20
CATAWBA COL	125
CATAWBA VALLEY TECH INST **	61
CENTRAL CAROLINA TECH INST **	29
CENTRAL PIEDMONT COMM COL**	134
CHowan COL **	60

TABLE I-13 CONT'D

TOTAL FEDERAL OBLIGATIONS
TO ALL UNIVERSITIES AND COLLEGES BY
STATE, INSTITUTION, AND AGENCY, FISCAL YEAR 1970
(THOUSANDS OF DOLLARS)

STATE AND INSTITUTION	TOTAL	AGR	AEC	COM	DOD	HEN	INT	NSA	OTHER
NORTH CAROLINA									
COASTAL CAROLINA COMM COL **	98	0	0	0	0	429	0	0	0
COL OF THE ALBEMARLE **	426	0	0	0	0	55	0	0	0
CRAYEN TECHNICAL INST **	55	0	0	0	0	86	0	0	0
DAVIDSON COL	86	0	0	0	0	24	0	0	0
DAVIDSON COUNTY COMM COL **	24	0	0	0	15	3,263	20,796	156	156
DUKE UNIV	27,756	2	1,005	0	0	33	0	0	0
DURHAM TECHNICAL INST **	33	0	0	0	0	660	0	0	0
EAST CAROLINA UNIV	864	0	0	0	0	603	0	0	0
ELIZABETH CITY STATE UNIV	603	0	0	0	0	190	0	0	0
ELON COL	192	0	0	0	0	325	0	0	0
FAYETTEVILLE STATE UNIV	325	0	0	0	0	200	0	0	0
FAYETTEVILLE TECH INST **	200	0	0	0	0	21	0	0	0
GARDNER-WEBB COL	21	0	0	0	0	126	0	0	0
GASTON COL **	126	0	0	0	0	100	0	0	0
GREENSBORO COL	100	0	0	0	0	40	0	0	0
GUILFORD COL	40	0	0	0	0	132	0	0	0
GUILFORD TECHNICAL INST **	139	0	0	0	0	74	0	0	0
HAMDOK TECHNICAL INST **	74	0	0	0	0	7	0	0	0
HIGH POINT COL	7	0	0	0	0	23	0	0	0
ISOTHERMAL COMM COL **	23	0	0	0	0	34	0	0	0
JOHNSON C SMITH UNIV	34	0	0	0	0	646	0	0	0
KINGS COL **	34	0	0	0	0	7	0	0	0
KITTRELL COL **	7	0	0	0	0	116	0	0	0
LEES-MICHAEL COL **	116	0	0	0	0	84	0	0	0
LENOIR COUNTY COMM COL **	84	0	0	0	0	68	0	0	0
LENOIR-RHYNE COL	68	0	0	0	0	71	0	0	0
LIVINGSTON COL	71	0	0	0	0	450	0	0	0
LOUISBURG COL **	450	0	0	0	0	29	0	0	0
MARS HILL COL	30	0	0	0	0	191	0	0	0
MARTIN TECHNICAL INST **	191	0	0	0	0	20	0	0	0
MERRIDITH COL	20	0	0	0	0	58	0	0	0
MITCHELL COL **	58	0	0	0	0	42	0	0	0
MONTREAT-ANDERSON COL **	42	0	0	0	0	3	0	0	0
PEACE COL **	3	0	0	0	0	56	0	0	0
MT OLIVE JR COL **	56	0	0	0	0	171	0	0	0
N C AGRIC & TECH ST UNIV	171	0	0	0	0	1,379	0	0	0
N C SCHOOL OF THE ARTS	2,074	46	0	0	0	0	39	0	0
N C STATE UNIV AT RALEIGH	49	0	0	0	0	49	0	0	0
N C WESLEYAN COL	15,284	7,785	0	0	0	0	0	0	0
NO. CAROLINA CENTRAL UNIV	123	0	0	0	0	14	3,188	225	225
PEACE COL **	1,176	0	0	0	0	14	0	0	0
PENBROKE STATE UNIVERSITY	3	0	0	0	0	0	0	0	0
PFEIFFER COL	232	0	0	0	0	0	0	0	0
PITT TECHNICAL INSTITUTE **	194	0	0	0	0	0	0	0	0
QUEEN'S COL	194	0	0	0	0	0	0	0	0
RANDOLPH TECHNICAL INST **	37	0	0	0	0	0	0	0	0
RICHMOND TECHNICAL INST **	67	0	0	0	0	0	0	0	0
ROANOKE TECHNICAL INST **	31	0	0	0	0	0	0	0	0
SANDUSKY TECHNICAL INST **	31	0	0	0	0	0	0	0	0
SHAW UNIV	7	0	0	0	0	0	0	0	0
UNIVERSITY OF NORTH CAROLINA	367	0	0	0	0	0	0	0	0

TABLE C-13 CONT'D
TOTAL FEDERAL OBLIGATIONS
TO ALL UNIVERSITIES AND COLLEGES BY
STATE, INSTITUTION, AND AGENCY, FISCAL YEAR 1970
(THOUSANDS OF DOLLARS)

STATE AND INSTITUTION	TOTAL	AGR	AEC	COM	DOD	HEN	INT	NASA	NSF	OTHER
NORTH DAKOTA										
BISMARCK JR COL **	29	0	0	0	0	29	0	0	0	0
DICKINSON STATE COL	131	0	0	0	0	131	0	0	0	15
JAMESTOWN COL	534	0	0	0	0	519	0	0	0	0
LAKE REGION JR COL **	67	0	0	0	0	47	0	0	0	0
MARY COL	136	0	0	0	0	136	0	0	0	0
MAVILLE STATE COL	108	0	0	0	0	108	0	0	0	0
MINOT ST COL	459	0	0	0	0	259	0	0	0	200
NORTH DAKOTA ST SCH SCI **	179	0	0	0	0	179	0	0	0	0
NORTH DAKOTA STATE UNIV	3,927	1,973	1	121	169	1,316	85	16	460	242
UNIV OF NORTH DAKOTA	3,197	0	46	0	271	2,404	0	0	0	0
VALLEY CITY STATE COL	185	0	0	0	0	185	0	0	0	0
TOTAL NORTH DAKOTA	8,941	1,973	47	121	467	5,322	101	917	0	141
OHIO										
ANTIOCH COL	937	0	0	0	0	667	4	0	0	0
ART ACADEMY OF CINCINNATI	4	0	0	0	0	77	0	0	0	0
ASHLAND COL	77	0	0	0	0	30	0	0	0	0
ATHENAEUM OF OHIO	30	0	0	0	0	432	0	0	0	56
BALDWIN-WALLACE COL	486	0	0	0	0	248	0	0	0	11
BLUFFTON COL	259	0	0	0	0	20	0	0	0	0
BORROME SEMINARY OF OHIO	220	0	0	0	0	648	0	11	484	10
BOWLING GREEN STATE UNIV	1,153	0	0	0	0	125	0	0	43	0
CAPITAL UNIV	168	0	0	0	0	110	0	0	2,108	66
CASE WESTERN RESERVE UNIV	26,361	0	0	0	0	17,759	0	0	0	0
CEDARVILLE COL	54	0	0	0	0	50	0	0	0	0
CENTRAL STATE UNIV	1,376	0	0	0	0	1,043	0	0	48	265
CLARK CO TECHNICAL INST **	21	0	0	0	0	21	0	0	0	0
CLEVELAND INST OF ART	3	0	0	0	0	3	0	0	0	0
CLEVELAND INST OF MUSIC	21	0	0	0	0	21	0	0	0	0
CLEVELAND STATE UNIV	842	0	0	0	0	30	679	0	0	0
COL MT ST JOSEPH-ON-OHIO	124	0	0	0	0	124	0	0	0	0
COL OF STEUBENVILLE	112	0	0	0	0	112	0	0	0	0
COL OF MOOSTER	116	0	0	0	0	87	0	0	0	29
COLUMBUS COL ART & DESIGN	58	0	0	0	0	58	0	0	0	0
CUYAHOGA COMM COL **	350	0	0	0	0	350	0	0	0	0
DEFIANCE COL	168	0	0	0	0	158	0	0	0	10
DEISON UNIV	102	0	0	0	0	31	0	0	0	71
DYKE COL	8	0	0	0	0	8	0	0	0	0
EDGECLIFF COLLEGE	70	0	0	0	0	70	0	0	0	0
FINDLAY COL	122	0	0	0	0	122	0	0	0	0
FRANKLIN UNIV	5	0	0	0	0	5	0	0	0	0
HEIDELBERG COL	108	0	0	0	0	90	0	0	0	7
HIRAM COL	189	0	0	0	0	179	0	0	0	9
JOHN CARROLL UNIV	346	0	0	0	0	66	0	0	42	117
KENT STATE UNIV	2,333	0	0	0	0	247	0	0	0	717
KENYON COL	66	0	0	0	0	48	0	0	0	33
LAKE ERIE COL	13	0	0	0	0	0	3	0	0	10
LORAIN COUNTY COMM COL **	104	0	0	0	0	104	0	0	0	0
MAHONE COL	138	0	0	0	0	121	0	0	0	0
MARIETTA COL	165	0	0	0	0	165	0	0	0	0
MARYMANE COL	19	0	0	0	0	16	0	0	0	3
MED COL OF OHIO AT TOLEDO	1,359	0	0	0	0	1,319	0	0	40	15
MIAMI JACOBS JR COL RUS **	988	0	0	0	0	1,319	0	0	0	228

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TOTAL FEDERAL OBLIGATIONS
TO ALL UNIVERSITIES AND COLLEGES BY
STATE, INSTITUTION, AND AGENCY, FISCAL YEAR 1970
(THOUSANDS OF DOLLARS)

STATE AND INSTITUTION	TOTAL	AGR	AEC	COM	DOD	HEN	INT	NASA	NSF	OTHER
OHIO										
UNIV OF TOLEDO	849	0	45	0	11	606	0	20	167	0
URBANA COL	149	0	0	0	0	149	0	0	0	0
URSULINE COL	359	0	0	0	0	359	0	0	0	0
WALSH COL	416	0	0	0	0	416	0	0	0	0
WESTERN COL FOR WOMEN	30	0	0	0	0	30	0	0	0	0
WILBERFORCE UNIV	1,614	0	0	0	0	1,614	0	0	0	0
WILMINGTON COL	175	0	0	0	0	167	0	0	8	0
WITTENBERG UNIV	292	0	0	0	5	272	0	0	15	0
WRIGHT STATE UNIV	1,278	0	0	0	407	826	0	0	43	0
XAVIER UNIV	67	0	0	0	0	57	0	0	10	0
YOUNGSTOWN STATE UNIV	288	0	0	0	0	243	0	0	45	0
TOTAL OHIO	1,497,782	5,998	2,305	0	12,605	114,558	646	1,876	10,250	1,244
OKLAHOMA										
ALTUS JR COL**	18	0	0	0	0	18	0	0	0	0
BAUCON COL **	223	0	0	0	0	223	0	0	0	0
BARTLESVILLE MESSIAH COL	337	0	0	0	0	337	0	0	0	0
BETHANY-MAZARENE COL	161	0	0	0	0	159	0	0	2	0
CAMERON STATE AGR COL	159	0	0	0	0	157	0	0	2	0
CENTRAL STATE COL	508	0	0	0	0	504	0	0	4	0
COKORS STATE COLLEGE ***	139	0	0	0	0	139	0	0	0	0
EAST CENTRAL STATE COL	433	0	0	0	0	401	0	0	32	0
EASTERN OKLA STATE COL **	81	0	0	0	0	81	0	0	0	0
EL KENO COL **	341	0	0	0	0	341	0	0	0	0
LANGSTON UNIV	641	16	0	0	0	615	0	0	10	0
MURRAY STATE COLLEGE **	117	0	0	0	0	117	0	0	0	0
NORTHEASTERN OKLA A&M COL. **	151	0	0	0	0	151	0	0	0	0
NORTHEASTERN STATE COL	537	0	0	0	0	529	0	0	8	0
NORTHERN OKLAHOMA COL **	83	0	0	0	0	83	0	0	0	0
NORTHWESTERN STATE COL	113	0	0	0	0	101	0	0	12	0
OKLAHOMA BAPTIST UNIV	254	0	0	0	0	254	0	0	0	0
OKLAHOMA CHRISTIAN COL	234	0	0	0	0	234	0	0	0	0
OKLAHOMA CITY UNIV	172	0	0	0	0	151	0	0	21	0
OKLAHOMA COLL LIBERAL ARTS	153	0	0	0	0	153	0	0	0	0
OKLAHOMA MILITARY ACADEMY **	204	0	0	0	0	204	0	0	0	0
OKLAHOMA STATE UNIV	9,077	3,679	42	0	0	962	2,487	190	729	980

TABLE C-13 CONT'D
**TOTAL FEDERAL OBLIGATIONS
 TO ALL UNIVERSITIES AND COLLEGES BY
 STATE, INSTITUTION, AND AGENCY, FISCAL YEAR 1970**
 (THOUSANDS OF DOLLARS)

STATE AND INSTITUTION	TOTAL	AGR	AEC	COM	000	HEW	INT	NSA	NSF	OTHER
OREGON										
SOUTHERN OREGON COL.	538	0	0	0	17	403	0	118	0	0
SOUTHWEST OREG COIN COL **	44	0	0	0	0	44	0	0	0	0
TREASURE VALLEY COMM COL **	557	0	0	0	0	103	0	0	0	0
U OREGON DENTAL SCHOOL	312	112	0	0	0	312	0	0	0	0
U OREGON MEDICAL SCHOOL	6,406	0	0	0	0	6,294	0	0	0	0
UMPIQUA COMM COL **	32	397	0	0	0	32	0	0	0	0
UNIV OF OREGON AT EUGENE	14,116	0	0	0	0	6,897	10	277	4,920	792
UNIV OF PORTLAND	409	0	0	0	0	312	0	0	0	0
MARINER PACIFIC COL.	32	0	0	0	0	32	0	0	0	0
WILLAMETTE UNIV	121	0	0	0	0	86	0	0	35	0
TOTAL: OREGON	42,351	2,406	1,109	0	2,198	23,588	652	500	10,324	1,574
PENNSYLVANIA										
ALBRIGHT COL.	72	0	0	0	0	33	0	39	0	0
ALLEGIANCE COL.	76	0	0	0	0	62	0	14	0	0
ALLEGIANCE COUNTY COMM COL **	334	0	0	0	0	334	0	0	0	0
ALLIANCE COL.	33	0	0	0	0	33	0	0	0	0
ALMONT COL ST FR OESALES	62	0	0	0	0	62	0	0	0	0
ALVERIA COL.	34	0	0	0	0	34	0	0	0	0
BEAVER COL.	94	0	0	0	0	35	0	0	0	0
BLOOMSBURG STATE COL.	122	0	0	0	0	122	0	0	0	0
BRYN MARY COL.	855	0	0	0	0	713	0	0	0	0
BUCKNELL UNIV	1,256	0	0	0	0	388	0	0	0	0
BUCKS COUNTY COMM COL **	1,112	0	0	0	0	1,112	0	0	0	0
BUTLER COUNTY COMM COL **	15	0	0	0	0	15	0	0	0	0
CAMPION COL.	23	0	0	0	0	23	0	0	0	0
CALIFORNIA STATE COL.	377	0	0	0	0	377	0	0	0	0
CAROLIN COLLEGE	342	0	0	0	0	267	0	0	75	0
CARNegie MELLON UNIV	7,652	0	0	0	0	1,623	0	0	1,702	168
CEDAR CREST COL.	26	0	0	0	0	2,440	0	0	0	0
CHATHAM COL.	166	0	0	0	0	163	0	0	0	0
CHESTNUT HILL COL.	32	0	0	0	0	32	0	0	0	0
CHEYNEY STATE COL.	352	0	0	0	0	352	0	0	0	0
CLARION STATE COL.	426	0	0	0	0	416	0	0	0	0
COL. MISERICORDIAN	138	0	0	0	0	138	0	0	0	0
COMM COL OF BEAVER COUNTY **	31	0	0	0	0	31	0	0	0	0
COMM COL OF DELAWARE CNTY **	33	0	0	0	0	33	0	0	0	0
COMM COL OF PHILADELPHIA **	427	0	0	0	0	427	0	0	0	0
CROZER THEOL SEMINARY	7	0	0	0	0	7	0	0	0	0
DEL VALLEY COL SCI & AGR	136	0	0	0	0	136	0	0	0	0
DICKINSON COL.	167	0	0	0	0	167	0	0	0	0
DICKINSON SCHOOL OF LAW	11	0	0	0	0	11	0	0	0	0
DREXEL UNIVERSITY	4,019	0	0	0	0	45	0	0	0	0
DROPSE COL HERB COG LINC	21	0	0	0	0	21	0	0	45	0
DUQUESNE UNIV	875	0	0	0	0	822	0	0	10	0
EAST STONOSING STATE COL.	86	0	0	0	0	76	0	0	10	0
EASTERN BAPTIST COL.	43	0	0	0	0	43	0	0	0	0
EASTERN PILGRIM COL.	34	0	0	0	0	34	0	0	0	0
EDINBOR STATE COL.	439	0	0	0	0	439	0	0	382	57
ELIZABETHTOWN COL.	80	0	0	0	0	70	0	0	10	0
ELLEN CUSHING JR COL **	43	0	0	0	0	43	0	0	0	0
FRANKLIN AND MARSHALL COL.	492	0	0	0	0	492	0	0	152	13
GENEVA COL.	492	0	0	0	0	479	0	0	16	55

PENNSYLVANIA

ALBRIGHT COL.	72
ALLEGIENY COUNTY COMM COL.**	76
ALLIANCE COL.	334
ALLNTN COL. ST FR DESALES	62
ALVERNIA COL.	34
BEAVER COL.	94
BLOOMSBURG STATE COL.	122
BUCKNELL UNIV	1,256
BUTLER COUNTY COMM COL.**	15
CAMPUS COL. STATE COL.	23
CARLTON COLLEGE	342
CARNEGIE MELLON UNIV	7,632
CEDAR CREST COL.	26
CHATMAN COL.	166
CHESTNUT HILL COL.	32
CHEYNEY STATE COL.	352
CLARION STATE COL.	426
COL MISENICORONA	138
COMM COL OF BEAVER COUNTY **	31
COMM COL OF PHILADELPHIA **	33
CROZER THEOL SEMINARY	7
DEL VALLEY COL. SCI & AGR	167
DICKINSON COL.	11
DREXEL UNIVERSITY SCHOOL OF LAW	4,019
DROPSIE COL HEIR COG LRG	21
DUQUESNE UNIV	875
EAST STRONGSBURG STATE COL.	86
EASTERN BAPTIST COL.	43
EASTERN PILGRIM COL.	34
EDINBORO STATE COL.	439
ELIZABETHTON COL.	80
ELLEN CUSHING JR COL.**	43
FRANKLIN AND MARSHALL COL.	482
GAMMON COL.	692
GENEVA COL.	55
GETTYSBURG COL.	118
GROVE CITY COL.	2
GYNEDO-MERCY COL.	39
HAMMILL MED COL & HDSP	6,132
HARCOM JR COL.**	13
HARRISBURG AREA COMM COL.**	361
HAWEPON COL.	24
HOLY FAMILY COL.	78
IMMACULATA COL.	701
INDIANA UNIV OF PA	44
JUNIATA COL.	64
KEYSTONE JR COL.**	96
KINGS COL.	224
KUTZTOWN STATE COL.	130
LA ROCHE COL.	54
LACKAWANNA JR COL.**	3
LAFAYETTE COL.	120
LASALLE COL.	116
LEBANON VALLEY COL.	42
LEMIGH CO. COMMUNITY COL.**	30
LEMIGH UNIV	3
LINCOLN UNIV	1,076
LOCK HAVEN STATE COL.	338
LUZERNE COUNTY COMM COL.**	16
LYCOMING COL.	137

TABLE C-13 CONT'D

TOTAL FEDERAL OBLIGATIONS
TO ALL UNIVERSITIES AND COLLEGES BY
STATE, INSTITUTION, AND AGENCY, FISCAL YEAR 1970
(THOUSANDS OF DOLLARS)

STATE AND INSTITUTION	TOTAL	AGR	AEC	COM	000	HEN	INT	NASA	NSF	OTHER
PENNSYLVANIA										
MANOR JR COL **	10	0	0	0	0	10	191	0	0	0
MANSFIELD STATE COL	191	0	0	0	0	4	294	0	0	0
MARY IMMACULATE SEM & COL	4	0	0	0	0	0	2,285	0	0	0
MARYWOOD COL	294	0	0	0	0	0	46	154	0	0
MEDICAL COLLEGE OF PA	2,459	0	0	0	0	0	502	0	0	0
MERCYMAST COL	46	0	0	0	0	0	155	0	0	0
MESSIAH COL	502	0	0	0	0	0	62	0	0	0
MILLESPVILLE STATE COL	264	0	0	0	0	0	3	0	0	0
MONTGOMERY CITY COMM COL **	62	0	0	0	0	0	48	0	0	0
MOORE COL OF ART	3	0	0	0	0	0	43	0	0	0
MORAVIAN COL	33	0	0	0	0	0	0	0	0	0
MT ALIYOTS JR COL **	43	0	0	0	0	0	0	0	0	0
MULBEBERG COL	73	0	0	0	0	0	0	0	0	0
NEW CASTLE BUSINESS COL	38	0	0	0	0	0	38	0	0	0
NORTHAMPTON CITY COMM COL **	21	0	0	0	0	0	21	0	0	0
NORTHEASTERN CARBN STN JR COL **	41	0	0	0	0	0	41	0	0	0
OUR LADY OF ANGELS COL	14	0	0	0	0	0	14	0	0	0
PA COL OF PODIATRIC MED	531	0	0	0	0	0	531	0	0	0
PEIRCE JR COL **	25	0	0	0	0	0	25	0	0	0
PENNSYLVANIA COL OPTOMET	329	0	0	0	0	0	329	0	0	0
PENNSYLVANIA STATE UNIV	22,075	6,369	517	0	0	0	8,310	845	1,429	3,188
PHILA COL OF PHARM & SCI	497	0	0	0	0	0	440	0	0	51
PHILA COL OF TEXT & SCI	104	0	0	0	0	0	40	0	0	0
PHILA COL OSTEOPATHIC MED	916	0	0	0	0	0	916	0	0	0
PHILADELPHIA COL OF ART	552	0	0	0	0	0	52	0	0	0
PHILADELPHIA COL OF DENT	154	0	0	0	0	0	154	0	0	0
PHILADELPHIA MUSICAL ACO	46	0	0	0	0	0	46	0	0	0
PHILCO TECHNICAL INST	4	0	0	0	0	0	4	0	0	0
PMC COLLEGES	237	0	0	0	0	0	136	0	0	0
POINT PARK COL	182	0	0	0	0	0	182	0	0	0
ROBERT MORRIS COLLEGE	55	0	0	0	0	0	55	0	0	0
ROSENDON COL	20	0	0	0	0	0	20	0	0	0
SETON HILL COL	222	0	0	0	0	0	222	0	0	0
SHIPPSBURG STATE COL	239	0	0	0	0	0	179	0	0	0
SLIPPERY ROCK STATE COL	379	0	0	0	0	0	364	0	0	0
SPRING GARDEN COLLEGE	25	0	0	0	0	0	25	0	0	0
ST CHARLES BOARDING SEM	20	0	0	0	0	0	20	0	0	0
ST FRIDELIS COL & SEMINARY	10	0	0	0	0	0	10	0	0	0
ST FRANCIS COL	201	0	0	0	0	0	199	0	0	0
ST JOSEPHS COL	114	0	0	0	0	0	104	0	0	0
ST VINCENT COL	106	0	0	0	0	0	106	0	0	0
SUSQUEHANNA UNIV	109	0	0	0	0	0	83	0	0	0
SWARTHMORE COL	401	0	0	0	0	0	190	0	0	0

NORTH EASTON CNTY COMM COL **	21
NORTHEASTN CHR ISTN JR COL **	41
OUR LADY OF ANGELS COL	14
PA COL OF PSYCHIATRIC MED	531
PEARCE JR COL **	25
PENNSYLVANIA COL OPTOMET	329
PENNSYLVANIA STATE UNIV	6,369
PHILA COL OF PHARM & SCI	497
PHILA COL OF TEXT & SCI	104
PHILA COL OSTEOPATHIC MED	916
PHILADELPHIA COL OF ART	52
PHILADELPHIA COL OF BIBLE	154
PHILADELPHIA MUSICAL ACAD	46
PHILCO TECHNICAL INST	4
PHC COLLEGES	237
POINT PARK COL	162
ROBERT MORRIS COLLEGE	155
ROSEMONT COL	20
SETON HILL COL	222
SHIPPENSBURG STATE COL	239
SLIPPERY ROCK STATE COL	379
SPRING GARDEN COLLEGE	0
ST CHARLES BORROMEO SEM	25
ST FIDELIS COL & SEMINARY	20
ST FRANCIS COL	10
ST JOSEPHS COL	201
ST VINCENT COL	114
SUSQUEHANNA UNIV	106
SWARTHMORE COL	401
TEMPLE UNIV	16,022
THIEL COL	198
THOS JEFFERSON UNIV HOSP	0
UNIV OF PENNSYLVANIA	7,185
UNIV OF PITTSBURGH	37,074
UNIV OF SCRANTON	25,620
URSINUS COL	451
VALLEY FORGE MILIT JR COL **	3
VILLA MARIA COL	100
VILLANOVA UNIV	554
WASHINGTON & JEFFERSON COL	30
WAYNESBURG COL	84
WEST CHESTER STATE COL	426
WESTMINSTER COL	67
WILKES COL	653
WILLIAMSPORT AREA COMM COL **	550
WILSON COL	91
YORK COL OF PENNSYLVANIA	61
TOTAL PENNSYLVANIA	155,176
RHODE ISLAND	
BARRINGTON COL	72
BROWN UNIV	8,113
BRYANT COL	219
JOHNSONWALES JR COL BUS	86
MT ST JOSEPH COL	3
PROVIDENCE COL	732
RHODE ISLAND JR COL **	441
RHODE ISLAND SCH OESIGN	203
ROGER WILLIAMS COLLEGE	76
SALVE REGINA COL	224
SEMINARY OUR LADY OF PROV	120
UNIV OF RHODE ISLAND	13
TOTAL RHODE ISLAND	15,577
SOUTH CAROLINA	
ALLEN UNIV	619

TABLE C-33 CONT'D

TOTAL FEDERAL OBLIGATIONS
TO ALL UNIVERSITIES AND COLLEGES BY
STATE, INSTITUTION, AND AGENCY, FISCAL YEAR 1970
(THOUSANDS OF DOLLARS)

STATE AND INSTITUTION	TOTAL	AGR	AEC	COM	DDO	HEN	INT	NSF	NASA	OTHER
SOUTH CAROLINA										
ANDERSON COL **	10	0	0	0	0	0	0	0	0	0
BENEDICT COL	13	0	0	0	0	0	0	0	0	0
BARKLY-CIV-ORCHSTR TE ED CO **	699	0	0	0	0	0	0	0	0	0
CENTRAL WESLEYAN COL	24	0	0	0	0	0	0	0	0	0
CHESTERFIELD-MAR TECH CTR **	31	0	0	0	0	0	0	0	0	0
CITADEL THE MILIT COL S C	9	0	0	0	0	0	0	0	0	0
CLAFLIN COL	37	0	0	0	0	0	0	0	0	0
CLEMSON UNIV	742	0	0	0	0	0	0	0	0	0
COKER COL	6,426	4,278	46	0	0	0	0	0	0	0
COL OF CHARLESTON	367	0	0	0	0	0	0	0	0	0
COLUMBIA COL	46	0	0	0	0	0	0	0	0	0
CONVERSE COL	3	0	0	0	0	0	0	0	0	0
ERSKINE COL	40	0	0	0	0	0	0	0	0	0
FRIENDSHIP JR COL **	86	0	0	0	0	0	0	0	0	0
FURMAN UNIV	472	0	0	0	0	0	0	0	0	0
GREENVILLE TECH ED CTR **	35	0	0	0	0	0	0	0	0	0
FORAY-MAR-GERTMAN TECH ED**	16	0	0	0	0	0	0	0	0	0
LANDER COL	53	0	0	0	0	0	0	0	0	0
LIMESTONE COL	19	0	0	0	0	0	0	0	0	0
NEO UNIV OF S CAROLINA	4,358	0	0	0	0	0	0	0	0	0
MORRIS COL	415	0	0	0	0	0	0	0	0	0
NEWBERRY COL	22	0	0	0	0	0	0	0	0	0
NORTH GREENVILLE JR COL **	8	0	0	0	0	0	0	0	0	0
ORNGE-GR-CALMN TECH ED CTR **	17	0	0	0	0	0	0	0	0	0
PALMER COLLEGE **	139	0	0	0	0	0	0	0	0	0
PIEDMONT TECH ED CTR **	509	0	0	0	0	0	0	0	0	0
PRESBYTERIAN COL	22	0	0	0	0	0	0	0	0	0
RANCE-OARLINGTON TECH SCH **	63	0	0	0	0	0	0	0	0	0
RICHLAND TECH ED CTR **	42	0	0	0	0	0	0	0	0	0
SOUTH CAROLINA STATE COL	442	0	0	0	0	0	0	0	0	0
SPARTANBURG JR COL **	13	0	0	0	0	0	0	0	0	0
SPRINGB'R CNTY TECH ED CTR **	7	0	0	0	0	0	0	0	0	0
SUNTER AREA TECH ED CTR **	4	0	0	0	0	0	0	0	0	0
TRI-COUNTY TECH ED CTR **	27	0	0	0	0	0	0	0	0	0
UNIV OF SOUTH CAROLINA	3,049	0	0	0	0	0	0	0	0	0
YORKMEERS COL	545	0	0	0	0	0	0	0	0	0
WINTROP COL	152	0	0	0	0	0	0	0	0	0
WOFFORD COL	402	0	0	0	0	0	0	0	0	0
YORK COUNTY TECH ED CTR **	3	0	0	0	0	0	0	0	0	0
TOTAL SOUTH CAROLINA	20,036	4,295	128	0	0	493	11,775	184	130	2,713
SOUTH DAKOTA										
AUGUSTA COL	391	0	0	0	0	0	0	0	0	0
BLACK HILLS STATE COL	391	0	0	0	0	0	0	0	0	0
DAKOTA STATE COLLEGE	625	0	0	0	0	0	0	0	0	0
DAKOTA WESLEYAN UNIV	80	0	0	0	0	0	0	0	0	0
FREEMAN JR COL **	5	0	0	0	0	0	0	0	0	0
HURON COL	5	0	0	0	0	0	0	0	0	0
MT MARTY COL	81	0	0	0	0	0	0	0	0	0
NAT COLLEGE OF BUSINESS	118	0	0	0	0	0	0	0	0	0
NORTHERN STATE COL	118	0	0	0	0	0	0	0	0	0

TABLE C-13 COUNT•D
**TOTAL FEDERAL OBLIGATIONS
 TO ALL UNIVERSITIES AND COLLEGES BY
 STATE, INSTITUTION, AND AGENCY, FISCAL YEAR 1970
 (THOUSANDS OF DOLLARS)**

STATE	COLLEGE	NUMBER OF STUDENTS
TENNESSEE	FREED-HARDERAN COL.**	2,055
	GEORGE PEABODY COL. TCHRS	2,255
	KYNSASSEE COL.**	125
JACKSON STATE COMM COL.**	341	
KING COL.	220	
KNOXVILLE COL.	915	
LAMBUTH COL.	113	
LAKE COL.	993	
LE MOTT-OWEN COL.	625	
LEE COL.	213	
LINCOLN MEMORIAL UNIV.	85	
MATIN COL.**	37	
NAVYVILLE COL.	187	
MCKENZIE COL.	56	
MEMPHIS STATE UNIV.	1,428	
MIDDLE TERM STATE UNIV.	399	
HILLIGAN COL.	42	
MORALISTON COL.**	25	
MOTLOW STATE COMM COL.**	94	
NASHVILLE STATE TECH INST.**	16	
SCARANT COL. CHRISTN MARS	10	
SIERA COL.	25	
SOUTHERN COLL OF OPTOMETRY	636	
SOUTHERN MISSIONARY COL.	291	
SOUTHWESTERN AT MEMPHIS	172	
STATE TECH INST. MEMPHIS**	21	
TENNESSEE STATE UNIV.	1,086	
TENNESSEE TECHNOLOG. UNIV.	695	
TENNESSEE TEMPLE COL.	30	
TENNESSEE WESLEYAN COL.	50	
TREVCA HAZAREN COL.	224	
TUSCAL UNI.	98	
U OF TENN MED UNITS MEMPH	8,052	
UNION UNIV.	65	
UNIV. OF TENN AT CHATTNGA	1,135	
UNIV. OF TENN AT KNOXVILLE	1,434	
UNIV. OF TENN AT MARTIN	163	
UNIV. OF TENN CEN SYS**	418	
UNIV. OF THE SOUTH	112	
VANDERBILT UNIV.	15,322	
WALTERS STATE COMM COLL.**	39	
W.M. JENNINGS BRYAN COL.	77	
TOTAL TENNESSEE	5,611	
	62,295	
	2,189	
	290	
	1,733	
	5,652	
	4,929	

TEXAS

NEHARAY MEDICAL COL.**	6,967	6,967	0	0	0	0
MEMPHIS ACADEMY OF ARTS	6	6	0	0	0	0
MEMPHIS STATE UNIV.	1,428	1,428	28	252	252	28
MIDDLE TENN STATE UNIV.	399	399	0	113	113	0
MILLIGAN COL.	42	42	0	0	0	0
MORRISON COL.**	25	25	0	0	0	0
MOTON STATE COMM COL.**	54	54	0	0	0	0
NASHVILLE STATE TECH INST.**	16	16	0	0	0	0
SCARLETT COL. CHRISTIAN MRS	10	10	0	0	0	0
SIEA COL.	25	25	0	0	0	0
SOUTHERN COL. OF OPTOMETRY	636	636	0	0	0	0
SOUTHERN MISSIONARY COL.	291	291	0	291	25	0
SOUTHWESTERN AT MEMPHIS	172	172	0	154	154	0
STATE TECH INST. MEMPHIS**	21	21	0	21	16	0
TENNESSEE STATE UNIV.	1,086	1,086	0	997	10	0
TENNESSEE TECHNOLOGICAL UNIV	695	695	0	224	109	0
TENNESSEE TEMPLE COL.	30	30	0	30	359	0
TENNESSEE NELSELYAN COL.	50	50	0	50	0	0
TREVECCA NAZARENE COL.	224	224	0	224	0	0
TUSCALOOSA COL.	96	96	0	98	0	0
U OF TENN MED. UNITS MEMPH	6,052	103	0	15	7,928	0
UNION UNIV.	65	65	0	65	6	0
UNIV OF TENN AT CHATTANOOGA	1,135	0	0	1,105	0	0
UNIV OF TENN AT KNOXVILLE	16,434	5,592	1,4837	1,314	3,720	30
UNIV OF TENN AT MARTIN	163	0	0	147	0	1,395
UNIV OF TENN GEN. SYS*	416	0	0	0	0	16
UNIV OF THE SOUTH	112	0	0	0	0	18
VANDERBILT UNIV	15,322	0	201	404	12,982	70
WALTERS STATE COMM COL.**	39	0	0	0	156	76
WM JENNINGS BRYAN COL.	77	0	0	0	39	0
TOTAL TENNESSEE	62,295	5,611	2,189	1,733	46,232	4,929

Exas

ABILENE CHRISTIAN COL	312
ALVIN JR COL **	3
AMARILLO COL **	3
ANGELINA COL **	89
ANGLO STATE UNIVERSITY	193
AUSTIN COL	126
BAYLOR COL OF MEDICINE	14,135
BAYLOR COL	2,767
BEE COUNTY COL **	87
BISHOP COL	1,869
BALTIMORE COL **	95
BAZOSPORT JR COL **	69
BUTLER COL	12
CENTRAL TEXAS COL **	178
CHRISTIAN COL SOUTHWEST **	39
CISCO JR COL **	100
CLARENDRON COL **	56
COL OF THE MAIN AND **	3
CONCORDIA LUTH COL OF TEX **	16
COOKE COUNTY JR COL **	95
DALLAS BAPTIST COL	223
DALLAS COUNTY JR COL DIST **	236
DEL MAR COL **	132
DOMINICAN COLLEGE **	23
EAST FIELD COLLEGE **	554
EAST TEXAS BAPTIST COL	217
EAST TEXAS STATE UNIV	350
FORT WORTH CHRISTIAN COL **	20
FRANK PHILLIPS COL **	10
GALVESTON COLLEGE **	41
GRAYSON COUNTY JR COL **	91
GULF COAST BIBLE COL	6

TABLE C-33 CONT'D

**TOTAL FEDERAL OBLIGATIONS
TO ALL UNIVERSITIES AND COLLEGES BY
STATE, INSTITUTION, AND AGENCY, FISCAL YEAR 1970
(THOUSANDS OF DOLLARS)**

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TABLE C-13 CONT'D

TOTAL FEDERAL OBLIGATIONS
TO ALL UNIVERSITIES AND COLLEGES BY
STATE, INSTITUTION, AND AGENCY, FISCAL YEAR 1970
(THOUSANDS OF DOLLARS)

STATE AND INSTITUTION	TOTAL	AGR	AEC	COM	000	HEW	INT	NASA	NSF	OTHER
TEXAS										
UNIV OF TEXAS CEN SYS*	1,576	0	99	0	0	1,404	37	0	36	0
UNIV OF TEXAS MEDICAL SCH	2,101	0	0	122	1,557	0	0	0	44	378
MARYLAND BAPTIST COL	127	0	0	0	0	127	0	0	0	0
WEATHERFORD COL **	105	0	0	0	0	105	0	0	0	0
WEST TEXAS STATE UNIV	399	0	0	0	0	382	0	0	17	0
WHARTON COUNTY JR COL **	166	0	0	0	0	166	0	0	0	0
WILEY COL	166	0	0	0	0	166	0	0	0	0
TOTAL TEXAS	140,989	9,361	3,344	225	10,247	93,707	491	9,412	12,111	2,091
UTAH										
BRYN MARY COL	1,393	1	59	32	111	646	72	39	433	0
COLLEGE OF EASTERN UTAH**	48	0	0	0	0	48	0	0	0	0
DIXIE COL **	98	0	0	0	0	98	0	0	0	0
SNOW COLLEGE **	380	0	0	0	0	380	0	0	0	0
SOUTHERN UTAH STATE COLL	329	0	0	0	0	283	0	0	46	0
STEVENS MENAGER COL **	34	0	0	0	0	34	0	0	0	0
UNIV OF UTAH	24,973	0	1,138	4	2,898	16,849	864	160	2,113	947
UTAH STATE UNIV	6,958	1,389	83	0	1,171	1,559	783	88	1,382	503
UTAH TECHNICAL COL-PROVO**	77	0	0	0	0	77	0	0	0	0
UTAH TECHNICAL COL-SLT LK **	40	0	0	0	0	40	0	0	0	0
WEBER STATE COL	679	0	0	0	0	656	0	0	23	0
WESTMINSTER COL	43	0	0	0	0	43	0	0	0	0
TOTAL UTAH	35,052	1,390	1,280	36	4,180	20,713	1,719	287	3,997	1,450
VERMONT										
BENNINGTON COL	46	0	0	0	0	38	0	0	8	0
CASTILETON STATE COL	43	0	0	0	0	43	0	0	0	0
CHAMPLAIN COL **	214	0	0	0	0	214	0	0	0	0
COL OF ST JOSEPH THE PROV	6	0	0	0	0	6	0	0	0	0
GODDARD COL	53	0	0	0	0	53	0	0	0	0
GREEN MOUNTAIN COL **	8	0	0	0	0	8	0	0	0	0
JOHNSON STATE COL	119	0	0	0	0	119	0	0	0	0
LYNDON STATE COL	50	0	0	0	0	50	0	0	0	0
MARLBORO COL	62	0	0	0	0	62	0	0	0	0
MIDDLEBURY COL	144	0	0	0	0	89	0	0	55	0
NORWICH UNIV	23	0	0	0	0	23	0	0	0	0
ST MICHAELS COL	109	0	0	0	0	109	0	0	0	0
TRINITY COL	129	0	0	0	0	129	0	0	0	0
UNIV OF VERMONT	7,063	1,112	66	0	0	4,721	88	25	592	135
VERMONT COL	31	0	0	0	0	31	0	0	0	0
VERMONT TECHNICAL COL **	76	0	0	0	0	76	0	0	0	0
WINDHAM COL	137	0	0	0	0	108	0	0	29	0
TOTAL VERMONT	8,113	1,112	66	0	0	324	5,879	88	25	684

BRIGHAM YOUNG UNIV	1,393	1	59	32	111	646	72	39	433
COLLEGE OF EASTERN UTAH**	48	0	0	0	0	48	0	0	0
DIXIE COL **	98	0	0	0	0	98	0	0	0
SNOW COLLEGE **	380	0	0	0	0	380	0	0	0
SOUTHERN UTAH STATE COLL	329	0	0	0	0	283	0	0	0
STEVENS MENAGER COL **	34	0	0	0	0	34	0	0	46
UNIV OF UTAH	24,973	0	1,138	4	2,898	16,849	864	160	2,113
UTAH STATE UNIV	6,958	1,389	83	1,171	1,559	783	88	0	947
UTAH TECHNICAL COL-PROVO**	77	0	0	0	0	77	0	0	503
UTAH TECHNICAL COL-SLT LK **	40	0	0	0	0	40	0	0	0
WEBER STATE COL	679	0	0	0	0	656	0	0	0
WESTMINSTER COL	43	0	0	0	0	43	0	23	0
TOTAL UTAH	35,052	1,390	1,280	36	4,180	20,713	1,719	287	0
								3,997	1,450
VERMONT									
BENNINGTON COL	46	0	0	0	0	38	0	8	0
CASTLETON STATE COL	43	0	0	0	0	43	0	0	0
CHAMPLAIN COL **	214	0	0	0	0	214	0	0	0
COL OF ST JOSEPH THE PROV	6	0	0	0	0	6	0	0	0
GODDARD COL	53	0	0	0	0	53	0	0	0
GREEN MOUNTAIN COL **	8	0	0	0	0	8	0	0	0
JOHNSON STATE COL	119	0	0	0	0	119	0	0	0
LYNDON STATE COL	50	0	0	0	0	50	0	0	0
MARLBORO COL	62	0	0	0	0	62	0	0	0
MIDDLEBURY COL	144	0	0	0	0	89	0	55	0
NORWICH UNIV	23	0	0	0	0	23	0	0	0
ST MICHAELS COL	109	0	0	0	0	109	0	0	0
TRINITY COL	129	0	0	0	0	129	0	0	0
UNIV OF VERMONT	7,063	1,112	66	324	4,721	68	25	592	135
VERMONT COL	31	0	0	0	0	31	0	0	0
VERMONT TECHNICAL COL **	76	0	0	0	0	76	0	0	0
WINOMA COL	137	0	0	0	0	108	0	29	0
TOTAL VERMONT	8,313	1,112	66	324	5,879	68	25	684	135
VIRGINIA									
AVERETT COL	42	0	0	0	0	42	0	0	0
BLUE RIDGE COMMUNITY COL **	59	0	0	0	0	59	0	0	0
BAILEYWATER COL	66	0	0	0	0	86	0	0	0
CENTRAL VIRGINIA COMM COL **	37	0	0	0	0	37	0	0	0
COL OF WILLIAM AND MARY	1,235	0	0	0	0	191	0	194	0
COLLEGE OF THE POTOMAC	15	0	0	0	0	15	0	870	0
DABNEY LANCASTER COMM COL **	31	0	0	0	0	31	0	0	0
DANVILLE COMM COL **	23	0	0	0	0	23	0	0	0
EASTERN MENNOMITE COL	309	0	0	0	0	298	0	11	0
ENDRY & HENAY COL	111	0	0	0	0	111	0	0	0
FERKUM JR COL **	159	0	0	0	0	159	0	0	0
FRONT ROYAL-WIN COMM COLL **	14	0	0	0	0	14	0	0	0
GERMANY COMM COLLEGE **	13	0	0	0	0	13	0	0	0
HAMPDEN-SYDNEY COL	55	0	0	0	0	39	0	16	0
HAMPTON INST	809	0	0	0	0	538	0	115	156
HOLLINS COL	288	0	0	0	0	128	0	160	0
JOHN TYLER COMM COL **	37	0	0	0	0	37	0	0	0
LONGWOOD COL	68	0	0	0	0	68	0	0	0
LYNCHBURG COL	170	0	0	0	0	170	0	0	0
MADISON COL	159	0	0	0	0	96	0	63	0
MARY BALDWIN COL	16	0	0	0	0	16	0	0	0
MARYMOUNT COL **	12	0	0	0	0	12	0	0	0
NORFOLK STATE COL	1,007	0	0	0	0	1,075	0	0	12
NORTHERN VIRGINIA COMM CO **	982	0	0	0	0	982	0	0	0
OLD DOMINION UNIV	1,249	0	0	0	0	18	0	0	0
PAUL D CAMP COMMUNITY COL **	400	0	0	0	0	400	0	345	0
PRES SCH OF CHRISTIAN ED	6	0	0	0	0	6	0	0	0
RADFORD COL	362	0	0	0	0	361	0	1	0
RANDOLPH-MACON COL	29	0	0	0	0	27	0	2	0
RANDOLPH-MACON WOMANS COL	110	0	0	0	0	36	0	74	0

TABLE G-13 CONT'D
**TOTAL FEDERAL OBLIGATIONS
 TO ALL UNIVERSITIES AND COLLEGES BY
 STATE, INSTITUTION, AND AGENCY, FISCAL YEAR 1970**
(THOUSANDS OF DOLLARS)

STATE AND INSTITUTION	TOTAL	A&R	A&C	COM	DDO	HEN	INT	NASA	NSF	OTHER
VIRGINIA										
RAPPAHANNOCK COMMUNITY COL **	400									
ROANOKE COL	538									
SHERWOOD COL	20									
SOUTHSIDE VA COMMUNITY COL **	133									
SOUTHWEST VA COMM COL **	77									
ST PAULS COL	357									
STRATFORD COL	196									
SULLIVANS COL **	4									
SWEET BRIAR COL	263									
THOMAS NELSON COMM COL **	28									
TIDEWATER COMMUNITY COL **	19									
UNIV OF RICHMOND	103									
UNIV OF VIRGINIA	13,640									
VA COMMONWEALTH UNIV	15,545									
VA HIGH ANDS COMM COL **	15									
VIRGINIA INTERIOR COL	3									
VIRGINIA MILITARY INST	305									
VIRGINIA POLYTECHNIC INST	8,977									
VIRGINIA STATE COL	856									
VIRGINIA UNION UNIV	734									
VIRGINIA WESLEYAN COL	27									
VIRGINIA WESTERN COMM COL **	79									
WASHINGTON & LEE UNIV	97									
WHITEVILLE COMM COL **	121									
TOTAL VIRGINIA	50,510									
WASHINGTON										
BELLEVUE COMM COL **	53									
BIG BEAR COMM COL **	295									
CENTRAL MASH STATE COL	309									
CENTRALIA COL **	53									
CLARK COL **	35									
COLUMBIA BASIN COMM COL **	77									
EASTERN MASH STATE COL	521									
EDMONDS COMM COL **	51									
EVERETT COMM COL **	122									
FORT STELLACOMM COMM COLL **	12									
PORT WRIGHT COMM HOLY NAME	136									
GONZAGA UNIV	252									
GRAYS HARBOR COL **	57									
GREEN RIVER COMM COL **	123									
HIGHLINE COMMUNITY COLL **	132									
LOWER COLUMBIA COL **	54									
NDWEST COAST COL	44									
OLYMPIC COL **	75									
PACIFIC LUTHERAN UNIV	295									
PENINSULA COL **	76									
SEATTLE COMM COL **	979									
SEATTLE PACIFIC COL	366									
SEATTLE UNIV	547									
SHORELINE COMM COL **	148									
SKAGIT VALLEY COL **	23									
SPokane COMM COL **	101									
ST MARTINS COL	83									

WEST VIRGINIA

**BALDWINSON-BRADDOUS COL.
BECALEY COL.**
BETMANY COL.
BLUFFIELD STATE COL.
CONCORDO COL.
DAVIS & ELMINS COL.
FAIRBONN STATE COL.
FAYVILLE STATE COL.**

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TOTAL FEDERAL OBLIGATIONS
TO ALL UNIVERSITIES AND COLLEGES BY
STATE, INSTITUTION, AND AGENCY, FISCAL YEAR 1970
(THOUSANDS OF DOLLARS)

STATE AND INSTITUTION	TOTAL	ACR	AEC	CEN	DDO	HEN	INT	NSA	NSF	OTHER
WEST VIRGINIA										
MARSHALL UNIV	852									
MORRIS HARVEY COL	100									
OHIO VALLEY COL **	29									
POTOMAC ST COL OF W VA U **	91									
SALISH COL	591									
SHEPHERD COL	192									
WEST LIBERTY STATE COL	208									
WEST VIRGINIA INST TECH	1,774									
WEST VIRGINIA STATE COL	504									
WEST VIRGINIA UNIV	11,995	2,977								
WEST VIRGINIA WESLEYAN COL	658	0								
WHEELING COL	66	0								
TOTAL WEST VIRGINIA	19,207	2,977								
WISCONSIN										
ALVERNO COL	116									
BELoit COL	113									
CARDINAL STRITCH COL	18									
CARROLL COL	99									
CARTERAGE COL	72									
COLUMBIA COUNTY TECH COL **	1									
CONCORDIA COL **	9									
DISTRICT ONE TECH INST **	42									
DUKE COUNTY TECH COL **	5									
EVANSTON COL	43									
EDGEWOOD COL	51									
FOND DU LAC TECH INST **	3									
FOX VALLEY TECHNICAL INST **	3									
HOLY FAMILY COL	14									
INST OF PAPER CHEMISTRY	169									
Kenosha Technical Inst **	78									
LAKELAND COL	143									
LAWRENCE UNIV	174									
LAYTON SCHOOL OF ART	3									
MADISON AREA TECH COLLEGE **	325									
MARSH COL OF FOND DU LAC	27									
MARQUETTE UNIV	3,005									
MEOTICAL COLLEGE OF WISC	3,217									
MILTON COL	33									
MILWAUKEE AREA TECH COL **	91									
MILWAUKEE SCHOOL OF ENG	40									
MT MARY COL	93									
MT SAGRARIO COL	128									
MT ST PAUL COL	42									
NE WISCONSIN TECH INST **	3									

TABLE C-13 (CONT'D)

TOTAL FEDERAL OBLIGATIONS
TO ALL UNIVERSITIES AND COLLEGES BY
STATE, INSTITUTION, AND AGENCY, FISCAL YEAR 1970
(THOUSANDS OF DOLLARS)

STATE AND INSTITUTION	TOTAL	ACR	AEC	COM	DDO	HEW	INT	NSA	NSF	OTHER
WYOMING										
CENTRAL WYOMING COLLEGE	24	0	0	0	0	24	0	0	0	0
EASTERN WYOMING COLLEGE	19	0	0	0	0	19	0	0	0	0
NORTHWEST COMM. COL. ^{**}	28	0	0	0	0	24	0	0	0	4
SHERIDAN COLLEGE ^{**}	49	0	0	0	0	49	0	0	0	0
UNIV. OF WYOMING	4,518	1,128	116	15	21	1,534	551	117	1,036	0
WESTERN WYOMING COMM. COL. ^{**}	17	0	0	0	0	17	0	0	0	0
TOTAL WYOMING	4,781	1,128	116	15	21	1,791	551	117	1,036	0
OULYING AREAS										
GUAM										
UNIVERSITY OF GUAM	490	0	0	0	0	490	0	0	0	0
TOTAL GUAM	490	0	0	0	0	490	0	0	0	0
PUERTO RICO										
CATHOLIC UNIV. OF P.R.	410	0	0	0	0	404	291	0	0	6
COL. OF THE SACRED HEART	291	0	0	0	0	291	0	0	0	0
INTER AMER. UNIV. OF P.R.	952	0	0	0	0	899	0	0	0	53
PUERTO RICO JUN. COL. ^{**}	121	0	0	0	0	121	0	0	0	0
UNIV. OF P.R. CEN. SYST.	3,195	0	0	0	0	446	0	0	0	108
UNIV. OF P.R. MAYAGUEZ	4,004	4,042	0	0	0	67	57	0	0	38
UNIV. OF P.R. RIO PIEDRAS	2,063	0	0	0	0	22	2,636	0	0	205
UNIV. OF P.R. SAN JUAN	6,714	0	0	0	0	6,714	0	0	0	0
TOTAL PUERTO RICO	19,250	4,042	2,041	0	0	22	11,578	57	0	410
VIRGIN ISLANDS										
COL. OF VIRGIN ISLANDS	360	56	0	0	0	364	0	0	43	0
TOTAL VIRGIN ISLANDS	360	56	0	0	0	364	0	0	43	0
UNITED STATES TOTAL	3,226,737	1,02,054	114,485	4,922	2,091,010	27,714	131,231	387,374	62,423	

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FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT
TO ALL UNIVERSITIES AND COLLEGES BY
STATE, INSTITUTION, AND AGENCY, FISCAL YEAR 1970
(THOUSANDS OF DOLLARS)

STATE AND INSTITUTION	TOTAL	AGR	AEC	CON	DOD	HEW	INT	NASA	NSF	OTHER
ALABAMA										
ALA AGR AND MECH COL	67	26	0	0	0	0	35	6	0	0
ALABAMA STATE UNIVERSITY	5	5	0	0	262	262	194	212	0	0
AUBURN UNIV	2,0657	1,708	19	0	0	5	0	0	0	0
BIRMINGHAM-SOUTHERN COL	5	0	0	0	0	9	0	0	0	0
LIVINGSTON UNIVERSITY	9	0	0	0	0	0	0	0	0	0
CARROLL COL	25	0	0	0	0	0	0	0	0	0
TALLADEGA COL	19	0	0	0	0	0	0	0	0	0
TROY STATE UNIV	5	0	0	0	0	0	0	0	0	0
TUSKEGEE INST	481	228	36	0	0	5	0	0	0	0
U OF ALA IN BIRMINGHAM	6,677	0	0	104	0	173	24	20	0	0
U OF ALA IN MONTGOMERY	762	0	0	351	0	0	0	50	0	0
U OF ALA IN TUSCALOOSA	639	0	24	224	145	3	301	0	0	0
UNIV OF SOUTH ALA	9	0	0	0	0	0	0	0	0	0
TOTAL ALABAMA	11,560	1,967	79	941	0	7,131	232	212	0	0
ALASKA										
UNIV OF ALASKA	5,935	516	271	0	2,090	456	408	302	1,824	0
TOTAL ALASKA	5,935	516	271	0	2,090	456	408	302	1,824	0
ARIZONA										
ARIZONA STATE UNIV	1,031	0	89	0	238	369	0	42	295	0
NAVAJO COMMUNITY COLLEGE	748	0	0	0	10	0	0	0	0	738
NORTHERN ARIZ UNIV	103	59	0	0	0	0	0	0	45	0
PREScott COL	15	0	0	0	0	15	0	0	0	0
UNIV OF ARIZONA	8,227	799	360	0	2,613	1,390	198	1,552	1,201	108
TOTAL ARIZONA	10,124	857	449	0	2,651	1,783	198	1,594	1,541	644
ARKANSAS										
AG MECHANICAL COL OF ARK	22	22	0	0	0	0	0	0	0	0
ARK ST UNIV	15	0	0	0	0	0	0	0	15	0
HARDING COL	45	0	0	0	0	0	0	0	45	0
SOUTHERN ST COL	10	0	0	0	0	0	0	0	0	0
UNIV OF ARK	4,080	1,368	153	0	0	0	0	10	0	303
TOTAL ARKANSAS	4,172	1,390	153	0	0	0	0	2,040	139	60

TABLE C-14, CONT'D
**FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT
 TO ALL UNIVERSITIES AND COLLEGES BY
 STATE, INSTITUTION, AND AGENCY, FISCAL YEAR 1970**
 (THOUSANDS OF DOLLARS)

STATE AND INSTITUTION	TOTAL	AGR	AEC	COM	DOD	HEW	INT	NASA	NSF	OTHER
CALIFORNIA										
UNIV OF CAL BERKELEY	28,433	541	556	0	4,875	10,729	628	3,564	825	
UNIV OF CAL DAVIS	10,935	73	2,345	0	242	5,635	181	1,687	36	
UNIV OF CAL IRVINE	3,643	0	795	0	248	1,282	25	1,113	0	
UNIV OF CAL LOS ANGELES	35,206	0	4,956	5	6,216	16,873	328	2,439	94	
UNIV OF CAL RIVERSIDE	2,646	64	334	0	241	1,404	20	1,903	94	
UNIV OF CAL SAN DIEGO	34,933	0	2,027	49	10,463	7,731	20	3,463	574	
UNIV OF CAL SANTA CRUZ	504	0	30	0	58	211	0	60	11,020	
UNIV OF CAL CENTRAL SYST	1,408	1,608	0	0	0	0	0	0	145	
UNIV OF CAL SAN FRANCISCO	13,628	0	659	0	324	12,532	0	113	0	
UNIV OF CAL SANTA BARBARA	2,744	0	230	0	325	787	6	1,224	0	
UNIV OF REDLANDS	15	0	0	0	0	15	0	0	0	
UNIV OF SAN DIEGO	102	0	0	0	0	29	0	0	73	
UNIV OF SAN FRANCISCO	285	0	0	0	0	114	115	0	56	
UNIV OF SANTA CLARA	149	0	0	0	43	105	0	0	0	
UNIV OF SOUTHERN CAL	12,666	267	0	0	1,785	7,396	37	912	1,491	
UNIV OF THE PACIFIC	210	0	0	0	118	47	35	0	10	
WESTMONT COL	25	0	0	0	0	25	0	0	0	
TOTAL CALIFORNIA	206,670	2,355	15,078	77	39,525	85,488	2,032	21,938	36,165	4,012
COLORADO										
COLORADO COL	50	0	0	0	0	37	0	0	13	
COLORADO SCH OF MINES	1,203	0	0	241	3	1,468	162	202	597	
COLORADO STATE UNIV	9,360	1,042	269	95	1,061	0	789	482	3,902	
LITTLETON HEIGHTS CCL	5	0	0	0	0	5	0	0	0	
SOUTHERN COLORADO ST COL	61	0	0	0	0	0	0	0	0	
TRINIDAD STATE JR COL	3	0	0	0	0	0	3	0	0	
UNIV OF COLORADO	15,809	1	880	458	1,832	7,455	95	1,504	3,571	
UNIV OF DENVER	2,701	0	0	0	1,317	421	110	180	461	
UNIV OF NORTHERN COLORADO	74	0	0	0	5	69	0	0	0	
TOTAL COLORADO	29,468	1,042	1,149	794	4,218	9,475	1,159	2,368	8,544	519
CONNECTICUT										
CONNECTICUT COL	27	0	0	0	0	9	0	0	0	
FAIRFIELD UNIV	13	0	0	0	0	0	0	0	0	
NEW ENGLAND INST	45	45	0	0	0	0	0	0	0	
QUINNIPIAC COL	14	0	0	0	0	0	0	0	0	
SOUTHERN CONN STATE COL	33	0	0	0	0	0	33	0	0	
ST JOSEPH COL	5	0	0	0	0	0	0	0	5	
TRINITY COL	34	0	0	0	0	0	14	0	20	
UNIV OF BRIDGEPORT	20	0	0	0	0	0	20	0	0	
UNIV OF CONNECTICUT	4,707	354	92	50	425	2,789	220	94	693	
UNIV OF HARTFORD	138	0	0	0	0	0	126	0	12	
WESLEYAN UNIV	722	0	0	0	15	39	161	0	228	
WESTERN CONN STATE COL	10	0	0	0	0	0	0	0	10	
YALE UNIV	20,120	0	0	0	1,631	11,271	1	694	3,216	
TOTAL CONNECTICUT	25,388	354	3,643	65	2,104	14,426	221	1,025	4,249	11

	2,395	15,078	77	39,925	85,488	2,032	21,938	36,165	4,012
TOTAL CALIFORNIA	206,670								
COLORADO									
COLORADO COL.	1,205	0	0	0	0	0	37	0	0
COLORADO SCH OF MINES	1,560	1,042	249	93	1,061	1,488	162	202	13
COLORADO STATE UNIV	5	0	0	0	0	0	0	0	0
LORETO HEIGHTS COL	0	0	0	0	0	0	0	0	0
SOUTHERN COLORADO ST COL	61	0	0	0	0	0	0	0	0
TRINIDAD STATE JR COL	3	0	0	0	0	0	0	0	0
UNIV OF COLORADO	15,309	0	0	458	1,032	7,455	95	1,504	3,971
UNIV OF DENVER	2,701	0	0	450	1,317	421	110	380	461
UNIV OF NORTHERN COLORADO	74	0	0	0	5	69	0	0	0
TOTAL COLORADO	29,460	1,042	1,149	794	4,218	9,475	1,159	2,568	8,544
CONNECTICUT									
CONNECTICUT COL	27	0	0	0	0	0	0	0	0
FAIRFIELD UNIV	13	0	0	0	0	0	0	0	0
NEW HAVEN INST	45	0	0	0	0	0	0	0	0
QUINNIPIAC COL	14	0	0	0	0	0	0	0	0
SOUTHERN CONN STATE COL	33	0	0	0	0	0	0	0	0
ST JOSEPH COL	5	0	0	0	0	0	0	0	0
TRINITY COL	34	0	0	0	0	0	0	0	0
UNIV OF NEW HAMPSHIRE	20	0	0	0	0	0	0	0	0
UNIV OF CONNECTICUT	4,107	354	92	39	425	2,789	220	633	633
UNIV OF HARTFORD	138	0	0	0	0	0	0	0	0
WESLEYAN UNIV	722	0	0	15	39	141	0	228	299
WESTERN CONN STATE COL	10	0	0	0	0	0	0	0	0
YALE UNIV	20,120	0	0	3,306	0	1,631	11,271	1	694
TOTAL CONNECTICUT	25,988	354	3,443	65	2,104	1,426	221	1,025	4,269
DELAWARE									
DELAWARE STATE COL	21	12	0	0	0	0	0	0	0
UNIV OF DELAWARE	1,920	477	30	30	726	158	158	336	336
TOTAL DELAWARE	1,971	489	30	30	726	158	158	336	336
DIST OF COLUMBIA									
AMERICAN UNIVERSITY	1,817	0	0	0	1,449	159	49	0	0
CATHOLIC UNIV OF AMERICA	2,096	13	0	0	1,979	490	0	159	260
COLUMBIA COL HOLY CROSS	0	0	0	0	0	0	0	0	0
FEDERAL CITY COL	28	0	0	0	0	0	0	0	0
GALLaudet COL	330	0	0	0	1,639	4,264	47	1,298	205
GEORGE WASHINGTON UNIV	7,906	0	10	52	2,778	2,684	216	649	443
HOWARD UNIV	4,103	1,480	70	90	22	774	0	174	216
TRINITY COL	4	0	0	0	0	0	0	0	0
TOTAL DISTRICT OF COLUMBIA	17,777	70	241	70	4,687	8,707	192	1,738	1,329
FLORIDA									
FLORIDA AGR & MECH UNIV	30	20	0	0	0	0	10	0	0
FLORIDA ATLANTIC UNIV	140	0	0	0	0	0	0	0	0
FLORIDA INST OF TECH	101	0	0	0	0	0	0	0	0
FLORIDA PRESBYTERIAN COL	11	0	0	0	0	0	0	0	0
FLORIDA STATE UNIV	3,769	0	0	1,166	0	1,166	0	1,166	1,166
FLORIDA TECHNOLOGICAL UNIV	34	0	0	0	0	0	0	0	0

92 TABLE C-26 CONT'D

FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT
TO ALL UNIVERSITIES AND COLLEGES BY
STATE, INSTITUTION, AND AGENCY, FISCAL YEAR 1970
(THOUSANDS OF DOLLARS)

STATE AND INSTITUTION	TOTAL	AGR	AEC	COM	DOD	HED	INT	NASA	NSF	OTHER
FLORIDA										
NOVA UNIV	461	0	41	0	284	165	0	0	171	0
STETSON UNIV	17	0	0	0	17	0	0	0	0	0
UNIV OF FLORIDA	11,349	1,277	388	0	1,850	4,920	329	487	1,288	910
UNIV OF MIAMI	12,528	0	319	84	2,367	5,441	505	375	3,287	148
UNIV OF SOUTH FLORIDA	911	0	0	35	0	304	0	10	1,162	0
TOTAL FLORIDA	31,111	1,297	1,914	115	6,374	11,898	834	1,110	6,314	1,255
GEORGIA										
ATLANTA UNIV	276	0	0	0	0	34	0	0	234	0
CLARK COL	37	0	0	0	0	37	0	0	0	0
SHORT UNIV	6,295	0	74	0	163	5,408	0	345	273	30
PORT VALLEY STATE COL	35	0	250	0	0	0	0	0	0	0
GEORGIA INST OF TECH	5,793	10	250	0	3,289	349	201	948	613	108
GEORGIA SOUTHERN COL	64	0	0	0	0	21	0	0	0	0
GEORGIA STATE UNIVERSITY	65	0	0	0	24	34	0	0	0	5
MECHICAL COL OF GEORGIA	1,423	0	23	0	60	1,340	0	0	0	0
MERCER UNIV	1	0	0	0	0	1	0	0	0	0
MONTGOMERY COL	12	0	0	0	0	0	0	0	0	0
UNIV OF GEORGIA	6,911	2,079	630	70	459	1,345	0	0	12	0
WEST GEORGIA COL	28	0	0	0	0	0	0	0	2,139	11
TOTAL GEORGIA	20,942	2,132	979	75	3,997	8,569	354	1,318	2,28	368
HAWAII										
UNIV OF HAWAII	957	951	90	2,169	2,169	2,692	129	1,103	3,207	0
TOTAL HAWAII	10,498	957	0	0	0	0	0	0	0	0
IDAHO										
BORDEAUX STATE COLLEGE	49	0	0	0	0	48	1	0	0	12
IDAHO STATE UNIV	1,301	0	797	797	0	0	13	281	24	0
TOTAL IDAHO	1,359	0	0	0	0	0	0	281	24	0
ILLINOIS										
BRAUER UNIV	13	0	0	0	0	0	0	15	420	0
CHICAGO MEDICAL SCHOOL	435	0	0	0	0	0	4	0	0	0
CITY COLLEGES OF CHICAGO	4	0	0	0	0	0	0	0	0	0
DEPAUL UNIV	114	0	0	0	0	0	0	0	114	0
ILLINOIS INST OF TECH	5,965	45	0	0	0	0	0	0	2,993	159
INDUS. CO.	4	0	0	0	0	0	0	0	23	0

PORT VALLEY STATE COL	0
GEORGIA INST OF TECH	2,795
GEORGIA SOUTHERN COL	2,793
GEORGIA STATE UNIVERSITY	1,644
MEDICAL COL OF GEORGIA	1,653
MERCER UNIV	1,423
MORROW COL	12
UNIV OF GEORGIA	6,911
WEST GEORGIA COL	2,079
TOTAL GEORGIA	20,942
HAWAII	0
UNIV OF HAWAII	10,498
TOTAL HAWAII	10,498
IDAHO	0
BOISE STATE COLLEGE	297
IDAHO STATE UNIV	557
UNIV OF IDAHO	1,301
TOTAL IDAHO	1,358
ILLINOIS	0
SAINT LEO UNIV	13
CHICAGO MEDICAL SCHOOL	439
CITY COLLEGES OF CHICAGO	4
DEPAUL UNIV	114
ILLINOIS INST OF TECH	5,065
ILLINOIS ST UNIV	45
KNOX COL	6
LAKE FOREST COL	11
LOYOLA UNIV	684
NORTHEASTERN ILLINOIS UNIV	309
QUINCY COL	10,117
ROOSEVELT UNIV	10
SOUTHERN ILL CARBONDALE	339
SOUTHERN ILL BEMIDJI	33
ST PROCOPIUS COL	139
TRITON COL	64
UNIV OF CHICAGO	87
UNIV OF ILL CIN SYR	26,467
UNIV OF ILLINOIS-CHICAGO	484
UNIV OF ILLINOIS-MID CTY	1,376
UNIV OF ILLINOIS-URBANA	3,618
WESTERN ILLINOIS UNIV	30,446
TOTAL ILLINOIS	80,883
INDIANA	0
BALL STATE UNIV	34
BUTLER UNIV	1
DEPAGO UNIV	13
INDIANA STATE UNIV	41
INDIANA UNIV-BLOOMINGTON	6,789
INDIANA UNIV-INDIANAPOLIS	3,397
PURDUE UNIV	12,290
ROSE POLYTECH INST	36
UNIV OF NOTRE DAME	3,135
TOTAL INDIANA	25,736
IOWA	0
COL OF OSTEOPATH MED SURG	21

TABLE C-1b (CONT'D)

**FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT
TO ALL UNIVERSITIES AND COLLEGES BY
STATE INSTITUTION, AND AGENCY, FISCAL YEAR 1970**

STATE AND INSTITUTION	TOTAL	AGC	AEC	CAN	DDO	HED	INT	M&A	NSF	OTHER
IAWA										
DRAKE UNIV	94	0	0	0	0	54	0	0	0	0
GARRELL COL	24	0	0	0	0	3	0	0	19	0
IDA ST U OF SCIENCE & TECH	4,430	1,838	31	0	404	1,337	429	37	390	134
UNIV OF IOWA	9,995	11	94	0	1,054	5,794	66	0	842	144
UNIV OF NORTHERN IOWA	15	0	0	0	1,490	15	0	0	0	260
TOTAL IOWA	14,791	1,849	125	0	7,228	0	1,271	0	0	0
KANSAS										
KANS ST COL OF PITTSBURG	9	0	0	0	0	40	0	0	0	0
KANSAS STATE TECHS COL	40	0	0	0	0	726	215	24	640	165
KANSAS STATE UNIV	3,831	1,071	303	0	600	623	4,144	913	1,063	170
UNIV OF KANSAS	7,010	0	341	0	0	0	12	0	0	0
WICHITA STATE UNIV	12	0	0	0	0	0	10	0	0	315
WICHITA STATE UNIV	33	0	23	0	0	1,223	0	0	0	0
TOTAL KANSAS	10,795	1,078	667	0	0	4,931	0	1,753	0	0
KENTUCKY										
BELLARMINE-URSULINE COL	13	0	0	0	0	13	0	0	0	0
EASTERN KENTUCKY UNIV	328	0	0	0	0	0	0	0	0	928
KENTUCKY STATE COL	19	19	0	0	0	0	0	0	0	0
MORSEMAN STATE UNIV	214	0	0	0	0	0	0	0	0	201
UNIV OF MONTGOMERY	7,114	2,909	87	0	123	854	2,221	0	674	42
UNIV OF LOUISVILLE	1,290	0	0	0	0	267	0	0	0	77
WESTERN KENTUCKY UNIV	74	0	0	0	0	0	74	0	0	0
TOTAL KENTUCKY	9,256	2,927	93	0	123	1,134	3,322	0	0	0
LOUISIANA										
DELGAZO COL	171	0	0	0	0	0	0	0	0	0
FRANCIS T NICHOLLS ST COL	114	0	0	0	0	0	0	0	0	0
GRAMBLING COL	27	0	0	0	0	0	0	0	0	0
LA ST UNIV BATON ROUGE	5,404	1,241	200	0	0	784	439	116	1,961	20
LA ST UNIV NEW ORLEANS	610	0	0	0	0	0	0	0	0	0
LA ST UNIV MEDICAL CTR	1,067	0	0	0	0	0	0	0	1,051	14
LOUISIANA TECH UNIVERSITY	49	34	0	0	0	0	0	0	0	0
LOYOLA UNIV	30	0	0	0	0	0	0	0	0	30
LSU CENTRAL SYSTEM	17	0	0	0	0	0	0	0	0	0
NORTHEAST LOUISIANA UNIV	12	0	0	0	0	0	0	0	0	0
SOUTHERN ST CCC OF LA	32	0	0	0	0	0	0	0	0	0
TULANE UNIV	7,201	31	0	0	0	130	0	0	0	228
UNIV OF SOUTHWESTERN LA	36	0	77	0	0	0	0	0	0	102
XAVIER U OF LOUISIANA	9	0	0	0	0	0	0	0	0	0
TOTAL LOUISIANA	19,198	1,904	277	0	130	0	0	0	0	469
MAINE										
DATES COL	7	0	0	0	0	0	0	0	0	0
BOWDISH COL	39	0	0	0	0	0	0	0	0	0
COLBY COL	10	0	0	0	0	0	0	0	0	0
UNIV OF MAINE ORONO	1,254	807	0	0	0	0	0	0	0	116

TABLE C-1a, CONT'D

FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT
TO ALL UNIVERSITIES AND COLLEGES BY
STATE, INSTITUTION, AND AGENCY, FISCAL YEAR 1970
(THOUSANDS OF DOLLARS)

STATE AND INSTITUTION	TOTAL	AGR	AEC	COM	DOO	HBN	INT	NSA	NSP	OTHER	
MASSACHUSETTS											000000000000
BRIDGEWATER STATE COLLEGE	31	0	0	0	0	0	4	225	0	27	000000000000
CLARK UNIV	480	0	23	0	0	0	28	0	29	156	000000000000
COL. OF THE HOLY CROSS	49	0	0	0	0	0	0	0	0	24	000000000000
EMERSON COL	4	0	0	0	0	0	0	0	0	0	000000000000
EMMANUEL COL	328	0	0	0	0	0	0	0	0	0	000000000000
FORSYTH SCH DENT HYGNT'S	90	0	0	0	0	0	0	0	0	0	000000000000
GORDON COL	2	0	0	0	0	0	0	0	0	0	000000000000
HANOVER COLLEGE	54	0	0	0	0	0	0	0	0	0	000000000000
HARVARD UNIV	37,346	1,783	174	2,998	20,562	95	5,128	6,002	0	27	000000000000
LORBER TECHNOLOGICAL INST	697	0	0	525	0	0	172	0	0	156	000000000000
MASS. COL. OF OPTOMETRY	3	0	0	0	0	0	0	0	0	0	000000000000
MASS. COL. OF PHARMACY	3	0	0	0	0	0	0	0	0	0	000000000000
MASS. INST OF TECH	92,309	7,563	109	44,086	7,777	3	5,664	26,013	4,56	142	000000000000
MASS. STATE COMM. COL.	2	0	0	0	0	0	0	0	0	0	000000000000
MIT, INSTITUTE COL	10	0	0	0	0	0	0	0	0	0	000000000000
NORTHEASTERN UNIV	1,655	1,193	0	0	1,131	255	0	0	0	142	000000000000
REGIS COL	193	0	0	0	193	0	0	0	0	0	000000000000
SMITH COL	16	0	27	0	0	0	0	0	0	0	000000000000
SOUTHEASTERN MASS. UNIV	11	0	0	0	0	0	0	0	0	0	000000000000
SUFFOLK UNIV	24	0	0	0	0	0	0	0	0	0	000000000000
TUFTS UNIV	4,354	390	0	0	393	2,026	0	0	0	339	000000000000
UNIV. OF MASSACHUSETTS	4,807	1164	225	0	473	1,441	0	0	0	1,158	000000000000
WELLESLEY COL	93	0	0	0	0	0	0	0	0	0	000000000000
WENDELL WINT	779	0	0	0	0	0	0	0	0	0	000000000000
WEHATON COL	2	0	0	0	0	0	0	0	0	0	000000000000
WILLIAMS COL	211	0	0	0	0	0	0	0	0	74	000000000000
WOODS HOLE OCEAN INST	9,873	0	0	0	0	0	0	0	0	3,262	000000000000
WORCESTER POLYTECH INST	3,64	0	0	0	0	0	0	0	0	61	000000000000
TOTAL MASSACHUSETTS	163,904	784	11,100	283	50,327	39,031	1,443	33,160	2,459	19,079	000000000000
Michigan											000000000000
ALBION COL	14	0	0	0	0	0	0	0	0	0	000000000000
ALMA COL	12	0	0	0	0	0	0	0	0	0	000000000000
ANDREWS UNIV	20	0	0	0	0	0	0	0	0	0	000000000000
CALVIN COL	95	0	0	0	0	0	0	0	0	0	000000000000
EASTERN MICHIGAN UNIV	38	0	0	0	0	0	0	0	0	32	000000000000
HOPKINS COL	22	0	0	0	0	0	0	0	0	22	000000000000
KALAMAZOO COL	22	0	0	0	0	0	0	0	0	0	000000000000
MERCY COL OF DETROIT	14	0	0	0	0	0	0	0	0	0	000000000000
MERRIL-PALMER INST	10	0	0	0	0	0	0	0	0	10	000000000000
NICH. COL. OSTEOPATHIC MED	39	0	0	0	0	0	0	0	0	39	000000000000

SUFFOLK UNIV	24	0
TUFTS UNIV	4,354	390
UNIV OF MASSACHUSETTS	4,807	784
MELISSALEY COL	93	223
NEW NORTH INST	779	0
WHEATON COL	2	0
WILLIAMS COL	211	0
WOODS HON & OCEAN INST	9,873	0
WORCESTER POLYTECH INST	364	0
TOTAL MASSACHUSETTS	165,904	784

MICHIGAN

ALBION COL	10	0
ALMA COL	4	0
ANDREWS UNIV	12	0
CALVIN COL	20	0
EASTERN MICHIGAN UNIV	93	0
HOPKINS COL	39	0
HALAMAZOO COL	22	0
MERCY COL OF DETROIT	15	0
MERRILL-PALMER INST	19	0
MICH COL OSTEOPATHIC MED	39	0
MICH TECNOLGICAL UNIV	316	0
MICHIGAN STATE UNIV	10,930	1,930
OAKLAND STATE UNIV	391	0
SIGMA HEIGHTS COL	6	0
UNIV OF DETROIT	210	0
UNIV OF MICHIGAN	36,550	45
JAYNE STATE UNIV	4,261	140
WESTERN MICH UNIV	393	0
TOTAL MICHIGAN	52,917	1,670

MINNESOTA

CARLETON COL	12	0
HARVARD UNIV	99	0
MACALESTER COL	28	0
MANKATO STATE COL	4	0
NORTHHEAD STATE COL	35	0
NORTH CENTRAL BIBLE COL	62	0
ST OLAF COL	39	0
UNIV OF MINNESOTA	24,719	1,673
VIRGINIA STATE COL	10	0
TOTAL MINNESOTA	25,012	1,673

MISSISSIPPI

ALCORN A&M MICH COL	22	22
MARY HOBES COLLEGE	120	0
MISSISSIPPI STATE UNIV	3,142	1,960
UNIV OF MISSISSIPPI	2,939	17
TOTAL MISSISSIPPI	6,229	1,999

MISSOURI

KANSAS CITY COL OF OPTOP	1	0
KIRKSVILLE COL OF OPTOP	43	0

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CONTÍDIO

**PEERLESS OBLIGATIONS FOR RESEARCH AND DEVELOPMENT
TO ALL UNIVERSITIES AND COLLEGES BY
INSTITUTION, AND AGENCY, FISCAL YEAR 1970**
(THOUSANDS OF DOLLARS)

NEBRASKA

CONCORDIA TECH COL
CREIGHTON UNIV
DANA COL
HASTINGS COL
U OF NEB NEB CTR AT OMAHA
UNIV OF NEBRASKA CEN SYSP
UNIV OF NEBRASKA-LINCOLN
UNIV OF NEBRASKA-OMAHA
TOTAL NEBRASKA

7
419
27
19
1,070
1,049
1,576
9,360

193
193
433
466

NEVADA

DESERT RESEARCH INSTITUTE
UNIV OF NEV RENO CAMPUS
UNIV OF NEVADA LAS VEGAS
TOTAL NEVADA

219
465
62
465

190
62
242

193

DARTMOUTH COL
FRANKLIN PIERCE COL
UNIV OF NH DURHAM
TOTAL NEW HAMPSHIRE

NEW JERSEY

PALESTINE ORCHARDSON UNIV.
NEWARK CITY STATE COL
NEWARK COA
N J COL OF PROSTODONTISTRY
NEWARK COL OF ENGINEERING
PRINCETON UNIV
RIDER COL
RUTGERS UNIVERSITY
SETON HALL UNIV
STEVENS INST OF TECH
TOTAL NEW JERSEY

NEW MEXICO

EASTERN NEW MEXICO UNIV
NEW MEX INST MINING & TEC
NEW MEXICO HIGH LANDS UNIV
NEW MEXICO STATE UNIV
UNIV OF ALBUQUERQUE
UNIV OF NM NEW MEXICO
TOTAL NM NEW MEXICO

NEW YORK

ADELPHI UNIV
ALBANY COL OF PHARMACY
ALBANY MEDICAL COL

109
12
3,004

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FEDERAL GRANTS FOR RESEARCH AND DEVELOPMENT
TO ALL UNIVERSITIES AND COLLEGES BY
STATE, INSTITUTION, AND AGENCY, FISCAL YEAR 1970
(THOUSANDS OF DOLLARS)

STATE AND INSTITUTION	TOTAL	AER	ABC	CDA	DOE	HHS	INT	NASA	NES	NSF	OTIMA
NEW YORK											
ALBANY UNIV	0										
BAHN STREET COL OP ED	23										
CLARKSON COL	247										
COL. OF PHARMACEUTICAL SCI	509										
COL STATE UNIV	65										
COLUMBIA UNIV	34,966										
COOPER UNION CDA SYSTEM	129										
CORNELL UNIV	43										
CURRY BROOKLYN COL	77										
CURRY BROWN COMM COL	54										
CURRY CENTRAL SYSTEM	1,076										
CURRY CITY COL	789										
CURRY MARTIN COL	205										
CURRY LEHIGH COL	14										
CURRY NT SIMAI SCH OF MED	7,128										
CURRY QUEENS COL	184										
DEVONIALE COL	3										
DOMINICAN COL OF BLAUVILLE	8										
DOWLING COLLEGE	7										
DUQUESNE OBSERVATORY	678										
FORDHAM UNIV	322										
HAMILTON COL	14										
HOTSTRA UNIV	119										
LONG ISLAND UNIVERSITY	230										
MANHATTAN COL	110										
N Y INST OF TECHNOLOGY	919										
NEW SCHOOL FOR SOCIAL RES	104										
NEW YORK MEDICAL COL	3,980										
NEW YORK UNIV	31,997										
POLYTECHNIC INST OF BROOKLYN	2,884										
Rensselaer Polytech Inst	4,734										
ROCHESTER INST OF TECH	163										
ROCHESTER UNIV	4,440										
SUNY ALBANY	9										
ST. JOHNS UNIV	79										
ST LAWRENCE UNIV	67										
SUNY A&T COL ALBANY	32										
SUNY CENTRAL SYSTEM	763										
SUNY COL BRONXPORT	31										
SUNY COL BUFFALO	36										
SUNY COL CORNING	34										
SUNY COL FORESTY SYR U	279										
SUNY COL FREEDOM	74										
SUNY COL NEW PALTZ	10										
SUNY COL OSWEGO	22										
SUNY COL PLATTSBURGH	22										
SUNY DOWNSTATE MED CTR	3,661										

NORTH CAROLINA

16,164	1,9
797	0
31	0
111	0
9	0
297	0
7,056	2,497
16	0
46	0
118	0
44	0
10,933	442
1,937	0
24	0
1,784	39

TABLE C-15, CONT'D

FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT
TO ALL UNIVERSITIES AND COLLEGES BY
STATE, INSTITUTION, AND AGENCY, FISCAL YEAR 1970
(THOUSANDS OF DOLLARS)

STATE AND INSTITUTION	TOTAL	AGC	AFC	GCR	BDO	HRS	INT	NASA	NSF	OTHER
NORTH CAROLINA										
WESTERN CAROLINA UNIV	100	2,920	1,657	100	5,439	21,239	0	0	3,552	1,216
TOTAL, NORTH CAROLINA	36,920	2,920	1,657	129	5,439	21,239	268	868	0	0
NORTH DAKOTA										
MINOT ST COL	34	0	0	0	121	189	34	62	15	0
NORTH DAKOTA STATE UNIV	1,260	788	50	44	121	271	782	14	55	70
UNIV OF NORTH DAKOTA	1,170	788	50	44	121	440	878	101	0	0
TOTAL, NORTH DAKOTA	21,464	788	50	44	121	440	878	101	0	0
OHIO										
ANTIOCH COL	110	0	0	0	0	0	19	0	0	0
BOWLING GREEN STATE UNIV	152	0	0	0	0	0	94	0	0	0
CASE WESTERN RESERVE UNIV	13,743	0	0	0	0	0	7,949	0	0	0
CENTRAL STATE UNIV	285	0	0	0	0	0	2,123	0	0	0
CLEVELAND STATE UNIV	97	0	0	0	0	0	30	0	0	0
COL OF WOOSTER	14	0	0	0	0	0	14	0	0	0
DENISON UNIV	14	0	0	0	0	0	10	0	0	0
HEIDELBERG COL	9	0	0	0	0	0	42	0	0	0
Hiram COL	10	0	0	0	0	0	0	0	0	0
JOHN CARROLL UNIV	108	0	0	0	0	0	0	0	0	0
KENT STATE UNIV	932	0	0	0	0	0	247	0	0	0
KEVYON COL	47	0	0	0	0	0	27	0	0	0
KNOX COL OF OHIO AT TOLEDO	430	0	0	0	0	0	390	0	0	0
MIAMI UNIV	314	0	0	0	0	0	186	0	0	0
OBERLIN COL	111	0	0	0	0	0	43	0	0	0
OHIO NORTHERN UNIV	3	0	0	0	0	0	38	0	0	0
OHIO STATE UNIV	16,159	1,851	0	0	0	0	3,336	0	0	0
OHIO UNIV	385	0	0	0	0	0	247	1	0	0
OHIO Wesleyan UNIV	16	0	0	0	0	0	16	0	0	0
UNIV OF AARON	198	0	0	0	0	0	49	0	0	0
UNIV OF CINCINNATI	9,145	0	0	0	0	0	1,399	0	0	0
UNIV OF DAYTON	3,956	0	0	0	0	0	3,330	0	0	0
UNIV OF TOLEDO	224	0	0	0	0	0	11	0	0	0
WITTENBERG UNIV	5	0	0	0	0	0	5	0	0	0
WRIGHT STATE UNIV	556	0	0	0	0	0	407	0	0	0
XAVIER UNIV	7	0	0	0	0	0	125	0	0	0
YOUNGSTOWN STATE UNIV	22	0	0	0	0	0	7	0	0	0
TOTAL, OHIO	43,084	1,851	0	0	0	0	12,604	0	0	0
OKLAHOMA										
EAST CENTRAL STATE COL	83	0	0	0	0	0	0	0	0	0
LANGSTON UNIV	16	0	0	0	0	0	0	0	0	0
OKLAHOMA CITY COMM	12	0	0	0	0	0	0	0	0	0

UNIV OF CINCINNATI	5,145	0	163	0	173	0	0	0	0	30	0
UNIV OF DAYTON	3,956	0	9	0	830	87	0	0	20	108	0
UNIV OF TOLEDO	224	0	45	0	11	40	0	0	0	0	0
WITTENBERG UNIV	55	0	0	0	5	0	0	0	0	24	0
WRIGHT STATE UNIV	556	0	0	0	407	125	0	0	0	0	0
XAVIER UNIV	7	0	0	0	0	7	0	0	0	0	0
YOUNGSTOWN STATE UNIV	22	0	0	0	0	0	0	0	0	22	0
TOTAL OHIO	43,084	1,851	2,026	0	12,604	18,025	646	1,673	4,720	1,239	

OKLAHOMA

EAST CENTRAL STATE COL	83	0	0	0	0	83	0	0	0	0	0
LANGSTON UNIV	16	16	0	0	0	0	0	0	0	0	0
OKLAHOMA BAPTIST UNIV	14	0	0	0	0	14	0	0	0	0	0
OKLAHOMA CHRISTIAN COL	10	0	0	0	0	10	0	0	0	0	0
OKLAHOMA CITY UNIV	19	0	0	0	0	19	0	0	0	0	0
OKLAHOMA STATE UNIV	3,953	1,234	42	0	962	609	190	700	208	8	
SOUTHWESTERN STATE COL	27	0	0	0	0	2	0	0	25	0	
UNIV OF OKLAHOMA	3,613	0	88	43	607	1,886	34	106	302	347	
UNIV OF TULSA	3	0	0	0	0	0	3	0	0	0	
TOTAL OKLAHOMA	7,538	2,250	130	43	1,569	2,623	227	806	535	355	

OREGON

LINFIELD COL	62	0	0	0	1,292	0	0	51	11	0	327
OREGON STATE UNIV	8,471	1,167	468	0	0	64	0	0	0	59	0
PACIFIC UNIV	64	0	0	0	0	24	0	0	0	0	0
PORTLAND STATE UNIVERSITY	83	0	0	0	73	114	0	0	0	0	0
SEED COL	187	0	0	0	17	45	0	0	0	0	0
SOUTHERN OREGON COL	62	0	0	0	0	144	0	0	0	0	0
U OREGON DENTAL SCHOOL	144	0	0	0	3,197	0	0	0	0	0	0
U OREGON MEDICAL SCHOOL	3,309	0	112	0	816	2,047	10	277	2,776	453	
UNIV OF OREGON AT EUGENE	6,782	6	397	0	0	25	0	0	0	0	
UNIV OF PORTLAND	25	0	0	0	2,198	7,382	639	500	5,540	780	
TOTAL OREGON	19,189	1,173	977	0	0	0	0	0	0	0	

PENNSYLVANIA

BRYN MAWR COL	169	0	0	0	0	134	0	14	21	0	
BUCKNELL UNIV	82	0	0	0	62	0	0	0	20	0	
CARNEGIE MELLON UNIV	6,216	0	1,623	0	2,440	541	127	259	1,058	168	
DREXEL UNIVERSITY	1,881	45	0	797	0	690	0	115	234	0	
DUQUESNE UNIV	112	0	0	0	0	104	8	0	0	0	
FRANKLIN AND MARSHALL COL	43	0	0	0	0	10	7	0	26	0	

TABLE C-II, CONT'D

FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT
TO ALL UNIVERSITIES AND COLLEGES BY
STATE, INSTITUTION, AND AGENCY, FISCAL YEAR 1970
(THOUSANDS OF DOLLARS)

STATE AND INSTITUTION	TOTAL	AGR	AEC	COM	DOD	HEN	INT	NSA	NSF	OTHER
PENNSYLVANIA										
GETTYSBURG COL	5	0	0	0	260	5	0	0	0	0
HAMMERMANN MED COL & HOSP	1,148	0	0	0	252	0	30	0	0	0
HAWVERFORD COL	282	0	0	0	1,003	141	95	264	1,379	0
LEHIGH UNIV	2,976	0	94	0	0	20	0	0	0	0
LINCOLN UNIV	20	0	0	0	0	2	0	0	0	0
MARY IMMACULATE SEM & COL	2	0	0	0	0	1	0	0	0	0
MESSEIAH COL	574	0	0	0	0	449	0	0	0	125
MILLERSVILLE STATE COL	2	0	0	0	0	2	0	0	0	0
PA COL OF PODIATRIC MED	4	0	0	0	0	4	0	0	0	0
PENNSYLVANIA COL OPTOMET	11,078	2,014	461	0	992	3,156	845	1,429	1,771	410
PENNSYLVANIA STATE UNIV	71	0	0	0	0	71	0	0	0	0
PHILA COL OF PHARM & SCI	60	60	0	0	0	0	0	0	0	0
PHILA COL OF TEXT & SCI	30	0	0	0	0	0	0	0	30	0
PMC COLLEGES	13	0	0	0	0	0	0	0	0	0
SLIPPERY ROCK STATE COL	15	0	0	0	0	11	0	0	0	0
SUSQUEHANNA UNIV	203	0	0	0	0	59	0	0	0	144
SWARTHMORE COL	5,610	0	106	0	132	4,704	0	221	280	167
TEMPLE UNIV	2,262	0	59	0	229	1,959	0	0	15	0
THOS JEFFERSON UNIV HOSP	22,334	0	1,667	0	2,639	14,137	52	259	2,549	831
UNIV OF PENNSYLVANIA	12,036	0	453	0	1,150	7,211	212	597	1,584	729
UNIV OF PITTSBURGH	41	0	0	0	0	41	0	0	0	0
VILLANOVA UNIV	14	0	0	0	0	14	0	0	0	0
WILKES COL	67,085	2,074	4,508	0	9,642	34,669	1,346	3,188	9,353	2,305
RHODE ISLAND										
BROWN UNIV	5,756	0	633	0	1,214	2,273	33	269	1,334	0
PROVIDENCE COL	59	0	0	0	0	41	0	0	0	18
RHODE ISLAND COL	20	0	0	0	0	20	0	0	0	0
UNIV OF RHODE ISLAND	3,241	466	61	0	1,076	322	144	0	1,172	0
TOTAL RHODE ISLAND	9,076	466	694	0	2,290	2,656	177	269	2,506	18
SOUTH CAROLINA										
CLEMSON UNIV	2,562	1,389	41	0	0	0	296	184	130	522
FURMAN UNIV	1	0	0	0	0	0	873	0	0	0
MED UNIV S CAROLINA	1,361	0	0	0	468	0	0	0	0	0
UNIV SOUTH CAROLINA	1,261	17	0	0	0	0	9	0	0	0

THOS JEFFERSON UNIV HOSP	2,262	0	59	0	229	1,959	0	15	0	15	0	0	0	0	0	0	0	0	0
UNIV OF PENNSYLVANIA	22,134	0	1,667	0	2,639	14,137	52	259	0	2,569	-	831	-	-	-	-	-	-	-
UNIV OF PITTSBURGH	12,036	0	453	0	1,150	7,211	212	597	0	1,684	-	729	-	-	-	-	-	-	-
VILLANOVA UNIV	41	0	0	0	0	0	41	0	0	0	0	0	0	0	0	0	0	0	0
WILKES COL	14	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL PENNSYLVANIA	67,085	2,074	4,508	0	9,642	34,669	1,346	3,188	0	0	0	0	0	0	0	0	0	0	0
RHODE ISLAND																			
BROWN UNIV	5,756	0	633	0	1,214	2,273	33	269	0	1,334	0	0	0	0	0	0	0	0	0
PROVIDENCE COL	59	0	0	0	0	41	0	0	0	0	0	0	0	0	0	0	0	0	0
RHODE ISLAND COL	20	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0
UNIV OF RHODE ISLAND	3,241	466	61	0	1,076	322	144	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL RHODE ISLAND	5,076	466	694	0	2,290	2,656	177	269	0	2,506	0	0	0	0	0	0	0	0	0
SOUTH CAROLINA																			
CLEMSON UNIV	2,562	1,369	41	0	296	184	0	130	522	0	0	0	0	0	0	0	0	0	0
FURMAN UNIV	1	0	0	0	468	873	0	0	0	0	0	0	0	0	0	0	0	0	0
MED UNIV OF S. CAROLINA	1,341	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0
SOUTH CAROLINA STATE COL	26	17	0	0	25	144	0	0	0	0	0	0	0	0	0	0	0	0	0
UNIV OF SOUTH CAROLINA	676	0	75	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0
WOFFORD COL	19	0	0	0	493	1,342	184	130	695	0	0	0	0	0	0	0	0	0	0
TOTAL SOUTH CAROLINA	4,625	1,406	116	0															
SOUTH DAKOTA																			
AUGUSTANA COL	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOUTH DAK SCH MINES TECH	750	0	0	0	0	0	0	0	530	25	195	0	0	0	0	0	0	0	0
SOUTH DAKOTA STATE UNIV	1,691	908	6	0	0	0	0	27	598	32	120	0	0	0	0	0	0	0	0
UNIV OF SOUTH DAKOTA	388	29	31	0	0	12	231	0	0	0	85	0	0	0	0	0	0	0	0
TOTAL SOUTH DAKOTA	2,854	937	37	0	12	256	1,128	57	425	0	0	0	0	0	0	0	0	0	0
TENNESSEE																			
CARSON-NEWMAN COL	32	0	0	0	0	0	0	32	0	0	0	0	0	0	0	0	0	0	0
FISK UNIV	73	0	0	0	0	0	0	73	0	0	0	0	0	0	0	0	0	0	0
GEORGE PEABODY COL TCHR'S	744	0	0	0	0	0	0	656	0	0	0	0	0	0	0	0	0	0	88
MEHARRY MEDICAL COL	526	0	0	0	0	0	0	526	0	0	0	0	0	0	0	0	0	0	0
MEMPHIS STATE UNIV	239	0	0	0	0	0	0	34	53	5	29	0	0	0	0	0	0	0	23
SOUTHERN COL OF OPTOMETRY	8	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0
TENNESSEE STATE UNIV	68	19	40	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0
TENNESSEE TECHNOLOGI UNIV	124	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U OF TENN MED UNITS MEMPH	2,367	0	62	0	15	2,270	0	0	0	0	0	0	0	0	0	0	0	0	0
UNIV OF TENN AT KNOXVILLE	6,045	1,644	1,540	0	200	1,314	620	114	462	0	0	0	0	0	0	0	0	0	0
UNIV OF TENN CEN SYS*	400	0	0	0	404	6,017	156	76	994	0	0	0	0	0	0	0	0	0	0
VANDERBILT UNIV	7,771	0	124	0	290	1,733	10,245	323	652	0	0	0	0	0	0	0	0	0	0
TOTAL TENNESSEE	18,377	1,663	1,766	0															
TEXAS																			
BAYLOR COL OF MEDICINE	9,319	0	21	0	0	0	0	8,856	0	0	357	0	0	0	0	0	0	0	85
BAYLOR UNIV	447	0	59	0	178	169	0	0	0	0	41	0	0	0	0	0	0	0	0
BISHOP COL	40	0	0	0	0	0	0	0	0	0	40	0	0	0	0	0	0	0	0
HOUSTON BAPTIST COL	136	0	0	0	0	0	0	96	0	0	40	0	0	0	0	0	0	0	0
LAMAR STATE COL OF TECH	38	0	0	0	0	0	0	12	0	0	8	0	0	0	0	0	0	0	0
M D ANDERSON HOSPITAL	5,124	0	65	0	70	4,735	0	0	0	0	135	0	0	0	0	0	0	0	0

TABLE C-II, CONT'D
FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT
TO ALL UNIVERSITIES AND COLLEGES BY
STATE, INSTITUTION, AND AGENCY, FISCAL YEAR 1970
(THOUSANDS OF DOLLARS)

STATE AND INSTITUTION	TOTAL	AGR	AEC	COM	DOO	HFM	INT	NASA	NSF	OTHER
TEXAS										
NORTH TEXAS STATE UNIV	78	0	0	0	20	32	0	17	9	0
PRAIRIE VIEW A & M COL	73	22	0	0	795	672	0	51	0	0
RICE UNIV	5,171	0	752	0	657	62	43	1,948	1,004	0
SOUTHERN METHODIST UNIV	1,387	0	0	0	0	0	0	79	483	63
SOUTHWEST TEXAS UNIV	25	0	25	0	0	0	0	0	0	0
SOUTHWESTERN MEDICAL SCH	4,342	0	44	0	0	4,115	0	106	77	0
STEPHEN F AUSTIN ST UNIV	25	10	0	0	0	15	0	0	0	0
SUL ROSS STATE UNIV	17	0	0	0	0	0	0	0	17	0
TARRANT COUNTY JR COL	7	0	0	0	0	0	0	0	0	0
TEXAS A & M UNIV	7,560	2,029	1,005	0	1,880	538	167	659	682	0
TEXAS A&M UNIV CEN SYS*	652	0	25	0	0	0	0	139	0	488
TEXAS ARTS & INDUST UNIV	58	58	0	0	0	0	0	0	0	0
TEXAS CHRISTIAN UNIV	290	0	0	0	157	74	0	59	0	0
TEXAS SOUTHERN UNIV	31	0	0	0	0	10	0	21	0	0
TEXAS TECH UNIVERSITY	745	107	41	0	370	18	0	153	56	0
TEXAS WOMANS UNIV	44	0	0	0	0	0	0	44	0	0
TRINITY UNIV	66	0	0	0	0	51	0	0	15	0
U TEX DENT BRANCH HOUSTON	454	0	0	0	0	374	0	80	0	0
U TEX GRAD SCH BIOMED SCI	100	0	0	0	0	0	0	100	0	0
U TEX HOUSTON MED SCHOOL	31	0	0	0	0	31	0	0	0	0
U TEX MED BRANCH GALVESTON	2,638	0	0	0	52	2,318	0	56	212	0
U TEX SCH OF EL TH HOUSTON	2,107	0	0	0	0	107	0	0	0	0
UNIV OF HOUSTON	1,644	0	200	0	227	176	0	956	53	32
UNIV OF ST THOMAS	5	0	5	0	0	0	0	0	0	0
UNIV OF TEX AS ARLINGTON	32	0	0	0	17	0	0	0	15	0
UNIV OF TEXAS AT AUSTIN	12,696	0	695	0	5,272	2,743	105	1,316	2,412	153
UNIV OF TEXAS AT DALLAS	3,711	0	66	0	128	0	0	2,888	629	0
UNIV OF TEXAS AT EL PASO	329	0	0	0	302	0	0	27	0	0
UNIV OF TEXAS CEN SYS*	472	0	99	0	0	336	37	0	0	0
UNIV OF TEXAS MEDICAL SCH	1,356	0	0	0	122	812	0	0	44	378
WEST TEXAS STATE UNIV	17	0	0	0	0	0	0	0	17	0
TOTAL TEXAS	59,267	2,826	3,077	25	10,247	26,359	491	9,140	5,903	1,199
UTAH										
BRIGHAM YOUNG UNIV	730	1	37	0	111	220	72	39	250	0
UNIV OF UTAH	13,287	0	1,057	4	2,998	6,446	864	160	1,661	397
UTAH STATE UNIV	4,501	687	69	0	1,171	329	783	88	871	503
WEBER STATE COL	19	0	0	0	0	19	0	0	0	0
TOTAL UTAH	18,537	688	1,163	4	4,180	7,014	1,719	287	2,582	900
VERMONT										
BENNINGTON COL	12	0	0	0	0	0	12	0	0	0
MIDDLEBURY COL	43	0	0	0	0	7	0	0	36	0
TRINITY COL	98	0	0	0	0	98	0	0	0	0
UNIV OF VERMONT	3,104	545	63	0	324	1,805	88	25	119	135
WINDHAM COL	10	0	0	0	0	6	0	0	4	0
TOTAL VERMONT	3,267	545	63	0	324	1,928	88	25	159	135
VIRGINIA										
COL OF WILLIAM AND MARY	752	0	0	0	0	64	0	194	494	0
HAMPTON INST	115	0	0	0	0	0	0	115	0	0
HOLLYWOOD COL	85	0	0	0	0	85	0	0	0	0
MARY BALDWIN COL	2	0	0	0	0	2	0	0	0	0
NORFOLK STATE COL	21	0	0	0	0	9	0	0	0	12

UTAH		VERMONT		VIRGINIA		WASHINGTON	
BRIGHAM YOUNG UNIV	730	1	37	0	111	72	39
UNIV OF UTAH	13,287	0	1,057	4	2,898	864	160
UTAH STATE UNIV	4,501	687	69	0	1,171	783	88
WEBER STATE COL	1,9	0	0	0	0	0	0
TOTAL UTAH	18,537	688	1,163	4	4,180	7,014	1,719
BENNINGTON COL	12	0	0	0	0	12	0
MIDDLEBURY COL	43	0	0	0	0	7	0
TRINITY COL	98	0	0	0	0	98	0
UNIV OF VERMONT	3,104	545	63	0	324	1,805	88
WINDHAM COL	10	0	0	0	0	6	0
TOTAL VERMONT	3,267	545	63	0	324	1,928	88
COL OF WILLIAM AND MARY	752	0	0	0	0	64	0
HAMPTON INST	115	0	0	0	0	0	115
HOLLINS COL	85	0	0	0	0	85	0
MARY BALDWIN COL	2	0	0	0	0	2	0
NORFOLK STATE COL	21	0	0	0	0	9	0
OLD DOMINION UNIV	508	0	5	0	18	10	3
RAIFORD COL	6	0	0	0	0	5	0
ROANOKE COL	40	0	17	0	0	0	0
UNIV OF RICHMOND	10	0	0	0	0	0	10
UNIV OF VIRGINIA	6,516	6	305	0	1,162	3,200	96
VA COMMONWEALTH UNIV	3,507	0	54	0	177	2,711	0
VIRGINIA MILITARY INST	41	0	0	20	20	1	0
VIRGINIA POLYTECHNIC INST	4,082	1,624	150	0	199	408	528
VIRGINIA STATE COL	46	18	0	0	0	0	0
WASHINGTON & LEE UNIV	34	0	0	0	0	0	0
TOTAL VIRGINIA	15,765	1,648	531	20	1,576	6,495	627
EASTERN WASH STATE COL	8	0	0	0	0	8	0
GRAYS HARBOR COL	4	0	0	0	0	0	4
SEATTLE COMM COL	150	0	0	0	0	150	0
UNIV OF SOUTHEAST UNIV	162	0	0	0	0	162	0
UNIV OF WASHINGTON	29,687	207	2,390	0	2,800	17,313	572
WASHINGTON STATE UNIV	3,513	1,333	283	0	2,241	929	301

TABLE 6-14, CONT'D

FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT
TO ALL UNIVERSITIES AND COLLEGES BY
STATE, INSTITUTION, AND AGENCY, FISCAL YEAR 1970
(THOUSANDS OF DOLLARS)

STATE AND INSTITUTION	TOTAL	AGR	AEC	CDA	DDO	HED	INT	NASA	NSF	OTHER
WASHINGTON										
WESTERN WASH STATE COL	162	0	10	0	3,041	87	15	0	50	0
TOTAL WASHINGTON	33,686	1,540	2,683	0	0	18,649	892	538	6,170	173
WEST VIRGINIA										
BETHANY COL	9	0	0	0	0	0	0	0	9	0
MARSHALL UNIV	35	0	0	0	0	0	0	0	35	0
WEST VIRGINIA INST TECH	638	0	0	0	0	0	0	0	638	0
TOTAL WEST VIRGINIA	3,969	1,038	0	0	340	1,409	691	228	235	28
WISCONSIN										
LAWRENCE UNIV	44	0	0	0	0	25	0	0	19	0
MARQUETTE UNIV	734	0	50	0	117	338	33	0	196	0
MEDICAL COLLEGE OF WISC	1,686	0	0	0	0	1,643	0	0	43	0
UNIV OF WISC CEN SYS*	545	0	0	75	440	7	23	0	0	0
UNIV OF WISC PARKSIDE	18	0	0	0	0	0	0	0	18	0
UNIV OF WISCONSIN MADISON	22,815	1,599	2,983	0	1,010	15,321	340	1,603	4,803	5,156
UNIV OF WISCONSIN MILWAUK	350	0	8	0	0	48	0	0	178	116
WAUSHARA COUNTY TECHS COL	6	0	0	0	0	6	0	0	0	0
WISC ST UNIV STEVENS PTN	8	0	0	0	0	8	0	0	0	0
WISC STATE UNIV OSHKOSH	6	0	0	0	0	0	0	0	6	0
WISC STATE UNIV RIVER FALL	3	0	0	0	0	3	0	0	0	0
TOTAL WISCONSIN	36,215	1,599	3,041	75	1,567	17,399	396	1,603	5,263	5,272
WYOMING										
UNIV OF WYOMING	1,962	556	72	15	21	231	551	117	399	0
TOTAL WYOMING	1,962	556	72	15	21	231	551	117	399	0
OUTLYING AREAS										
GUAM										
UNIVERSITY OF GUAM	46	0	0	0	0	0	46	0	0	0
TOTAL GUAM	46	0	0	0	0	0	46	0	0	0
PUERTO RICO										
UNIV OF P R CEN SYS*	958	0	958	0	0	0	0	0	0	0
UNIV OF P R MAYAQUEZ	1,593	1,502	0	0	0	34	57	0	0	0
UNIV OF P R RIO PIEDRAS	59	0	0	0	22	0	0	0	36	0
UNIV OF P R SAN JUAN	1,321	0	0	0	0	1,321	0	0	0	0
TOTAL PUERTO RICO	3,930	1,502	958	0	22	1,255	57	0	36	0
VIRGIN ISLANDS										
COL OF VIRGIN ISLANDS	129	0	0	0	0	3	0	87	39	0
TOTAL VIRGIN ISLANDS	129	0	0	0	0	3	0	87	39	0
UNITED STATES TOTAL	1,464,075	67,417	101,413	3,159	265,475	614,856	27,089	127,401	218,659	38,606

TABLE C-15

FEDERAL OBLIGATIONS FOR R&D PLANT
TO ALL UNIVERSITIES AND COLLEGES BY
STATE • INSTITUTION AND AGENCY, FISCAL YEAR 1970
(THOUSANDS OF DOLLARS)

STATE AND INSTITUTION	TOTAL	AGR	AEC	COM	DOD	HEW	INT	NASA	NSF	OTHER
ALABAMA										
U OF ALA IN TUSCALOOSA	30	0	0	0	0	0	0	0	30	0
TOTAL ALABAMA	30	0	0	0	0	0	0	0	30	0
ALASKA										
UNIV OF ALASKA	110	15	0	15	0	0	0	0	80	0
TOTAL ALASKA	110	15	0	15	0	0	0	0	80	0
ARIZONA										
UNIV OF ARIZONA	19	19	0	0	0	0	0	0	0	0
TOTAL ARIZONA	19	19	0	0	0	0	0	0	0	0
ARKANSAS										
UNIV OF ARK	49	0	0	0	0	0	0	0	49	0
TOTAL ARKANSAS	49	0	0	0	0	0	0	0	49	0
CALIFORNIA										
CAL INST OF TECH	191	0	129	0	0	0	0	0	62	0
CLAREMONT GRAD SCH & UNIV	47	0	0	0	0	0	0	0	47	0
SAN FRANCISCO STATE COL	4	0	0	0	0	0	0	0	0	0
STANFORD UNIV	966	0	0	0	0	0	0	0	910	0
UNIV OF CAL BERKELEY	25	0	0	0	0	0	0	0	25	0
UNIV OF CAL DAVIS	228	0	0	0	0	0	0	0	35	0
UNIV OF CAL IRVINE	2	0	0	0	0	0	0	0	2	0
UNIV OF CAL LOS ANGELES	1,439	0	437	0	0	0	0	0	1,000	0
UNIV OF CAL RIVERSIDE	40	0	0	0	0	0	0	0	40	0
UNIV OF CAL SAN DIEGO	30	0	0	0	0	0	0	0	30	0
UNIV OF CAL SANTA CRUZ	20	0	0	0	0	0	0	0	20	0
UNIV OF CAL CENTRAL SYS*	55	0	0	0	0	0	0	0	0	0
UNIV OF CAL SAN FRANCISCO	55	0	55	0	0	0	0	0	0	0
UNIV OF CAL SANTA BARBARA	10	0	0	0	0	0	0	0	10	0
UNIV OF SOUTHERN CAL	178	0	0	0	0	0	0	0	167	0
UNIV OF THE PACIFIC	10	0	0	0	0	0	0	0	10	0
TOTAL CALIFORNIA	3,300	55	835	0	0	52	0	0	2,358	0
COLORADO										
COLORADO SCH OF MINES	10	0	0	0	0	0	0	0	10	0
COLORADO STATE UNIV	457	1	0	0	0	0	0	0	441	0
UNIV OF COLORADO	216	0	0	0	0	0	0	0	0	0
UNIV OF DENVER	2	0	0	0	0	0	0	0	0	0
TOTAL COLORADO	685	1	0	0	0	0	0	0	451	0
CONNECTICUT										
UNIV OF CONNECTICUT	58	15	0	0	0	0	0	0	0	0
WESLEYAN UNIV	48	0	0	0	0	0	0	0	48	0
YALE UNIV	259	0	0	0	0	0	0	0	59	0
TOTAL CONNECTICUT	365	15	0	0	0	0	0	0	147	0
DELAWARE										
UNIV OF DELAWARE	10	10	0	0	0	0	0	0	0	0

ARKANSAS	UNIV OF ARK	49	0	0	0	0	0	0	49	0
TOTAL ARKANSAS		49	0	0	0	0	0	0	49	0
CALIFORNIA										
CAL INST OF TECH	191	0	129	0	0	0	0	0	62	0
CLAREMONT GRAD SCH & UNIV	47	0	0	0	0	0	0	0	67	0
SAN FRANCISCO STATE COL	4	0	0	0	0	0	0	0	0	0
STANFORD UNIV	966	0	21	0	0	0	0	0	910	0
UNIV OF CAL BERKELEY	25	0	0	0	0	0	0	0	25	0
UNIV OF CAL DAVIS	228	0	193	0	0	0	0	0	35	0
UNIV OF CAL IRVINE	2	0	0	0	0	0	0	0	2	0
UNIV OF CAL LOS ANGELES	1,439	0	437	0	0	0	0	0	1,000	0
UNIV OF CAL RIVERSIDE	40	0	0	0	0	0	0	0	40	0
UNIV OF CAL SAN DIEGO	30	0	0	0	0	0	0	0	30	0
UNIV OF CAL SANTA CRUZ	20	0	0	0	0	0	0	0	20	0
UNIV OF CAL CENTRAL SY*	55	0	55	0	0	0	0	0	0	0
UNIV OF CAL SAN FRANCISCO	55	0	55	0	0	0	0	0	0	0
UNIV OF CAL SANTA BARBARA	10	0	0	0	0	0	0	0	10	0
UNIV OF SOUTHERN CAL	178	0	0	0	0	0	0	0	167	0
UNIV OF THE PACIFIC	10	0	0	0	0	0	0	0	10	0
TOTAL CALIFORNIA	3,500	0	55	835	52	0	0	0	2,358	0
COLORADO										
COLORADO SCH OF MINES	10	0	0	0	0	0	0	0	10	0
COLORADO STATE UNIV	457	1	0	0	0	0	0	0	441	0
UNIV OF COLORADO	216	0	212	0	0	0	0	0	0	0
UNIV OF DENVER	2	0	0	0	0	0	0	0	0	0
TOTAL COLORADO	685	1	212	0	0	0	0	0	451	0
CONNECTICUT										
UNIV OF CONNECTICUT	58	15	0	0	0	0	0	0	40	0
WESLEYAN UNIV	48	0	0	0	0	0	0	0	48	0
YALE UNIV	259	0	200	0	0	0	0	0	59	0
TOTAL CONNECTICUT	365	15	200	0	0	0	0	0	167	0
DELAWARE										
UNIV OF DELAWARE	10	10	0	0	0	0	0	0	0	0
TOTAL DELAWARE	10	10	0	0	0	0	0	0	0	0
DIST OF COLUMBIA										
GALLAUDET COL	12	0	0	0	0	0	0	0	0	0
GEORGE WASHINGTON UNIV	27	0	0	0	0	0	0	0	0	0
TOTAL DISTRICT OF COLUMBIA	39	0	0	0	0	0	0	0	0	0
FLORIDA										
FLORIDA STATE UNIV	35	0	0	0	0	0	0	0	35	0
UNIV OF FLORIDA	517	34	0	0	0	0	0	0	483	0
UNIV OF MIAMI	48	0	11	0	0	0	0	0	34	0
UNIV OF SOUTH FLORIDA	11	0	0	0	0	0	0	0	6	0
TOTAL FLORIDA	611	34	11	0	0	0	0	0	558	0
GEORGIA										
GEORGIA INST OF TECH	24	0	2	0	0	0	0	0	0	22

TABLE C-15 CONT'D

FEDERAL OBLIGATIONS FOR R&D PLANT
TO ALL UNIVERSITIES AND COLLEGES BY
STATE, INSTITUTION, AND AGENCY, FISCAL YEAR 1970
(THOUSANDS OF DOLLARS)

STATE AND INSTITUTION	TOTAL	AGR	AEC	COM	DOD	HEW	INT	NASA	NSF	OTHER
GEORGIA										
UNIV OF GEORGIA	1,195	31	0	0	0	0	0	0	1,164	0
TOTAL GEORGIA	1,219	31	2	0	0	0	0	0	1,186	0
HAWAII										
UNIV OF HAWAII	77	23	4	0	0	0	0	0	50	0
TOTAL HAWAII	77	23	4	0	0	0	0	0	50	0
IDAHO										
UNIV OF IDAHO	36	36	0	0	0	0	0	0	0	0
TOTAL IDAHO	36	36	0	0	0	0	0	0	0	0
ILLINOIS										
ILLINOIS INST OF TECH	20	0	0	0	0	0	0	0	20	0
NORTHWESTERN UNIV	25	0	0	0	0	0	0	0	25	0
UNIV OF CHICAGO	310	0	278	0	0	0	2	0	30	0
UNIV OF ILLINOIS-CHGO CIR	100	0	0	0	0	0	0	0	100	0
UNIV OF ILLINOIS-MED CIR	4	0	0	0	0	0	4	0	0	0
UNIV OF ILLINOIS-URBANA	519	41	352	0	0	0	4	0	122	0
TOTAL ILLINOIS	978	41	630	0	0	0	10	0	297	0
INDIANA										
INDIANA UNIV-BLOOMINGTON	1,102	0	0	0	0	0	0	0	1,102	0
PURDUE UNIV	134	56	0	0	0	0	0	0	78	0
UNIV OF NOTRE DAME	227	0	195	0	0	0	0	0	32	0
TOTAL INDIANA	1,463	56	195	0	0	0	0	0	1,212	0
IOWA										
UNIV OF IOWA	69	0	0	0	0	0	0	0	67	0
TOTAL IOWA	69	0	0	0	0	0	0	0	67	0
KANSAS										
KANSAS STATE UNIV	35	77	0	0	0	0	0	0	12	0
UNIV OF KANSAS	124	35	0	0	0	0	0	0	0	0

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TABLE C-15 CONT'D

FEDERAL OBLIGATIONS FOR R&D PLANT
TO ALL UNIVERSITIES AND COLLEGES BY
STATE, INSTITUTION, AND AGENCY, FISCAL YEAR 1970
(THOUSANDS OF DOLLARS)

STATE AND INSTITUTION	TOTAL	AGR	AEC	COM	DOD	HEW	INT	NASA	NSF	OTHER
MASSACHUSETTS										
NORTHEASTERN UNIV	10	0	0	0	0	0	0	0	10	0
TUFTS UNIV	23	0	0	0	0	0	0	0	23	0
UNIV OF MASSACHUSETTS	37	0	0	0	0	0	0	0	37	0
WOODS HOLE OCEAN INST	31	0	0	0	0	0	0	0	31	0
WORCESTER POLYTECH INST	220	0	0	0	0	0	0	0	220	0
TOTAL MASSACHUSETTS	2,381	0	1,789			10			1,082	
MICHIGAN										
MICHIGAN STATE UNIV	280	45	197	0	0	16	0	0	22	0
UNIV OF MICHIGAN	601	0	452	0	0	0	0	0	149	0
WESTERN MICH UNIV	5	0	0	0	0	0	0	0	5	0
TOTAL MICHIGAN	886	45	649			16			176	
MINNESOTA										
UNIV OF MINNESOTA	194	0	166	0	0	11	0	0	17	0
TOTAL MINNESOTA	194	0	166	0	0	11			17	
MISSISSIPPI										
UNIV OF MISSISSIPPI	15	0	0	0	0	0	0	0	15	0
TOTAL MISSISSIPPI	15	0	0	0	0	0			15	
MISSOURI										
UNIV OF MISSOURI COLUMBIA	119	0	0	0	0	0	0	0	111	0
UNIV OF MISSOURI ROLLA	480	0	0	0	0	0	0	0	480	0
WASHINGTON UNIV	93	0	0	0	0	0	0	0	93	0
TOTAL MISSOURI	692	0	0	0	0	0	0	0	684	0
MONTANA										
MONTANA STATE UNIV	13	0	0	0	0	0	0	0	13	0
TOTAL MONTANA	13	0	0	0	0	0	0	0	13	0

MINNESOTA	194	0	166	0	0	11	0	0	17	0
UNIV OF MINNESOTA										
TOTAL MINNESOTA	194	0	166	0	0	11	0	0	17	0
MISSISSIPPI										
UNIV OF MISSISSIPPI	15	0	0	0	0	0	0	15	0	0
TOTAL MISSISSIPPI	15	0	0	0	0	0	0	15	0	0
MISSOURI										
UNIV OF MISSOURI COLUMBIA	119	0	0	0	0	8	0	111	480	0
UNIV OF MISSOURI ROLLA	480	0	0	0	0	8	0	93	684	0
WASHINGTON UNIV	93	0	0	0	0	8	0	0	0	0
TOTAL MISSOURI	692	0	0	0	0	8	0	0	0	0
MONTANA										
MONTANA STATE UNIV	13	0	0	0	0	0	0	13	0	0
TOTAL MONTANA	13	0	0	0	0	0	0	13	0	0
NEBRASKA										
UNIV OF NEBRASKA-LINCOLN	25	0	0	0	0	0	0	25	0	0
TOTAL NEBRASKA	25	0	0	0	0	0	0	25	0	0
NEVADA										
UNIV OF NEV RENO CAMPUS	15	0	0	0	0	0	0	15	0	0
TOTAL NEVADA	15	0	0	0	0	0	0	15	0	0
NEW HAMPSHIRE										
DARTMOUTH COL	166	0	0	0	0	0	0	166	0	0
UNIV OF N H DURHAM	8	0	0	0	0	0	0	0	0	0
TOTAL NEW HAMPSHIRE	174	0	0	0	0	0	0	166	0	0
NEW JERSEY										
PRINCETON UNIV	147	0	34	0	0	0	0	113	0	0
RUTGERS UNIVERSITY	29	21	0	13	0	0	0	8	0	0
STEVENS INST OF TECH	13	0	21	47	0	0	0	121	0	0
TOTAL NEW JERSEY	189	0	34	0	0	0	0	0	0	0
NEW MEXICO										
NEW MEXICO STATE UNIV	35	0	0	0	0	0	0	0	35	0
UNIV OF NEW MEXICO	300	0	0	0	0	0	0	0	300	0
TOTAL NEW MEXICO	335	0	0	0	0	0	0	0	335	0
NEW YORK										
COLUMBIA UNIV +	593	0	340	0	0	0	0	31	0	0
CORNELL UNIV	56	47	9	0	0	0	0	0	0	0
CUNY HUNTER COL	20	0	0	0	0	0	0	0	0	20

TABLE C-15 - CONT'D

FEDERAL OBLIGATIONS FOR R&D PLANT
TO ALL UNIVERSITIES AND COLLEGES BY
STATE, INSTITUTION, AND AGENCY, FISCAL YEAR 1970
(THOUSANDS OF DOLLARS)

STATE AND INSTITUTION	TOTAL	AGR	AEC	COM	DOD	HED	INT	NASA	NSF	OTHER
NEW YORK										
NEW YORK UNIV	551	0	451	0	0	6	0	0	94	0
POLYTECHNIC INST OF BKLYN	5	0	5	0	0	0	0	0	0	0
RENSSELAER POLYTECH INST	85	0	80	0	0	0	0	0	5	0
SUNY CENTRAL SYSTEM ^b	1	0	0	0	0	0	0	0	0	0
SUNY ST U ALBANY	750	0	0	0	0	0	0	0	750	0
SUNY ST U STONY BROOK	3	0	3	0	0	0	0	0	0	0
SYRACUSE UNIV	27	0	0	0	0	0	0	0	23	0
UNIV OF ROCHESTER	857	0	218	0	0	0	0	0	639	0
YESHIVA UNIV	30	0	0	0	0	30	0	0	0	0
TOTAL NEW YORK	2,978	47	1,106	72	0	0	0	0	1,753	0
NORTH CAROLINA										
DUKE UNIV	250	0	201	0	0	0	0	0	49	0
N C AGRIC & TECH ST UNIV	175	0	0	0	0	0	0	0	175	0
N C STATE UNIV AT RALEIGH	7	0	0	0	0	0	0	0	0	0
UNIV OF N C AT CHAP HILL	17	0	0	0	0	0	0	0	17	0
TOTAL NORTH CAROLINA	449	7	201	0	0	0	0	0	241	0
NORTH DAKOTA										
NORTH DAKOTA STATE UNIV	36	14	0	0	0	0	0	0	22	0
UNIV OF NORTH DAKOTA	1	0	0	0	0	0	0	0	0	0
TOTAL NORTH DAKOTA	37	14	0	0	0	0	0	0	22	0
OHIO										
CASE WESTERN RESERVE UNIV	40	0	0	0	0	0	0	0	40	0
KENT STATE UNIV	22	0	0	0	0	0	0	0	22	0
OHIO STATE UNIV	54	54	0	0	0	0	0	0	0	0
OHIO UNIV	252	0	172	0	0	0	0	0	80	0
TOTAL OHIO	368	54	172	0	0	0	0	0	142	0
OKLAHOMA										
OKLAHOMA STATE UNIV	52	27	0	0	0	0	0	0	35	0
UNIV OF OKLAHOMA	32	0	0	0	0	0	0	0	32	0
TOTAL OKLAHOMA	94	27	0	0	0	0	0	0	67	0
OREGON										
OREGON STATE UNIV	1	1	0	0	0	0	0	0	1	0

NORTH CAROLINA

DUKE UNIV	250
N C AGRIC & TECH ST UNIV	175
N C STATE UNIV AT RALEIGH	7
UNIV OF N C AT CHAP HILL	17
TOTAL NORTH CAROLINA	449

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NORTH DAKOTA

NORTH DAKOTA STATE UNIV	36
UNIV OF NORTH DAKOTA	10
TOTAL NORTH DAKOTA	37

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OHIO

CASE WESTERN RESERVE UNIV	40
KENT STATE UNIV	22
OHIO STATE UNIV	54
OHIO UNIV	252
TOTAL OHIO	368

OKLAHOMA

OKLAHOMA STATE UNIV	62
UNIV OF OKLAHOMA	32
TOTAL OKLAHOMA	94

OREGON

OREGON STATE UNIV	151
U OREGON MEDICAL SCHOOL	5
UNIV OF OREGON AT EUGENE	1,003
TOTAL OREGON	1,159

PENNSYLVANIA

ALBRIGHT COL	35
BUCKNELL UNIV	395
DREXEL UNIVERSITY	498
LEHIGH UNIV	16
MARY IMMACULATE SEM & COL	1
PENNSYLVANIA STATE UNIV	71
SUSQUEHANNA UNIV	69
SMARTMORE COL	20
TEMPLE UNIV	10
UNIV OF PENNSYLVANIA	1,776
UNIV OF PITTSBURGH	1
VILLANOVA UNIV	13
TOTAL PENNSYLVANIA	2,838

RHODE ISLAND

UNIV OF RHODE ISLAND	226
TOTAL RHODE ISLAND	226

SOUTH CAROLINA

CLEMSON UNIV	46
UNIV OF SOUTH CAROLINA	31
TOTAL SOUTH CAROLINA	77

SOUTH DAKOTA

SOUTH DAKOTA STATE UNIV	33
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TABLE C-15 CONT'D

FEDERAL OBLIGATIONS FOR R&D PLANT
TO ALL UNIVERSITIES AND COLLEGES BY
STATE, INSTITUTION, AND AGENCY, FISCAL YEAR 1970
(THOUSANDS OF DOLLARS)

STATE AND INSTITUTION	TOTAL	AGR	AEC	COM	DOD	HEW	INT	NASA	NSF	OTHER
SOUTH DAKOTA										
TOTAL SOUTH DAKOTA	33	33	0	0	0	0	0	0	0	0
TENNESSEE										
GEORGE PEABODY COL TCHRS	3	0	0	0	0	3	0	0	0	0
UNIV OF TENN AT KNOXVILLE	745	75	119	0	0	5	0	0	546	0
VANDERBILT UNIV	26	0	0	0	0	0	0	0	26	0
TOTAL TENNESSEE	774	75	119	0	0	8	0	0	572	0
TEXAS										
RICE UNIV	40	0	0	0	0	0	0	0	40	0
SOUTHERN METHODIST UNIV	69	0	0	0	0	0	0	0	69	0
TEXAS A & M UNIV	145	66	79	7	0	0	0	0	0	0
TEXAS TECH UNIVERSITY	7	0	7	0	0	0	0	0	43	0
UNIV OF HOUSTON	43	0	0	0	0	0	0	0	265	0
UNIV OF TEXAS AT AUSTIN	265	0	0	0	0	0	0	0	0	0
UNIV OF TEXAS CEN SYSt	13	0	0	0	0	13	13	0	417	0
TOTAL TEXAS	582	6	86	0	0	0	0	0	0	0
UTAH										
UNIV OF UTAH	177	0	76	0	0	0	0	0	101	0
TOTAL UTAH	177	0	76	0	0	0	0	0	101	0
VERMONT										
UNIV OF VERMONT	28	0	0	0	0	0	0	0	28	0
TOTAL VERMONT	28	0	0	0	0	0	0	0	28	0
VIRGINIA										
HOLLINS COL	2	0	0	0	0	0	0	0	0	0
ROANOKE COL	11	0	11	0	0	0	0	0	0	0
UNIV OF VIRGINIA	38	0	0	0	0	0	0	0	38	0
VI. GINIA POLYTECHNIC INST	36	0	0	0	0	0	0	0	36	0
TOTAL VIRGINIA	87	0	11	0	0	0	0	0	74	0
WASHINGTON										
UNIV OF PUGET SOUND	8	0	0	0	0	0	0	0	0	0
UNIV OF WASHINGTON	140	0	26	0	0	0	0	0	114	0
WASHINGTON STATE UNIV	24	0	24	0	0	0	0	0	0	0
TOTAL WASHINGTON	172	0	50	0	0	0	0	0	114	0

RICE UNIV
SOUTHERN METHODIST UNIV
TEXAS A & M UNIV
TEXAS TECH UNIVERSITY
UNIV OF HOUSTON
UNIV OF TEXAS AT AUSTIN
UNIV OF TEXAS CEN SYS*
TOTAL TEXAS

40	6	0	0
69	0	0	0
145	66	79	0
7	0	7	0
43	0	0	43
265	0	0	265
13	0	0	0
582	66	86	417

UTAH	0	0	0
UNIV OF UTAH	177	0	0
TOTAL UTAH	177	0	0
VERMONT	0	0	0
UNIV OF VERMONT	28	0	0
TOTAL VERMONT	28	0	0

VIRGINIA

HOLLINS COL	2	0	0
ROANOKE COL	11	0	0
UNIV OF VIRGINIA	38	0	0
VIRGINIA POLYTECHNIC INST	36	0	0
TOTAL VIRGINIA	87	11	0

WASHINGTON	8	0	0
UNIV OF PUGET SOUND	140	26	0
UNIV OF WASHINGTON	24	0	0
WASHINGTON STATE UNIV	172	50	0
TOTAL WASHINGTON	300	80	0

WEST VIRGINIA	30	0	0
BLUEFIELD STATE COL	94	0	0
WEST VIRGINIA UNIV	974	0	0
TOTAL WEST VIRGINIA	974	0	0

WISCONSIN	150	0	0
INST OF PAPER CHEMISTRY	32	0	0
LAWRENCE UNIV	794	0	143
UNIV OF WISCONSIN MADISON	976	0	143
TOTAL WISCONSIN	1,076	0	286

WYOMING	17	17	0
UNIV OF WYOMING	17	17	0
TOTAL WYOMING	17	17	0

OUTLYING AREAS

PUERTO RICO	62	0	62
UNIV OF P R CEN SYS*	70	70	0
UNIV OF P R RIVAGUEZ	132	70	62
TOTAL PUERTO RICO	204	140	62

UNITED STATES TOTAL

27,573	1,117	7,142	18	0
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10,955	0	0	0	0
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