DOCUMENT RESUME

ED 452 883 IR 058 169

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TITLE The Status of Academic Libraries in the United States:

Results from the 1996 Academic Library Survey with

Historical Comparisons. Survey Report.

INSTITUTION National Center for Education Statistics (ED), Washington,

DC.; Mathematica Policy Research, Washington, DC.

REPORT NO NCES-2001-301
PUB DATE 2001-05-00

NOTE 146p.; For results of the 1994 survey, see ED 422 031.

Project officer was Jeffrey W. Williams.

AVAILABLE FROM ED Pubs, P.O. Box 1398, Jessup, MD 20794-1398. Tel:

877-433-7827 (Toll Free); Web site:

http://nces.ed.gov/pubsearch/index.asp. For full text:

http://nces.ed.gov/pubs2001/2001301.pdf.

PUB TYPE Numerical/Quantitative Data (110) -- Reports - Research

(143) -- Tests/Questionnaires (160)

EDRS PRICE MF01/PC06 Plus Postage.

DESCRIPTORS *Academic Libraries; Comparative Analysis; Higher Education;

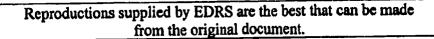
*Library Collections; *Library Expenditures; *Library Personnel; *Library Services; Library Statistics; Library Personnel; *Postsecondary Education;

Surveys; National Surveys; *Postsecondary Education;

Questionnaires

ABSTRACT

This report describes the status of academic libraries in 1996, based on results of the 1996 Academic Library Survey, a part of the Integrated Postsecondary Education Data System (IPEDS) of the National Center for Education Statistics. The report presents detailed tabulations for 1996 and historical comparisons with previous years. Topics covered include: (1) number and diversity of academic libraries, including historical growth and branch libraries; (2) services, including electronic services, circulation, reference transactions, hours of service, presentations, interlibrary loans, and visits to the library; (3) collections, including change in volumes held/added, distribution of volumes of books and bound serials by type of institution, differences in volumes per FTE (Full-Time Equivalent) student, and number of volumes per institution and academic library standards; (4) staff, including distribution of FTE library staff by type, FTE staff per 1,000 FTE students, change in staff since 1974, changes in staff relative to total institution staff and students; and (5) expenditures, including distribution of library operating expenditures, distribution of information resource expenditures, changes in operating expenditures, and operating expenditures as a percentage of total education and general expenditures. The appendices include the methodology, detailed tables, academic library indicators, and the survey questionnaire. (Contains 46 references.) (MES)







NATIONAL CENTER FOR EDUCATION STATISTICS

Survey Report

May 2001

The Status of Academic Libraries in the United States

Results from the 1996 Academic Library Survey with Historical Comparisons

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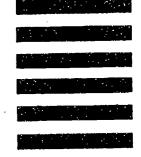
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NATIONAL CENTER FOR EDUCATION STATISTICS

Survey Report

May 2001

The Status of Academic Libraries in the United States

Results from the 1996 Academic Library Survey with Historical Comparisons

Maggie Cahalan Wendy Mansfield Natalie Justh Mathematica Policy Research, Inc.

Jeffrey W. Williams, Project Officer National Center for Education Statistics

U.S. Department of Education
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U.S. Department of Education. National Center for Education Statistics. *The Status of Academic Libraries in the United States: Results from the 1996 Academic Library Survey with Historical Comparisons*, NCES 2001–301, by Maggie Cahaian, Wendy Mansfield and Natalie Justh. Project Officer: Jeffrey W. Williams. Washington, DC: 2001.

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Acknowledgments

The collection and publication of the academic library data has been a team effort. It would not have been accomplished without the support and effort of a number of individuals and organizations. First we would like to thank the academic librarians who provided the information upon which the Survey Report is based and the Integrated Postsecondary Education Data System (IPEDS) Library Coordinators who submitted the data to the National Center for Education Statistics (NCES). The survey was coordinated by Jeffrey Williams, the NCES project officer. The data were collected and processed by the U.S. Bureau of Census Government Division. The American Library Association (ALA) Office of Research and Statistics and the IPEDS Library Project Advisory Committee were instrumental in designing the survey and shaping the content of what is presented in the report.

Members of the IPEDS Library Project Advisory Committee during the time of the study were: Julia Blixrud, Association of Research Libraries; Jan H. Kemp, Texas Tech University; Paul DuMont, Dallas County Community College District; Ron Naylor, University of Miami Libraries; Carolyn Norman, California Community Colleges; Leland M. Park, Davidson College; Keith Lance, Colorado State Library; Hugh Thompson, ALA.

Helpful review was provided by a number of individuals. Leslie Scott of ESSI served as Technical Reviewer. NCES reviewers were Frank Morgan and Bernie Greene. Bruce Taylor adjudicated the report. External reviewers were Allen Cissell, Office of the Community College Liaison, Department of Education; Leland Park, Library Director Dickenson College; Mary Jo Lynch, American Library Association; and Martha Kyrillidou, Association of Research Libraries.



Highlights

Services

- In 1996, 3,408 of the 3,792 postsecondary degree-granting institutions in the United States reported that they had their own academic library.
- Just over one-fourth (28 percent) of the academic libraries in postsecondary degree-granting education institutions have branch libraries, and among those with branches, the mean number of branches was 2.7 (table 1). Branch libraries are auxiliary library service outlets with quarters separate from the central library that houses the basic collection.
- The rapid development of electronic and Internet library services continues. In 1996, over 90 percent of institutions had electronic indexes (such as citation or topical indexes) and reference tools (such as Statistical Abstracts), and 81 percent had Internet access from within the library (table 2).
- Eighty percent of academic libraries provided access to electronic catalogs that included the library's holdings from within the library, and 59 percent provided access to the electronic catalog for clientele off-campus (table 2).
- In fiscal year (FY) 1996, general collection circulation transactions in the nation's academic libraries at postsecondary degree-granting institutions totaled 186.5 million, and reserve collection circulation transactions totaled 44.9 million (table 4). General circulation includes library materials, such as books, videos, and records taken out or charged out by patrons. General circulation also includes renewal of charged library materials. Reserve materials include those that have been removed from circulation and set aside so they will be available for a certain academic course or activity offered by the institution.
- In 1996, 18.5 general circulation transactions were conducted per full-time equivalent (FTE) student (enrolled across all institutions with an academic library). The number of general circulation transactions varied widely by type of institution attended, ranging from 8.1 transactions per FTE student at 2-year Associate of Arts institutions to 35.5 transactions per FTE student attending specialized institutions such as military or law schools (table 5).
- Interlibrary loans are the number of transactions related to filling requests for materials from other libraries. In 1996, academic libraries provided a total of 9.4 million interlibrary loans to other libraries (both academic and other types of libraries) and received 7.5 million loans (table 4). With the advent of more electronic searching and shared catalogs, interlibrary loans have increased in recent years. For example, interlibrary loans received by academic libraries increased by 64 percent over the period between 1990 and 1996 (table 4).
- In 1996, on average, academic library physical facilities were open about 76 hours per week.
 The largest percentage of academic libraries (44 percent) reported providing 60-79 hours of



service per typical week. Forty percent, however, provided 80 or more public service hours per typical week (figure 4).

In 1996, there were about 1.6 visits per week to the library per full-time-equivalent (FTE) student based on a gate count of 16.5 million visitors per typical week (table 4). A gate count is the number of persons who physically enter library facilities (a person can be counted more than once).

Calections

- Taken together, the nation's 3,408 academic libraries at postsecondary degree-granting institutions held a total of 806.7 million volumes of books, bound serials, and government documents. Excluding duplicate titles within a library's collection, there were 449.2 million titles at the end of FY 1996 (table 6).
- Of the total volumes, almost half (45 percent or 352.1 million) were held at the 125 institutions categorized under the 1994 Carnegie Classification as Research institutions (table 8 and figure 8). Research institutions have about 23 percent of FTE students. In contrast 6 percent of volumes were at 2- year Associate of Arts degree-granting institutions, which have 30 percent of FTE students (figure 8).
- Descriptively speaking, over the years since 1974, the number of volumes held in academic libraries per FTE student increased. In 1974 there were 57 volumes held per FTE student and in 1996 there were 81 volumes per FTE student (table 7). The number of volumes held per FTE student varied widely among different types of institutions, ranging from 17. volumes per FTE student in public 2-year Associate of Arts degree-granting institutions to 268 volumes per FTE student in private Research I and II institutions (table 8).
- The number of volumes added to library collections per FTE student declined from 3.0 in 1974 to a low of 1.9 in 1990. In 1996, the number of volumes added per FTE student was 2.1 (table 7 and figure 7).

Staff

- A total of 95,580 FTE staff worked in academic libraries in 1996. Of the total, just under one-third (27,268 or 29 percent) were librarians or other professional staff (appendix table B-8). This group included staff members doing work that required professional education (the master's degree or equivalent) in the theoretical and scientific aspects of librarianship. Professional staff also included staff not trained as professional librarians, who have equivalent education and training in related fields.
- Student assistants, employed on a temporary basis, were 29 percent of total academic library staff. The largest percent of academic library staff were classified as other paid staff,

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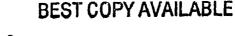


comprising 42 percent of all academic library staff. Other paid staff includes all staff not categorized as library professional staff or student assistants (appendix table B-8 and figure 10).

- Based on counts of higher education staff collected since 1976, it appears that library staff growth has not kept pace with that experienced among the total postsecondary education staff. Overall, since 1976, total library FTE staff has increased by 18 percent, while the total FTE staff in postsecondary degree-granting institutions has increased by about 38 percent (figure 11). The total number of library staff, including student assistants, declined by about 1.3 percent from 1990 to 1996 (table 10).
- In 1996, there were 9.6 FTE total library staff (including student assistants) per 1,000 FTE students (table 10). The institutional median number of library staff per 1,000 was similar (8.7 FTE) (table 10). Excluding student assistants, the median was 5.8 FTE library staff per 1,000 students (appendix table B-13c).

Expenditures

- In 1996, operating expenditures for libraries at the 3,408 postsecondary degree-granting institutions totaled \$4.30 billion (table 11). Half the total expenditures went to salaries and wages.
- Just over one-third (35 percent) of expenditures went to information resources related to the library collection. This category includes expenditures for books and other printed materials (e.g., cartographic materials), current serials, microforms, audiovisual materials, computer files and search services, document delivery and interlibrary loan, and other collection expenditures. An additional 16 percent of expenditures were for furniture and equipment (e.g., book shelving, security equipment), computer hardware and software, bibliographic utilities (e.g., On-Line Catalog Library Corporation (OCLC); Social Science Abstracts), and preservation costs (figure 12).
- Among information resources expenditures, the largest category of expenditures was current serial subscriptions, accounting for fully half of the information resources-related expenditures (figure 13).
- Academic library expenditures per FTE student in constant 1996 dollars were \$445 in 1974 and \$431 in 1996. Low points in expenditures per FTE student were reached in 1981 (\$372) and 1990 (\$392). Between 1990 and 1996 expenditures per FTE student increased by about 4 percent in constant dollars (table 12 and figure 14).



Considering academic library expenditures as a part of an institution's total Education and General (E&G) expenditures for a given year, there seems to be a small steady decline in the percentage of total E&G spent on libraries over the period since 1974. The percentage of E&G expenditures for academic libraries was 3.9 percent in 1974 and 2.8 percent in 1996 (figure 15).

TABLE OF CONTENTS

	•
AcknowledgmentsHighlights	
The Status of Academic Libraries, 1996	
Introduction	1
Topics Covered in the Report	1
Definitions of Key Terms Used in the Report	2
Coverage and Response	6
Classifications Used in the Report	7
Methodological Caution	7
Number and Diversity of Academic Libraries	9
Historical Growth	10
Branch Libraries	10
Academic Library Services	11
Electronic Services	
Circulation, Library Loans, Reference Transactions,	
Presentations	17
Items Borrowed (Circulation)	17
Interlibrary Loans	19
Reference Transactions	20
Visits to the Library (Gate Count)	
Public Service Hours	21
Academic Library Collections	23
Library Collection Summary	24
Change in Volumes Held and Added	25
Change Since 1990 in Volumes Held	28
Distribution of Volumes of Books and Bound Serial	s by Type of Institution 30
Differences in Volumes per FTE Student	31
Number of Volumes per Institution and Academic I	ibrary Standards31



Acad	emic Library Staff	33
	Distribution of Full-Time-Equivalent (FTE) Library Staff by Type	34
	Full-Time-Equivalent (FTE) Staff per 1,000 FTE Students	
	Change in Staff Over Time Since 1974.	
	Changes in Library Staff Relative to Total Institution Staff and Students	
Acad	emic Library Expenditures	39
	Distribution of Library Operating Expenditures	41
	Distribution of Information Resources Expenditures	
	Change in Total Operating Expenditures and Operating Expenditures Per	
	Full-Time-Equivalent (FTE) Student	42
	Academic Library Operating Expenditures as a Percentage of Total Educati	
	and General (E&G) Expenditures	45
	Summary/Conclusion	48
Refe	rences	R-1
	List of Appendices	
Appendix		
A	Methodology	A-1
В	Detailed Tables	B-1
С	Academic Library Indicators	
D	Survey Questionnaire (Including Instructions and Definitions)	D-1

LIST OF TABLES

Fable	l'age
1	Number of libraries, number with branch libraries and mean number of branches among academic libraries having a branch by institutional characteristics: fall 1996
2	Percentage of institutions offering various electronic services by type of access: 1996
3	Percentage of institutions with selected electronic services, by institution control, size, and Carnegie Classification: fiscal year (FY) 1996 16
4	Total number of services provided and number per full-time-equivalent (FTE) student by type of service: fiscal year 1996 and percent change from 1990 17
5	General circulation per full-time-equivalent (FTE) student by Carnegie Classification: 1996
6	Total number of library materials held and added per full-time-equivalent (FTE) student: fiscal year (FY) 1996
7	Number of books and bound serial volumes held and added per full-time equivalent (FTE) student, and number of serial subscriptions held: 1974-1996
8	Number of books and bound serial volumes held at end of fiscal year 1996, volumes held per full-time-equivalent (FTE) student, and percent change since 1990, by Carnegie Classification
9	Number of books and bound serial volumes per institution and percentage distribution of volumes held by institution control, size, and Carnegie Classification: fiscal year (FY) 1996
10	Total academic library staff in 1996, number of staff per 1,000 full-time-equivalent (FTE) students in 1996, and percent change between 1990 and 1996 by control and Carnegie Classification
11	Total operating expenditures for academic libraries in 1996, amount of expenditures per full-time-equivalent (FTE) student in 1996, and percentage distribution of expenditures in 1990 and 1996 by type of expenditures



LIST OF TABLES (CONTINUED)

Table	Page
12	Total and per full-time-equivalent (FTE) student academic library operating expenditures, and percent change between 1990 and 1996 in constant dollars by control and Carnegie Classification
13	Academic library operating expenditures as a percentage of total Education and General (E&G) expenditures; and percent change between 1990 and 1996, by control and Carnegie Classification
	List of Figures
Figure	Page
1	Distribution of academic libraries by Carnegie Classification of institutions: fall 1996
2	Percentage of academic libraries having selected types of electronic services available from within library and elsewhere on campus: fall 1996
3	Mean ratio of items loaned to items received through interlibrary loans by Carnegie Classification: 1996
4	Percentage distribution of academic libraries by public service hours per week and mean public service hours per week by Carnegie Classification: 1996 21
5	Total number of books and bound serial volumes held in academic libraries: 1974 to 1996 (volumes in thousands)
6	Number of volumes of books and bound serial volumes held per full-time-equivalent (FTE) student: 1974-1996
7	Total number of books and bound serial volumes added per year in academic libraries per full-time-equivalent (FTE) student: 1974-1996
8	Percentage distribution of volumes of books and bound serials held at the end of the year and distribution of full-time-equivalent (FTE) student enrollment by Carnegie Classification: 1996



LIST OF FIGURES (CONTINUED)

Figure	Page
9	Percentage distribution of academic library full-time-equivalent (FTE) staff by type of staff: 1996
10	Number of academic library full-time-equivalent (FTE) staff: 1974-1996 36
11	Percent change in full-time-equivalent (FTE) academic library staff and postsecondary degree-granting institution FTE students and staff: 1976-1995/96
12	Percent distribution of academic library operating expenditures by expenditure type and institution level: 1974 and 1996
13	Distribution of academic library expenditures for information resources: 1996 42
14	Academic library operating expenditures per full-time-equivalent (FTE) student in constant (1996) dollars: 1974-1996
15	Academic library operating expenditures as a percentage of total Education and General (E&G) expenditures: 1974-1996
	List of Appendix Tables
Append	ix A tables
A-1 N	umber and percent of responding academic libraries by item and by level and control of

- institution: 1996
- Number and percent of non-responding academic libraries by state, level and control of A-2 institution: 1996
- Total number of academic libraries by state, level, and control of institution: 1996 A-3



Appendix A tables (continued)

A-4 Full-time-equivalent (FTE) enrollment and Education and General (E&G) expenditures in postsecondary degree-granting institutions having academic libraries, by control of institution and Carnegie Classification: 50 states and District of Columbia, 1990 and 1996

Appendix B tables

- B-1 Total circulation and interlibrary loan transactions in academic libraries by control, level, size, and Carnegie Classification of institution: 1996
- B-2 Public service hours per typical week and number of libraries by category of public service hours per typical week in academic libraries by control, lovel, size, and Carnegie Classification of institution: 1996
- B-3 Gate count and number of reference transactions per typical week, and total information service to groups, in academic libraries by control, level, size, and Carnegie Classification of institution: 1996
- B-4 Number of volumes of books, bound serials, and bound government documents held at the end of the year, and number of libraries by number of volumes by control, level, size, and Carnegie Classification of institution: 1996
- B-5 Number of units and linear feet held at the end of the year and number of volumes, units, and linear feet added during the year by material collection category, in academic libraries by control, level, size, and Carnegie Classification of institution: 1996
- B-6 Number of unduplicated titles held at the end of the year in academic libraries by material collection category, by control, level, size, and Carnegie Classification of institution: 1996
- B-7 Number of unduplicated titles added during the year by material collection category, and by control, level, size, and Carnegie Classification of institution: 1996
- B-8 Number and percentage of FTE staff in academic libraries by staff category and by control, level, size, and Carnegie Classification: 1996



Appendix B tables (continued)

- B-9 Total operating expenditures and number of libraries by category of total operating expenditures, by control, level, size, and Carnegie Classification of institution: 1996
- B-10 Library operating expenditures by object of expenditure, and salaries as a percentage of total operating expenditures, by control, level, size, and Carnegie Classification of institution: 1996
- B-11 Operating expenditures for information resources, equipment, and other selected categories of expenditures, by control, level, size, and Carnegie Classification of institution: 1996
- B-12 Percentage of responding institutions with selected electronic services, by control, level, size, and Carnegie Classification of institution: 1996
- B-13a Academic library circulation per full-time-equivalent (FTE) enrollment, by level and control of institution, United States: 1996
- B-13b Number of books and bound serials volumes held at the end of the year, and added during the year by academic libraries per full-time-equivalent (FTE) student, by level and control of institution, United States: 1996
- B-13c Total academic library staff, except student assistants, per 1,000 full-time-equivalent (FTE) students, by level and control of institution, United States: 1996

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- B-13d Total operating expenditures for academic libraries, information resources, and serials expenditures per full-time-equivalent (FTE) student, by level and control of institution, United States: 1996
- B-13e Academic library expenditures as a percentage of Education and General (E&G) expenditures; and expenditures for information resources, current serials, and salaries and wages as a percentage of total library operating expenditures, by level and control of institution, United States: 1996



The Status of Academic Libraries, 1996

Introduction

Two of the national education goals for the year 2000 emphasize the important roles played by resources and staff efforts of academic libraries. The nation's fourth education goal, which is concerned with the ongoing need for access to learning resources for teachers and faculty members, and the nation's sixth education goal, which speaks of lifelong learning, both stress the importance of maintaining and improving the nation's academic libraries (National Education Goals Panel, 1994). This report presents a description of the status of academic libraries in 1996, a time of rapid technology-related change and increased introduction of electronic services (Lynch, 1996).

The report presents detailed tabulations for 1996 and historical comparisons with previous years, with a focus on comparisons since 1990. In 1996, the Academic Library Survey (ALS) was a part of the Integrated Postsecondary Education Data System (IPEDS) of the United States Department of Education's National Center for Education Statistics (NCES).

IPEDS is the U.S. Department of Education's vehicle for collecting data from all postsecondary institutions in the United States. Other surveys included within IPEDS are Institutional Characteristics, Fall Enrollment, Completions, Finance, Faculty Salaries, and Fall Staff. The data in this report come from the postsecondary degree-granting institutions in the United States.

Topics Covered in the Report

Consistent with previous Academic Library reports from the 1990s (Williams, 1993; Rossi and Daughtery, 1997; Cahalan and Justh, 1998), this report focuses on several key library indicators. These indicators, however, have been expanded over previous reports in order to reflect increased attention to library electronic services. Many of the indicators chosen for the report encompass those developed by the Association of Research Libraries (ARL). This group has developed a series of 30 benchmark indicators (Association of Research Libraries Indicators—see appendix C for a listing of the indicators). Many of the ratios forming the indicators (e.g., volumes per student or total expenditures per student) can be developed from information collected in the ALS, and we have included several of them in this report. In addition, we report on several other data items included in the ALS questionnaire.

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Definitions of Key Terms Used in the Report

We list below some key concepts, referred to in this document, with brief definitions.

Library Definitions

- o An Academic library is defined as an entity in a postsecondary institution that provides all of the following:
 - organized collection of printed or other materials, or a combination thereof;
 - a staff trained to provide and interpret such materials as required to meet the informational, cultural, recreational, or educational needs of clientele;
 - o an established schedule in which services of the staff are available to clientele; and
 - the physical facilities necessary to support such a collection, staff, and schedule. This definition includes libraries that are part of learning resource centers.
- Branch libraries are auxiliary library service outlets with quarters separate from the central library that houses the basic collection. The central library administers the branches. Libraries on branch campuses that have separate NCES identification numbers are reported as separate libraries.

Library Services

- Electronic services include Internet access, reference services by e-mail, full-texts of periodicals and academic course reserve materials available electronically, and electronic library indexes (such as citation indexes).
- General and reserve circulation. General circulation includes initial charging out of items, either manually or electronically, by patrons. The count also includes renewals of items, each of which is a circulation transaction. Reserve materials include those items that have been removed from circulation and set aside so they could be available for a certain course or activity.

- Interlibrary loan transactions are the number of filled requests for materials provided to other libraries or received by the library from another library. This includes both originals and copies and materials sent by electronic submission.
- Reference transactions (including computer searches) are information contacts that involve the knowledge, use recommendation, interpretation, or instruction in the use of one or more information sources by a member of the library staff. Information sources may include printed (e.g., book volumes) and non-printed materials (e.g., microforms) and machine-readable databases (e.g., those on CD-ROMS). The transaction may include providing direction to services outside the library.
- Number served in presentations to groups is the number of individuals served in presentations that were sponsored by the library and planned in advance. The presentation may cover instruction in library use, or cultural, recreational or educational presentations. Presentations given off the library site are included as long as they are sponsored by the library.
- Gate count of visitors to library per typical week is the number of persons who physically enter library facilities over the course of a week. A single person can be counted more than once.
- Public service hours is the number of hours the physical facility is open for service for both the main library and its branches.

Library Collections

- Volumes of printed matter is the number of volumes of any printed, mimeographed, or processed work that has been included in the library's catalogs, including those electronically transmitted (e.g., downloaded) from other sources into the library catalog.
- Serial subscriptions include paid and unpaid serials (e.g., Journal of Education Psychology), including government documents issued as serials (periodically). It excludes microforms, audiovisual materials (e.g., videos), and machine-readable materials.
- Cartographic materials represent the Earth (in whole or part) or any celestial body at any scale. They include graphic materials for viewing without sound. Examples are art originals, prints, reproductions, slides, photographs, posters, and films without sound.
- Sound recordings are audio items that are stored mechanically or electronically, or both.
- Films and video materials include films produced in a variety of sizes; video materials include videotapes and laser disks and include government documents in this medium.

- Computer files include materials such as CD-ROMS, magnetic tapes, and magnetic disks that are processed by a computer or similar machine. Examples are U.S. Census data tapes or electronic journals. Bibliographic records that are used to manage the collection are excluded. Government documents are included.
- Other materials include any items not already classified under a preceding category.

Library Staff

- Full-time equivalent (FTE) staff is the number of filled or temporarily vacant full-time equivalent (FTE) library positions. Part-time work is totaled and converted to FTE based on the number of hours the library uses as a full-time workweek.
- Librarians and other professional staff are staff members doing work that requires professional education (the master's degree or equivalent) in the theoretical and scientific aspects of the library profession. The group also includes staff not librarians, who perform professionally equivalent tasks and have education and training in related fields.
- Other paid staff is all other paid staff, except student assistants. This category includes clerical and technical staff but excludes maintenance and custodial staff.
- Student assistants are students employed on an hourly basis to work on library-related tasks. This group includes both students whose wages are paid from funds under the library budget and those paid from other budgets, including the College Work-Study Program.

Library Expenditures

- Salaries and wages are expenditures for full-time and part-time salaries and wages before deductions.
- Information resources includes expenditures for the following materials:
 - books, serial backfiles (such as bound journal volumes), and other print materials;
 - current serials (e.g., periodicals, newspapers, annuals, proceedings and transactions of societies);
 - microforms (photographic reproductions of textual, tabular, or graphic materials reduced in size so that they can be used only with magnification);





- audiovisual materials that are displayed by visual projection or magnification or through sound reproduction or both; and
- computer files and search services, materials considered part of the collection whether purchased or leased, such as CD-ROMs, magnetic tapes and magnetic disks that are designed to be processed by a computer or similar machine. Examples are U.S. Census data tapes or electronic journals, and reference tools (e.g., dictionary) on CD-ROM.
- Document delivery and interlibrary loan related expenditures include fees paid for photocopies, costs of telefacsimile transmission, royalties and access fees paid to bibliographic utilities.
- Other expenditures include preservation, furniture and equipment, computer hardware and software to support library operations, and bibliographic utilities not elsewhere reported.

Other Terms Used in the Report

- Full-time equivalent student is calculated based on the number of full-time students enrolled plus one-third of the number of part-time students.
- Education and general expenditures are the total expenditures for operating the institution, and include expenditures for instruction, administration, student services, research, libraries, public services, operation and maintenance of plant, scholarships and fellowships, and mandatory transfers (money legislatively earmarked for postsecondary education).
- Carnegie classification is a grouping of postsecondary degree-granting institutions into categories developed by the Carnegie Foundation for the Advancement of Teaching. The categorization is based on a combination of levels of degrees awarded, and research funding levels. The Carnegie classification categories used are as follows: Research I and II; Doctoral I and II; Master's I and II; Baccalaureate I and II; Associate of Arts; and Specialized. For table presentation, "level I" and "level II" of the Carnegie classifications were combined. In addition, there were 316 institutions that did not have a Carnegie classification and these were put into a "not classified" category (The Carnegie Foundation for the Advancement of Teaching, A Classification of Institutions of Higher Education, 1994 Edition, Princeton, NJ).



¹ Specialized institutions offer degrees ranging from the bachelor's to the doctorate, at least 50 percent of which are in a single specialized field, e.g., theological seminaries, Bible Colleges, and other institutions offering degrees in religion, and schools of art, music, and design.

Coverage and Response

Of the 3,792 postsecondary degree-granting institutions, there were 172 institutions that did not have their own library but shared a library with one or more of 96 other institutions. These institutions were excluded from the survey. There were also 212 institutions that were found to be ineligible to participate because they did not have an academic library as defined by the survey. Thus, in 1996, there were 3,408 postsecondary degree-granting institutions with academic libraries in the 50 states and the District of Columbia.

Academic Library Survey Response Rates. The response rate for the 1996 Academic Library Survey was 94 percent. Item response rates ranged from a high of 92 percent for the questionnaire item on operating expenditures for books to 67 percent for the item on numbers of government document titles held at the end of the year. Any items discussed in the text with less than 70 percent response rate are noted. Appendix tables A-1 to A-3 present further information on overall and item response rates. Except where noted, data were imputed for nonresponse.

Coverage and Time Frames. The report covers libraries in higher education institutions in the 50 states and the District of Columbia (D.C.). The focus of the report is on 1996 data with detailed comparisons to 1990. We also include selected historical trend comparisons with earlier reports in the series back to 1974. The Academic Library Survey has been conducted by NCES since 1966 at irregular intervals. Beginning with the 1990 survey, the Academic Library Survey has been conducted on a 2-year cycle. Although there have been changes in the questionnaire over the years, the series is generally considered to be continuous. Data collected since 1974 have been summarized and reported in the Digest of Education Statistics in various years (e.g., table 412, 1996). To provide an historical context for this report, we have drawn upon these data published previously in the Digest.

For the 1996 data collection, library staff data were reported for fall 1996. Operating expenditures and library collections were reported for fiscal year (FY) 1996. Library circulation and interlibrary loans are also for FY 1996, and other library services are for a typical week in fall 1996. FY 1996 is defined as any 12-month period between July 1, 1995 and September 30, 1996, which corresponds to the institution's fiscal year. In addition, new questions about electronic services available were added to the data collection instrument.

To ensure complete coverage, imputed data are used in reporting all 1996 data. However, the percent change comparisons with 1990 data were calculated using only those institutions that responded to the item in both 1990 and 1996. These comparisons are made only for items in which 70 percent or more responded in both years.

In 1996, there were 3,408 postsecondary degree-granting institutions with academic libraries in the 50 states and the District of Columbia

The Academic Library Survey response rate was 94.2 percent in 1996

Classifications Used in the Report

The tables and charts in this report present the data by control (library at public, private institution); size of FTE student enrollment (less than 1,500; 1,500 to 4,999; 5,000 or more); and the 1994 Carnegie Classification (see definition above). Appendix B (tables B-1 to B-13) includes tabulations of data by highest offering, a categorization based on the IPEDS classification of the highest degree awarded by the institution (doctor's, master's, bachelor's, and less than 4-year).

Methodological Caution

This is a descriptive report that focuses on information from a census of academic libraries in 1996 and includes summary information from previous similar census counts from other years. The presentation of numbers, proportions, and percentages is descriptive only of libraries in the period referenced.

Appendix A contains methodological information for the 1996 survey. Appendix B contains detailed tables. Appendix C is the Association of Research Libraries (ARL) benchmark listing and appendix D is a copy of the 1996 questionnaire.

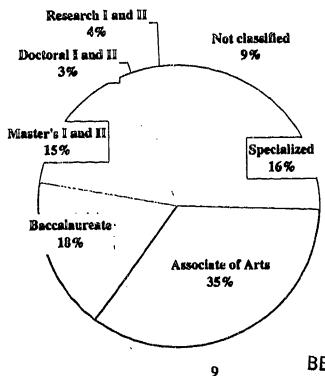
A. 多数,可可能是分析。 多点的分解,是是另一次上部中的一种不同,如此,这种,因为一种有类型,是非常是一种,这种的一种。

Number and Diversity of Academic Libraries

The term "academic library" includes a diverse group of libraries that share the mission of degree-granting postsecondary education in very different settings with a wide range of institutional histories and resource levels. In 1996, just over half the 3,408 academic libraries were in private institutions (54 percent), and slightly less than half (46 percent) were in public institutions (table 1). The distribution of academic libraries by institution type/mission mirrors that of the distribution of postsecondary degree-granting institutions. Classification, Associate of Arts institutions had the largest number of academic libraries (1,182), with about one-third (35 percent) of the total. Approximately one-sixth of academic libraries were in each of the following: Baccalaureate I and II institutions (18 percent, or 599), Specialized institutions (16 percent, or 558), and Master's I and II (15 percent, or 518). Only 4 percent (125) of academic libraries were at Research I and II institutions, and another 3 percent (110) were at institutions classified as Doctoral I and II (figure 1 and table 1).

The largest proportion of academic libraries (35 percent) were at Associate of Arts granting institutions

Figure 1. —Distribution of academic libraries by Carnegie Classification of institutions: fall 1996



SOURCE: United States Department of Education, National Center for Education Statistics (NCES). Integrated **Postsecondary Education Data System** (IPEDS), "Academic Library Survey, 1996."

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Historical Growth

In 1967, there were 2,145 academic libraries reported (Beazley, 1979). By 1974, there were 2,972 academic libraries reported; and in 1987, there were 3,438 (NCES, Digest of Education Statistics, 1996, table 412). There were 3,274 libraries in 1992, 3,303 in 1994, and 3,408 in 1996. The number fluctuates, in part, based on the manner in which branch campuses were classified by the institution in each of the years, so it is not possible to conclude that there were more academic libraries in 1987 than in 1996.

Branch Libraries

In 1996, the 3,408 academic libraries reported a total of 2,532 branches. About 28 percent (945) of the academic libraries reported having branch libraries. In 1996, among those having branches, the mean per library was 2.7 and the median was 1. By Carnegie Classification, the percentage having branches ranged from 16 percent in "Not classified" institutions and 18 percent in Specialized institutions to 94 percent in Research I and II institutions. Among those having branches, the mean number ranged from 1.7 in "Not classified" and Baccalaureate to 8.2 in Research institutions (table 1).

Just over onefourth (28 percent) of academic libraries have branch libraries

Table 1.—Number of libraries, number with branch libraries and mean number of branches among academic libraries having a branch by institutional characteristics: fall 1996

Institutional characteristic	Total li	braries	Libraries with branches		Branches	
	Number	Percent	Number	Percent	Number	Mean
Total	3,408	100%	945	27.7%	2,532	2.7
Control						
Public	1,573	46.2	503	32.0	1,409	2.8
Private	1,835	53.8	442	24.1	1,123	2.5
Carnegie Classification						
Research I and II	125	3.7	117	93.6	956	8.2
Doctoral I and II	110	3.2	81	73.6	244	3.0
Master's I and II	518	15.2	157	30.3	288	1.8
Baccalaureate I and II	599	17.6	138	23.0	237	1.7
Associate of Arts	1,182	34.7	299	25.3	538	1.8
Specialized	558	16.4	102	18.3	181	1.8
Not classified	316	9.3	51	16.1	88	1.7

SOURCE: United States Department of Education, National Center for Education Statistics (NCES), Integrated Postsecondary Education Data System (IPEDS), "Academic Library Survey, 1996."

Acredomic Library Sorvices

The introduction and expansion of electronic technology in academic libraries is greatly changing library services and operations. A new section on the 1996 Academic Library Survey (ALS) form was designed to capture information on the availability of a variety of library electronic services. We first discuss this information and then the more traditional measures of library service, such as circulation, library loans, reference transactions, and gate count.

Electronic Services

The 1996 ALS included over a dozen new categories related to electronic services. These services are:

- electronic catalogs (e.g., electronic listing of the libraries holdings);
- electronic indexes (e.g., citation indexes) and reference tools (e.g., encyclopedias);
- o electronic full-text periodicals (e.g., academic journals);
- electronic full-text course reserves (e.g., copies of unpublished papers used for a course);
- o electronic files other than the catalog (e.g., Statistical Abstract access);
- o Internet access (e.g., access to the Internet from an account assigned to the library):
- library reference service by e-mail (e.g., purchased or acquired services to obtain reference information beyond that obtained in catalogs);
- capacity to place interlibrary loan or document delivery requests electronically;
- o electronic document delivery by the library to patron's account or address;
- computers not dedicated to library functions for patron use inside the library;
- o computer software for patron use inside the library (e.g., city street locating map software);
- o technology in the library to assist patrons with disabilities (e.g., work stations for the physically disabled); and
- o instruction by library staff on use of Internet resources.

For each service, information was obtained on whether the library provided the service from inside the library and from elsewhere on campus. Information was also obtained on whether the service was available from off-campus and to whom access was given—to the primary clientele (students and faculty) only, or to others who were not enrolled or employed at the institution. Before beginning



11

this discussion, we note that the use of electronic services is changing rapidly in libraries. The section below reports on the status of these services in 1996.

Electronic Reference Tools. Electronic reference databases include indexing and abstracting services, encyclopedias, dictionaries, directories, and statistical compilations. By 1996, more than 9 of every 10 institutions (91.2 percent) offered electronic indexes and reference tools within the library (figure 2 and table 2). At roughly half the institutions, users could access the services from elsewhere on campus (53 percent) or—in the case of primary clientele—from off campus (43 percent). The proportion of institutions providing reference access from outside the library ranged considerably by type of institution. Nearly all Research institutions (98 percent) provided off-campus reference services for primary clientele, while just under 40 percent of Associate of Arts libraries did so. Less than one in five institutions (19 percent) provided off-campus access for individuals other than primary clientele (table 2 and appendix B, table B-12).

Electronic Catalogs that list library holdings might consist solely of the library's Online Public Access Catalog (OPAC) or of the library's OPAC along with other databases. In 1996, four out of five academic libraries (80 percent) made available an electronic catalog that included the library's holdings to clients inside the library, and 59 percent made the electronic catalog available to primary clientele off campus. In 1996, just over half (56 percent) made an electronic catalog available to others off-campus (table 2).



Table 2.— Percentage of institutions offering various electronic services by type of access: 1996

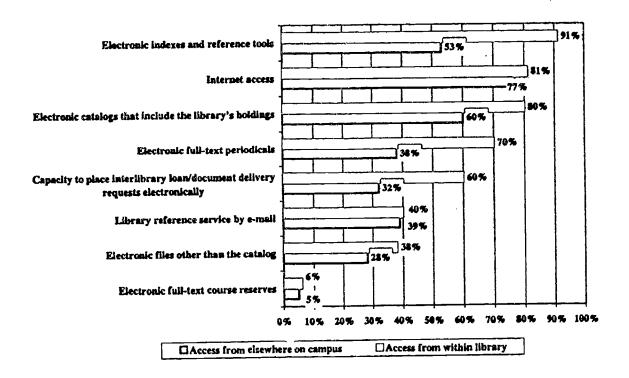
	Acces	s from	Access off campus	
Electronic service	Within library	Elsewhere on campus	Primary clientele	Others
Electronic indexes and reference tools	91.2%	52.5%	43.0%	18.5%
Internet access	80.9	76.9	50.4	23,9
Electronic catalogs that include the library's holdings	79.9	59.9	58.5	55.5
Electronic full-text periodicals	69.7	38.1	31.8	11.0
Capacity to place interlibrary loan/document delivery requests electronically	60.0	31.6	30.6	11.5
Library reference service by e-mail	40.1	38.8	36.4	22.5
Electronic files other than the catalog	38.1	28.1	26.4	24.0
Electronic full-text course reserves	6.3	_5.1	4.5	1.7

NOTE: Unlike all other data items, data items on electronic services were not imputed. All electronic services items had above 80 percent response.

SOURCE: United States Department of Education, National Center for Education Statistics (NCES), Integrated Postsecondary Education Data System (IPEDS), "Academic Library Survey, 1996."

Electronic Full Text. Electronic journals consist of original material available only in electronic form—either for free (via a link to a gopher or Web site) or for a subscription fee—and material previously published in hard copy and now available electronically for a subscription or access fee. Nearly 70 percent of academic libraries provided users within the library electronic access to the full-text of some periodicals in 1996. Public institutions (84 percent) seemed to provide this access more frequently than did private institutions (57 percent). Access from outside of the library was available less frequently at all types of institutions, whether by users on-campus (38 percent of institutions), by primary clientele off campus (32 percent), or by others off campus (11 percent) (table 2 and appendix B, table B-12).

Figure 2.—Percentage of academic libraries having selected types of electronic services available from within library and elsewhere on campus: fall 1996



SOURCE: United States Department of Education, National Center for Education Statistics (NCES), Integrated Postsecondary Education Data System (IPEDS), "Academic Library Survey, 1996."



Reserve Materials. Overall in 1996, the percentage of all academic libraries providing electronic access to full-text of course reserves was 6 percent. This small percentage may be related to the burden involved, copyright concerns, or because the concept was relatively new. Thirty-two percent of Research institutions and 18 percent of Doctoral institutions reported electronic access to the full text of course reserves (table 2 and appendix B, table B-12).

Internet Use. Users can access the Internet in a variety of ways, including via telnet, FTP (file transfer protocol), e-mail, gopher, and WWW (World Wide Web). In the 1996 ALS survey, 81 percent of institutions reported the provision of Internet access from within libraries, and nearly as many cited its availability from elsewhere on campus (77 percent) (table 2). Depending on the type of institution, from two-thirds (68 percent of "not classified" institutions) to almost all (99 percent of Research I and II institutions) offered Internet access from the library (appendix B, table B-12). Off-campus access to the Internet was possible by primary clientele at half the institutions (50 percent) and by others at one-fourth of the institutions (24 percent) (table 2). Along with Internet access, library staff at three-fourths of the institutions (75 percent) offered instruction on the use of Internet resources (table 3).

Institutions also supplied computer hardware and software for use inside the library for non-library purposes. Computer software might include text-only CD-ROMs, multimedia CD-ROMs, and software programs. More than 6 of every 10 institutions provided computers that were not dedicated to library functions (63 percent) and computer software (61 percent) (table 3).

Electronic Support Services. By 1996, libraries had integrated electronic capabilities into their support services. At 60 percent of institutions, users could place interlibrary loans or document delivery requests electronically from within the library. About half as many institutions (32 percent) enabled on-campus users outside of the library to make such requests (appendix B, table B-12). The ability to deliver the documents electronically to patrons' accounts or address was less common. Approximately one of every six institutions (17 percent) offered that service in 1996 (table 3).

计二种主义 化化物的物理 经还有的现在分词 医腹腔 计算时间 "这样的第四十一种不够不知,但不是是有一种的特殊,但不可以是一种,是一种特别的,他们是是有自己的,一个的

Table 3.—Percentage of institutions with selected electronic services, by institution control, size, and Carnegie Classification: fiscal year (FY) 1996

Institution characteristic	Instruction by library staff on use of Internet resources	Computers not dedicated to library functions for patron use inside the library	Computer software for patron use inside the library	Technology in the library to assist patrons with disabilities	Electronic document delivery by the library to patron's account
All	75.4%	63.4%	60.5%	42.1%	16.5%
Public	82.3	62.8	58.0	62.0	19.0
Private	69.1	64.0	62.7	23.8	14.2
Size (FTE enrollment)	ł				
Less than 1,500	65.9	65.3	64.8	23.4	12.7
1,500-4,999	82.3	57.8	54.4	52.1	17.3
5,000 or more	91.9	67.7	58.3	80.8	26.4
Carnegie Classification		1			
Research I and II	100.0	81.5	67.2	90.8	33.3
Doctoral I and II	97.1	70.2	63.7	73.5	33.3
Master's I and II	90.9	63.2	59.0	58.6	22.4
Baccalaureate I and II	80.8	64.9	61.8	28.2	20.2
Associate of Arts	69.6	57.4	55.5	48.1	10.8
Specialized	60.3	68.7	67.0	17.7	12.0
Not classified	66.7	65.6	65.1	25.5	15.5

SOURCE: United States Department of Education, National Center for Education Statistics (NCES), Integrated Postsecondary Education Data System (IPEDS), "Academic Library Survey, 1996."

Access to library reference service by e-mail was a feature offered at about 4 of every 10 institutions for users within the library (40 percent) and elsewhere on campus (39 percent). This service was available to users within the library in 85 percent of Research institutions and 28 percent of Associate of Arts institutions (table 2 and appendix B, table B-12).

A number of libraries have electronic services in place to help patrons with disabilities. Such services might include computer workstations for the physically disabled, reading machines for the blind, and TTY/TDD equipment for the deaf. In 1996, 42 percent of institutions reported that the library had technology to assist patrons with disabilities (table 3). Descriptively speaking, it appears that in 1996 such services were found more often at public institutions (62 percent) than at private institutions (24 percent), and at Research institutions (91 percent) than at Specialized institutions (18 percent).



Circulation, Library Loans, Reference Transactions, Hours of Service, and Presentations

As the movement toward "virtual libraries" and remote access continues, questions arise as to the impact these changes may have over time on the count of traditional library services such as circulation, reference transactions, frequency of visits to the library, and hours of service.

General circulation per FTE student was 18.5 transactions per year in 1996

Items Borrowed (Circulation)

In 1996, general circulation was 186.5 million transactions per year, and reserve circulation totaled 44.9 million transactions per year (table 4). General circulation per full-time-equivalent student was 18.5 transactions and reserve circulation per full-time equivalent student was 4.5 transactions (table 4).

Table 4.—Total number of services provided and number per full-time-equivalent (FTE) student by type of service: fiscal year 1996 and percent change from 1990

Service category	Total number in thousands 1996	Percent change 1990-96	Number per FTE enroliment 1996	Percent change 1990-96
General circulation transactions per year	186,545	12.8%	18.5	6.6%
Reserve circulation transactions per year	44,880	*	4.5	•
Loans to other libraries per year	9,431	*	1.0	*
Loans from other libraries per year	7,512	63.5	0.8	54.3
Reference transactions per week	1,871	-10.5	0.2	-15.3
Served in presentations to groups per year	7,388	*	0.7	•
Visits to library (gate count) per week	16,456	*	1.6	*

^{*}Less than 70 percent response in either 1990 or 1996 or both years.

NOTE: Totals reported for 1996 include imputed data to account for nonresponse. Calculations of percent change include only those institutions reporting in both 1996 and 1990 and are reported only for variables in which 70 percent or more of libraries reported for the item in both 1990 and 1996. FTE student is calculated by taking one-third of part-time enrollment and adding the amount to full-time enrollment. Loans made to other libraries are higher than loans received from other libraries because loans are sometimes made to entities other than academic libraries such as public libraries or libraries sponsored by the government.

SOURCE: United States Department of Education, National Center for Education Statistics (NCES), Integrated Postsecondary Education Data System (IPEDS), "Academic Library Surveys, 1990 and 1996"; and "Fall Enrollment Surveys, 1989 and 1995."

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Change in General Circulation Transactions Since 1990. When the set of institutions reporting in both 1990 and 1996 are compared, there was an increase of 13 percent in general circulation over the period. General circulation per FTE student increased 7 percent between 1990 and 1996 (table 4).

Differences in General Circulation Transactions by Institution Type. Descriptively, general circulation per FTE student varies considerably by institution type, ranging from 8.1 in Associate of Arts granting institutions to 35.5 in Specialized and 32.4 in Research I and II institutions (table 5). Circulation per FTE student was higher in private than public institutions. Circulation transactions per FTE student were 23.5 in private institutions and 16.9 in public institutions (table 5).

Table 5.—General circulation per full-time-equivalent (FTE) student by Carnegie Classification: 1996

Institutional characteristic	General circulation per FTE in 1996				
	Total	Public	Private		
Carnegie Classification					
All	18.5	16.9	23.5		
Research I and II	32.4	30.6	39.2		
Doctoral I and II	18.6	17.6	21.4		
Master's I and II	15.4	15.6	14.8		
Baccalaureate I and II	20.0	16.4	21.0		
Associate of Arts	8.1	8.1	8.5		
Specialized	35.5	36.3	35.2		

NOTE: Data reported for 1996 include imputed data to account for nonresponse. FTE enrollment is calculated by taking one-third of part-time enrollment and adding the amount to full-time enrollment.

SOURCE: United States Department of Education, National Center for Education Statistics (NCES), Integrated Postsecondary Education Data System (IPEDS), "Academic Library Surveys, 1990 and 1996," and "Fall Enrollment Surveys, 1989 and 1995".



Interlibrary Loans

While internal general circulation has increased modestly in recent years, interlibrary loans exhibit larger increases, perhaps reflecting the wider access to on-line library college catalogs, and the strategy of shared resources. The total number of items loaned through interlibrary loan was 9.4 million, and the number received was 7.5 million in 1996. The figures from the institutions reporting in both 1990 and 1996 indicate there was an increase of 64 percent in items borrowed from other libraries. Considered per FTE student, items borrowed increased 54 percent over the 6-year period from 1990 to 1996 (table 4).

Ratio of Interlibrary Items Loaned to Items Borrowed. The total number of interlibrary loans received (7.5 million in 1996) was less than items loaned (9.4 million in 1996) because academic libraries also loan to nonacademic libraries (table 4). The Association of Research Libraries (ARL) has selected the "ratio of items loaned to items borrowed" as an indicator, and this is an example of how an indicator can vary considerably by type of institution. A ratio of 1 indicates that a library lends items at the same rate it borrows. A number greater than 1 indicates a library lends more items than it borrows. A number less than 1 indicates that a library borrows more than it lends.

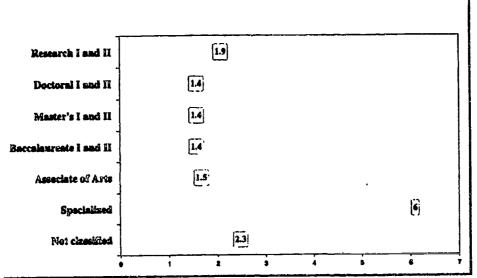
Among those libraries having at least one item loaned and one item borrowed through interlibrary loan, the mean per institution ratio of items lent to items borrowed was 2.2. However, the median per institution was .96 (data not shown). This difference between the mean and the median reflects a very skewed distribution of the ratio across the different types of institutions. The mean ratio was 1.4 in Baccalaureate, Associate of Arts, and "not classified" institutions, was 1.9 in Research institutions, and was 6.0 in Specialized institutions (figure 3). As one might expect, institutions with specialized collections and large collections such as those at research institutions are more likely to be called upon to loan more than they borrow.

· Interlibrary loans received increased · by 64 percent · between 1990 and 1996



36

Figure 3.—Mean ratio of items loaned to items received through interlibrary loans by Carnegic Classification: 1996



SOURCE: United States Department of Education, National Center for Education Statistics (NCES), Integrated Postsecondary Education Data System (IPEDS), "Academic Library Survey, 1996."

Reference Transactions

A total of 1.9 million reference transactions per week (including computer searching) were reported in 1996 (table 4). Fewer libraries reported information on reference transactions (82 percent) than on general or reserve circulation transactions (92 percent for general items and 85 percent for reserve items). Only about 60 percent of the libraries reported reference transactions in both 1990 and 1996, so it is not possible to include this item in the change comparisons over that period. Moreover, the interpretation of reference transactions may be inconsistent and is changing with the use of electronic searching for information. A descriptive comparison of the data for 1994 and 1996 for the total libraries indicates that this category declined slightly over the two-year period.

Visits to the Library (Gate Count)

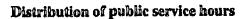
Academic libraries reported a total gate count of 16.5 million visits per week or 1.6 visits per FTE student per week (table 4). As in past surveys, this item also had lower than average item response, with only 78 percent of libraries reporting on the gate count (compared to 82 percent average item response).

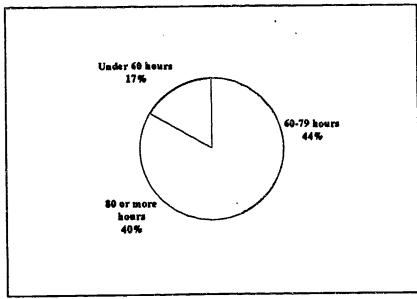
Public Service Hours

On average, academic libraries were open 76 hours per week in 1996. The mean hours ranged from 66 in Associate of Arts institutions to 107 in Research I and II institutions (figure 4). The largest number of academic libraries (44 percent) was open between 60 and 79 hours; another 40 percent, however, were open 80 or more hours. About 17 percent were open under 60 hours and 3 percent were open less than 40 hours (calculated from appendix B, table B-2).

Eighty institutions were open 120 or more hours per week and 31 were open more than 150 hours per week. This later group is very close to being open 7 days a week and 24 hours a day.

Figure 4.—Percentage distribution of academic libraries by public service hours per week and mean public service hours per week by Carnegie Classification: 1996





Mean public service hours per week

i	lours
All degree-granting postsecondary	
institutions	75.9
Research I and II	107.0
Doctoral I and II	97.0
Master's I and II	89.5
Baccalaureate I and II	86.0
Associate of Arts	65.5
Specialized	72.9

SOURCE: United States Department of Education, National Center for Education Statistics (NCES), Integrated Postsecondary Education Data System (IPEDS), "Academic Library Survey, 1996" and "Fall Enrollment Survey, 1995."

21

Academic Library Collections

For some time, faced with the ever-mushrooming number of publications, academic librarians have spoken of the shift from acquisition to access and the "decline of ownership" (Battin, 1989; Kyrillidou, Maxwell, Stubbs, 1996). As we have seen in the discussion of growth in electronic services, with the development of new information age technology, the traditional notion of a library as a physical facility housing primarily paper-based materials has given way to a new image. The academic library is sometimes thought of as a range of services and collections made accessible through networks (Hughes, 1992). At the same time that the information technology revolution is occurring, new technology for information storing and processing have meant that the categories of materials making up a library collection have been expanded. While new electronic media are growing in importance, by the mid-1990s a small fraction of recorded information was actually available in electronic format. Moreover, there continue to be challenges in deciding which documents should be reformatted into electronic form and in providing continued access to these reformatted materials, as well as to those that will never be reformatted (Ardis, 1994).

The Academic Library Survey (ALS) questionnaire has been revised to reflect these changes over the years and continues to be revised. In 1996, the collection categories for which counts were obtained included:

- o books and bound serials:
- o government documents;
- o current serials;
- o graphic materials;
- o sound recordings;
- o film and video materials;
- o computer files;
- o linear feet of manuscripts and archives;
- o microforms;
- o cartographic materials; and
- o other library materials.



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The number of titles a library holds in its collection was also collected for books, government documents not elsewhere classified, serials, microforms, sound recordings, films and video materials, and computer files. Beginning with the 1994 ALS survey, the term "computer files" replaced the term "machine readable materials" used in earlier surveys. Definitions of these items are presented in the introductory section of this report.

Library Collection Summary

Collections may be reported either in terms of counts of volumes or units (in which case some holdings may represent multiple copies of the same work) or in a manner in which each title is counted only once (referred to as unduplicated titles). In 1996, there were nearly 807 million volumes and 449 million unduplicated titles of books, bound serials, and government documents accessible through the academic library catalogs (table 6). In addition, there were 67 million government document titles not elsewhere classified.

Table 6.—Total number of library materials held and added per full-time-equivalent (FTE) student: fiscal year (FY) 1996

	Held at end	of FY 1996	Added durin	g FY 1996	A 33-3 an
Category	Number in thousands	Per FTE student	Number in thousands	Per FTE student	Added as percent- age of held
Volumes, units, and linear feet					
Books and bound serials	806,717	80.6	21,346	2.1	2.6%
Microform units	1,015,714	101.7	38,173	3.8	3.8%
Cartographic materials	33,880	3.4	658	0.1	1.9%
Graphic materials	95,860	9.6	1,952	0.2	2.0%
Manuscripts and archives, linear feet	4,311	0.7	223	0.0	5.2%
Titles			İ		ļ
Books and bound serials	449,179	44.8	12,333	1.2	2.7%
Government documents not reported	1		1 .	ł	
elsewhere	67,314	6.7		0.3	4.1%
Current paid and unpaid serial				1	1
subscriptions	5,709	0.7	274	**	4.8%
Microforms	181,203	18.1	7,331	0.7	4.0%
Sound recordings	9,206	0.9	337	**	3.7%
Films and video materials	3,916	0.4	421	**	10.8%
Computer files	983	0.1	158	**	16.1%

^{*}Less than 70 percent reporting in 1996.

NOTE: FTE student is calculated by taking one-third of part-time enrollment and adding the amount to full-time enrollment in 3,408 institutions having academic libraries.

SOURCE: United States Department of Education, National Center for Education Statistics (NCES), Integrated Postsecondary Education Data System (IPEDS), "Academic Library Survey, 1996" and "Fall Enrollment Survey, 1995."



^{**}Less than .1 per FTE student

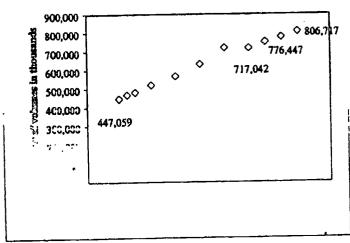
As in 1994, the category of materials with the most units was microforms, with 1,106 million units and 181 million unduplicated titles (table 6). A total of about 5.7 million paid and unpaid unduplicated serial subscriptions were reported. There were approximately 9.2 million titles of sound recordings, 3.9 million of films and videos, and 1.0 million of computer files.

Items Added as Percentage of Items Held. As in other ALS surveys in the 1990s, computer files and films and videos in 1996 continued to exhibit higher relative growth rates than other material collection categories (table 6). The ratio of items added to items held was 16 percent for computer files and 11 percent for films and video materials. In contrast, additions to other categories ranged from 3 percent for book titles to 5 percent for serial subscriptions.

Change in Volumes Held and Added

The number of book and bound serial volumes held and added during the year are statistics that have been consistently collected for a number of years and have had high reporting rates. In 1974, a total of 447 million volumes were counted in the nation's academic libraries and, by 1996, a total of 807 million volumes were counted (figure 5).

Figure 5.—Total number of books and bound serial volumes held in academic libraries: 1974 to 1996 (volumes in thousands)

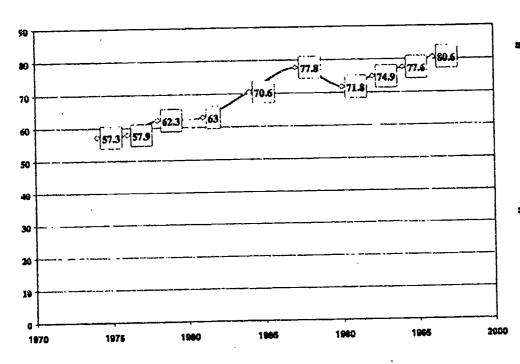


SOURCE: United States Department of Education, National Center for Education Statistics (NCES), Digest of Education Statistics, 1996, table 412; Integrated Postsecondary Education Data System (IPEDS), "Academic Library Survey, 1996."

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Increase Relative to Enrollment. Between 1974 and 1996, the total number of volumes counted as held in academic libraries increased by 80 percent while the total number of FTE students increased by 25 percent (8 million to 10 million). This difference is reflected in the number of volumes held per FTE student, which went from 57 to about 81 over the 22-year period (an increase of 35 percent). As figure 6 and table 7 show, most of the increase in volumes per FTE student occurred in the period prior to 1987. Since 1987, the number of volumes per FTE student has fluctuated between 72 and 81, in part a reflection of differences in FTE student counts.

Figure 6.—Number of volumes of books and bound serial volumes held per full-time-equivalent (FTE) student: 1974-1996



Between 1974 and 1996, the number of FTE students increased 25 percent and volumes increased by 80 percent

SOURCE: United States Department of Education, National Center for Education Statistics (NCES), Digest of Education Statistics, 1996, table 412; Integrated Postsecondary Education Data System (IPEDS), "Academic Library Survey, 1996" and "Fall Enrollment Survey, 1995."



Number of Volumes Added Per Year. The increase in the number of volumes held over time is the result of a rather steady number of volumes added each year rather than increases in the rate of additions. The number of volumes added each year shows little change over the 22-year period, ranging from 23.2 million in 1974 to a low of 19.0 million in 1990 (table 7). In 1996, 21.3 million volumes were added. The number added per FTE student declined between 1974 and 1990 going from a high of 3.0 in 1974 to a low of 1.9 in 1990 (table 7 and figure 7). In 1996, there were 2.1 volumes added per FTE student.

The number of volumes added per year has not increased over the last 22 years

Table 7.—Number of books and bound serial volumes held and added per full-time equivalent (FTE) student, and number of serial subscriptions held: 1974-1996

	Volume	es held	Volu	Serial subscriptions held		
Year	Number in thousands	Per FTE student	Number in thousands Per FTE student		Number in thousands	
1974 1976 1978 1981 1984 1987 1990 1992	447,059 481,442 519,895 567,826 631,727 718,504 717,042 749,429 776,447 806,717	57.3 57.9 62.3 63.0 70.6 77.8 71.8 74.9 77.6 80.6	23,242 22,367 21,608 19,507 20,658 21,907 19,003 20,982 21,544 21,346	3.0 2.7 2.6 2.2 2.3 2.4 1.9 2.0 2.2 2.1	4,434 4,670 4,775 4,890 6,317 6,416 5,749 6,966 6,621 6,588	

NOTE: Figures per FTE student for 1974 to 1992 were taken from the Digest of Education Statistics, 1996, table 412. The figures were calculated on the basis of total FTE students for the various years. FTE students are the number of full-time enrolled plus one-third of the part-time enrollment.

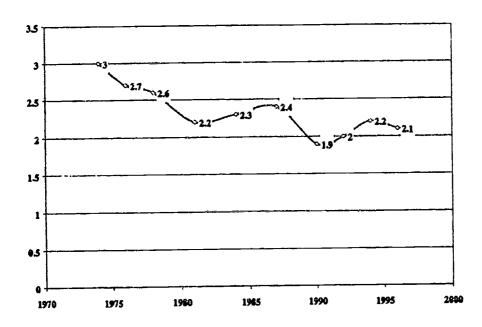
SOURCE: United States Department of Education, National Center for Education Statistics (NCES), Digest of Education Statistics, 1996, table 412; Integrated Postsecondary Education Data System (IPEDS), "Academic Library Survey, 1996" and "Fall Enrollment Survey, 1995."

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² It has been suggested by a reviewer from the American Association of Research Librarians that one of the reasons volumes held is increasing is because of the availability/incorporation of government documents under volumes held.

Figure 7.—Total number of books and bound serial volumes added per year in academic libraries per full-time-equivalent (FTE) student: 1974-1996



SOURCE: United States Department of Education, National Center for Education Statistics (NCES), Digest of Education Statistics, 1996, table 412; and Integrated Postsecondary Education Data System (IPEDS), "Academic Library Survey, 1996" and "Fall Enrollment Survey, 1995."

Change Since 1990 in Volumes Held

A comparison of the set of institutions reporting in both 1990 and 1996 shows that overall the number of books and bound serial volumes in library holdings increased by 16 percent and the number per FTE student increased by 10 percent over the period (table 8). These figures suggest that overall, despite the growth of other media, the number of bound printed volumes held continued to increase at rates higher than that of enrollment. The rates of increases were highest among private Research I and II institutions and public Doctoral I and II institutions. These institutions had increases of 20 to 21 percent in total volumes and 17 percent in volumes per FTE student (table 8). However, increases were not observed for all types of institutions, especially those with increasing enrollments. For example, Associate of Arts institutions experienced a decline of 2.1 percent over the period between 1990 and 1996 in volumes held per FTE student.



Table 8. —Number of books and bound serial volumes held at end of fiscal year 1996, volumes held per full-time-equivalent (FTE) student, and percent change since 1990, by Carnegie Classification

		Volumes held at end of year		Volumes per FTE student					
Imetitutional characteristic	Number in thousands	Percent change 1990- 1996	Number	Percent change 1990-	Lower quartile	Median	Upper quartile		
Total	806,717	15.6%	81	9.5%	20	58	118		
Public	469,864	15.3%	62	9.9%	16	32	64		
Private	336,853	16.2%	137	7.5%	36	91	181		
Research I and III	352,060	18.1%	154	17.0%	102	130	203		
Public	227,670	16.5%	125	16.2%	92	118	145		
Private	124,391	21.3%	268	16.8%	162	245	395		
Doctoral I and III	89,204	18.0%	91	14.7%	61	86	123		
Public	56,673	20.2%	78	16.7%	60	70	107		
Private	32,531	14.0%	128	11.1%	85	107	156		
Master's I and III	161,988	16.1%	69	10.1%	55	68	96		
Public	110,891	15.4%	64	10.9%	51	64	81		
Private	51,098	17.6%	83	6.9%	60	78	113		
Beccolourents I and III	98,134	11.4%	120	-0.3%	78	116	174		
Public	11,299	10.9%	63	1.2%	48	63	88		
Private	86,835	11.4%	136	-0.8%	87	130	186		
Associate of Arts	52,372	6.4%	17	-2.1%	12	19	32		
Public	48,229	7.1%	17	-1.5%	13	19	28		
Private	4,143	*	26	6.9%	6	18	58		
	43,082	10.3%	117	0.4%	38	115	315		
Specializadi	11,025	7.0%	103	-5.4%	60	109	158		
Profic	32,057	11.5%	122	2.7%	36	118	373		
Private Not classified.	9,877	i ø	60	18.2%	9	27	100		

^{*}less than .05 percent

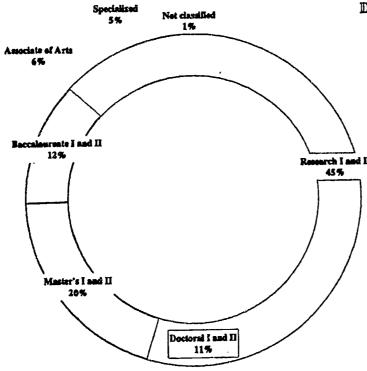
NOTE: Totals reported for 1996 include imputed data to account for nonresponse. Calculations of percent change include only those institutions reporting in both 1996 and 1990 and are reported only for variables in which 70 percent or more of libraries reported for the item in both 1990 and 1996. FTE student enrollment is calculated by taking one-third of part-time enrollment and adding the amount to full-time enrollment. Twenty-five percent of institutions fall into each quartile grouping. All institutions in the lower quartile were at or above the upper quartile number. For example, all institutions within the lower quartile had 20 or fewer volumes per FTE student. Details may not sum to totals because of rounding.

SOURCE: United States Department of Education, National Center for Education Statistics (NCES), Integrated Postsecondary Education Data System (IPEDS), "Academic Library Surveys, 1990 and 1996," and "Fall Enrollment Surveys, 1989 and 1995."

Distribution of Volumes of Books and Bound Serials by Type of Institution

Traditionally, research institutions have maintained the largest collections to serve the needs of graduate students and research faculty. Research I and II institutions enroll about 23 percent of the total FTE students, and they have about 45 percent of all volumes of books and bound serials held (figure 8). The Associate of Arts institutions, enrolling 30 percent of the FTE students, hold 6 percent of the volumes.

Figure 8.—Percentage distribution of volumes of books and bound scrials held at the end of the year and distribution of full-time-equivalent (FTE) student enrollment by Carnegie Classification: 1996



Distribution of FTE student enrollment: 1996

All degree-granting postsecondary institutions	100%
Research I and II	23%
Doctoral I and II	10%
Master's I and II	24%
Baccalaureate I and II	8%
Associate of Arts	30%
Specialized	4%
Not classified	2%

SOURCE: United States Department of Education, National Center for Education Statistics (NCES), Integrated Postsecondary Education Data System (IPEDS), "Academic Library Survey, 1996" and "Fall Enrollment Survey, 1995."

Differences in Volumes per FTE Student

In 1996, the overall number of book and bound serial volumes per FTE student was 80.6 and the median per institution was 58 (table 8). The numbers per FTE student exhibit a wide range by institution type, from 17 per FTE student in public Associate of Arts institutions to 268 in private Research I and II institutions (table 8). The median number of volumes per FTE student per institution ranged from 18 and 19 in public and private Associate of Arts institutions to 245 in private Research I and II institutions.

The number of volumes held per FTE student ranges from 17 in public Associate of Arts institutions to 268 in private Research II and III institutions

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Number of Volumes per Institution and Academic Library Standards

The number of book and bound serial volumes held per institution in 1996 ranged from 61,164 volumes in institutions with less than 1,500 students to nearly a million (964,027 volumes) in institutions with 5,000 or more students (table 9). The 1995 edition of Standards for College Libraries prepared by the Association of College and Research Libraries (ACRL)/College Library Section (CLS) Standards Committee gives a formula for estimating the number of volumes needed. This formula suggests that a basic collection should have at least 85,000 volumes and that there be an additional 15 volumes per FTE student and an additional 100 volumes per FTE faculty. Furthermore, the formula states that there should be 350 volumes per undergraduate major and minor and additional allowances for each master's program (6,000 volumes), each specialist program (3,000 volumes), and each doctoral field (6,000 volumes).

Thus, for example, a baccalaureate institution with 1,000 FTE undergraduates, 10 major fields, and 50 faculty should have about 108,000 volumes. A master's level institution with 10,000 FTE students, 250 faculty, 15 undergraduate majors, and 8 master's programs should have about 313,000 volumes. A doctoral degree-granting institution with 20,000 FTE students, 350 faculty, 15 undergraduate majors, 10 master's programs, and 8 Ph.D. fields should have about 633,000 volumes. One can see from the descriptions note above, and the numbers in table 9, that smaller colleges appear to meet the standard infrequently, while Research universities seem to easily exceed the standard. For example, institutions with less than 1,500 students had 61,164 volumes per institution and a median number of volumes per institution of 35,166 (Table 9)—considerably less than the 108,000 volumes that might be recommended based on the standards. In contrast, Research Institutions had a median of 2.3 million volumes—far exceeding the sample recommendation.

Library standards
for 4-year
colleges
recommend a
basic collection
of 85,000
volumes with
additional
volumes based on
enrollment,
faculty, number
of majors, and
types of degrees
awarded

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The standards for community colleges awarding associate degrees are contained in the publication Standards for Community, Junior, and Technical College Learning Resource Programs, published in 1994 and prepared by a joint committee of the Association for Educational Communications and Technology (AECT) and the ACRL. The recommendations for number of volumes are directly linked to institution enrollment size, and range from 30,000 volumes for institutions with under 1,000 FTE students to 170,000 volumes for those with 17,000 to 19,000 FTE students. One can see from table 9 that the Associate of Arts institutions with 44,308 volumes held per institution, and a median of 37,492 volumes held just exceed the minimum standard for the smallest category of institutions, those with 1,000 FTE students. The average FTE enrollment of Associate of Arts institutions in 1996 was 2,539 (calculated from appendix A table A-4 and table 1).

Library
standards for
two-year
colleges
recommend a
minimum of
30,000 volumes
for institutions
with under 1,000
FTE enrollment
and 170,000 for
those with FTE
enrollments of
17,000-19,000

Table 9.—Number of books and bound serial volumes per institution and percentage distribution of volumes held by institution control, size, and Carnegie Classification: fiscal year (FY) 1996

Institution characteristic	Total number of libraries	Total volumes at end of year in thousands	Per institution	Median per institution	Percent of total volumes held
All	3,408	806,717	236,713	69,965	100%
Control		1			
Public	1,573	469,864	298,706	66,245	58.2%
Private	1,835	336,853	183,571	72,549	41.8%
Size (FTE students)					
Less than 1,500	1,839	112,481	61,164	35,166	13.9%
1,500-4,999	1,014	156,309	154,151	88,354	19.4%
5,000 or more	558	537,927	964,027	484,236	66.7%
Carnegie classification				·	
Research I and II	125	352,060	2,816,481	2,301,269	43.6%
Doctoral I and II	110	89,203	810,944	724,470	11.1%
Master's I and II	518	161,988	312,719	241,368	20.1%
Baccalaureate I and II	599	98,134	163,830	119,093	12.2%
Associate of Arts	1,182	52,372	44,308	37,492	6.5%
Specialized	558	43,082	77,207	45,568	5.3%
Not classified	318	9,877	31,061	8,754	1.2%

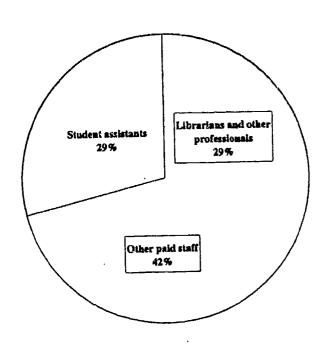
NOTE: Details may not sum to totals because of rounding.

SOURCE: United States Department of Education, National Center for Education Statistics (NCES), Integrated Postsecondary Education Data System (IPEDS), "Academic Library Survey, 1996."

Academic Library Stafff

The development of electronic information databases and automation of many library technical functions have resulted in the redefining of a profession and a change in the composition of staff in academic libraries. Some tasks, previously handled by professional librarians, have been assigned to newly emerging support staff. At the same time, the evolution of information technology requires sophisticated librarians who can provide enhanced information services (Oberg, 1992; Park and Riggs, 1991; Cravey, 1991). Librarians have always served as the link between information resources and consumers of information. The academic librarian in the information age may spend more time instructing students in the skills of self-selecting and reviewing information from an ever-expanding information base. In addition, the library and librarians will maintain the essential infrastructure to accommodate the continuously evolving information environment. Figure 9 presents the distribution of academic library staff by type of staff in 1996.

Figure 9.—Percentage distribution of academic library full-time-equivalent (FTE) staff by type of staff: 1996



SOURCE: United States Department of Education, National Center for Education Statistics (NCES), Integrated Postsecondary Education Data System (IPEDS), "Academic Library Survey, 1996."

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Distribution of Full-Time-Equivalent (FTE) Library Staff by Type

Academic libraries employed about 95,580 FTE staff in 1996.³ Of the total FTE library staff, 29 percent were librarians or other professional staff, and the same percentage was student assistants. The category "other paid staff" comprised the largest proportion of academic library staff, 42 percent (figure 9).

The proportion of FTE library staff who are librarians and other professional staff was similar across institution type and control (see appendix B table B-8). For example, the proportions were 27 percent in Research I and II institutions, 33 percent in Specialized institutions; and 27 percent in public institutions and 30 percent in private institutions.

Full-Time-Equivalent (FTE) Staff per 1,000 FTE Students

While the relative distribution of staff between professional, non-professional, and student assistants was similar by type of institution, the number of FTE library staff per 1,000 FTE students appears quite different. For example, in private Research I and II institutions the number of FTE library staff per 1,000 FTE students was 24.0 and in public Research I and II institutions it was 12.3 (table 10). Similarly, in private Baccalaureate I and II institutions there were 14.3 FTE staff per 1,000 FTE students, while in public Baccalaureate I and II institutions there were 7.9 FTE staff per 1,000 FTE students.

50

³Academic library staff were reported in the survey form in full-time-equivalent (FTEs) staff.

Table 10.—Total academic library staff in 1996, number of staff per 1,000 full-time-equivalent (FTE) students in 1996, and percent change between 1990 and 1996 by control and Carnegie Classification

	Total staff including student assistants		Total staff including student assistants per 1,000 FTE students					
Institutional characteristic	Number	Percent change 1990- 1996	Mean	Percent change 1990- 1996	Lower quartile	Median	Upper quartile	
Total	95,580	-1.3%	9.6	-6.5%	5.1	8.7	15.5	
Public	58,506	-1.8%	7.8	-6.4%	4.0	5.9	8.4	
Private	37,074	-0.6%	15.1	-7.4%	8.1	13.0	22.4	
Research I and III	33,400	~1.0%	14.7	-1.6%	. 10.1	, 13.3	19.4	
Public	22.276	-1.0%	12.3	-1.1%	9.3	12.3	14.0	
Private	11.124	-1.0%	24.0	-3.7%	16.8	22.8	30.1	
Dectoral I and II	10,301	5.5%	10.5	: 3.4%	7.8	10.2	13.8	
Public	6.587	3.5%	9.0	1.6%	7.1	, 8.9	10.7	
Private	3,714	9.5%	14.6	6.8%	10.6	13.4	17.5	
Master's I and II	19,465	-3.8%	8.3	-9.5%	6.5	8.4	11.3	
Public	13.014	-6.1%	7.5	-10.3%	6.0	7.2	9.0	
Private	6,451	1.0%	10.5	-8.8%	7.8	10.3	13.1	
Reprofessivente II and III	10,537	-6.9%	12.9	-15.4%	8.7	12.4	17.8	
Public	1,427	-1.6%	7.9	-9.4%	6.2	7.8	10.2	
Private	9,109	-7.6%	14.3	-16.4%	9.7	13.4	19.1	
Associate of Arts	13.354	-3.9%	4.4	-11.6%	3.3	4.9	7.2	
Public	12,197	-4.1%	4.3	-11.8%	3.3	4.6	6.2	
Private	1.157	-0.5%	7.4	-6.0%	4.1	8.0	14.4	
Specialized	6,349	5.7%	17.2	-2.6%	10.7	19.7	36.4	
Public	1.782	1.6%	16.6	-10.2%	10.1	17.8	28.2	
Private	4,567	7.7%	. 17.4	1.2%	10.8	19.6	38.5	
Not draffled	2,175	55.3%	13.1	; 55.8%	4.3	9.1	28.5	

SOURCE: United States Department of Education, National Center for Education Statistics (NCES), Integrated Postsecondary Education Data System (IPEDS), "Academic Library Surveys, 1990 and 1996" and "Fall Enrollment Survey, 1995."

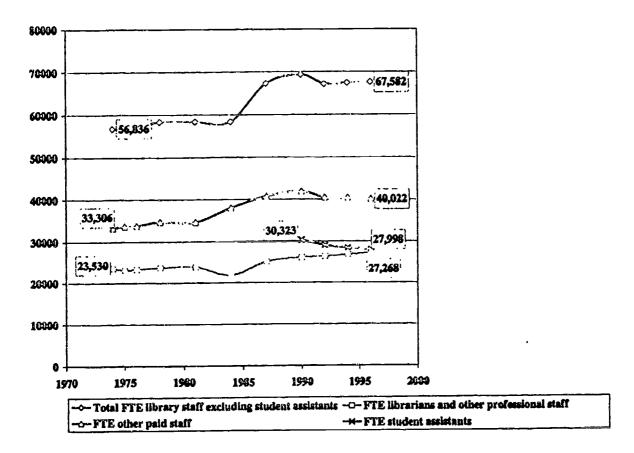
NOTE: Twenty-five percent of institutions fall into each quartile grouping. For any statistic, all institutions in the lower quartile fell at or below the number given in the table for the lower quartile and all institutions in the upper quartile were at or above the upper quartile number. For example, all institutions within the lower quartile had 5.1 or fewer staff per 1000 FTE students.

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Change in Staff Over Time Since 1974

Figure 10 graphs FTE staff for total staff (excluding student assistants but including contributed services staff),⁴ other non-professional staff, and librarians and other professional staff from 1974 to 1996. Data on FTE student assistants are available and graphed only for the period after 1990.

Figure 10.—Number of academic library full-time-equivalent (FTE) staff: 1974-1996



SOURCE: United States Department of Education, National Center for Education Statistics (NCES), Digest of Education Statistics, 1996, table 412; and Integrated Postsecondary Education Data System (IPEDS), "Academic Library Surveys, 1994 and 1996."

⁴ Contributed services staff are staff, such as members of religious orders, whose services are valued by booking entries rather than by full cash transactions.

36

Between 1967 (not shown on graph) and 1977, the total number of non-student assistant library FTE staff grew from 43,500 in 1967 to 57,087 in 1977 (Beazley, 1979). By 1988, this number was 67,300, and in 1990 the number was 69,359. Between 1990 and 1992, however, declines in library staffing were reported (Williams, 1994), with the total number of staff, including contributed services staff, being 67,166. The comparable number in 1996 was 67,582 (figure 10).

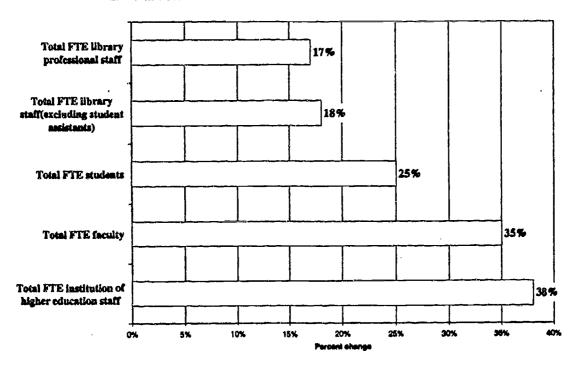
Change in Staff, Including Student Assistants. Comparable data on the number of FTE student assistants is available only since 1990. When the total library staff is considered (including student assistants) for institutions reporting in both 1990 and 1996, we see that the total numbers have declined by 1.3 percent since 1990 (table 10). When considered per 1,000 FTE students there was a decline of 6.5 percent between 1990 and 1996 (table 10). These declines occurred at both public and private institutions. The largest decline per 1,000 FTE students was at Baccalaureate I and II institutions (15.4 percent), followed by Associate of Arts institutions (11.6 percent) and Master's I and II institutions (9.5 percent). Library staff per 1,000 FTE students at Doctoral I and II institutions, on the other hand, increased by 3.4 percent.

Changes in Library Staff Relative to Total Institution Staff and Students

Counts of library staff since the mid-1970s suggest that the number of academic library staff has not kept pace with student enrollment, and lags behind the increases experienced by the total postsecondary degree-granting institution staff. Over the period from 1976 to 1995 (two dates for which comparable figures on total FTE staff are available), the total full-time-equivalent number of FTE staff increased from 1.86 million to 2.60 million (a 38 percent increase) and FTE students went from 8 million to 10 million (a 25 percent increase). FTE faculty increased by 35 percent (calculated from Fall Staff in Postsecondary Institutions, 1995). In contrast, the number of FTE library staff (excluding student assistants) increased by 18 percent. FTE library professional staff increased by 17 percent over about the same period (1976 to 1996) (figure 11).

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Figure 11.—Percent change in full-time-equivalent (FTE) academic library staff and postsecondary degree-granting institution FTE students and staff: 1976-1995/96



SOURCE: United States Department of Education, National Center for Education Statistics (NCES), Integrated Postsecondary Education Data System (IPEDS), "Academic Library Survey, 1996" and "Fall Staff in Postsecondary Institutions, 1995."

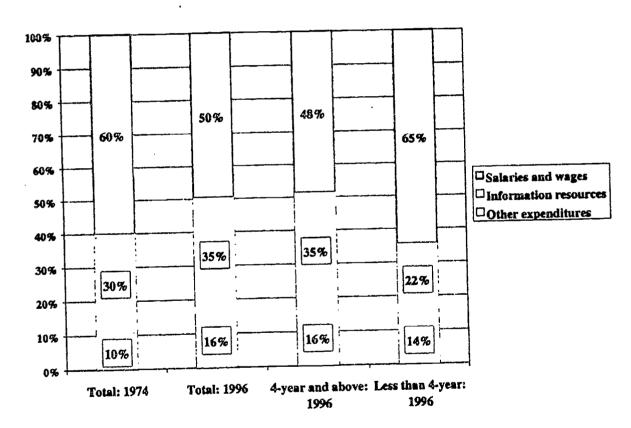
NOTE: The time periods used in the calculations correspond to the years of scheduled data collections. Calculations of percent change for library-related staff are for the period 1976 to 1996. Calculations of percent change for students, faculty and all FTE staff in degree-granting postsecondary institutions are for 1976 to 1991.

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Academic Library Expenditures

In 1996, academic library operating expenditures totaled just over 4.3 billion dollars. Library expenditures cover a wide range of materials and activities ranging from salaries and wages to postage for document delivery. In recent years the survey categories have been revised to include computer-related items and electronic information resources. Figure 12 provides the percent distribution for broad categories of expenditures, and the detailed categories for which separate expenditure information was collected in 1996 are listed in table 11.

Figure 12.—Percentage distribution of academic library operating expenditures by expenditure type and institution level: 1974 and 1996



SOURCE: United States Department of Education, National Center for Education Statistics (NCES), Digest of Education Statistics, 1996, table 412; and Integrated Postsecondary Education Data System (IPEDS), "Academic Library Survey, 1996."

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39

Table 11.—Total operating expenditures for academic libraries in 1996, amount of expenditures per full-time-equivalent (FTE) student in 1996, and percentage distribution of expenditures in 1990 and 1996 by type of expenditures

Operating expenditures	Total expenditures in thousands 1996	Pagrendikunes por IFIE student ISV	Percent distribution of total expenditures 1996	Remark dissillation of the mount in vs
Total	\$4,301,815	\$425.68	100.0%	1.00%
Salaries and wages	2,147,842	21.4.47	49.9	52.0
Information resources	1,499,249	149.77	34.9	34.:.
Current serial subscriptions	780,830	78.14	18.2	16.9
Books and bound serials	472,592	47.09	11.0	12.3
Microforms	61,577	6.14	1.4	1.0
Audio-visual	28,879	2.87	0.7	6.7
Document delivery	17,645	1.76	0.4	5.3
Computer files/search services	103,539	10.34	2.4	23
Other information resources	34,186	3.42	0.8	. G.6
Furniture and equipment	56,128	5.60	1.3	i.5
Computer hardware and software	157,949	15.78	3.7	1.9
Bibliographic utilities, networks, consortia	85,113	. 8.49	. 2.0	: . 1.1
Preservation	45,610	4.57	1.1	
Other operating expenditures	264,314	30.99	6.1	8.2

NOTE: Amounts used for percent distribution calculation include imputed data in both 1990 and 1996. FTE student is calculated by taking one-third of part-time enrollment and adding the amount to full-time enrollment.

SOURCE: United States Department of Education, National Center for Education Statistics (NCES), Integrated Postsecondary Education Data System (IPEDS), "Academic Library Surveys, 1990 and 1996," and "Fall Enrollment Survey, 1995."

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Distribution of Library Operating Expenditures

As one can see from figure 12 and table 11, salaries and wages account for half (50 percent) of all operating expenditures. Descriptively speaking, the proportion of expenditures spent on salaries and wages has declined over the last 20 years, going from 60 percent in 1974 to 50 percent in 1996 (figure 12).

The proportion of expenditures spent on salaries and wages was similar across public and private institutions and institutions of various enrollment sizes (52 percent in public institutions versus 47 percent in private). However, the proportion of the expenditure budget spent on salaries and wages at less than 4-year institutions was somewhat larger (65 percent) than at 4-year and above institutions (48 percent) (figure 12 and appendix table B-10).

Table 11 shows that the detailed expenditure distributions in 1996 and 1990 are very similar, though the proportion of expenses attributed to new electronic resources and services was higher overall in 1996 than in 1990. In 1996, 8.1 percent of expenditures went to the combined categories of computer files and searches, computer hardware and software, and bibliographic utilities, networks, and consortia, compared to 5.3 percent in 1990 (table 11). This increase in electronic services-related expenditures was consistent with that reported by other researchers. The Association of Research Libraries (ARL) reported that the percentage of library materials expenditures for electronic resources nearly doubled over 3 years—from 3.60 percent in 1992-1993 to 6.97 percent in 1995-96 (ARL, Special Issue: Issues in Research Library Measurement, April 1998).

Distribution of Information Resources Expenditures

An examination of the distribution of expenditures for information resources (figure 13) reveals the dominance of serials expenditures, which accounted for just over half (52 percent) of all information resources expenditures. A number of library expenditure analyses also show the large proportion of information resource expenditures spent on serials and the increase in unit costs over the last 10 years. Statistics reported for research libraries by the ARL indicated that between 1986 and 1995, ARL libraries doubled expenditures for serials while buying 8 percent fewer titles (Kyrillidou, Maxwell, and Stubbs, 1996).

The percentage of operating expenditures going to salaries and wages was 60 percent in 1974 and 50 percent in 1996

The percentage of expenditures going to new electronic resources and services was about 8.1 percent in 1996 and 5.3 percent in 1990

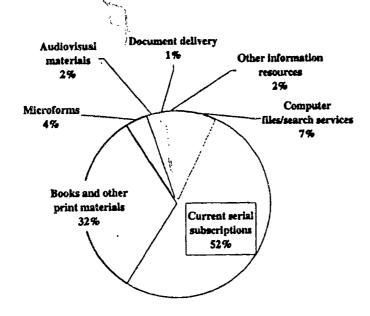
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Serial
expenditures
account for over
one-half of
information
resource
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Figure 13.—Distribution of academic library expenditures for information resources: 1996



SOURCE: United States Department of Education, National Center for Education Statistics (NCES), Integrated Postsecondary Education Data System (IPEDS), "Academic Library Survey, 1996."

Change in Total Operating Expenditures and Operating Expenditures Per Full-Time-Equivalent (FTE) Student

In current dollars, total operating expenditures have gone from \$1.09 billion in 1974 to \$4.30 billion in 1996. In constant 1996 dollars, total operating expenditures have gone from \$3.47 billion to \$4.30 billion (tabulated from NCES library statistics of colleges and universities, various years, and 1996 Academic Library Survey). Public academic libraries had 61 percent of the expenditures, and private academic libraries had 39 percent. Research I and II institutions accounted for 41 percent of the total academic library expenditures. Baccalaureate I and II institutions accounted for 9 percent. Between 1990 and 1996, overall library expenditures increased by 10 percent in constant dollars (table 12).



Table 12.—Total and per full-time-equivalent (FTE) student academic library operating expenditures, and percent change between 1990 and 1996 in constant dollars by control and Carnegie Classification

	Total ar	nount	Per full-	ime-equiva	dent (FTE)	student		
institutional	Amount in	Percent	Mean	lPercemt	Lower	Miedian	Upper	
editeireiterie:	Thousands	change	'	change	quartile*	:	quartile	
		1990-96	1	1990 96	Ì	1		
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7.056	\$4,301,815	10.1%	\$431	4.4%	\$179	\$310	\$531	
Public	2,629,997	5.3	350	1.5	144	220	339	
Private	1,671,819	17.3	682	8.7	258	417	754	
Research Land III	1,780,260	10.7	781	10.4	524	673	1,067	
Public		8.0	625	8.3	468	593	697	
Private	645,244	16.3	1,390	13.4	899	1,223	1,823	
!Doctoral l'and III	494,021	8.0	502	5.8	347	469	660	
Prolic	305,532	5.2	418	3.0	; 326	396	473	
Private	188,489	14.1	741	11.6	508	660	769	
Minster's II and III	810,453	8.0	344	1.7	270	333	435	
Public		2.8	322	ð.1-	261	314	389	
Private		22.2	406	9.6	292	377	485	
Baccalaureate I and	388,732	13.8	476	i.9	285	390	. 581	
II			201	1 40	1 020	274	392	
Public		3.6	301	-4.8	232 298	409	623	
Private		15.6	525	2.6	i	169	. 244	
Associate of Arts	•	4.9	155	-3.1	118		218	
Public		, 4.0	152	-6.1	: 121	163	381	
Private		28.3	207	28.4	102	212	1,518	
Specialized		18.8	766	8.2	350	609	•	
Public		18.4	901	3.3	398	819	1,477	
Private		19.0	711	10.6	337	592	1,528	
Not Classified	79,765	32.8	481	31.3	: 126	281	1,094	

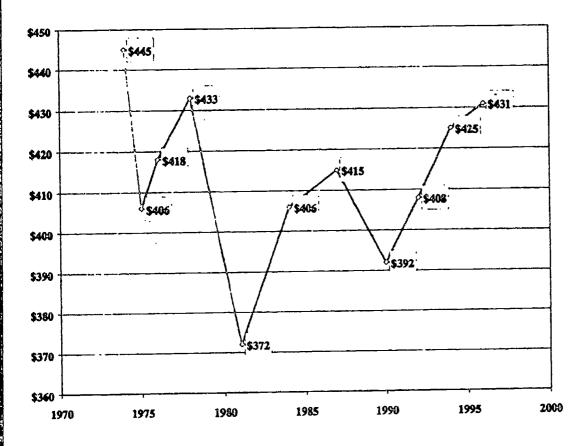
NOTE: Amounts reported for 1996 include imputed data to account for nonresponse. Calculations of percent change include only those institutions reporting in both 1996 and 1990 and are reported only for variables in which 70 percent or more of libraries reported for the item in both 1990 and 1996. FTE enrollment is calculated by taking one-third of part-time enrollment and adding the amount to full-time enrollment. Details may not sum to totals because of rounding. Constant dollars calculated based on consumer price index as published in 1996 US Statistical Abstract, table 745, and Digest of Education Statistics, 1997, table 38.

*Twenty-five percent of institutions fall into each quartile grouping. For any statistic, all institutions in the lower quartile fell at or below the number given in the table for the lower quartile and all institutions in the upper quartile were at or above the upper quartile number. For example, all institutions within the lower quartile had \$179 or less operating expenditures per FTE student.

SOURCE: United States Department of Education, National Center for Education Statistics (NCES), Integrated Postsecondary Education Data System (IPEDS), "Academic Library Surveys, 1990 and 1996," and "Fall Enrollment Survey, 1995."

Expenditures Per Full-Time-Equivalent (FTE) Student. In constant dollars, expenditures per FTE student were \$445 in 1974 and \$431 in 1996. The lowest amount per FTE student occurred in 1981 when constant 1996-dollar expenditures were \$372 and in 1990 when expenditures were \$392 (figure 14).

Figure 14.—Academic library operating expenditures per full-timeequivalent (FTE) student in constant (1996) dollars: 1974-1996



NOTE: Constant dollars calculated based on Consumer Price Index (CPI) as published in Digest of Education Statistics, 1997, table 38, and 1996 US Statistical Abstract, table 745.

SOURCE: United
States Department of
Education, National
Center for Education
Statistics (NCES),
Digest of Education
Statistics, 1997, table
412; and Integrated
Postsecondary
Education Data System
(IPEDS), "Academic
Library Survey, 1994
and 1996," and "Fall
Enrollment Survey,
1995."

In constant dollars, between 1990 and 1996, overall expenditures per FTE student increased by 4.4 percent. Associate of Arts institutions, however, experienced a decline of 3.1 percent over the period (table 12).

Expenditures per full-time-equivalent (FTE) student ranged from \$152 per FTE student in public Associate of Arts institutions to \$1,390 in private Research I and Research II institutions (table 12). Expenditures per FTE student in private institutions were about double those in public institutions (\$682 and \$350, respectively). Median expenditures per institution also showed an almost twofold difference between public and private institutions. The median expenditures per FTE student were \$310 overall, \$220 in public and \$417 in private institutions (table 12).

Academic Library Operating Expenditures as a Percentage of Total Education and General (E&G) Expenditures

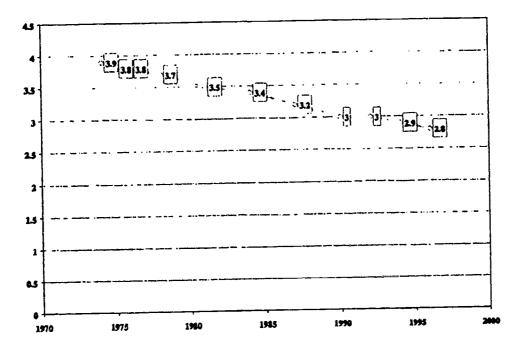
Total Education and General (E &G) expenditures are collected in the IPEDS Finance Survey and this information has traditionally been used to look at the extent to which libraries are being supported financially.

As part of the ongoing development of standards for academic libraries, the Association of College and Research Libraries (ACRL) has established standards on the percentage of total institution expenditures that should go to academic libraries for two of the three categories of academic libraries. The Standards for Community, Junior, and Technical Learning Resource Programs and the Standards for College Libraries both established a standard that academic libraries should receive 6 percent of their university's total budget. The Standards for University Libraries does not mention a specific percentage. However, the 6 percent goal is often also cited for this group as a target. Data on research libraries have shown that this goal has never been reached and in fact that the share has declined over the period from 1982-1992 (Goudy, 1993; Cummings et. al, 1992).

Examination of the data for the total group of academic libraries for the period 1974-1996 shows that the percentage of total institutional E&G expenditures spent by libraries appears to have declined from 3.9 in 1974 to 2.8 in 1996 (figure 15).

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Figure 15.—Academic library operating expenditures as a percentage of total Education and General (E&G) expenditures: 1974-1996



SOURCE: United
States Department of
Education, National
Center for Education
Statistics (NCES),
Digest of Education
Statistics, 1996, table
412; and Integrated
Postsecondary
Education Data System
(IPEDS), "Academic
Library Survey, 1996"
and "Finance Survey,
1996."

Using the set of institutions reporting in both 1990 and 1996, we see that there was a decline of 7.5 percent in the percentage of the total E&G expenditures spent by academic libraries over the 1990-96 period (table 13). A decline was experienced by all categories of libraries except those in the "not classified" category (table 13).

Table 13.—Academic library operating expenditures as a percentage of total Education and General (E&G) expenditures; and percent change between 1990 and 1996, by control and Carnegie Classification

Unadautiaeni Augusturdaulua	Percentage of total E&G expenditures 1996	Persont clause in person of odd. 13&G 1990-96	Lower quartile	Modifest	Upper quartile
77500	2.8%	-7.5%	1.9%	2.7%	3.6%
Darling.	2.7	-7.5	1.8	2.5	3.2
Private	2.9	-7.8	2.0	2.8	4.3
Reservato I and hi	2.9	-6.9	2.4	2.8	3.3
Punc	2.8	-4.3	2.5	2.8	3.2
Private	:	-6.5	2.2	2.8	3.6
December II and III		-10.7	2.3	3.1	3.7
Public		-9.3	2.7	3.2	3.6
Private	3.2	-13.4	2.1	3.0	3.9
Misster's I and III		-9.1	2.4	2.9	3.5
Priblic		-9.3	2.7	3.1	3.9
Private	:	-6.7	2.1	2.6	3.2
Baccalourente I and	3.0	-9.8	2.2	2.8	3.4
Pablic	3.2	-13.5	2.8	3.3	3.8
Private	3.0	-9.2	2.1	2.7	3.3
Associate of Arts	2.0	-11.4	1.5	2.2	3.0
Public	2.2	-11.8	1.6	2.2	2.9
Private	1.2	-0.2	1.1	. 2.2	3.4
Specialized	2.2	-5.1	1.9	3.6	6.8
Public		-4.1	1.4	1.9	2.9
Private		· -7.4	2.2	4.1	· 7.2
Not desified		14.6	1.3	2.8	7.9

NOTE: Figures for 1996 include imputed data to account for nonresponse. Calculations of percent change include only those institutions reporting in both 1996 and 1990 and are reported only for variables in which 70 percent or more of libraries reported for the item in both 1990 and 1996. Twenty-five percent of institutions fall into each quartile grouping. For any statistic, all institutions in the lower quartile fell at or below the number given in the table for the lower quartile and all institutions in the upper quartile were at or above the upper quartile number. For example, all institutions within the lower quartile had 1.9 percent or less of expenditures for academic libraries.

SOURCE: United States Department of Education, National Center for Education Statistics (NCES), Integrated Postsecondary Education Data System (IPEDS), "Academic Library Surveys, 1990 and 1996," "IPEDS Finance Surveys 1990 and 1996."

47

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Summary/Conclusion

The first half of the 1990s was a time of rapid change in methods of information dissemination. By 1996, 90 percent of academic libraries made electronic reference services available. Almost 80 percent of academic libraries had electronic catalogs, and over half of these were made available to off-campus clients. Eighty-one percent provided Internet access from within the library. While general circulation increased modestly, there were larger increases in the use of interlibrary loans, reflecting the increasingly open computerized access to catalogs.

Descriptive statistics suggest that while the number of book volumes held in collections increased from 1990 to 1996, the number per FTE student increased only slightly since 1987. The number of volumes added per year appears to have remained relatively constant since 1974, ranging from 23,000 in 1974 to a low of 19,507 in 1990. In 1996, this number was at 21,000. Information resources such as computer files and films and videos had the highest ratios of items added to items held, reflecting the relative newness of these categories of materials and building of collections in these areas.

Descriptively speaking, there continue to be large differences in the number of volumes per FTE student between institutions by Carnegie classification. The number of volumes per FTE student ranged from 17 in Associate of Arts institutions to 154 in Research I and II institutions. Associate of Arts institutions have 6 percent of all volumes held across libraries while having almost one-third of FTE student enrollment (30 percent).

In a period of increasing library automation and change in library staff roles, the actual total number of FTE academic library staff has declined slightly between 1990 and 1996—reflecting a trend also observed in 1992 and 1994 (Rossi and Daugherty, 1997; Cahalan and Justh, 1998). The number of staff reported per 1,000 FTE students declined by almost 7 percent between 1990 and 1996. While declines in the total number of academic library staff have occurred only recently, over the last 20 years increases in academic library staff seem not to have kept pace with those of the total staff in degree-granting postsecondary institutions. The number of professional staff in libraries has remained largely stable over the period between 1989 and 1996.

Academic library operating expenditures totaled over 4 billion dollars in 1996. The distributions of operating expenditures by category of expenditure in 1990 and 1996 were very similar, except for increases in the proportion going to electronic-related services and microforms and small declines in the proportion going to salaries and wages and book volumes. Serial expenditures continue to dominate the distribution of information resources expenditures. The amount of expenditures per FTE student in constant 1996 dollars was slightly lower in 1996 than 22 years earlier, in 1974, but increased since 1990 (one of the low

points) by about 10 percent. Academic library expenditures as a percentage of total institution expenditures continue to decline, and have ranged between 3.9 and 2.8 percent between 1974 and 1996. These figures fall short of the 6 percent recommended by Association of College and Research Libraries (ACRL). Data suggest that there were large differences in library operating expenditures and staff per FTE student by Carnegie classification. For example, library expenditures per FTE student were \$155 in Associate of Arts institutions and \$781 in Research I and II institutions. Similarly, the number of FTE library staff per 1,000 FTE students was 4.4 in Associate of Arts institutions and 14.7 in Research I and II institutions.

These data suggest that the changes in information technology were beginning to have impacts on academic library statistics in areas of types of services, staff numbers, collection additions, and distribution of expenditures. Future surveys will provide more information on the continued extent of these changes.

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Appendix A: Methodology

Scores

The Academic Libraries survey was mailed in August 1996 to all postsecondary institutions in the United States.* Among the 3,792 postsecondary degree-granting institutions in the United States that are the focus of this report the response rate was 95 percent. The Academic Library file and this report are limited to postsecondary degree-granting institutions.

Of the 3,792 postsecondary degree-granting institutions in the United States, there were 172 institutions that did not have their own library but shared a library with one or more of 96 other institutions. Those 172 institutions were excluded from the survey. There were also 212 institutions that were found to be out of scope because they did not have an academic library as defined by the survey. Thus there were 3,408 postsecondary degree-granting institutions of the 50 states and the District of Columbia that had academic libraries in 1996. The response among these 3,408 institutions was 94 percent.

An Academic Library is defined as an entity that provides all of the following:

- organized collection of printed or other materials, or a combination thereof;
- a staff trained to provide and interpret such materials as required to meet the informational, cultural, recreational, or educational needs of clientele;
- an established schedule in which services of the staff are available to clientele; and
- the physical facilities necessary to support such a collection, staff, and schedule.

This definition includes libraries that are part of Learning Resource Centers. The library must be operated by a postsecondary degree-granting institution.

The Collection Precedures

The Academic Library Survey data are collected and processed by the Census Bureau for NCES. In 1990, an NCES/IPEDS (Integrated Postsecondary Education Data System) academic library survey improvement project was begun with the assistance of the National Commission on Libraries and Information Science (NCLIS) and the American Library Association's Office of Research and Statistics (ALA-ORS). The project identified a librarian in each state to work with IPEDS Coordinators in submitting library data to NCES. For the 1990, 1992, 1994, and 1996 data collections, many of those library representatives took major responsibility for collecting data in their state. Others were available to promote prompt responses from librarians and to assist in problem resolution when anomalies were discovered in completed questionnaires.

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^{*}This report is based only on responses of postsecondary degree-granting institutions. The response rate among "other postsecondary institutions" is typically under 50 percent.

The project also assisted NCES in developing microcomputer software packages for use by states in reporting library data to NCES. The software package was named Input and Data Editing for Academic Library Statistics (IDEALS). Academic librarians within each state completed hard copy forms as in the past and returned them to the state's library representative or the IPEDS Coordinator. States were given the option of submitting the library forms to NCES, but were encouraged to enter those data into IDEALS and submit the data on diskette to NCES.

The IDEALS package features some internal consistency edit checks as well as a few range checks and summation checks. Library representatives at the state level could run edit/error reports and make corrections before submitting the data on diskette to NCES.

Editing and Imputation

The IDEALS computer program described above includes many edit checks providing some warnings as the data are being keyed and provides an edit/error report after the data have been keyed. Examples of these edit checks are listed below:

- Summations—reported totals are compared with the sums of the constituent data items. If they are not equal, an error message is generated.
- Relational edit checks—the program compares data entries from one section of the questionnaire with data entries from another section of the questionnaire for consistency. For example, if books and bound serials were added during the fiscal year the program would expect some expenditure to be reported for books and bound serials. If one is reported without the other an error message is generated. Another example is that the number of volumes of print materials added during the fiscal year cannot exceed the total number of volumes held at the end of the fiscal year.
- Range checks—For example, if the average salary of librarians is less than \$20,000 or greater than \$100,000, an error message is generated. If any of the collections data, except for volumes held at the end of the year, is greater than 1,000,000, an error message is generated. If the reported hours of service is less than 10 hours per week or greater than 168 hours per week, an error message is generated.

When probable errors were identified by the IDEALS edit checks, state or Census Bureau personnel contacted the institution to resolve the problem.

After the data were received by NCES from every state, the data files were merged and general edits and imputations were performed. Some examples follow.

- If a total was blank or zero, but there were one or more positive subtotals the total was changed to equal the sum of the subtotals.
- If prior year (1994) data were available, the 1994 responses were used for imputation. A ratio adjustment was done, taking into account the average amount of change that occurred in the variable within the imputation stratum to which the institution was assigned. These ratios were then applied to the prior year data used for imputation. The

A-2

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strata were based upon the highest level of degree (doctor's, master's, bachelor's, and associate), and control and size of institution. The four control/size imputation categories were: public, less than median number of degrees for institutions in that category; public, equal to or greater than the median; private, less than the median; private, equal to or greater than the median.

- If prior year data were unavailable, for purposes of imputation, the postsecondary file was divided into the 8 imputation classes noted above and averages for the class were applied.
- To calculate the imputed value for a subtotal, the average estimate was calculated across the set of respondents in each class, including ones for which the total was obtained by adding the subtotals, but excluding those for which the sum of the subtotals did not originally equal the total. The average subtotal value was divided by the average total value within each imputation class to obtain an average proportion. The average proportion was multiplied by the reported total to obtain the imputed subtotal value.

- If for total staff (Part B, line 6 on the survey form) and total operating expenditures (Part C, line 19 on the survey form), the total and all subtotals were blank or zero, they were imputed by taking the average of the imputation class.
- Values were imputed for all data items in Parts B through F of the survey form, except contributed services staff (Part B, line 4 on the survey form) and employee fringe benefits (Part C, line 23 on the survey form). These categories were applicable to only a few institutions. Values were not imputed for electronic services (Part G). Tables B-1-11 and B-13 reflect imputed data. Table B-12, which reports percentages, does not include imputed data.

The imputation procedure of using a ratio adjustment to prior year data for imputation represented a change from that followed in previous cycles, and may have resulted in some small differences in estimates. The change for 1996 to the use of ratio adjustments allowed use of information about actual changes in the data, which enabled more accurate imputation. While checks indicate that the effect of the change in imputation procedure was not large, this report uses data from institutions reporting in each reference year to make comparisons over time.



Response Rates

Of the 3,408 degree granting postsecondary institutions that have academic libraries, 197 or 5.8 percent were complete nonrespondents. Tables A-1 to A-4 present further information on response rates. The first three rows of table A-1 present the number of academic libraries, and the number and percentage of nonrespondents and respondents by level and control of institution. In addition, the remaining rows show the number and percentage of libraries responding for each item.

Due to NCES standards only items that have at least a 70 percent item response rate were included in the comparisons over time. The comparisons over time were made using the same set of institutions in each year.

Classifications Used in the Report

The tables in this report present the data by state, control (public, private); level of highest offering (doctor's, master's, bachelor's, and less than 4-year); size of FTE student enrollment (less than 1,500; 1,500 to 4,999; 5,000 or more); and the 1994 Carnegie classification. For table presentation, "level I" and "level II" of the Carnegie classifications were combined. The Carnegie classification categories used are as follows: Research I and II; Doctoral I and II; Master's I and II; Baccalaureate I and II; Associate of Arts; and Specialized. In addition, there were 316 institutions that did not have a Carnegie classification in 1994 and these were put into a "not classified" category (Carnegie Foundation for the Advancement of Teaching, A Classification of Institutions of Higher Education, 1994 Edition, Princeton, NJ).

Caution on the analysis of data by state and by level and control of institution. Because the number of complete nonresponses can vary by state and affect the reliability of the state estimates, table A-2 presents the distribution of the set of complete nonrespondents by libraries by state and by level and control of institution. Table A-3 gives the number of academic libraries by state, level, and control of institution. The data user should be especially cautious in using data at a level of detail where the nonresponse rate was 30 percent or greater.



Table A-1.- Number and percent of responding academic libraries by item and by level and control of institution: 1996

						4-year Institutions	fftuffons				Less than 4-year	g s	Public	و	Private	£
41	Total post-	7. \$	Total 4-year Institutions	nev.		 ₹	Highest level of degree	of degree								
	degree-	Douglud			Doctor's	o,s	Master's	8.3	Bochelor's		Total res- ponding	Pct res-	Total res- ponding	Pct res-	Total res- ponding	Pct res- ponding
	intiffutions		Total res- ponding	Pct res- ponding	Total responding	Pct res- ponding	Total res- ponding	Pct responding	Total responding	Pct res- ponding						
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Library staff Library staff Library professional staff Al other poid staff Conflibrated services staff Shudeni asstrantialing	3,106 3,030 2,713 3,027 2,881	91.1 88.9 79.6 88.8 84.5	1,936 1,896 1,709 1,917	91.5 80.8 80.8 9.9 9.53	64.4.8.8.4.6.4.6.4.6.4.6.4.6.4.6.4.6.4.6	91.1 91.1 80.9 86.8	25.5 25.2 25.3 25.3 25.3 25.3 25.3 25.3	93.3 91.0 81.0 87.0	28882	89.6 80.6 80.4 87.6	1,170 1,004 1,004 1,004	90.5 87.7 82.3	1,493 1,485 1,318 1,458 1,411	94.9 94.4 83.8 92.7	1.613 1.545 1.395 1.569 1.470	87.9 84.2 76.0 85.5
Port C-Ubrary operating expenditures Ubrarians/professional staff	3.014 2.889 2.933	88.89.44 4.86.12	1.874 1.803 1.860	83.6 85.2 87.9	484 472 478	90.0 87.7 88.8	811 783 815	89.6 86.5 90.1	55 58 58 58 58	86.1 81.5 84.5	1,140	88.2 84.0 83.0	1,486	93.2 89.3	1.548 1.454 1.528	27.00 4.00 6.00 7.00 7.00 7.00 7.00 7.00 7.00 7
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NOTE: Coution should be exercised when using data at a level of detail where the response rate was less than 70 percent.
NOTE: EOFY is held of End Of Recal Vear.
SOURCE: United States Department of Education, National Center for Education Statistics (NCES), integrated Postsecondary Education Data System (IPEDS), "Academic Library Survey, 1996."

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colored —— 2.466 72.47 1.463 96.73 3.95 64.13 64.2 71.05 473 70.05 11.00 77.04 11.00 <t< th=""><th></th><th></th><th>.=</th><th>D 0</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>			.=	D 0													
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d — 2772 70.6 1,637 77.4 37.6 60.9 721 70.7 53.6 60.3 1,035 63.1 1,286 2 2720 87.6 1,044 17.6 411 20.0 746 83.2 1,007 83.4 1,007 83.4 1,007 83.4 1,007 83.4 1,007 83.4 1,007 83.4 1,007 83.4 1,128 83.8 1,128 83.8	Sound recordings (no. ilitist) backed Sound recordings (no. ilitist) eoly Film/ykdeo materia's units accided Film/ykdeo materia's units eoly	2,047 2,047 3,015	77.7 28.5 8.5 8.5	282 1.828 4.828 4.828	6 6 5 8 6 6 5 5 8 6 6 5 5 6	8888 8888	8888 6464	\$88£	883.20 883.20 883.20	8888	2.05.05 2.4.85.05	2862	£ 25 € 2 4 4 6 0	262 1.262 1.400 1.400	8, 2, 9, 8 8, 8, 9, 8 8, 9, 19, 19, 19, 19, 19, 19, 19, 19, 19,	58.55 58 58.55 58.55 58.55 58.55 58.55 58.55 58.55 58 58.55 58 58 58 58	7.47 7.55 6.80 6.80 6.80 6.80
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3.137 92.0 1.957 92.5 492 91.4 853 94.3 610 91.0 1.180 91.3 1.493 2.909 85.4 1.851 86.6 458 65.1 779 86.1 572 85.4 1.009 85.0 1.396 2.901 85.1 1.856 87.8 45.8 85.1 86.3 87.0 1.100 82.0 1.396 2.901 85.1 1.856 87.3 47.5 86.3 87.0 86.1 1.100 82.0 1.477 3.053 87.6 1.857 86.3 87.0 86.1 1.136 87.2 1.466 3.101 91.0 1.797 91.6 482 85.2 86.0 87.0 86.1 1.136 87.9 1.466 3.101 91.0 1.609 86.1 1.706 86.1 1.106 90.0 1.466 3.102 82.0 1.701 87.0 87.0 1.107 97.0	Computer fles no. of fiffes eofy	2729 2.485 2.581	73.2 73.2 75.7	883. 1.530 1.530	7.7.3	888	7.27	<u> </u>	81.9 73.8 76.4	12.4.4	77.5 72.8 72.8	9.38 8.88	24.0 74.6 77.2	<u>%</u> 28	87.7 80.2 80.2	1278 1278 1320	783 71.9
Tribical week 3,101 91.0 1,937 91.6 462 89.6 844 93.3 609 90.9 1,164 90.0 1,486 2,658 78.0 1,007 76.1 446 82.9 756 83.4 529 79.0 1,049 81.1 1,309 Includes 82.0 1,731 81.8 446 82.9 756 83.4 529 79.0 1,049 82.3 1,357 Includes 83.172 93.1 1,977 93.5 505 93.9 657 94.7 613 91.5 1,195 92.4 1,515 Pypkingly 2,846 86.4 1,852 87.6 489 90.9 80.6 89.1 556 82.8 1,071 82.8 1,432 Pypkingly 2,867 86.1 489 90.9 70.5 538 80.3 1,071 82.8 1,432 Pypkingly 2,867 86.2 70.3 87.6 531	Port E-Library services, flecal year Circulation trans, general Circulation trans, reserve Inder-loans provided to Infer-loans provided from Infer-loans received from Infer-loans received from Infer-loans received from Info serv, no, of presentations		92.0 85.4 85.1 87.0 87.0	1,957 1,810 1,831 1,856 1,899 1,899	92.5 85.6 86.6 87.8 87.8	455 455 455 175 175	91.4 855.1 865.2 865.2 875.3	853 777 779 828 828 828	6.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00	510 572 573 583 583 577	91.0 855.4 86.7.0 88.7.0	55.00 56.00	9.55.0 8.55.0 8.75.9 9.75.0 9.75.0	1.498 1.398 1.408 1.477	96.5 97.5 97.5 97.5 97.5 97.5	444. 1.12. 1.23. 1	0.0000000 0.00000000000000000000000000
Includes 1,172 93.1 1,977 93.5 505 93.9 857 94.7 613 91.5 1,195 92.4 1,515 91.0 91.5 1,094 84.0 1,432 91.0 91.0 91.5 1,094 84.0 1,432 91.0 91.0 91.0 91.0 91.0 91.0 91.0 91.0	Part F-Library service per typical week Public service hours Gate count Reference transactions	3,101 2,658 2,795	91.0 78.0 82.0	1,937	91.6 76.1 81.8	323	89.6 75.1 82.9	255 255	93.3 78.2 83.4	\$\$\$	% 24.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7	20.0	90.0 81.1 82.3	1.486 1.303 1.357	94.5 82.8 6.3	1,615	88.0 73.8 78.4
2.891 84.8 1,802 86.1 487 90.5 793 87.6 538 80.3 1,071 82.8 1,412 85.2 46.4 90.0 785 86.7 531 79.3 1,055 81.6 1,395	Part G-Electronic services Electronic catalog that includes Electronic catalog that includes Excery's holdings Access from within library Access from within library Access from electronic on compus		93.1 86.4	1,977	93.5 87.6	₹ \$3.94	93.9	8657	98.7	613 686	91.5	1.1%	92.4 84.6	1,515	91.0	1,657	90.3
	Clerible Access off compute by others		8.88	1,820	86.1 85.2	£ £	80.0	28.33	87.6 86.7	22.2	7803	1.071	82.8	1.412	85.7 86.7	1,479	809 7.7

NOTE: Cauthon should be exercised when using data at a level of debal where the response rate was less than 70 percent.
NOTE: EOFY = held of End Of Fiscal Year
NOTE: EOFY = held of End Of Fiscal Year
SOURCE: United States Department of Education, National Center for Education Statistics (NOES), integrated Postsecondary Education Data System (PEDS), "Academic Library Survey, 1996."

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Table A-1.- Number and percent of responding academic libraries by Item and by level and control of institution: 1996 (confinued)

Control Cont							4-yeor institutions	itutions				Less than 4-year	S a	Public	Q	Private	Jte
Control Con	3		PCT 58	4 lotor	yeor fore		五	shest level	of degree					-			
Figure 1						8	9.3	Most	e.	Boche		Total res-	Pot res-	fotal res- ponding	Pct rest ponding	fotol res- ponding	Pot rate ponding
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Second Company Seco																	
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OFY 2.651 0.537 1.791 84.7 481 89.4 781 66.3 65.7 77.2 1.050 82.0 1.350 82.0 oranges 2.782 81.6 1.74 82.6 46.5 86.4 76.2 84.7 51.7 77.2 1.050 82.0 1.350 82.0 1.350 82.2 44.5 86.4 76.2 84.7 51.7 77.2 1.050 82.0 1.350 82.2 82.2 82.2 82.2 82.2 82.2 82.2	Access from within Eprory	3,172	93.1%	1,630	93.3%	SS 2	93.9%	38	94.3%	\$47	91.6%	1,198	92.7% 83.3	1,514	%7.2% 88.0 98.0	25.4. 88.4.	8.0 8.0 8.0
Compose	Access of compare by princy Clearly Compare by princy	2.851	63.7	1,791	82.6	8 8	80.4 4.08	781	86.3	627 517	78.7	1.060	82.0 80.1	1.355	8 8.4 8 6.1	1,461	8. 1.8 8.
2.8651 83.7 1,791 84.7 451 65.4 702 64.2 517 77.2 1,000 82.0 1,390 80.1 1,355 80.1 1,746 82.6 4.5 64.5 64.5 70.2 64.2 517 77.2 1,000 82.0 1,355 80.1 1,355 80.1 1,355 80.1 1,355 80.1 1,355 80.1 1,766 82.0 1,491 90.1 1,491 90.1 1,491 90.1 1,491 90.1 1,491 90.1 1,491 90.1 1,491 90.1 1,491 90.1 1,722 82.4 4.6 87.0 75.6 83.5 56.6 75.4 1,077 80.0 1,491 90.1 1,392 80.1 1,792 82.0 1,792 82.	Electronic Oil test periodicals Access from within Botton Access from electronic access from electronic electr	3.161	92.8 5.3	1,965	92.9 86.5	24	93.3	880	93.8 88.1	612	91.3 816	1,1%	83.3	1.508	95.9 90.6	1.653	9.20 1.6.10
3115 914 1938 914 475 824 470 842 930 842 930 844 47	Access off compute by primory clearlest	2.851	83.7	1.791	84.7	481 465	89.4 86.4	78.	86.3 84.2	527 517	78.7	000.1 000.1	82.0 80.1	1,390	8.8 4.1	1,461	77.8
2781 810 11722 82.4 488 870 756 815 516 77.0 1,039 80.4 1,338 8.5	Electronic full lear course reserves Access from within Bioray	3,115	91.4 83.8	1,938	91.6 4.4	\$\$ 6	92.0	28.85	93.0 67.2	\$22	78.4	7,1,1 1,0,1	91.0	1,481	94.2	1.634	7.67
3.132 91.9 1,948 92.1 499 92.8 840 92.6 607 90.6 1,184 91.6 1,491 2.861 63.9 63.9 66.9 66.9 66.9 79.0 1,184 91.6 1,491 2.775 62.0 1,775 63.0 449 87.2 766 64.6 519 77.5 1,039 80.4 1,307 2.775 61.2 1,775 65.8 87.2 76.6 64.4 519 77.5 1,039 80.4 1,307 2.775 61.0 60.3 67.9 64.4 615 91.8 1,195 92.4 1,515 2.842 66.3 66.3 66.9 66.9 76.1 1,000 77.7 1,356 2.752 60.4 66.3 67.7 77 86.1 62.2 77.4 1,307 2.752 60.8 1,77 81.3 62.9 77.4 1,307 1,307 2.752 </th <th>Access off compus by primary clientele</th> <td>2.781</td> <td>81.6</td> <td>1,742</td> <td>82.4</td> <td>804. 805.</td> <td>87.0 85.9</td> <td>35.55</td> <td>83.5 83.5</td> <td>518 508</td> <td>77.0</td> <td>1,026 920.1</td> <td>90.4 4.07</td> <td>1,358</td> <td>86.3 85.3</td> <td>1,423</td> <td>77.5</td>	Access off compus by primary clientele	2.781	81.6	1,742	82.4	804. 805.	87.0 85.9	35.55	83.5 83.5	518 508	77.0	1,026 920.1	90.4 4.07	1,358	86.3 85.3	1,423	77.5
mobile by partnerly 2775 62.0 1,756 63.0 469 67.2 766 64.6 519 77.5 1,039 80.4 1,367 migus by partnerly 2,767 81.2 1,757 66.8 758 63.8 610 76.1 1,030 79.7 1,367 within librory 3,170 93.0 1,975 93.4 50.4 67.7 86.1 55.2 1,195 92.4 1,511 bleavinere on computs migus by primory 2,642 83.4 47.2 87.7 779 86.1 53.2 79.4 1,657 81.3 45.4 779 86.1 53.2 79.4 1,536 82.4 1,536 82.4 1,536 82.4 1,536 82.4 47.2 87.7 779 86.1 53.2 79.4 1,637 79.0 1,336 mice as printed by partners 2,752 80.8 1,776 81.3 42.4 779 86.1 50.0 90.4 1,307 80.1 1,408 <th>Electronic files other than catalog Access from within Rocky</th> <td>3,132</td> <td>91.9 93.9</td> <td>1,948</td> <td>92.1 84.6</td> <td>472</td> <td>92.8 67.7</td> <td>35</td> <td>92.8</td> <td>\$8</td> <td>%. %.0</td> <td>1,184</td> <td>91.6 82.9</td> <td><u>6.1</u></td> <td>94.8</td> <td>26.1</td> <td>200 4.05 4.03</td>	Electronic files other than catalog Access from within Rocky	3,132	91.9 93.9	1,948	92.1 84.6	472	92.8 67.7	35	92.8	\$8	%. %.0	1,184	91.6 82.9	<u>6.1</u>	94.8	26.1	200 4.05 4.03
1,105 1,10	Access itemporaries of compose of		92.0	1,756	82.1	\$ \$	87.2	258 758	83.8	519 510	77.5	1,039 0.00	7.02	1,35 1,35 1,35 1,35	86.9 86.2	1,428	7.8
2 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Internet occess Access from within Boary		93.0	1,975	93.4 87.0	504	93.7	200	94.4	615 561	91.8 82.2	2.1. 2.1.5 2.1.0	92.4	1,511	96.1	1,659	20.0 20.0 20.0
3.132 91.9 1,952 92.3 500 92.9 644 93.3 606 90.4 1,180 91.3 1,494 2.3 2,690 64.8 1,015 640 80.6 1,075 83.1 1,406 83.1 1,406 81.1 1,406 81.1 1,75 83.9 47.4 88.1 774 85.5 525 78.4 1,049 81.1 1,380 81.1 1,380 81.1 1,71 81.2 1,71 81.2 1,71 81.2 1,71 81.3 1,999 92.6 503 93.5 843 97.1 53.0 80.0 1,076 83.2 1,413 81.4 1,807 85.4 481 89.4 788 87.1 53.0 80.0 1,076 83.2 1,413	Access of compus by primary cleanable compus by primary cleanable compus by primary compus by primary and compus by others		83.4 80.8	1,785	84.4	2.23	87.7	82	86.1	888	76.0	1,067	81.7	985.1 845.1	88.3	1.453	79.2 76.5 76.5
37 2,824 82.9 1,775 83.9 474 88.1 774 85.5 525 78.4 1,049 81.1 1,380 81.2 2,702 81.0 1,731 81.8 457 84.9 759 83.9 83.9 81.9 70.7 1,352 1,959 92.5 500 92.5 500 93.5 843 92.1 611 91.2 1,188 91.9 1,502 1,413 90.0 1,076 83.4 481 89.4 788 87.1 63.6 80.0 1,076 83.2 1,413 90.9 1,386	Upony reference service by e-mail Access from within library		9.1.9 8.48	1,952	92.3	88	92.9	\$ 8	93.3 87.6	83	0.08 4.60	1,180	91.3 83.1	1,494	95.0 80.5	1,638	89.33 80.83
3.147 92.3 1,969 92.6 503 93.5 643 93.1 611 91.2 1,188 91.9 1,502 compose 2,883 84.6 1,807 85.4 461 89.4 788 87.1 636 80.0 1,076 83.2 1,413 compose 2,883 84.6 1,807 85.4 461 89.4 788 87.1 636 80.0 1,076 83.2 1,413 compose 2,883 84.6 1,807 85.4 461 89.4 788 87.1 636 80.0 1,076 83.2 1,413	Access of compass by primary clearless compass by others		82.9	1,775	83.9 81.8	474	88.1	77 789	25.55 6.03	525	78.4	1,049 1,031	81.7 79.7	1.380 1.352	86.0	4.1	78.7
9801 9801 186 663 879 876 876 876 876	loon/doc delty requests electronically Access from within library		22.3	1.959	92.6	 & §	93.5		82.1	 28	91.2 80.0	1,188	91.9 83.2	1,502	95.5	1,645	99.6 90.1
2.818 82.7 1,763 83.4 473 87.9 700 04.5 02.0	Access from esseviente on cultiple Access off complis by primary clientale		82.7	1,763	83.4	473	67.9	765	84.5	223	76.1	1.065	91.6	1,386	68.1	1,432	78.0

NOTE: Cauthon should be exercised when using data at a level of detail where the response table was less than 70 percent.
NOTE: EOFY = held of End Of Flacal Year
SOURCE: United States Deportment of Education, National Center for Education Statistics (NCES), Integrated Postsecondary Education Data System (IPEDS), "Academic Ubrary Survey, 1996."

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Table A-1.- Number and percent of responding academic libraries by Hern and by level and control of Institution: 1996 (continued)

]					4-yeor institutions	ffluttons				Less than 4-year	S 8	Public	<u>ş</u>	Private	gle also
	post-		Total 4-year institutions	-yeor flors		X	Chest leve	Highest level of degree								
	granting	O DO DO			Doctor's	ors	Master's	٠, ﴿	Bachelor's		Total res-	Pet res-	Total res- ponding ponding		Total ras-	Pct res-
			onding	ponding	ponding Total res-	Pct res- ponding	Total res- ponding	Pct res- ponding	Total res- ponding ponding							
	-															
Part G-Electronic services Capacity to place interfibrary loart/doc delvi requests electronicolos					_										•	
Access off compus by others	2772	81.3%	1,737	82.1%	\$	\$6.6%	756	83.5%	613	76.6%	1,035	20.0%	1,360	\$6.5%	1.412	76.9%
occount/ockress Computers not dedicated to fixrary	3,140	28	1,948	23	84	92.2	841	92.9	&	60	1,192	92.2	1.501	95.4	1,639	89.3
locay Comoribe software for portion use	3.170	93.0	1,972	93.2	933	93.5	852	94.1	615	91.8	1,198	42.7	1,512	<u>?</u>	1,668	4.0
Inside the Boory Technology in the Broay to creek	3.100	424	1,972	93.2	305	93.3	\$	94.6	612	91.3	1,194	92.3	1,508	95.9	1,658	90.4
potions with chaodities	3,162	92.8	28.	675	8	93.5	8652	94.1	209	ĝ	1,198	42.7	1,512	<u>8</u>	1,650	90.9
internat resources	3,176	93.2	1,974	93.3	\$	93.7	2	94.4	614	91.6	1,202	93.0	1,518	\$6.5	1.658	4.0%

NOTE: Caution should be exercised when using data at a level of detail where the response rate was less than 70 percent.
NOTE: EOPY = held of End Of Flecal Year
SOURCE: United States Department of Education, National Center for Education Statistics (NCES), integrated Postsecondary Education Data System (IPEDS). "Academic Library Survey, 1996."

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Table A-2.- Number and percent of non-responding academic libraries by state, level and control of Institution: 1996 TREBUSE SERVICE OF THE SERVICE OF TH

	Total					4-yeor institutions	Mullons				34	Less thon 4-yeor	2	Public	E	Private
_	post-	Ş	Total	Total 4-year Institutions		Ĭ	chest lew	Highest level of degree						į]	ā
	granting				8	Doctor's	MG	Moster's	200	Bochelor's	1 0	<u></u>	<u>5</u>	Ş	0	Ē
			Total Total	ţ	Total	Pct	Total	ţ	Total	PC						
betrate with all litera impulsed	197	5.8%	116	5.4%	31	5.8%	86	4.3%	3	6.7%	2	6.3%	8	3.1%	54	8.1%
Adaption Adaption Adaption Adaption Adaption Adaption Adaption Colorodo Convecticut Colorodo		**************************************	-000%-00-440080400-0404400-00 1405-04-840-08408400-0	% doo 400 000 400 400 00 400 00 00 00 00 00 0	0000-0000-00000-0000000000-00000-00000	ರಂದಂಕ್ಷೆರಂದರೆಷ್ಟಿರಂಬೆಂಗಾರಂದರ ್ ರವರ್ಣದಾಗಿರುತ್ತುಗೆರವಾರಗಾರಾಬೇರಾರ	0000½-00-000-000-00000-00000000000000	dado, 2 = 00 = 00 = 00 = 00 = 00 = 00 = 00 =	-0004000000000000000-00-004004-0-0-004001-00-0	\$000 000 000 000 000 000 000 000 000 00	000000004#00000000000000000000000000000	0.0004200004000000000000000000000000000	00004000000000000000000000000000000000	dooogaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa	-000 ⁸ -00-44005440000440-400440й24004047-480	**************************************

SOURCE: United States Department of Education, National Center for Education Statistics (NCES), integrated Postsecondary Education Data System (PEDS), "Academic Llorary Survey. 1996."

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Table A-3.- Total number of academic libraries by state, level, and control of institution: 1996

	Totol		4-yeor institutions	ttikutions				
	post-		HIO	Highest level of degree	2	Less thon	Public	Private
	Gegree- granting Institutions	India 4-year	Doctor's	Moster's	Bochelor's	4-year		
Ubrodes	3,408	2,115	538	908	0.79	1,293	1,573	1.835
Accomo Accomo Accomo Accomo Accomo Accomo Accomo Accomo Colorodo Colorodo Connecticut Connecticut Connecticut Colorodo Connecticut Colorodo Connecticut Colorodo Colo	୫୦±4 ² ୯24०२፯୫ २ ୯፯୫୧୯୩ ୫୪୯୬ 5፯୫୫୧୯୫୦୫ ୧୪୪୪୪ ୪୪୪୪	8~58588~53 <u>\$~</u> 58888828888828888888888888888888888888	ひ−のまがぶめないなはらのなけららっただっているようがいったがはっていますが	4nre8o54=84ma884=5=68848r8450er048a95578esc4	によるも親により1%やする私が改け出すりたらがあてから昔ならし、沙がら見れるので	X-224mm520mm123884585mm135585655mm235865813035	ส ₋ นหรัชธส ₋ ละหรัช - ละหรัช	ช ๑ ๖ ๖ ๖ ธ ธ ธ ธ ธ ธ ธ ธ ธ ธ ธ ธ ธ ธ ธ ธ
Unch Vermont Verprida Wordington West Vrgino Wiscorsh	552 <u>88</u> 255	28.28.28.4°	ลียงครักงละ	ນີ້ ພ <i>ຕ</i> ະລັວສ ະສິດ	g 0.4 ₹ 8 8 8 8 0	6 v s € 8 4 6 8	30.4% 4 .5% 	\$#55\$\$EE

SOURCE: United States Department of Education, National Center for Education Statistics (NCES), Integrated Postescondary Education Data System (IPEDS), "Academic Library Survey, 1996."

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Table A-4.—Full-time-equivalent (FTE) enrollment and Education and General (E&G) expenditures in postsecondary degree-granting institutions having academic libraries, by control of institution and Carnegie Classification: 50 states and District of Columbia, 1990 and 1996

Full-time-ec	uivalent enr	ollment	Education Ex	and General spenditures	(E&G)
Number	Percent distribu- tion	Percent change 1990-96	Amount in (millions	Percent distribu- tion	Percent change 1990-96 in constant dollars
0.074.242	100 0%	6.1%	\$154,855	100.0%	19.6%
			97,107	62.7	15.2
		1	57.748	37.3	29.4
, , ,		1	62,142	40.1	15.9
• •		i 1	40.203	26.0	12.0
		1	•	14.2	25.0
, ,			•	9.9	22.4
* ;		1	•	6.1	14.7
•		i '	5,905	3.8	41.7
		_		17.1	16.8
			,	11.1	11.2
			,	6.0	29.8
	1		•	8.2	25.8
	• -	1	1,714	1.1	18.1
i ,)	1	11.051	7.1	27.0
	1	1		14.7	21.5
	_	1	:	12.9	21.0
1 .		1	•	1.8	34.0
1		1	1	8.4	29.5
1		i	,	4.3	24.6
1 '	•	_	1	4.1	37.6
1	j.	!		1,6	25.8
		Number Percent distributtion 9,974,242 100.0% 7,523,867 75.4 2,450,374 24.6 2,278,757 22.8 1,814,684 18.2 464,073 4.7 985,056 9.9 730,514 7.3 254,542 2.6 2,356,924 23.6 1,742,318 17.5 614,606 6.2 816,795 8.2 179,971 1.8 636,824 6.4 3,001,149 30.1 2,844,689 28.5 156,460 1.6 369,706 3.7 107,376 1.1 262,330 2.6	100.0% 1990-96 1990-	Number	Number Percent distribution Percent change 1990-96 Amnoumt im millions Percent distribution 9,974,242 100.0% 6.1% \$154,855 100.0% 7,523,867 75.4 5.1 97,107 62.7 2,450,374 24.6 9.3 57,748 37.3 2,278,757 22.8 1.1 62,142 40.1 1,814,684 18.2 0.4 40,203 26.0 464,073 4.7 3.9 21,939 14.2 985,056 9.9 2.7 15,284 9.9 730,514 7.3 2.4 9,380 6.1 254,542 2.6 3.5 5,905 3.8 2,356,924 23.6 5.9 26,490 17.1 1,742,318 17.5 4.3 17,241 11.1 614,606 6.2 10.5 9,249 6.0 816,795 8.2 11.7 12,765 8.2 179,971 1.8 9.1 1,714 <td< td=""></td<>

NOTE: FTE enrollment and E&G expenditures are only for those postsecondary degree-granting institutions (3,408) having academic libraries. Calculations of percent change include only those institutions completing the library survey in both 1996 and 1990. FTE enrollment is calculated by taking one-third of part-time enrollment and adding the amount to full-time enrollment. Constant dollars calculated based on consumer price index as published in 1996 US Statistical Abstract, table 745. Details may not sum to totals because of rounding.

SOURCE: United States Department of Education, National Center for Education Statistics (NCES), Integrated Postsecondary Data Systems (IPEDS); "Academic Library Survey, 1990 and 1996," and "Fail Enrollment Survey, 1995" and "Finance Survey 1996."

2000年,1912年,1912年,1912年,1912年,1912年,1912年,1912年,1912年,1912年,1912年,1912年,1913年

Appendix B: Detailed Tables



Table B-1.- Total circulation and inherlibrary loan transactions in academic libraries by control, level, size, and Camegle Classification of Institution: 1996

	Totol	Circulation	tton	interfibrary loans	y loans
Institutional characteristic	number of Boraries	General collection	Reserve collection	Loans provided to other libraries	Loans received from other Boroles
All postsecondary degree-granking institutions	3.408	186,544,558	44,188,834	9,430,907	7.512105
Control					
Public	1,573	128.732,000 57,812,558	28,361,960 15,826.874	6,313,533	4.6 10.326 2.701,77 9
Level 1					
Total 4-year and above Boctor's Marter's Bochelor's Bochelor's Echelor's Bochelor's Class than 4-year	2115 538 538 670 670 1.293	160,516,886 110,358,495 37,736,227 11,403,894 26,027,672	37.317.318 24.097.646 9.717.080 3.502.445 6.871.516	8,756,400 6,129,983 2,006,843 6,19,433 674,507	6,778,747 4,215,172 1,876,581 685,812 733,338
Size (FTE envolment)					
Less thom 1,500 1,500 to 4,999 5,000 or more	1,836 1,011 858	25,282,367 39,165,064 122,097,127	6,312,556 10,442,027 27,434,251	1,195,514 2,173,385 6,062,005	1,155,247 2,065,581 4,301,257
Camegie classification (1994) 1					
Research I and II Doctorol I and II Mosters I and II Boccolausente I and II Associate of Aris Speciated Not costfled	125 110 518 599 1,182 558 316	73,739,116 18,302,979 36,251,740 16,316,603 24,373,778 13,135,083 4,425,239	15,022,962 4,757,429 8,805,739 6,032,066 6,778,084 2,869,920 921,634	3.585.236 1.279.733 1.970.457 900.405 646.204 837.845 150.977	2.112.300 1.166.347 1.06.347 1.06.348 6.9783 6.9783 617.075 186.318

¹ While level and "Camegia classification" are similar, there is not complete overtop in the two classifications. "Level" refers to the highest level of any degree offered by the highest level of degree awarded. The Camegie classification was the "Camegie classification for the Advancement of Teaching and published in A Classification of Institutions of Higher Education. 1994 Edition.
SOURCE: Unless Department of Education. National Center for Education Statistics (NCES), integrated Postsecondary Education (PEDS), "Academic Library Survey, 1996."

Table B-2.- Public service hours per typical week and number of libraries by category of public service hours per typical week in academic libraries by control, level, size, and Camegie Classification of institution: 1996

	Total			2	blic service hours	Public service hours per typical week			
Institutional characteristic	number of libraries	Total	Less than 20	201039	40 to 59	60 to 79	80 to 99	100 to 119	120 or more
All postecondary degree-granking institutions	3,408	138,651	8	22	. 33	1,490	457	315	8
Control Public Private	1.573	119,398	ಬಿ	~8	168	657	385	25.52	48
Total 4-year and above	2.115 638 905 670 1,293	176.108 49,588 75,452 50,947 82,543	20445	224 00 00 00 00 00 00 00 00 00 00 00 00 00	8888	25 25 25 25 br>25 25 25 25 25 25 25 25 25 25 25 2	895 228 470 198 62	≥88824	27 7 28
Size (FTE enrollment) Less than 1,500 1,500 to 4,999 5,000 or more	1.838 1.01.1 588	126,107 81,639 50,905	స్ట్రం	840	394 58 14	867 465 158	285	5 88	288
Comege classification (1994) 1 Research I and II Doctoral I and II Moster's I and II Moster's I and II Associate of Arts Specialized Specialized Not classified	251 0117 868 888 281.1 583.6	13,373 10,665 46,342 51,533 77,403 40,653 18,682	000027.0	0.8823	22 13 86 17	1 89 89 192 192 248 139	- 138888 - 138888	5888v8v	품4건집성수~

• White 'tevel' and 'Comegie classification' are similar, there is not complete overlap in the two classifications. 'Level' and 'Comegie classification' as partial master or master of tracing in addition to highest level of degree owarded. The Comegie classification was always found to the Advancement of Teaching and published in A Classification of institutions of Higher Education, 1994 Edition.
Sound Found to the Comegie Foundation for the Advancement of Teaching and published in A Classification of institutions of Higher Education, 1994 Edition, National Center for Education Statistics (NCES), Integrated Pastsecondary Education Data System (IPEDS), "Academic Library Survey, 1996."

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Table B-3.- Gate count and number of reference fransactions per hypical week, and total information service to groups, in academic libraries by control, level, size, and Camegle Classification of Institution: 1996

	Totol	Gate count	Reference fransactions.	Information service to groups, fiscal year 1996	oups, fiscal year 1996
	iibraries iibraries	per typical week	including comparier sectories per typical week	Total number of presentations	Total number served
All poshecondory degree-granking institutions	3.408	16,455,549	1,870,739	406.778	7,338,240
Control					
PublicPhysical Prince and	1,573	11,206,119 5,249,430	1,314,731 556,008	278.638 125.140	5.487.665 1.850,575
[evel]					
Total 4-year and above Doctor's Moster's Rachelor's Bachelor's Bachelor's Less than 4-year	2115 538 936 970 1.293	12.795.821 7.531.582 3.878.940 1.333.006 3.659.728	1,420,468 890,076 389,343 140,694 450,271	282.034 155.538 91.348 35.118 124.744	4,855,904 2,300,150 1,552,281 1,043,197 2,442,336
Size (FTE enrollment)					
Less than 1,500 1,500 to 4,999 5,000 or more	1,839	2,728,992 4,434,076 9,292,481	322.229 452.165 1,096,345	75.403 116.417 21.4.958	1,137,875 2,518,260 3,682,106
Camegle classification (1994) 1					
Research I and II	25. 50. 50. 50. 50. 50. 50. 50. 50. 50. 5	4.151.669 1,538.598 3,775.454 1823.493	485,419 209,003 394,621 150,910	82.870 35.642 84.227	1,225,543 543,630 1,477,134 1,146,379
Associote of Aris Specialized Not clossified		3,537,713 1,235,017 393,605	438,930 110,974 69,682	121.223 24.933 14.703	2.3%313 342.638 212.703

¹ White 'level' and 'Comegie classification' as similar, there is not complete overlap in the two classification. Level' refers to the highest level of any degree offered by the institution. The 'Comegie classification' is based on cities such as institution mission and research funding in addition to highest level of degree owarded. The Comegie classification was developed by the Comegie Foundation for the Advancement of Teaching and published in A Classification of highlinities of Highest Education, 1994 Edition.
SOURCE: United States Department of Education, National Center for Education Statistics (NCES), integrated Postsecondary Education Data System (PEDS), "Academic Library Survey, 1996."

I

95

Table B-4.- Number of volumes of books, bound serials, and bound government documents held of the end of the year, and number of Example by number of volumes by control, level, size, and Camegie Classification of Institution: 1996

ERIC

	13	Mod some day				Membe	Number of Ilbraries in volume category	n volume ca	hegory			
inditulional characteristic	number of Morales	of year	Less thon 5,000	5,000 to 9,999	10,000 to 19,999	20,000 to 29,999	30,000 to 49,999	50,000 to	100,000 to 249,999	250,000 to 499,999	500,000 to	1,000,000 or more
All postecondary degree-granting institutions	3,406	606,717,207	330	158	213	241	8	\$	747	275	ß	8
Control Public Physic	1,573	469,863,888 336,853,319	43	750	77 136	35.8	297 153	382	182 98	48	106	90 16
Levei¹ Total 4-year and above Doctors Matters Bachelors Less than 4-year	2115 838 906 670 1,293	753,862,302 517,545,197 175,152,602 61,076,696 52,854,906	11.28.88.25.28.88.28.28.28.28.28.28.28.28.28.28.28.	\$ -5485	8-488	និឧងភន	និនខិន្តិនឹ	<u> </u>	673 376 74	23 15 28 28 28 28 28	25 25 C S	95.25 600
\$to (TE enrollment) Less than 1,500 1,500 to 4,999 5,000 or more	838 10.1 888	112,481,064 156,309,326 537,926,817	800		§8-	8.4.	185	282 842 843 843 843 843 843 843 843 843 843 843	207	85. 201	48 €	~ 23
Comege classification (1994) ¹ Research I and if Doctoral I and if Master's I and if Master's I and if Associate of Arts Specialized Mot classified Mot classified	251 110 110 110 110 110 110 110 110 110 1	352.000.127 85.200.834 161.982.226 98.133.980 52.372.106 43.081.619 9,877.315		0000228	దరబనిస్తోడి	28 <u>5</u> 8400	2827	0 0 P 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	- 01 282 282 283 88	-83842-	04427	

White 'level' and 'Camegie classification' are similar, there is not complete overtop in the two classifications. 'Level' refers to the highest level of any degree offered by the institution was few classification and research funding in addition to highest level of degree avaitable. The Camegie classification was developed by the Camegie Foundation for the Advancement of Teaching and published in A Classification of Institutions of Higher Education, 1994 Edition.

SQUIRCE: United States Department of Education, National Center for Education Statistics (NCES), integrated Postsecondary Education Data System (PEDS), "Academic Library Suvey, 1996."

97

Table B-5.- Number of units and linear feet held at the end of the year and rumber of volumes, units, and linear feet added during the year by material collection category, in academic libraries by control, tevel, size, and Camegie Classification of institution: 1995

	77 0	¥	mber held at th	Number held at the end of the year	×		Number	Number added during the year	he year	
Institutional characteristic	number of	Physical units of microforms	Monuscripts and archives in linear feet	Cortographic materials units	Graphic materials units	Books and bound seriots volumes	Physical units of microforms	Manuscripts and archives linear feet	Cortographic materials units	Grophic materials units
All postsecondary degree-granting institutions	3.408	1,015,714,047	4310,700	33,879,852	95.860.437	21,346,078	38.172.966	223,131	658.490	1,961,563
Control Public Physics	1,573	697,747,082	2.491,931	26.388.683	68.396.912 27.463.525	12,758,101	22,755,467	110,782	533,327	1,150,885
tevel 1										
Total 4-year and abave Doctor's Moster's Bachelor's Less than 4-year	2,115 538 905 670 1,293	971,527,449 651,660,202 287,024,715 32,842,532 44,186,598	4.180,961 3.035,392 861,434 283,989 129,739	33.603.085 29.300,258 3.506,648 776.179 276,767	92.376.480 80.656.839 8.792.286 3.027.355 3.483.957	19,371,834 13,057,752 4,631,815 1,680,389 1,974,244	35,940,374 21,231,259 12,523,020 2,186,095 2,232,581	217.637 155.663 44.118 17.735 5.494	647,541 516,402 99,075 32,064 10,949	1,876,702 1,571,261 203,228 102,213 74,861
Size (TTE enioliment)										
Les fron 1,500 1,500 to 4,999 5,000 or more	1.839 1.011 558	80.204.611 215.946.068 719,563,368	653,369 621,653 3,035,673	928,644 2,973,992 29,977,216	7.267.796 8.569.344 80.023.297	3,279,195 4,431,502 13,635,381	4.675.441 10.175.857 23.321.657	42.372 30.687 150.072	41,000 89,245 528,246	208,258 226,864 1,516,441
Camegie classification (1994) 1										
Research Land II Doctorol Land II Mother's Land II Boccalouredfe I and II Associate of Arts Specialized Not clossified	125 110 1182 1182 1182 1182 1182 1182	406,648,031 146,521,773 310,096,857 65,719,356 42,968,771 33,042,218 8,737,041	2214,206 490,468 766,011 415,604 126,068 250,516 42,838	22.062.787 5.306.330 4.325.338 1.437.006 265.096 360.357 76.934	65,177,411 11,467,613 6,184,654 3,225,006 3,602,634 5,740,256 532,733	8.305.698 2657.387 4.212.721 2.559.481 1.911.097 1.296.411	12.024,746 5,193.057 12.390,944 4,430,813 22.18,800 1,418,176 496,419	118,295 20,495 30,305 19,246 4,536 27,474 27,77	360,660 91,903 111,678 47,895 10,084 10,972	988,669 469,271 104,833 84,541 73,647 26,103

¹ While 'level' and 'Carnegle classification' are similar, there is not complete overlap in the hydrest level of any degree offered by the institution. The 'Camegle classification' is based on critisto such as its institution mission and research funding in addition to highest level of degree awarded. The Camegle classification was developed by the Camegle Foundation for the Advancement of Teaching and published in A Chastification of Institutions of Highest Education, 1994 Edition.
SOURCE: Unlied States Department of Education, National Center for Education Statistics (NCES), Integrated Postsecondary Education Data System (PEDS), "Academic Library Survey, 1996."

Table B-6.- Number of unchallcated titles held at the end of the year in academic floraries by material collection category, and by control, level, size, and Camegie Classification of institution: 1996

Institutional characteristic	Total rumber of	Books and	Government documents not also where	Current serial subscriptions	Microforms	Sound recordings 2	Films and Video materials	Computer Free 2
	Economic Services		ciousified					
All postsecondary degree-graning trafficients	3,406	449.178.927	67,313,520	5,706,762	181,203,010	9,206.407	3,915,855	982,508
Control								
Private	1,573	260,124,607	62,459,571	3,103,593 2,605,169	124.466.690 56.736.320	4,907.436 4,298,971	2.581.579 1.334.276	519,713 462,795
level 1								
Total 4-year and above	2115 538 538 670 670	405,179,686 241,833,138 118,172,798 45,118,627 43,999,241	65,590,567 39,358,293 22,485,351 3,746,923 1,722,953	6.216,492 3,623,873 1,203,406 388,348 492,270	177,152,350 97,359,914 72,341,589 7,437,733 4,050,660	8,002,142 4,519,089 2,455,987 1,025,417 1,204,265	2,527,678 1,100,426 1,027,510 398,281 1,368,177	733,435 489,329 153,769 90,296 249,073
Size (FTE enrollment)								
Less than 1,500	983.1 1.011 8338	84,439,736 106,723,032 256,016,159	5.892.851 16.807.021 44.613.648	999,065 1,133,969 3,575,728	21,703,156 53,636,991 105,862,863	2.323.405 2.414.565 4.468.447	1,040,329	322,961 201,349 458,178
Conegle closification (1994) 1								
Research lond II Doctoral and II Maters I and II		140.875.936 53.706.766 106.547,380	16,055,353 12,218,113 28,020,369 6,416,372	2,006,820 996,028 1,075,192 616,846	43,840,348 21,631,811 85,629,311 16,518,713	2,105,663 1,187,958 2,129,444 1,592,736	467,269 246,786 624,733 562,661	% % % % % % % % % % % % % % % % % % %
Poccedurate Lond I. Associate of Arts Speciated Not classified	1,182 1,182 3,653 3,653	43.533.176 29.045.641 6.691,002	1,713,380 2,486,859 393,074	472.045	3,942,836 8,172,619 1,467,373	1,172546 861,878 165,182	1,335,057 324,397 114,760	222.171 126.539 52.618

¹ White 'lavel' and 'Comage clossification' are similar, there is not complete overlap in the two classifications. 'Level' refers to the highest level of any degree offered by the institution. The 'Comage closed on criteria such as institution mission and research funding in addition to highest level of degree awarded. The Comage classification was been appropriately the Comage Foundation for the Advancement of Teaching and published in A Classification of Institutions of Higher Education. 1994 Edition.
² Sound recordings' was previously tabeled 'Audio materials' and 'Computer files' was previously tabeled 'Audio materials' and 'Computer files' was previously tabeled. 'Audio materials' and 'Computer files' was previously tabeled 'Audio materials' and 'Computer files' was previously tabeled 'Audio materials' and 'Computer files' was previously tabeled 'Audio materials' and 'Computer files' was previously tabeled. 'Audio materials' and 'Computer files' was previously tabeled. 'Audio materials' and 'Computer files' was previously tabeled.' Audio materials' and 'Computer' files' and 'Computer' files' and 'Computer' files' and 'Computer' files' files' files' integrated for files' and 'Computer' files' file

101

Table B-7.- Number of unduplicated fitter added during the year by material collection category, and by conind, level, size, and Camegie Classification of Institution: 1996

	Total number of Examps	Books and bound seriols	Government documents not elevatere clossified	Current sariol subscriptions	Meroforms	Sound recordings 2	Firs and video materials	Computer flor 2
Individual augmentation 3.40	3.408	12,332,877	2,744,646	274,118	7,331,345	337,259	420,848	158,275
		7,402,306 4,930,669	1,925,227	121,999	4,614,206	180.944 156.315	266.005 154.843	94.185 64.090
. [PANO]								
Total 4-year and above 5 Doctor's 5 Marker's 6 Bachelor's 6 Less than 4-year 1.2	2115 538 538 905 670 1,293	10,890,843 6,732,673 2,896,372 1,260,757 1,442,034	2,562,597 1,304,045 1,090,485 168,067 182,049	239.869 99.152 118.344 22.373 34.249	7,125.281 5,506.445 3,234,292 384,521 206,084	305.5% 176.0%1 83.0%0 47.220 30.663	301.438 125.070 129.523 46.624 119.410	113.496 67.540 37.104 8.828 44.777
Size (FTE encollment)								
Less than 1,500 1.80 1.80 1.00 1.80 1.00 1.00 1.00 1.	1.839 558	2.224.541 3.025.562 7.082.774	289.498 950.157 1,504.991	67.518 106,038 100,562	1,199,403 2,388,006 3,743,936	87.499 74.058 175.702	134,444 130,470 155,934	75,420 34,324 45,531
Comegle closification (1994) 1								
Research I and II	25 25 25 25 25 25 25 25 25 25 25 25 25 2	3,838,249 1,559,764 2,673,953 1,678,606 1,391,549 1,311,549 299,352	438,426 471,680 971,002 272,245 177,970 984,517	45.173 31.032 65.003 31.644 33.654 9.450	1,498,033 869,345 3,415,313 935,894 204,730 303,016 105,014	64.582 75.639 87.655 64.314 20.51 38.065 7.503	40.989 123.247 112.718 38.728 14.220	16.426 10.239 10.239 16.121 36.400 11.527

White level and 'Comege classification' are similar, there is not complete overlap in the two classifications. Level refers to the highest level of any degree offered by the institution.
 The 'Comege classification' is based on criteria such as institution making in addition to highest level of degree awarded. The Comege classification was developed by the Comege Foundation for the Advancement of Teaching and published in A Classification of institutions of Highest Education. 1994 Edition.
 Sound recordings was previously labeled "Audio materials," and "Computer Res" was previously labeled "Machine reactable materials.
 Sound recordings was previously labeled "Audio materials," and "Computer Res" was previously labeled "Machine reactable materials.
 Sound recordings was previously labeled "Audio materials," and "Computer Res" was previously labeled "Machine reactable materials.
 Sound recordings was previously labeled "Audio materials," and "Computer Res" was previously labeled "Machine reactable materials.

Table 8-8.- Number and percentage of FTE staff in academic libraries by staff category and by control, level, size, and Camegie Classification: 1996

												:.
institutional characteristic	Total	Total FIE	Percent	Librations and other professional	and other elonal	All other pold staff	odd staff	Contributed service staff	service staff	Shudento	Shudent coektonts	
	Rororiae	B 2		끮	Parcent	FIE	Percent	FIE	Percent	FTE	Percent	
All postescondary degree-granking frafficiens	3,408	95.580	100.0%	27,268	38.5%	40,022	41.9%	162	0.3%	27,998	29.3%	
Control Public Photo	1,573 888.1	58.506 37.074	61.2 38.8	18.001 11.207	30.3	25.989 14.083	37.0	78 213	~. �	16.407	3130	
[beed]												
Total 4-year and above Doctors Monter's Bochelor's Less fron 4-year	2.115 858 858 866 865 875 875 875 875 875 875 875 875 875 87	81,56% 63,620 20,402 7,552 13,990	21.3 21.3 21.9 21.9	23.143 14.059 2.196 126	82888 467:58	24.25 24.25 2.35 2.35 2.35 3.35 3.35 3.35 3.35 3	48.88.84 5.25.05.1.	28838E	सन्दर् य	24.239 14.459 2.546 3.759	88888 69869	
Size (FTE enrollment)												
Less from 1,500 1,500 fo 4,999 6,000 or more	88. 110.1 88.	14,891 21,498 59,190	15.6 22.5 61.9	4.747 6.409 16.111	31.9 27.2 27.2	26.566 8.566 8.566	32.9 30.8 6.9	388	Ze-	5,084 16,484 18,461	27.8 27.8 27.8	
Camegie classification (1994)				-								
Research I and II Doctoral and II Moster 31 and II Boccolcusorie I and II Asociate of Arts Specialised Not classified	128 618 818 811. 888 81.	33.400 10.301 10.565 10.556 13.353 2.175	98. 108. 10.11. 10.55. 25.55. 25.55. 25.55. 25.55. 25.55. 25.55. 25.55. 25.55. 25.55. 25.55. 25.55. 25.55. 25.55. 25.55. 25.55. 25.25.	2.134 2.0554 2.0554 2.070 2.070 2.070	9888873 5665573	15.778 2.344 2.341 2.850 2.800 2.800	22888888888888888888888888888888888888	~~3C\$\$8	ರಂಬಸಭನ್ನ	8,480 3,099 6,306 6,306 1,733 7,88	**************************************	

* While 'level' and 'Comegie classification' are simila, there is not complete overlap in the two classifications. 'Level' infest to the highest of any degree offered by the institution mission and research funding in addition to highest level of degree awarded. The Comegie classification was developed by the Canadia foundation for the Advancement of Teaching and published in A Classification of Institutions of Higher Education, 1994 Edition.
SOURCE: United States Department of Education, National Center for Education Statistics (NCSS), Integrated Postsocandary Education Data System (PEDS), "Academic Library Survey, 1996."

103

Table 18-9.- Total operating expenditures and number of libraries by calegory of total operating expenditures, by control, level, size, and Camegie Classification of institution: 1996

ERIC Full Text Provided by ERIC

						1	A Broaden				
Institutional characteristic	Total rumber of Ebrories	Total operating expenditures	Less thon \$20,000	\$20,000	\$50,000	\$100,000	\$200,000 \$0 \$290,999	\$300,000 bo	\$500,000	\$1.000,000 to \$1,999,996	\$2,000,000 or more
All postsacondary degree-granting institutions	3.408	\$4,301,815,368	رد	7	78	ເສ	607	1 <i>15</i> 9	575	88	858
Control Public Photole	1,573	2,629,996,839	~\$	132	25	326	199	270	88	216 163	
Total 4-year and above Doctor's Marter's Bachelor's Less than 4-year	2115 538 638 670 670	3,818,590,349 2,714,421,008 836,218,574 266,939,482 483,216,019	82784	3-548	92 25 25 25 25 25 25 25 25 25 25 25 25 25	888838 8888 8888 8888 8888 8888 8888 8	25.50 25.50	នឹងធិនម	8 4 2 2 8		3 8882
Sta (TE envolment) Less thon 1,500 1,500 to 4,999 6,000 or more	1,639	544,449,931 882,597,057 2,874,705,370	200	₹00	259	£30	8.2 o	240 240 18	28°	 2552	ងនង្គ
Camegie classification (1994) 1 Research and il	125 110 110 110 110 110 110 110 110 110 11	1,780,260,273 494,(021,218 810,463,374 398,732,136 465,249,226 203,334,485 79,764,656	0000878	000-35 Q	ooo=8 88	0045 <u>858</u>	0055888	002E8	1.22.1.22.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	0 2 5 2 5 2 2 2	2882=8°

* Write 'level' and 'Camagle clossfication' are similar, there is not complete overlap in the two classification. Level' rate to the highest level of any degree others by the highlight was the 'Camagle classification is based on cities such as institution mission and research funding in addition to highest level of degree awarded. The Camagle classification was developed by the Camagle Foundation for the Advancement of Teaching and published in A Classification of institutes of Hofrie Education, 1994 Edition.
SOURCE: United States Department of Education, Notional Center for Education Statistics (NCES), integrated Postsecundary Education Data System (IPEDS), "Academic Library Survey, 1996.

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Table B-10.- Library operating expenditures by object of expenditure, and salaries as a percentage of tokal operating expenditures, by control, level, size, and Camegie Classification of institution: 1996

Institutional characteristic	Total number of Roartes	Total coperating expenditures	Solorins and wages	Sciones and wages as a percentage of foldoparating expenditures	information resources total ²	Preservation	All other operating expenditures a
At politecondary degree-granking helitalions manuscrimmus	3,408	\$4,301,815,368	\$2,147,841,900	%6'6#	\$1,499,248,832	\$45,610,394	\$609,114,308
Control							
PACIC memorinamentamentamentament	1,573	2,629,996,839	1,354,781,175	81.5 47.4	891,758,651 607,490,181	25,195,141	357.261,889 251,852,419
Level							
Total 4-year and above	2.115	3.818.599,349	1,833,412,211	46.0	1,394,291,340	36,087,896	644 187,060
Motor's	888	836.213.574 266.939,482 483.216.019	431,734,182 134,356,326 314,429,689	8 .05.5	293,738,685 91,632,253 102,957,492	2.364.899	36,567,016 64,927,248
Side (FTE envolument)							
Less fron 1,500	923, 1,011 833	544,449,931 862,597,067 2,874,768,370	277,957,778 461,964,496 1,407,919,626	: 88	162,298,583 294,486,555 1,022,443,694	4.455,842 6.764,151 34.360,401	79,737,778 119,381,861 409,994,649
Comegé claetication (1994) 1							
Bostoral and #	22.5	1,780,260,273	226,701,746		201,286,057	26,046,353	280,064,805
Bocogloueone Lond #		368,732,136	190349,583	0.0	141,632630	4,043,302	52.786.627
Specialised	555 1	263,334,485	309,401,544 140,349,932 41,047,838	4 60 4	97,456.432 24,643.23	2,663,521	42.854.620 12.854.620
		A Til Company	94,54,54	2	OLDICAL SA		- 1771 m

¹ Whale 'level' and 'Comegie closification' are shrifter, there is not complete overlap in the highest level of any degree offered by the institution. The Comegie closification is based on criteria such as faith-tion mason and respond in addition to highest level of degree owarded. The Comegie closification was developed by the Comegie Foundation for the Advancement of Teoching and published in A Closification of Highest Foundation for the Advancement of Teoching and published in A Closification of Highest Foundation. 1994 Edition.
² "Mormother resources forcification for the Advancement of Teoching and published in the 1992 Academic Libraries ED, Highst Foundation.
³ "Mormother resources forcification and the chegory. Collection equalities forcification (Milliam Engineers Comeging expendituse).
³ "Mormother states and the chegory of the equalities of Collection Statistics (NCES), integrated Postsecondary Education (PEDS), "Academic Library Survey, 1996."
SOURCE: United States Department of Education. Notional Center for Education Statistics (NCES), integrated Postsecondary Education Dolla System (PEDS), "Academic Library Survey, 1996."

Table B-11.- Operating expenditures for information resources, equipment and offer selected categories of expanditures by control, level, size, and Camegie Classification of institution: 1996

haffulland characheidila	Total number of libraries	Information resources rotal ²	Books and bound seriois	Current serial subscriptions	Microforms	Audiovisual materiale	Computer Mes/search services 3	Document delivery/intar- library loon 3	Offiner Information Resources	Funitue and equipment a	Computer hardware and software	Bolographic uffiltes, networks, conortia 3	Other operating expenditures
All postesconday degree-graning freithalons	3.408	\$1,499,248,832 \$472,592,381		\$780.829,819	\$61.577,292	\$28,879,323	\$103.539,310	\$17,644,832	\$34.185.875	\$56,127,578	\$157,948,742	\$85.113.418	\$309,924.570
Control Public	1,573	891,758,651	265,738,952 205,853,429	486,186,639 294,643,180	34,043,603	17,449,508	57,795,046 45,744,264	10.762.704	19,761,939	36.116.065 20011.513	97,151,611	45.116.837 30.996.581	178.677,376
Level 3	_ 												
Total 4-year and above	2.115 538 836 670 1.293	1,3%,291,340 1,010,512,589 293,735,469 91,632,253 102,957,492	428,148,131 291,047,441 99,343,630 37,659,363	754 154 102 681,798,112 135,626,876 36,523,808 26,675,717	53.582.946 30.729.900 17,999.097 4,863.889 7,994.346	20.588.316 10.488.566 7.146,447 2.943,484 8.291,007	91,561,020 69,265,068 24,746,850 7,459,938 11,978,290	16.842,742 12.566.427 3.194.455 1,071,212 602,090	31.414.063 24.617.075 6.685.333 1,110.659 2.771.792	43,570,874 27,917,277 11,894,724 3,742,647 12,656,704	139,495,616 98,500,075 29,253,185 11,611,075 18,463,126	75,532,071 44,429,952 22,694,540 8,388,953 9,581,347	285.588.499 231.053.065 39.654,928 14.824.443 24.336,071
Sto (TE encliment)													
Lass than 1,500 1,500 to 4,999 6,000 or more	928.1 110.1 838	182,298,583 294,486,555 1,022,463,694	64,686,415 104,205,909 303,700,067	77,143,795 130,191,933 673,494,091	9,770,764 17,026,766 34,779,762	6.503,722 8.903,456 13,472,146	17,206,462 26,236,722 60,094,126	2,600,504 3,296,796 11,746,530	4384921 4623.972 26.174.962	9,354,050 14,012,996 32,760,522	23.493.154 33.437,773 101,017,815	15.468.476 23.427.973 46.216.969	31,422,088 48,503,139 229,999,343
Comegie cicedication (1994) ¹											. = -		
Research Land II Doctoral Land II Matter's Land II	25 E	201,291,726 201,286,067 283,220,946	186,026.497 56,917,975 94,440,361	360,527,029 116,395,406 136,369,000	17.464.217 6.967.039 16.664.943	5.370.608 2.438.634 6.256.620	33,909,375 12,879,927 22,819,799	7,854,130 2,460,086 3,098,085	18.019.870 4.226.990 4.594.137	16.817,923 6.472,792 11,763,466	63.347,348 17,719,145 28,916,660	24,420,637 10,290,538 19,782,394	176.478.697 26.989.429 39.719.876
Boccolousedre I and I	989 1.182 888 316	141,632,639 99,617,623 97,464,432 24,943,210	66,002,170 43,132,233 25,641,640 9,231,515	58.762.804 25.956.260 53.686.514 10.144.806	8.164.670 7.830.603 3.317.776 1.158.044	3,967,419 7,813,951 1,956,105 1,076,986	11,329,976 11,491,516 8,786,715 2,320,002	1,482,427 724,486 1,567,628 255,788	1,623,173 2,667,802 2,297,834 756,069	4844.263 9.864.920 3.860.942 3.511.262	14996,960 17,393,616 12,096,879 3,476,134	12,722,974 9,447,083 6,695,080 1,764,512	20,222,430 20,219,699 3,670,866

1 What level and "Camege classification" are similar, there is not complete overloo in the two classifications. *Level and "Camege classification" as similar, there is not camege classification was the highest level of degree awarded. The Camege classification was the highest such that such categories are a published in A Classification of institutions of legister Education. 1994 Edition.

2 Information resources that most classify resembles the collegay "Collection expenditures to 1992 Academic Education. 1994 Edition.

3 Information resources that most classify resembles the collegay. Collection expenditures to 1992 Academic Education of the Telescopies of equipment, but was classified as spaced contact of the collegay. *Academic Libraries and States and States and States and India of India to these categories of expenses included in the survey form except. Scionies and wager and these categories are included in the survey form except. Scionies and wager and these categories are included in the survey form except. Scionies and wager and these categories are included in the survey form except. Scionies and wager and these categories are included in the survey form except. Scionies and wager and these categories are included in Table B-10.

§OURCE: Unled States Department of Education. National Center for Education Statistics (NCES), triasgrated Postscionin Data System (IFEDS). "Academic Library Survey. 1996."

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Table B-12.- Percentage of responding institutions with selected electronic services, by control, level, size, and Cable B-12.- Percentage of respinding institution: 1996

	Election	ic cotalog fhat Inc	Electronic cotalog final includes the library's holdings	idngs		Jactronic Indexes o	Bectronic indexes and reference took	
Institutional characteristic	Access from	s from	Access off compusiby	ompus by	Access from	from	Ag sindupo yo seepoy ,	ompus by
	Within Ilbrary	Bewhere on compus	Primary clientele	Others	Within Borory	Elewhere on compute	Primary clientele	Others
All portecondary degree-granting institutions	70.9%	59.9%	36,83	55.3%	91.2%	E2.5%	43.0%	18.5%
Control						-		
Public Private	8:06 6:09	71.4 49.1	4. 2. 4. 1.	8 85.2	2. 6. 2. 6.	60.1 45.4	20.9 36.3	23.9 13.3
Level 1			•		·			
Total 4-year and above	82.4 92.9 83.3 72.6 75.7	64.7 70.6 70.6 70.6 70.6 70.6	88.88 8.88.44 8.69.44 7.44 7.44 7.44 7.44 7.44 7.44 7.44	65.5 65.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.	92.8 97.6 96.8 98.8 6.8	8.86.12 8.66.12 8.66.13	53.1 75.5 51.0 35.9 25.8	20.6 27.3 20.6 14.5 15.0
Size (FIE enrollment)				-				
Less from 1,500 1,500 to 4,999 5,000 or more	67.2 91.2 88.2	39.1 74.8 92.2	38.0 71.3 92.4	35.8 67.3 88.6	98.5 98.1 6.3 1.6	37.5 60.1 81.7	28.6 47.1 75.5	13.4 20.7 4.02
Comegie charillooiion (1994) 1								
Research I and if Doctoral and if Mater's I and if Recolousethe I and if Associate of Arts Specialised Not classified	100.0 100.0 100.0 77.2 64.0 64.0	97.5 96.1 87.6 89.5 39.0	200 200 200 200 200 200 200 200 200 200	98.3 98.13 99.55 99.55 99.55	100.0 100.0 99.8 97.2 99.9 90.9	97.8 93.1 98.0 99.2 89.8 89.8	96.0 91.1 66.0 47.7 26.1 30.7 80.3	40.2 35.1 22.4 16.9 12.0 13.7

See foolnotes at end of table.

Table 8-12.- Percentage of responding institutions with selected electronic services, by control, level, size, and Camegie Classification of institution: 1996 (continued)

		Electronic full text periodicols	ext periodicals			Bechonic ful text cours reserves	t course reserves	
Institutional characteristic	Acces	ccess from	Access off campus by	ompus by	Access from	from	Access off compusiby	ompus by
	Within Ilbrary	Elecyhere on compus	Primary clientele	Others	Within Ilbrory	Elewhere on compute	Primary clientele	Officers
All pothecondary degree-granking institutions	86.7%	36.1%	31.8%	11.0%	6.3%	** ***	4.5%	1.78
Control Public Bacter	0.98	0.00	38.6 25.3	14.5	2,0 7,0	हुत स् ०. अ	25 AS AS	2.0 1.5
Lovel		}						
Total 4-year and above Doctor's Moster's Bachelor's Less than 4-year	67.0 73.9 66.5 74.2	44.5 602 428 33.0 27.4	989.00 980.00 980.00 980.00	11.5 11.5 7.8 10.1	7.7 13.9 7.8 6.8 0.4	25.2.4.5.5.2.5.2.5.2.5.2.5.2.5.2.5.2.5.2	63 122 8.7 8.1	20 1.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0
Size (FTE envolment) Less thon 1,600	57.8 30.4	25.2	88	6.1 10.3	4.4	.e. 4.	33.2	::3 <u>:</u>
Comegie olosetication (1994)	9. 9. 9.	288.7	99.69	782	14.0	12.9	13.2	₹
Research Land #	7.88.0 7.00 8.00 8.00	8 2 2 2 2 2 2 2 2 2 2 2 2	8.89.48 6.65.48	23.7 23.5 10.2 10.2	5.18 4.60 4.60 6.60	98 50 50 50 50 50 50 50 50 50 50 50 50 50	26.7 0.67 6.44	6,000 6,000 4,000
Associate of Ats Specialised Not closified		223 808 808	20.2 19.0 24.7	10.3 6.8 8.8	222		<u> </u>	<u>*</u> ~ 0

See footnotes at end of table.

Table B-12.- Percentage of responding inditutions with selected electronic services, by control, level, abe, and Camegie Casellication of institution: 1996 (continued)

		Electronic files other than the cardiog	r than the calalog			Internet access	••••••••••••••••••••••••••••••••••••••	
Inditational characteristic	Acce	ccess from	Access off compusity	ompus by	Access from	s from	Access off compusiby	compusity
	Within Ilbrory	Elewhere on compus	Primary clientele	Others	Within library	Elewhere on compus	Primary clentels	Officers
All postsecondary degree-granking institutions	38.1%	23.1%	**	24.0%	80.9%	76.9%	60.4%	23.9
Public Photo	42.8 33.8	323	883	28.2 19.9	86.6 75.6	65.2 69.0	55.8 44.3	28.5 19.6
Total 4-year and above	45.5 6.5.5 8.1.5 8.2.5 8.3.5	36.7 57.8 34.1 21.7	85.5 85.5 82.4 80.4 1.5	31.8 52.2 28.2 17.3 10.7	2608 2608 2608 2608 2608 2608 2608 2608	81.2 88.7 84.1 70.6	609 77.8 60.8 826.1	25.00 25.7.4 7.1.4
Stee (FT enrollment) Less fron 1,500	27.0 41.6 65.4	14.5 9.2.5 1.1.5	13.3 29.4 57.1	26.1.1 26.5.1.1	72.6 87.5 94.1	85.55 22.45 24.12	28.55	15.7 27.6 40.8
Comegie etestification (1994) 1 Research I and if Doctoral and if Moster's land if Baccolausede land is Associate of Arts Speciated Not classified	852.85.88 852.55.75	28 4 25 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	227 228 228 228 231 316 316 317	73.5 72.3 72.3 8.6.7 11.0 13.2 8.8	9852 9852 9853 9866 8866	28.28.28.25.28.20.20.20.20.20.20.20.20.20.20.20.20.20.	939 147 1818 180 180 180 180 180	605 2006 2006 2006 140 140

See footnotes at end of table.

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717

Table 8-12.- Percentage of responding institutions with selected electronic services, by control, level, size, and Cable 8-12.- Percentage of respiration of institution: 1996 (continued)

		Library reference	Dray reference service by e-mail		Capacity to p	ioce interformy to electro	Capacity to piace trienthray loan/document delivery requests electronically	ky requests
Indikulonal characteristic	Access from	s from	Access off compusiby	compus by	Access from	from	Access off compus by	compus by
	Within library	Elewhere on compus	Primary clemiste	Others	Within Rocary	Beynnere on compus	Primary clientele	Others
All postescondary degree—granifing institutions	40.1%	38.8%	36.4%	22.5%	%0 '0 9	31.6%	30.6%	11.5%
Control						-		
Public	40.5 39.7	98.9 98.6	35.5 37.2	24.0	66.1 66.3	27.0 4.0	34.2	14.5
level 1								
Total 4-year and above Doctor's Moster's Bochelor's Less than 4-year	2,74 6,86 6,06 6,73 9,73 9,73 9,73	######################################	0.45.0 0.45.0 0.7.88.1.88	25.55 0.55 0.57 0.55 0.55 0.55 0.55 0.55	25.25.25.25.25.25.25.25.25.25.25.25.25.2	806 87.8 80.1 16.4	40.0 88.0 37.0 27.7 14.9	128 200 11.0 9.2 4.9
Size (FTE enolment)								
1,500 to 4,999	35.2 400 56.2	E 4 2 4.5 6	33.6 3.6 5.83	18.9 21.2 34.8	88.28.88 8.66.66	19.5 35.8 66.3	33.4 4.68	8.7 12.5 17.8
Comegie clossification (1994) 1								
Research Land II Doctoral and II Master 31 and II Baccaloureste Land II Associate of Arts Specialized Not clossified	84.9 200.0 31.0 31.0 31.0 31.0	200 200 200 200 200 200 200 200 200 200 200	88.8 64.7 47.0 18.4 38.9 25.6	67.5 41.1 28.0 28.3 13.5 24.8 17.1	8,88,88,88 8,88,88,88 8,88,88,88 8,88,88	72.5 72.5 72.5 72.5 7.0 7.0 7.0 8.8	76.2 69.0 84.1 36.3 16.5 17.4	23.5 20.4 20.6 20.6 20.6 8.8 8.8

See footnotes of end of toble.

Table 1-12.- Percentage of responding institutions with selected electronic services, by control, level, size, and Camegie Classification of institution: 1996 (continued)

	Electronic document delivery	Computers not dedicated to	Computer software for politon	Technology in the llocary to	instruction by library stoff on
	seenpl/uncoco	raide the library	Ue risce ne latory		
All postsecondary degree-graving helitations	16.5%	83.85	9,509	42.1%	75.4%
Cortiol Public	19.0	62.8	58.0 62.7	23.6 23.6	82.3 69.1
Total 4-year and above Doctor's	00 00 00 00 00 00 00 00 00 00 00 00 00	8 66.2 2 65 8 2 2 2 65 8 3 4 4 5 6	6,500 6,500	% 88 % 4 8 4 4 6 % 4	78.9 89.1 61.1 67.4 69.6
tae (FTE encoliment) Less from 1,500	12.7 17.3 26.4	66.3 57.8 67.7	2 y 8	8.53 8.53 8.03 8.03 8.03 8.03 8.03 8.03 8.03 8.0	65.9 82.5 91.9
Consigle desiglootion (1994) 1 Research and R Doctoral and R Monter's land R Noccorange of Arts Associate of Arts Specialised Not closified	22.2 20.2 20.2 10.6 12.0 12.0	815 202 203 204 204 204 204 204 204 204 204 204 204	65.07.22 65.07.22 65.55	88.5 8.5 8.5 1.5 1.5 7.7 7.7 7.7	8.98.88.88.88.8.8.8.8.8.8.8.8.8.8.8.8.8

White 'level' and 'Camegie classification' are similar, there is not complete avertap in the two classifications. 'Level' refer to the highest level of any degree offered by the institution.

The 'Camegie classification' is based on criteria such as institution mission and respect functing in addition to highest level of degree awarded. The Camegie classification was developed by the Camegie Foundation for the Advancement of Teaching and published in A Classification of highest Education. 1994 Edition.

NOTE: Total number of institutions responding to each question is shown in Table A
NOTE: This is a new table in the 1996 Academic Libraries E.D.:TASS report, reflecting the addition of the Bestimals Services section to the 1996 PEDS Academic Library Survey, 1996.* SOURCE: United States Department of Education National Center for Education Statistics (NCES), integrated Pattecondary Education Data System (IPEDS), "Academic Library Survey, 1996.*

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121

Toble B-13a.- Academic Ibrary circulation per full-time-equivalent (FIE) enrollment, by level and control of institution, United States: 1996

	Total		4-yeor Institutions	Muttons				
	Becondary		£	Highest level of degree	2	Less than	Public	Private
	pronting	Inditutions	Doctor's	Mosters	Bochelors	4-yea		
General circulation per FTE shident [®]				٠				
Lower quarifie	85	5	12.7	6.7	7.0	3.5	5.3	73
Medion	11.6	16.6	21.0	15.4	14.8	6.5	9.2	15.4
Upper quarifie	226	30.0	41.6	24.5	£.	1.3	16.4	30.5
Reserve chautation par FTE ahadent 1								
Lower quarifie	•	1.6	2.5	9,1	ο.	ų	eq	≎:
Medical	26	3.7	4.6	3.5	3.0	1.3	2.2	3.2
Upper queriffe	8	7.7	8.7	6 .3	2	2.9	77	8 .2
fold cleufation per FTE student 1								
Lower quorifle	7.8	12.5	17.5	12.2	8.6	4.6	0,7	7.6
Medicon concernmental control of the	150	21.5	0.86.0	19.2	19.3	V ?	911	19.7
Upper quartile	20.2	38.)	62.A	32.1	37.1	14.2	20.4	40.7

FTE enrollment is colculated by adding one-third of part-time enrollment.
NOTE: Iwenty-five percent of institutions foil into each quartile grouping. All institutions in the lower quartile were of or below the number given in the lottle for the lower quartile not institutions in the upper quartile were discussed as a few or doors the upper quartile number. For example, oil institutions within the lower quartile not 6.8 or fewer general discussions from the format per FTE students are FTE students. But on the following the following the following the following the following formation of Education, National Center for Education Statistics (NCES), integrated Postsecondary Education Data System (PEDS), "Academic Library Bursey, 1992" and Foil Evolunent Survey, 1995."

Table B-13b.- Number of books and bound serials volumes held at the end of the year, and added during the year by academic libraries per full-time-equivalent (FIE) student, by level and control of institution, United States: 1996

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	Total		4-yeor institutions	iffutions				
	post-		H.	Highest level of degree	*	Less thon	Public	Private
	degree- granting Institutions	force 4-year inefflutions	Doctor's	Moster's	Bocheior's	o de		
Volumes held per FTE student 1								
tower quorifie	808	6.98	68.2	562	63.9	71	16.4	8.66
Median	50.2	1.29	111.2	812	676	19.0	31.7	4.19
Upper quorifie	118.8	165.2	208.1	142.2	167.1	31.9	04.2	184.
Volumes added per FTE student?								
lower quartile	ą	1,2	1.8	11	1.0	ιż	ĸű	1.1
Wedon	3.5	23	2.8	6.1	23	-Q	o :	2.3
Upper quotife	3.2	4.4	5.4	3.8	77	1.2	1.8	4.8

FIE enrollment is calculated by adding one-third of part-time enrollment to full-time enrollment.

NOTE: I wenty-five percent of institutions fall into each quarifie grouping. All hatfutfors in the lower quarifie were at or below the number guarifie and 20.8 or fewer volumes held per FIE students in the upper quarifie were at or above the upper quarifie number. For example, all hatfutfors within the lower quarifie had 20.8 or fewer volumes held per FIE students in the upper quarifie were at or above the upper quarifie number. For example, all hatfutfors within the lower quarifie had 20.8 or fewer volumes held per FIE student for Education Statistics (NCES), integrated Postscondary Education Data System (IPEDS), "Academic Library survey, 1994" and "Fall Errollment Survey, 1995."

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Table B-13c.- Tokal academic library staff, except student assistants, per 1,000 tull-time-equivalent (FTE) students, by level and control of institution, United States: 1996

	Total		4-year h	4-year institutions				
	secondary		#	Highest level of degree	2	Less thon	Public	Private
	Granting Frattutions	institutions	Doctor's	Moster's	Bochelor's	100/-W		
Toksi staff per 1,000 FTE students 1								
Lower quoritie	3.6	જ	6.2	4.8	67	2.5	3.0	52
Median	5.8 8	7.5	9.5	6.5	7.8	3.6	43	87
Upper quarifie	6.6	124	16.4	10.6	11.7	5.4	0.6	13.9

¹ FTE enrollment is colculated by adding one-third of part-time enrollment.

NOTE: I wenty-five percent of institutions fall into each quartile grouping. All institutions in the lower quartile were at or below the number given in the table for the lower quartile for statement of adding the table for the lower quartile were at or above the upper quartile number. For example, all institutions within the lower quartile had 3.6 or fewer total state per 1,000. FTE students. South the statement of Education, National Center for Education Statistics (NCES), integrated Postsecondary Education Data System (IPEDS), "Academic Library Survey, 1906" and Total Enrollment Survey, 1905."

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Toble B-13d.- Total operating expenditures for academic libraries, information resources, and serials expenditures per table B-13d.- Total operations (FTE) student, by level and control of Inditution, United States: 1996

	Total		4-year institutions	ithutions				
	poet-		H.	Highest level of degree	•	Less thon	Public	Pitvate-
,	degree- granting helitotions	inditutions	Doctor's	Moster's	Bochelor's			
Total operating expenditures per FTE student 1								
Lower quarifie	\$179.06	\$287.00	\$399.50	\$273.57	\$244.38	\$117.17	\$144.22	\$259.05
Medon	\$310.22	\$420.50	\$606.00	\$366.00	\$381.50	\$170.71	\$220.50	\$417.26
Upper quorille	97183\$	\$702.50	\$1.109.00	\$565.50	\$595.25	\$249.40	\$338.90	\$769.26
Exponditures for information resources per FIE student 1.2								
Lower quaritie	\$42.34	\$85.25	\$142.25	\$81.06	\$64.19	\$21.92	\$30.72	506.44
Medon	2000\$	\$136.57	\$220.75	\$116.40	\$113.65	\$37.25	12.73\$	\$126.25
Upper quaritie	\$178.14	\$249.50	\$391.50	\$202.17	\$199.25	\$42.00	\$109.16	\$252.31
Expenditures for current sectors per FTE student?								
Lower quartile	\$9.27	66'92\$	\$64.38	\$27.78	\$17.14	Z.	\$7.27	\$15.73
Medan	\$27.96	\$21.75	\$115.55	\$46.06	\$35.56	\$6.74	\$15.30	\$40.48
nober qualife	\$49.62	\$107.85	\$190.25	\$78.62	\$64.16	\$15.16	16'97\$	\$89.88

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¹ FIE entolens it is odculoted by adding one-third of part-time envolvment.
² Information assumes most classify reservables the category. Collection expenditures in the 1992 Academic Libraries E.D.-IABS report.
NOTE: I wenty-five percent of eathurions fall into each quartile grouping. All relitutions in the layer quartile were of or obcove the upper quartile prouping. All relitutions in the layer quartile had fortile operating expenditures per FIE intributions in the upper quartile were of or obcove the upper quartile number. For example, all relitutions within the lower quartile had fortil operating expenditures per FIE intention of \$1700 or item.
FIE intention of \$1700 or item.
SQURCE: United States Opportment of Education. National Center for Education Statistics (NCES), integrated Postsecondary Education Data System (PEDS), "Academic Library Survey, 1990" and "Fall Enrollment Survey, 1990" and "Fall Enrollment Survey, 1990" and "Fall Enrollment Survey, 1990".

Table B-13e.- Academic Rotary expenditures as a percentage of Education and General (E&G) expenditures; and expenditures for information resources, current serials, and salates and wages as a percentage of folial library operating expenditures, by level and control of institution, United States: 1996

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	2 to		4-yeor institutions	STRUKONS	***************************************			
	Secondary	Total Awary	£	Highest level of degree	2	Less thon	Public	Private
	granting	Institutions	Doctors	Moster's	Bochelors			
Yold operating expenditures as percentage of EAC expenditures								
Lower quartie	86.	2.2%	2.3%	2.3%	2.0%	1.5%	1.8%	2.0%
Median warming	27%	20%	3.1%	2.9%	2.8%	2.2%	2.5%	2.8%
Upper quartie	3.6%	4.0%	S.	3.9%	4.0%	3.0%	3.2%	4.3%
Expenditures for Information resources as a percentage of fold operating expenditures?								
Lower quartile	21.8%	26.6%	31.4%	¥.%	23.3%	16.9%	20.2%	23.5%
Wedion	29.5%	33.7%	37.0%	33.0%	31.1%	23.1%	27.6%	31.7%
Upper quaritie	37.6%	40.1%	42.3%	\$7.00	36.4%	29.6%	35.3%	30.4%
Expenditure for current seriale as a percentage of total information resources expenditures								
Lower quaritie	21.6%	26.6%	37.3%	38.98	21.7%	17.5%	21.6%	21.5%
Median	33.0%	#9°#	84.0%	30.0%	33.9%	25.0%	32.1%	33.5%
Upper quaritte	48.4%	\$1.30	66.1%	51.3%	45.7%	33.4%	51.7%	47.0%
Satisfies and wages as a percentage of total operating experiations								
Lover quaritie	46.3%	#23	42.1%	46.0%	46.5%	83.5%	40.1%	44.3%
Medion	\$7.36 \$7.30	\$0.0%	40 DX	52.7%	52.5%	62.7%	80.73	\$2.1%
Upper quarifie	66.0%	59.3%	53.0%	60.4%	62.7%	72.1%	67.A%	62.0%

¹ Information recurses' most closely resembles the category 'Collection expenditures' in the 1992 Academic Libraries E.D.-17485 report.
NOTE: I wenty-five percent of testifichas for the lower quartie were of a category of the interpretation of the state of the

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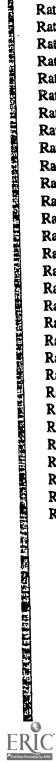
Appendix C: Academic Library Indicators

Indicators for Academic Library Performance: Ratios from the Association of Research Libraries Statistics 1994-95

Taken from the Association of Research Libraries: http://www.arl.org/stats/arlstat/indi96.html, and http://www.arl.org/stats/arlstat/index.html#indicato

- Ratio 1: Professional Staff as a Percentage of Total Staff
- Ratio 2: Support Staff as a Percentage of Total Staff
- Ratio 3: Student Assistants as a Percentage of Total Staff
- Ratio 4: Ratio of Support to Professional Staff
- Ratio 5: Items Loaned over Items Borrowed
- Ratio 6: Serials Expenditures over Materials Expenditures
- Ratio 7: Library Materials Expenditures over Total Expenditures
- Ratio 8: Binding Expenditures over Total Expenditures
- Ratio 9: Salary Expenditures over Total Expenditures
- Ratio 10: Operating Expenditures over Total Expenditures
- Ratio 11: Unit Price of Monographs
- Ratio 12: Unit Price of Serials
- Ratio 13: Items Borrowed per Faculty
- Ratio 14: Total Expenditures per Faculty
- Ratio 15: Volumes Added (Gross) per Faculty
- Ratio 16: Volumes Held per Faculty
- Ratio 17: Paid Serial Subscriptions per Faculty
- Ratio 18: Monographs Purchased per Faculty
- Ratio 19: Number of Faculty per Library Staff Member
- Ratio 20: Expenditures for Library Materials per Faculty
- Ratio 21: Expenditures for Serials per Faculty
- Ratio 22: Items Borrowed per Student
- Ratio 23: Total Expenditures per Student
- Ratio 24: Volumes Added (Gross) per Student
- Ratio 25: Volumes Held per Student
- Ratio 26: Paid Serial Subscriptions per Student
- Ratio 27: Monographs Purchased per Student
- Ratio 28: Number of Students per Library Staff
- Ratio 29: Expenditures for Library Materials per Student
- Ratio 30: Expenditures for Serials per Student

2020年7月25月日,李马士的神经元之。我也是这位的人,我们是是是一种人的人,我们是是一个,我们们是是一个的人的人,他们的一个,我们就是是一个人的人,他们们



Appendix D:

Survey Questionnaire (Including Instructions and Definitions)

ACT TO THE REPORTED TO SECTION OF THE RESIDENCE OF THE PARTY.



OMB No. 1850-0582: Approval Expires 04/30/98

OFFICE OF	RIAMDAT participati the Higher	PORY for all it on in any Fed rEducation A	nstitutions which peral financial assist of 1965, as ame 1004/aV17).	a timely and accurate manner, is serticipate or are applicants for stance program authorized by Title IV o inded. The completion of this survey is	
U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS ACTING AS COLLECTING AGENT FOR THE U.S. DEPARTMENT OF EDUCATION NATIONAL CENTER FOR EDUCATION STATISTICS	For those requirement 103-382, i	institutions n ents, the comp National Educ	ot required to com plation of this surv ation Statistics Ac	plete this survey on the basis of the abey ey is voluntary and authorized by P.L. t of 1994, Sec. 404(a).	HOVE
integrated postsecondar Education data system	· ·				
ACADEMIC LIBRARIES SURVE 1996	¥				
Please read the accompanying instruction before completing this survey form. Repodata ONLY for the institution in the addresses. If data for any other institutions or branch campuses are included in this reposeause they CANNOT be reported separately, please provide a list of these schools.	ss	Please cori	rect any errors in t	he name, address, and ZIP Code.	
if there are any questions about this form, co	tect REV	URN TO			
a Bureau of the Census IPEDS representative (800) 451-6236 or FAX number (301) 457-157:30 a.m.—4:30 p.m. EST.	at		J		
Dato duo: November 15, 1990					
1. Name of respondent	2. Title of respo	ndent		2. Telephone Area code, number, extension	
3. E-Mail address				FAX number	
outher year profitation pass is early president	ropart with on noticetten?	willow implie	nggan an cua dan	Mnonalolly	
1 Has own library as defined in Part A of	the instructions.	Please co	emplete this sur	vey.	
2 Has own library but reports with anoth	ar library — Go t	o Combin e c	i Data sheet, paç	ge 4	
2 Does not have own library but contributing institution(s). A shared library is a facility materials, and (a) is jointly administers operating expenditures have been recefacility is not a determining factor. — Faddress shows above.	d by more than	one education	mal institution,	or (b) whose funds or	
UNITID		Name o	Institution		
4 Does not have own library Please n	turn this blank s	survey to the	address shown	#DOV®	

Changes from the 1994 form for 1996 ACADEMIC LIBRARIES SURVEY

Decoration — Own library question

The question has been expanded to allow for combined or shared library systems.

▶ Part E — Library Sorvices, Fiscal Veer 1996

Data requests for document delivery/interlibrary loans provided to other libraries, as well as those received from other libraries or commercial services, have been expanded to request separate reporting for returnables and non-returnables, as well as the total.

> Part G — Electronic Services

This part was added to identify the availability of electronic services within the library system. The questions require a "yes" or "no" response to the availability of the various services listed.

PEDS-L (6-1-04)

Page 2

PURPOSE OF THE SURVEY

The National Center for Education Statistics (NCES) collects these data periodically to obtain and report a comprehensive picture on the status of collections, transactions, staff, service per typical week, and library operating expenditures in postsecondary institutions. The survey is being conducted in compliance with the Center's mission "to collect, and analyze, and disseminate statistics and other data related to education in the United States . . .", (P.L. 103–382, National Education Statistics Act of 1994, Sec. 404(a)).

USES OF DATA

Collection of these data over time will enable the nation to plan effectively for the development and use of postsecondary education library resources. Congress uses the data to assess the need for revisions of existing legislation concerning libraries and the allocation of Federal funds. Federal agencies need the data to evaluate and administer library programs. State education agencies and college librarians and administrators use the data for regional and national comparisons of library resources to plan for the effective use of funds. Finally, library associations and researchers use the survey results to determine the status of library operations and the profession.

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 1850-0582. The time required to complete this information collection is estimated to vary from 30 minutes to 6.0 hours per response, with an average of 2.5 hours, including the time to review instructions, search existing data resources, gather and maintain the data needed, and complete and review the information collection. If you have any comments concerning the securacy of the time calimata(s) or suggestions for improving this form, please write to: U.S. Department of Education, information Management Team, Washington, DC 20202-4652. If you have any comments or concerns regarding the status of your individual submission of this form, write directly to:

National Contor for Education StatisticalPEDS U.S. Department of Education SSS Novy Jorsey Avenue, NW Washington, DC 20203-6652

The definitions and instructions for compiling IPEDS date have been designed to minimize comparability problems. However, postsecondary education institutions differ widely among themselves. As a result of these differences, comparisons of data provided by individual institutions may be misleading.

DO NOT RETURN INSTRUCTIONS

REMARKS SECTION — Please enter any remarks you may have in this section. By entering any explanations here, you may eliminate the need for telephone contact at a later date.

FORM IPEDS L (6-1-44)

Page 3



FORM WE		MOTICE OF COMBINED D	notice of combined data for more than one institution or branch	mmon or branch		20
OS-L (8-1- 94)		The Institution named on this report is including Libraries Survey data for other institutions/branches. No Yes — Please indicate below, the UNITID (if known), name and—idress of the institutions for which	s Survey data for other institutions/branches.	anches. Frubich data are		
	A CITINO	Included.				·
			Address	City	Strite	ZIP Code
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	The Librari	The Libraries Survey data for this institution are reported by another institution.	by another institution.			
	No C	☐ No ☐ Yes — Please list the UNITID, name, and address of the reporting institution.	e reporting institution.			136
135	ţ	Institution name	Address	City	State	ZIP Code
age 4		-				

BEST COPY AVAILABLE



Pam B — Library Staff, Fall 1996 (Excludo mointenanso and oustodiai staff.)

MOTE: Report data to two decimals.

Line No.	Staff	Number of full-time equivalents
98	Librarians and other professional staff	
@3	All other paid staff (except student assistants)	
6 043	Contributed services staff	
@ \$	Student assistants from all funding sources	
@3	Total (will-lims equivalent staff - (Sum of lines 2 through 5)	

FORM (#EDS-L (6-1-96)

Page 5



Par C — Library Operating Expenditures, Fiscal Year 1006

MOTE: Do not report the same expenditures more than once.

		
Line No.	Category	Amount (Whole dollars only)
	Salaries and wages — Exclude employee fringe benefits.	
07	Librarians and other professional staff	\$
03	All other paid staff (except student assistants)	
© Ø	Student assistants	<u> </u>
10	Information resources Books, serial backfiles, and other print materials — Exclude current serials and all microforms.	
รูง	Current serials — Exclude microforms, audiovisual materials, and machine-readable materials.	
12	Microforms — Include current serials.	
13	Audiovisual materials — <i>Include current serial</i> s.	
10	Computer flies and search services — Include current serials.	
75	Document delivery/Interlibrary loan	
18	Other	
17	Preservation	
98	Furniture and equipment — Exclude computer equipment.	
ବ୍ୟ	Computer hardware and software — include maintenance.	
30	Bibliographic utilities, networks, and consortia	
21	All other operating expenditures	
22	Total operating ougandiause (Sum of lines 7 through 21)	ş

23	Employee fringe banefits (if paid from the library budget)	\$

FORM IPEDS-L (8-1-00)

Held at end of fiscal year (2)

	Par E — Library Services, Fiscal Year 1996	L
Line No.	Category	Number
	Circulation transactions	
48	General collection	
43	Reserve collection	
	Document delivery/interlibrary loans provided to other libraries	
44	Returnable	
45	Non-returnable	
4 3	Toral	
· · · · · · · · · · · · · · · · · · ·	Document delivery/Interlibrary loans received from other libraries or commercial services	
47	Returnable	
48	Non-returnable	
ĄD	Tolo	
	Information service to groups	
80	Number of presentations	

Port F — LIBRARY SERVICES, TYPICAL WEEK, FALL 1998 Line No. Category Number Public service hours in a typical week Gate count in a typical week Reference transactions in a typical week

FORM IPEDS-L (6-1-06)

Number of persons served in presentations

This section requests information about the availability of electronic services in the library and elsawhere on campus and off campus access by your primary clientele, and other users. — Please respond to each item by marking an (X) in the appropriate column.

				Mark	(X) appro	priate c	olumn.		
i	·		Access	from —		Acc	ess off c	ampus b	у —
Line No.	Category		library	Car	here on npus (2)	clie	mary ntole (3)	1	ners 4)
		Yes	No	Yes	No	Yes	No	Yes	No
	Describe iibrary or parant inclituition offer the following corrigor?		 		1		1 1 1		
\$6	An electronic catalog that includes the library's holdings				<u> </u>		 		i
\$ ©	Electronic indexes and reference tools		1				!		
87	Electronic full text periodicals		 		 				1
\$8	Electronic full text course reserves		1		1	-	<u> </u>		1
5 9	Electronic files other than the catalog (e.g., finding aids, Indices, manuscripts) created by library staff		 		 		 		 -
63	Internet access						 	-	-
61	Library reference service by e-mail		<u> </u>			-	 	-	! !
6 2	Capacity to place interlibrary loan/document delivery requests electronically		<u> </u>		<u> </u>	-	1	-	<u> </u>
63	Electronic document delivery by the library to patron's account/address		<u> </u>		<u> </u>	ļ	-	-	1
6 43	Computers not dedicated to library functions for patron use inside the library		1	<u> </u>	<u> </u>	<u> </u>	<u> </u>		
6	Computer software for patron use inside the library (e.g., word processing, spreadsheet, custom applications, etc.)						1	-	1
63	Technology in the library to assist patrons with disabilities (e.g., TDD, specially equipped work stations)		1		 				1
97	instruction by library staff on use of internet resources		1		1 		1		Pa

FORM PEDS-L (8-1-80)

General instructions - L

Please respond to each item on this form in the space provided. If the appropriate answer is zero or none, use "0." If you do not collect data for an item, provide your best estimate. PLEASE DO NOT LEAVE ANY LIMES BLARKS. If a line is left blank, NCES will impute a figure using the average for institutions with similar characteristics. Include data for the main or central library and all branch and independent libraries that were open all or part of fiscal year 1996.

IMSTITUTIONAL IDENTIFICATION

In the space provided on the front page of this report, make any necessary corrections to the preprinted address information. Also, please enter the name, title, area code and telephone number of the person responsible for completing the report.

PERIOD OF REPORT

Report information for the following time periods as specified in each section:

- 1. Floral year 1928 Any 12-month period between Jume 1, 1998 and September 30, 1998 which corresponds to your institution's fiscal year. (For Sections A, C, D, E)
- 2. Typical wook, Fall 1995 A typical week is one that is neither unusually busy nor unusually slow. Avoid vacation periods for key staff or days when unusual events are taking place on the campus or in the library. Choose a week in which the library is open its regular hours. Include any seven consecutive calendar days. (Section F)
- Foll 1998 The period during the fall of 1996 when the survey form is being completed. (Section B - Library Staff)

Pom A — number of public service outlets, fiscal year 1996

Library - An entity that provides all of the following:

- An organized collection of printed or other materials, or a combination thereof;
- 2. A staff trained to provide and interpret such materials as required to meet the informational, cultural, recreational, or educational needs of clientele;
- An established schedule in which services of the staff are available to clientele;
- The physical facilities necessary to support such a collection, staff, and schedule.

This includes libraries that are part of learning resource centers.

Shored library - A facility housing an organized collection of printed, microform, and audiovisual materials, and (a) is jointly administered by more than one education institution, or (b) whose funds or operating expenditures have been received from more than one educational institution. The location of the facility is not a determining factor.

Branch and independent libraries (line 1) — Report the number of branch and independent libraries at your institution that were open all or part of FY 1996. EXCLUDE THE MAIN OR CENTRAL LIBRARY. Branch and independent libraries are defined as auxiliary library service outlets with quarters separate from the central library of an institution which have a basic collection of books and other materials, a regular staffing level, and an established schedule. Branch and independent libraries are administered cather by the central library or, as in the case of some libraries (such as law, medical, etc.), through the administrative structure of other units within the university. Departmental study/reading rooms are not included. Include data for all branch and

independent libraries on the campus. Include libraries on bramen compuses (i.e., located in another community) if those campuses are registered under the same NCES UNITID number as the main campus.

Par B — LIBRARY STAFF, FALL 1998

Fwil-time equivalent (FTE) employees — Report the number of filled or temporarily vacant full-time equivalent (FTE) positions during Fall 1996 paid from funds under library control. To compute full-time equivalents of part-time employees and student assistants, take the TOTAL number of hours worked per week by part-time employees IN EACH CATEGORY and divide it by the number of hours CONSIDERED BY THE REPORTING LIBRARY TO BE A FULL-TIME WORK WEEK (e.g., 60 hours per week of part-time work divided by 40 hours per full-time week equals 1.5 FTE). Data should be reported to two decimal places.

Librarians and other professional staff (line 2) — Report the total FTE of librarians and other professional staff, including administrators. Report staff members doing work that requires professional education (the master's degree or its equivalent) in the theoretical and scientific aspects of librarianship; also, in some libraries, staff performing professional level tasks who, though not librarians, have equivalent education and training in related fields (e.g., archives, computer sciences, business administration, education).

All other paid staff (except student assistants)
(line 3) — Report the total FTE of all other library staff who
are paid annual salaries or hourly wages except students,
who are reported on line 5. Include technical and clerical staff,
but exclude maintenance and custodial staff.

Contributed services staff (line 4) — Report the total FTE for contributed services staff. Contributed services staff are those, such as members of religious orders, whose services are valued by bookkeeping entries rather than by full cash transactions. Do net include volunteers.

Student assistants from all funding sources (line 5) — Report the total FTE of student assistants, employed on an hourly basis whose wages are paid from funds under library control or from a budget other than the library budget, including College Work Study Program. Exclude maintenance and custodial staff.

Votal FTE staff (line 6) — Report the sum of lines 2 through 5.

Part C — Library Operating Expenditures, Fiscal Year 1998

Expenditures (times 7-23) — Report funds expended by the library in fiscal year 1996 (regardless of when received) from its regular budget and from all other sources, e.g., research grants, special projects, gifts and endowments, and fees for services. If items in this section are not paid from the library budget but can be easily identified in other parts of the institution's budget, report them here. Expenditures should be reported for the 12-month period which corresponds to your library's fiscal year between the calendar period June 1, 1995, to September 30, 1996. All expenditures should be reported in whole dollars in the most appropriate category to provide an unduplicated count of expenditures. Exclude expenditures for new buildings and building renovation. DO NOT REPORT ANY EXPENDITURES MORE THAN ONCE.

remove instructions before mailing and retain for your files.

FORM IPEDS-L (6-1-86)

142

Instructions page 1

Part C — Library Operating Expenditures, Fiscal Year 1995 — Continued

Salarios and wages (lines 7-2) — Report expenditures for full-time and part-time salaries and wages before deductions. Exclude employee fringe benefits provided by your institution for all regular library staff which may be reported on line 23. Include salaries and wages from all sources paid to students serving on an hourly basis. Federal funds paid to students in the College Work Study Program should be reported here. Exclude contributed services and maintenance and custodial staff

Books, sorial backfiles, and other print materials (fine 10) — Report expenditures for all materials consisting primarily of words and usually produced by making an impression with ink on paper, included in this category are materials that do not require magnification; books, government documents, braille materials, ephemeral print materials, and the like. Exclude current serial subscriptions and microforms.

Current socials (line 11) — Report expenditures for current subscriptions to serials. These are publications issued in successive parts, usually at regular intervals, and, as a rule, intended to be continued indefinitely. Serials include periodicals, newspapers, annuals (reports, yearbooks, etc.), memoirs, proceedings, and transactions of societies. Exclude expenditures for microforms, audiovisual materials, and machine-readable materials.

Microforms (lime 12) — Report expenditures for all photographic reproductions of textual, tabular, or graphic materials reduced in size so that they can be used only with magnification. Examples of microforms are roll microfilm, microcard, microfiche, and ultrafiche. Include current serials.

Audiovisus materials (line 13) — Report expenditures for all library materials that are displayed by visual projection or magnification or through sound reproduction, or both, including graphic materials, audio materials, motion pictures, video materials, and special visual materials such as three-dimensional materials. Include current serials.

Computer files and search services (line 14) — Report expenditures for materials considered part of the collection, whether purchased or leased, such as CD-ROMs, magnetic tapes, and magnetic disks, that are designed to be processed by a computer or similar machine. Examples are U.S. Census data tapes, locally-mounted databases, electronic journals, and reference tools on CD-ROM, tape, or disk. Include current serials. Include expenditures for online searches of remote databases. Include expenditures for equipment when the cost is inseparably bundled into the price of the information service product. Exclude expenses for library system software and microcomputer software used only by the library staff which are reported on line 19.

Document delivery/Interlibrary lean (line 15) — Report expenditures for document delivery and interlibrary loan services. Include fees paid for photocopies, costs of telefacsimile transmission, royalties and access fees paid to provide document delivery or interlibrary loan. Include fees paid to bibliographic utilities if the portion paid for interlibrary loan can be separately counted. Do not count expenditures related to transactions between the main or central library and any libraries reported in Part A, transactions between libraries reported in Part A, or expenditures for on campus delivery.

Other (line 18) — Report any other collection expenditures not already included on lines 10-15 such as expenditures for cartographic materials and manuscripts.

Preservation (line 17) — Report expenditures for the activities associated with maintaining library and archival materials for use either in their original physical form or in some other usable way. This includes but is not limited to binding and rebinding, materials conservation, deacidification, lamination, and restoration.

Furniture and equipment (line 14) — Report expenditures for all library furniture and equipment purchased during the 1996 fiscal year. Include microform equipment, audiovisual equipment, and related maintenance costs.

Computer hardware and software (line 19) — Report expenditures from the library budget for computer hardware and software used to support library operations, whether purchased or leased, mainframe or microcomputer. Include expenditures for maintenance, include the expenditure for equipment used to run information service products when that expenditure can be separated from the price of the product. Exclude expenditures reported on line 14.

Bibliographic willities, networks, and conserting the 20 — Report expenditures for services provided by national, regional, and local bibliographic utilities, networks, and consortia. Exclude expenditures already reported on lines 14 and 15.

All other operating expanditures (line 21) — Report all other expenditures not already reported on lines 7-20 except employee fringe benefits which are reported on line 23. Exclude expenditures for new buildings and building renovations.

Total (line 22) - Report the sum of lines 7 through 21.

Employee friege benefits (line 23) — If benefits are paid from the library budget, report the amount here.

Part D — LIBRARY COLLECTIONS, FISCAL YEAR 1996

MOTE — Government documents should be included in the count for each format (i.e., lines 24, 25, and 28-41).

Column (1), Total number added during fiscal year— Report the gross number of each category added. Do not subtract the number withdrawn.

Column (2), Total number hold at and of fiscal year — Report the total number of each category held at end of fiscal year. To get this figure, take the total number held at the end of the previous fiscal year, add the number added during the fiscal year just ended and subtract the number withdrawn during that period.

Units (lines 26, 30, 32, 34, 35, 37, 39, 41) — An individual physical item of library material. Examples of units are: a volume (books and serials); a reel, sheet, or card (microforms); a sheet or bound atlas (cartographic materials); a filmstrip, slide, photograph, or print (graphic materials); a disk, cassette, cartridge, or reel (sound recordings, film and video materials); a disk, tape, or cartridge (computer files).

Volumes (line 24) — Report the number of volumes of any printed, mimeographed, or processed work contained in one binding or portfolio, hardbound or paperbound, which has been cataloged, classified, or otherwise made ready for use. Include any government documents that are accessible through the library's catalog regardless of whether or not they are separately shelved. This includes documents for which records are provided by the library or downloaded from other sources into the library catalog.

instructions page 2

Titles (times 25, 27, 28, 21, 28, 33, 40) — Report the number of titles of publications which form a separate bibliographic whole, whether issued in one or several volumes, reels, disks, slides, or parts. The term "publication" applies to printed materials, such as books, periodicals, and government documents, as well as to such formats as microforms, audiovisual materials, and computer files. To determine the number of titles, count each unique bibliographic record in the library's catalog. ROTE — For libraries which have card catalogs, a unique bibliographic record is represented by a shelf list entry. Libraries with electronic catalogs should be careful to distinguish between the BIBLIOGRAPHIC record which describes the title and the ITEM records which describe the individual volumes, parts, reels, disks, etc. associated with the title. Examples: Six copies of the same edition of a title count as one title or bibliographic record; two editions of the same title which have been cataloged or recorded separately count as two bibliographic records; a set of six monographs for which there are six bibliographic records counts as six titles; and two multi-volume sets of the same edition for which one bibliographic record has been made count as one title.

Government decements (times 28 and 27) — Report the number of units and titles of materials in all formats not accessible through the library catalog and not reported elsewhere.

Curront serials (times 20 and 20) — Report the total number of current serials received including those that are paid for and those received without payment. Include government documents issued serially. Exclude microforms, audiovisual materials, and machine- readable materials.

Wileratorems (times 30 and 31) — Report the number of units of microforms and the number of different titles of materials that have been photographically reduced in size for storage, protection and inexpensive publication purposes, and which must be read with the help of enlarging instruments. Examples of microforms are: roll microfilm, microcard, microfiche, and ultrafiche. Include government documents.

Manuscripts and archives (line \$2) — Report the linear feet of shelf space occupied by these materials. Manuscripts are handwritten or typed documents, including carbon copies. Archives are non-current records of an organization or institution preserved because of their continuing value, include government documents.

Cartegraphic materials (line 23) — Report the number of units of materials representing in whole or in part the earth or any celestial body at any scale. These materials include two-and three-dimensional maps and globes, include government documents.

Graphile materials (lime 34) — Report the number of units of materials for viewing without sound. The materials may or may not be projected or magnified. They include art originals, art prints, art reproductions, slides, transparencies, filmstrips, photographs, pictures, postcards, posters, study prints, and the like. Filmstrips that also include sound should be included on this line. Include government documents.

Sound recordings (times 35 and 26) — Report the number of units and titles of materials on which sounds (only) are stored (recorded) and that can be reproduced (played back) mechanically, electronically, or both. These materials include audio cassettes, audio cartridges, audio discs, audio reels, talking books, and other sound recordings, include government documents.

Films and video materials (lines 27 and 35) — Report the number of units and titles of materials on film or video media. Films are produced in a variety of sizes (8, super 8, 16, 35, 55, and 70 mm) and a variety of formats (cartridge, cassette, loop, reel). Video materials include videotapes and laser disks on which pictures and sound are recorded. Include government documents.

Computer files (limes 39 and 40) — Report the number of units and titles of materials such as CD-ROMs, magnetic tapes and magnetic disks, that are designed to be processed by a computer or similar machine. Examples are U.S. Census data tapes, locally-mounted databases, electronic journals, and reference tools on CD-ROM, tape, or floppy disk. Exclude bibliographic records used to manage the collection, library system software, and microcomputer software used only by the library staff. Include current serials. Include government documents. If a CD-ROM subscription for a title is contained on one disc that is updated (i.e., replaced) once a month, count as one unit, not twelve.

Other library makerials (line 41) — Report here the number of units of any materials not already included on lines 24-40. Include government documents.

PLY E - LIBRARY SERVICES, FISCAL YEAR 1996

Circulation transactions (lines 42 and 42) — Report the number of items ient from the general collection on line 42 and from the reserve collection on line 43 for use usually (although not always) outside the library. These activities include initial charges, either manual or electronic, and also renewals, each of which is reported as a circulation transaction.

Reserve collection (line 43) — Those materials that have been removed from the general library collection and set aside in a library so they will be on hand for a certain course of study or activity in process. Usually, the circulation and length of loan of items in a reserve collection are restricted so that these items will be available to many users who have need of them within a limited time period.

Document delivery/interlibrary leans (lines 44-48) — On lines 44, 45, and 46, report the number of filled requests for material provided to other libraries. On lines 47, 48, and 49, report the number of filled requests for material received from other libraries or document delivery services. Do not include transactions between the main or central library and any libraries reported in Part A or transactions between libraries reported in Part A.

Returnables (lines 44 and 47) — Report materials that the supplier/lending library expects to have returned. Examples of returnables include books, dissertations and theses, microfilm reels, sound recordings, and audiovisual material.

Non-returnables (limes 45 and 48) — Report materials that the supplier/lending library does not expect to have returned. Examples of non-returnables include photocopies or facsimiles, fiche-to-fiche copies, print copies from microfilm, electronic full-text documents, and gratis print copies of unpublished reports and/or departmental working papers.

Report the total number of presentations (line 50) and the total number of presentations (line 50) and the total number of persons attending or served by those presentations (line 51). Information services to groups are presentations at which a staff member or person invited by a staff member provides information intended for a number of persons and planned in advance. These services may be either bibliographic instruction or library use presentations, or cultural, recreational, or educational presentations. Presentations both on and off the library premises should be included, as long as they are sponsored by the library. Do not include meetings sponsored by other groups using library meeting rooms.

144

Instructions page 3

FORM IPEDS-L (6-1-94)

General instructions - L — Continued

Poo F — Library Services - Typical Week Fall 1000

Collect data during a typical week in the fall. A typical week is collect data during a typical week in the fall. A typical week is one that is neither unusually busy nor unusually slow. Avoid vacation periods for key staff or days when unusual events are taking place on the campus or in the library. Choose a week in which the library is open its regular hours. Include any seven consecutive calendar days, if waiting for a typical week in Fall 1996 will delay this form places use typical week. week in Fall 1996 will delay this form, please use typical week data from the preceding fiscal year. If you have data for the entire year, divide by the number of weeks that the library

Public corretoo hours in a typical work (line 52) — Report an unduplicated count of public service hours in a typical week for both main library and branches reported in Part A using the following method. If a library is open from 9:00 a.m. to 5:00 p.m. Monday through Friday, it should report 40 hours per week. If several of its branches are also open during those hours, the figure remains 40 hours per week. Should Branch A also be open one evening from 7:00 to 9:00, the total hours during which users can find service becomes 42. If Branch B is open the same hours on the same evening the total remains open the same hours on the same evening, the total remains 42, but if it is open 2 hours on another evening, or from 5:00 to 7:00 on the evening when Branch A is open later, the total becomes 44 hours during which users can find service.

Gate count in a typical week (line 52) - Report the number of persons who physically enter library facilities in a typical week. It is understood that a single person may be counted more than once.

Reference transactions in a typical week (line 54) -Report the total number of reference transactions in a typical week. A reference transaction is an information contact that involves the knowledge, use, recommendation, interpretation,

or instruction in the use of one or more information sources. or instruction in the use of one or more information sources by a member of the library staff. Information sources include printed and non-printed materials, machine-readable databases (including assistance with computer searching) catalogs and other holdings records, and, through communication or referral, other libraries and institutions, and persons both inside and outside the library. Include information and referral services. If a contact includes both reference and directional services, it should be reported as one reference transaction. When a staff member utilizes information gained from a previous use of information sources to answer a question, report as a reference transaction, even if the source is not consulted again during this transaction. Duration should not be an element in determining whether a transaction is a reference transaction.

Do not report directional transactions here. A directional transaction is an information contact which facilitates the use of the library in which the contact occurs and which does NOT involve the knowledge, use, recommendation, interpretation, or instruction in the use of any information sources other than those which describe the library, such as schedules, floor plans, handbooks, and policy statements. Examples of directional transactions include giving instruction in locating, within the library, staff, library users, or physical features, etc., and giving assistance of a nonbibliographic nature with machines.

PAR G - ELECTROMIC SERVICES

This section requests information about the availability of electronic services in the library and elsewhere on campus and off campus access by your primary clientele, and other users. The questions require a "yes" or "no" response to the availability of the various services listed.

GLOSSARY

ACADEMIC LIBRARIES SURVEY - L

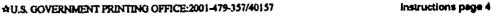
BRANCH INSTITUTION - A campus or site of an educational institution that is not temporary, is located in a community beyond a reasonable commuting distance from its parent institution, and offers organized PROGRAMS of study, not just courses.

COLLEGE WORK-STUDY PROGRAM (CWS) — (Higher Education Act of 1965, as amended, Title IV, Part C; Public Laws 89-329, 92-318, 94-482, et al; 42 USC 2751-2756b.)

Provides part-time employment to eligible postsecondary students to help meet educational expenses. This program provides grants to institutions for partial relmbursement of wages paid to students.

SMARED LIBRARY — A facility housing an organized collection of printed, microform, and audiovisual materials, and (a) is jointly administered by more than one educational institution, or (b) whose funds or operating expenditures have been received from more than one education institution. The together of the facility is not a determining factor. location of the facility is not a determining factor.

UNIVID CODE — Unique Identification number assigned to postsecondary institutions surveyed through the integrated Postsecondary Education Data System (IPEDS).





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