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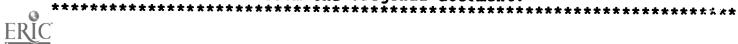
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ABSTRACT

This survey is designed both to update data reported in the survey of library networks and cooperative organizations conducted by the National Center for Education Statistics in 1977-78 and to provide more specific data that will make possible more sophisticated analyses of the status of library networks and cooperative library organizations. Survey data were gathered by means of a questionnaire mailed to 968 library networks and a telephone survey of 122 networks randomly chosen from a sample of the 394 that did not respond to the questionnaire plus an additional 82 networks; a total of 678 valid responses were received. Analyses of the data are reported in discussions of library networks and cooperative library organizations; major network services, activities and resources; staffing patterns of library networks; and funds received and operating expenditures incurred by library networks. Based on these analyses and comparison with the findings of the 1977-78 survey, it was concluded that: (1) library networks in the United States are experiencing healthy growth; (2) library networks are providing more services to more participants for less money in 1985-86 than in 1977-78; (3) federal grants received by library networks in 1985-86 are estimated to be about 9% of all funds received; and (4) library networks are much more self-sustaining in 1985-86 than in 1977-78. The text is supplemented by six tables. Appendices include 17 supporting tables from the 1985-86 survey and 14 from the 1977-78 survey; the questionnaire and instructions from both surveys; errata and addenda to the library networks list; and a statistical analysis of the reliability of the survey results. (KM)



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SURVEY OF LIBRARY NETWORKS AND COOPERATIVE LIBRARY ORGANIZATIONS: 1985-1986

Submitted to:

U.S. Department of Education Office of the Assistant Secretary for Educational Research and Improvement Center for Education Statistics Education Outcomes Division

Submitted by:

Enterprises for New Directions, Inc.

January 1987

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Points of view c* opinions atated in this docu-ment do not necessarily represent official OERI position or policy.

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A group of recognized leaders in the field of library networking was brought together to help determine the direction of the project, and to review and revise the survey plan and the questionnaire. This group included the following (with affiliations at time of involvement):

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Because the initial draft of this report was required to be written in two days. Dr. Jose-Marie Griffiths assisted me in its preparation and wrote approximately one-half of the text. She also provided invaluable insight and worked closely with me in the initial questionnaire design.

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Donald W. King King Research, Inc.



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SECTION 1 INTRODUCTION

1.1 The Importance of Information and Related Statutes

Libraries are an essential component of education institutions and processes in the U.S. They have been able to provide increased services and access to more materials (even though their budgets have been tightened) by resource sharing through library networks and concertive library organizations. Much of this activity has been made possible through Federal policies and funding. The extent and character of library networks and cooperative library organizations have changed dramatically in recent years due to the success of these organizations, the infusion of funding and revenue from new sources, and the extensive employment of new technology. In order to formulate relevant policy, the Department of Education initiated the data collection effort reported herein to gather data about the current status of library networks and cooperative library organizations.

The National Commission on Excellence in Education, in its report A Nation at Risk, sounded an alarm concerning the disturbing deterioration of excellence in education. Since libraries are such an integral component of a learning society, the Department of Education responded in a report, Alliance for Excellence, which points out how libraries can mobilize to address the problems highlighted in A Nation at Risk and help the nation to return again to a position of excellence in education.

Former Secretary Bell indicated the importance of libraries in his introduction to Alliance for Excellence in which he stated, "The challenge before us is of such magnitude, though, that school and family will be a match for it only when they forge a grand alliance with a third institution — the library." The American Library Association also responded to A Nation at Risk in a thoughtful report, Realities: Educational Reform in a Learning Society. This ALA report indicates that resource sharing is one of six essential actions that must be taken. The essential resource sharing action states that "State support for resource sharing must be increased, and additional aid must be provided ... school and academic



libraries to enable them to meet basic service needs and participate effectively in resource sharing." Resource sharing, of course, is the essence of library networks and cooperative library organizations. The ALA report goes on to say, "Federal responsibilities for library statistical data and planning information must be assumed by the National Center for Education Statistics in cooperation with the state library agencies, state departments of education, and national organizations."

Libraries are under extreme economic pressure because, even under tightened budgets, they are required to provide access to more materials, to perform more services, and to provide new facilities and equipment to patrons. Recorded knowledge in the United States doubles about every 15 to 17 years. This means that libraries must handle twice as much accumulated knowledge over each period of about 15 to 17 years. Libraries are also being asked to provide more kinds of information found not only in the traditional materials such as journals and books, but also audiovisual materials, computer stores and recorded information in many other forms. Library users are becoming increasingly information intensive, requiring more services such as online bibliographic searches. Libraries are also being asked to provide access to equipment (e.g., photocopiers, microcomputers, terminals and other kinds of new information technology) and facilities for patron use.

Libraries have coped exceedingly well with the growing demand for more materials, services and other resources within limited budgets, by sharing their resources with other libraries. Such resource sharing largely takes place through library networks and cooperative library organizations. This phenomenon has grown remarkably in the past 10 to 20 years, through grassroot efforts fostered by Federal encouragement and their funding support of State and local initiatives. No institution in our society has been as successful as libraries have in their development and, more importantly, their maintenance of cooperative arrangements.

The driving force behind the development of library networks has been the need to cope with ever-increasing quantities of information resources as well as the increased costs of providing those resources. Computerized library networks have developed as one rechanism by which libraries have been able to more readily identify the holdings and borrow



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from the collections of other libraries, thereby reducing the need for duplication of costly materials and cataloging among members. At the same time, networking has opened up new opportunities and bibliographic control, and provided users with greater access to information resources than they might otherwise have through an individual library. Networks have thus come to support a variety of functions, and to offer a wide range of services and products that are discussed in this report.

Federal support of library cooperation and networking administered by the Department of Education has been based on the following pieces of legislation:

Library Services & Construction Act: Title III, Sec. 302

Higher Education Act of 1965 (as amended):

Title II, Sec. 201; Part A. Sec 211; Part B, Sec. 224, Title II Part A, Sec. 311; part B. Sec. 321; Part D, Sec. 344.

Federal funding has included LSCA Title III (for multi-type library cooperation and networking projects) which over the 17 years of its existence has provided nearly \$80 million to support library networks through projects involving telecommunications, bibliographic access, interlibrary loan, and other resource sharing activities. In FY 1982, Title III funds assisted states in supporting more than 250 cooperative library projects, involving well over 30,000 libraries. Note that LSCA Title I funds available for Public Library Services can be used to support cooperative arrangements among public libraries. Also, HEA, Title II-A recipient institutions are encouraged to use grant funds to pursue eligible networking activities for the purpose of resource sharing. New regulations in HEA, Title II-C also provide for evaluation of applications based on formal, cooperative agreements for resource sharing with other information services.

1.2 Library Networking Trends

A review of both recent and major publications on library networking shows that current trends in networking are towards decentralization and maximum local autonomy. With the current availability of sophisticated multifunction automated library systems which are mini- and



micro-computer-based, total online processing comes within the budget range of most libraries. For small libraries, shared automated systems provide a cost-effective means of gaining automation support for library processing and service functions. As more libraries convert their records into machine-readable form and search them online through public access catalogs, linkages between nearby systems become cost-effective, both in terms of telecommunications costs and document delivery costs and time.

At the national level, there are a number of initiatives towards linking systems. The Council on Library Resources and the Library of Congress have initiated programs, such as the Linked Systems Project, to link and coordinate with OCLC, RLG, WLN, and Library of Congress systems with the Open Systems Interface (OSI). Canada is planning development of a decentralized national library and information network by connecting the online catalogs of provincial and regional libraries to form an online national union catalog.

A number of states have developed or are planning the development of computer-based statewide library networks.

In the near future, the national level bibliographic utilities will continue to play an important role in providing cataloging data and interlibrary loan support, particularly for large research libraries. However, as more statewide library networks are developed, the large bibliographic utilities that exist today may become switching mechanisms, rather than continue as full record databases.

During the last decade, networking has resulted in the most dramatic changes in the relationships among libraries. Yet there has been some degree of conflict between networking proponents and skeptics. Proponents claim that networking:

- maximizes the effective use of library resources;
- offers opportunities to improve response to users' demands and to provide new services;
- may provide improved efficiency in library operations;



- introduces economies of scale to libraries;
- increases communication, idea-sharing and distribution of expertise and experience among libraries;
- encourages library management to apply systems thinking, systems analysis and systems techniques to all library operations;
- may lead to improved management of both library operations and library resources.

Networking skeptics claim that:

- networking may add new administrative levels with no change in those which existed previously;
- networking may not provide greater cost-effectiveness in library operations;
- networking governing bodies may not give adequate consideration to the different needs and requirements that various types of libraries have;
- networking often does not include school libraries, which as a group need the support of other collections to serve the needs of faculty and gifted students, in particular, but which also have significant resources to share (e.g., audiovisual materials; special ethnic collections; career education materials; professional collections; and materials for instruction of the functionally illiterate, learning disabled, and of those with special educational needs);
- there is general lack of agreement on how to measure network effectiveness.

1.3 Rationale for the Current Study

In 1977-78 NCES conducted a survey of library networks and cooperative library organizations in the United States for the first time. A universe of networking organizations was established and each qualifying network and cooperative was surveyed for information about organizational structure, staff, sources of funds received, expenditures, major services and activities, use of computers and other automated support. The questionnaire used in the survey requested much information that was useful in describing and assessing the status of interlibrary cooperation. However, since this was a pioneering survey, the analysis was limited by the lack of comparative data.



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Under the Library Services & Construction Act (LSCA), Title III, Interlibrary Cooperation, from FY 1967 to 1983, a total of \$78,577,000 was appropriated by the Congress to assist the States to plan for, establish and maintain local, regional, state and interstate cooperative networks involving all types of libraries. Data to assess the impact of Title III activities on the development of library networks and cooperative library organizations in the nation were not collected in the administration of these grants.

LSCA, Title I, Public Library Services, has, since FY 1957, provided funds to assist the States in extending and improving library services where there were no services or where services were inadequate. Most of the States used some of these funds to encourage the establishment of larger units of service, i.e., county and multi-county public library systems to achieve these goals. In many States, funds have supported public library participation in multi-type library networks and cooperative activities, thus improving the public's access to wider and richer resources available in all types of libraries. It is not possible to determine the amount of Title I funds that supported such activities. Nor can the impact of these activities on the development of library networks and cooperative organizations be assessed.

While 1977-78 survey did not identify LSCA or HEA (Higher Education Act) as sources of funds, it did find that the Federal government provided \$516,459,154 or 26.66 percent of the funds expended. In FY 1978, the appropriation for LSCA Title III was \$3,337,000 or an estimated six percent of the total Federal grants. In the realm of higher education, the FY78 appropriation for the library network related HEA Title II, Part A, B, and C provided almost 17 million dollars.



The Department of Education has been aware of the rapid growth of library networks and cooperative organizations since the 1977-78 survey and of the vastly increased use of more sophisticated technology by libraries of all types and sizes. However, reliable information on the extent and effectiveness of these events and the kinds of services that are now made available through different forms and patterns of resource sharing is not available. The 1985-86 survey reported here provides such information, not only updating the 1977-78 data but also providing more specific data that makes possible more sophisticated analyses of the status of library networks and cooperative library organizations.

1.4 Summary of Results and Principal Conclusions

Based on surveys results, several conclusions may be drawn from the 1985-86 survey data compared with the 1977-78 survey of library networks and cooperative library organizations. These results and conclusions are as follows:

Number and Growth of Library Networks

- O The number of library networks has grown from 608 in 1977-78 to 760 in 1985-86; an increase of at least 25 percent.*
- o Growth in number of library networks decreased during the period 1980-84 compared with the three previous five year periods. Thus, growth of number of networks may be dampening.
- Number of library participants in library networks has increased from 32,148 in 1977-78 to an estimated 76,280 in 1985-86; an increase of 137 percent. Growth in participation is particularly large for public school libraries and information units (486%), special libraries (136%) and college or university libraries (107%).
- Most college or university and public libraries participate in at least one library network (89% and 83% respectively). They average belonging to about 3.2 networks per library.
- O Growth in number of library networks from 1977-78 to 1985-86 largely involves sub-state or local networks. The number of multi-state networks has decreased.

^{*} Criteria for inclusion in the universe of library networks were more restrictive in the 1985-86 survey, thus there would be more than 760 library networks by the 1977-78 criteria.



Formalities, legal structure and sponsorship of library networks

- o Most library metworks are based on written agreements signed (or authorized) by each member (76%), but only 22 percent have legislative mandate (i.e., created or recognized by Federal, State or local statute) and 14 percent are incorporated.
- o About 14 percent of networks are not formally sponsored (of the 87% responding to this question). Of those sponsored, 57 percent are sponsored by State governments and 11 percent are Federally sponsored.

Provision and Use of Library Network Services

- Network headquarters and members generally provide a different kind of service than external sources. Network headquarters and members are often involved (62-71%) in provision of such services as professional development, collection development, consultation, and referral lists or directories. External sources (e.g., vendors, consultants, etc.) are used to provide (1) services which relate to technical processing (e.g., 221 for catalog production), (2) interlibrary loan (118) and (3) technology-based services (e.g., access to on-line catalogs -98).
- o Use of services suggest that the role of network headquarters is in acting as a focal point for communications (e.g., 309 for electronic mail). Services used most by network members center around (1) improving operations (e.g., staff 449), services (e.g., on-line catalogs 437) and collections (523), and (2) expanding service capabilities through interlibrary loan (486), shared equipment and supplies (474), referral lists and directories (472), and access to online databases (457).

Staffing Patterns of Library Networks

- o Number of paid library network staff members (full-time equivalent or FTE) has increased 93 percent from 1977-78 to 1985-86 (i.e., from 5,100 to 9,845). Average staff per network has also increased substantially (8.4 FTE per network to 13.0 FTE per network).
- o Number of non-paid (volunteer) library network staff members (FTE) has decreased from 768 to 486.
- Number of administrators expressed in full-time equivalents has decreased from 1,046 (paid and non-paid) in 1977-78 to 736 in 1985-86. However, dramatic increases are observed for computer-related professionals (159 to 1,025) and other professionals (109 to 823). The number of FTE librarians has increased 38 percent, while both library technicians or paraprofessionals, and clerical and support staff, more than doubled.



Funds Received and Operating Expenditures Incurred by Library Networks

- o Funds received have increased from \$292 million in 1977-78 (adjusted for inflation) to \$656 million in 1985-86. Some of this increase is attributable to an increase in number of library networks (average funds received per network \$480,000 in 1977-78 and \$863,000 in 1985-86). However, average funds received per library network participant has gone down from \$9,100 per participant in 1977-78 to \$8,600 per participant in 1985-86.
- Operating expenditures have increased from \$227 million in 1977-78 to \$490 million in 1985-86. The average expenditure per network increased from \$373,000 per network to \$642,000 per network. Average operating expenditure per library network participant has gone down from \$7,100 to \$6,400.
- Pass-through funds have increased proportionately even more than funds received and operating expenditures. This increase is largely due to new services such as those provided through new technology. Increases are from \$20 million in 1977-78 to \$334 million in 1985-86. Average pass-through funds per library network are \$32,000 per network and \$440,000 per network respectively. Averages per participant are \$600 per participant and \$4,400 per participant respectively.

Major Conclusions

- O Library networks in the United States are experiencing healthy growth.
- O Library networks are providing more services to more participants for less money in 1985-86 than in 1977-78. Such improved productivity is likely to be attributable to new technology.
- o Federal grants received by the library networks in 1985-86 are estimated to be \$65.5 million; \$85,700 per library network; or \$850 per participant. The dollar amount of these grants comes to nine percent of all funds received.
- O Library networks are much more self-sustaining in 1985-86 than in 1977-78. Currently, 36 percent of funds received come from Federal, State and local grants. This proportion was 71 percent in 1977-78.



SECTION 2

DESCRIPTION OF THE SURVEY

2.1 Introduction

A survey of library networks and cooperative organizations was performed by VSE Corporation for the National Center for Education Statistics from 1977 to 1978*. The survey reported in this document is a second survey performed by King Research, Inc. in 1985 and 1986 in order to update data found in the survey above and to establish trends in library networking. The surveys are similar in many respects, but do differ in some important ways:

- (1) The definitions of library networks and cooperative library organizations differ between the two surveys (see below). The current survey has a more restrictive definition and, therefore, excludes some "networks" that might have been included previously.
- (2) Some definitions of terms and instructions are different, thus some responses may not necessarily reflect the same information and meaning.
- (3) Some questions from the first survey were not included in the second one and the second survey has some questions not asked previously; and some issues are addressed in the second survey in more detail.

The changes in the questionnaire were made from a review of the first survey instrument and instructions and as a result of suggestions made by library consultants and a panel of library network professionals (see Acknowledgements). Many members of the panel had responded to the first survey and expressed their opinions concerning its strengths and weaknesses. Furthermore, some changes in library network operations and technology had taken place during the time between the two surveys. These changes are reflected in the second survey. When data from the two surveys are compared, potential differences due to the survey instruments are discussed.

^{* &}quot;Statistics of Library Networks and Cooperative Organizations: 1977-1978." Helen M. Eckard, National Center for Education Statistics, U.S. Department of Education, Washington, D.C. 20202: NCES 82-201



(4) A 100 percent response rate was reported for the first survey. In the second survey a 59 percent response was achieved using a mailed questionnaire. A random sample was taken from the list of the non-responders and data were collected by telephone (or by mail, if the respondent so desired) for this sample. This sample achieved a response rate of 88 percent. The statistical method used to insure accuracy of the second survey is discussed later in this section.

The 1985-86 survey definitions and methods are briefly described below.

2.2 <u>Definition of Library Networks and Cooperative Library Organiza-</u> tions*

A library network is a cooperative library organization that usually consists of a formal arrangement whereby materials, information, and services provided by a variety of types of libraries and other organizations are made available to all members. Member libraries may be in different jurisdictions but agree to serve one another on the same basis as each serves its own constituents. Computers and telecommunications may be among the tools used for facilitating communication among them. The term "network" was used throughout the survey to designate library networks, cooperative library organizations, library consortia and cooperative library arrangements. For the purposes of this survey, a network must have met ALL of the following criteria:

- 1. The participants in the network are primarily or exclusively libraries.
- 2. The network and/or its participants engage in cooperative activities which are beyond the scope of traditional interlibrary loan services as stated in the American Library Association Code.
- 3. The activities of the organization extend beyond reciprocal borrowing.
- 4. The organization operates for the mutual benefit of participating libraries.



^{*} Throughout the remainder of the report and most tables, these organizations are referred to simply as "library networks."

- 5. The scope of the organization is inter-institutional (i.e., beyond branch libraries within an organization or libraries that are under a common funding source, such as school libraries in a municipality).
- 6. The scope of network activities involves resource sharing (e.g., interlibrary lending, equipment, staff with special skills, collection development, cooperative purchasing, etc.)
- 7. The operation of the network is based on a verbal or written agreement between its members.

The definition of the first survey (1977-78) was essentially the same as that above, except that the sixth and seventh criteria were added for the 1985-86 survey. This resulted in some library networks responding to the 1977-78 survey but declaring themselves ineligible for the 1985-86 survey. The survey instruments and instructions for completing the survey are given for both surveys in Appendix B.

2.3 Survey Methods

Data Collection

A universe of library networks was assembled from several sources including (1) the listing of 608 library networks identified in the 1977-78 survey, (2) a list provided by the American Library Association and (3) through references made by project staff, consultants, advisory panel and others. A total of 968 library networks was identified and served as the initial universe. This list was published as a directory.* During the course of the survey, all 50 State Librarians were sent a list of the library networks appropriate to their state, and they were asked to delete networks no longer in existence and to add new or additional networks not found on the list. A net total of 82 additional networks were identified by the State Librarians and they were added to the list. Thus, a total of 1,050 networks were in the initial sampling frame. A questionnaire was mailed to the 968 networks on the initial mailing list. The 574 responses to this mail-out were post-stratified as "stratum 1." A sample frame was

^{* &}quot;Directory of Library Networks and Cooperative Library Organizations - 1985." Milton Chorvinsky, National Center for Education Statistics, U.S. Department of Education, Washington, D.C. 20202: NCES 85-215.



developed from the 394 non-responses and the additional 82 networks identified by State Librarians. A sample of 122 was randomly chosen from this post-stratified sample frame of 476 networks. This sample frame and responses to it are designated as "stratum 2." This sample of networks was telephoned to achieve responses (nine networks preferred to answer by returning the mailed questionnaire). A total of 14 of the 122 sample in stratum 2 refused to answer. Thus, the response or contact rate (including those who responded as qualified networks, non-qualified networks and duplicates) is 88.5 percent for stratum 2 (108 divided by 122). The survey results for the two strata are displayed below.

	Stratum 1	Stratum 2	Total
Sample frame	574	476	1,050
Sample	574	122	696
Valid responses	570	108	678
Not usable	2	0	2
Refused	2	14	16

A total of 480 respondents stated that they qualified under criteria used for the survey. A total of 398 of these were from stratum 1 and 82 were from stratum 2. A total of seven responses were found to be duplicates (i.e., 4 and 3 from strata 1 and 2, respectively). The proportion of qualified respondents of those who responded to this question was 70 percent in stratum 1 and 78 percent in stratum 2. All responses to the survey are weighted to account for non-valid responses and/or non-sampled networks. The weights used and equations used for estimating totals, means, proportions and their variances are given in Appendix D.

In addition to telephone follow-up as part of the second stratum, a number of telephone calls were made to respondents to obtain data for item non-responses or to clarify responses that appeared to be inconsistent with other data on the questionnaire or that were outliers. For example, several respondents reported revenue and expenditures for their libraries (in which they worked) rather than for the networks they represented. The



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reported revenues and expenditures appeared too high compared to size of network staff and/or number of network members.

Survey Instrument

The survey instrument and detailed instructions are found in Appendix B. The questionnaire consists of five parts as follows:

- 1) Organizational structure of networks This section includes information about network officials, communication systems employed, age of network, legal status of network, sponsorship, type and number of network members, geographic coverage by network, purposes for which network was established, and so on.
- 2) <u>Staff organization</u> This section provides detailed data concerning type of staff (a) paid by network, (b) paid from other sources, and (c) volunteers.
- 3) <u>Funds received</u> Amount of funds received are determined for such sources as dues, assessments from participants, sales of products or services, government or foundation grants, investment income and so on.
- 4) Expenditures Total operating expenditures and pass-through funds are covered in this section.
- detailed data concerning specific activities or services provided by the network (e.g., Circulation circulation control, interlibrary loan, etc.) by (a) whether the service or activity is provided by an external source or contractor, the network headquarters and/or network members, (b) whether the service or activity is used by network headquarters and/or network members, (c) whether the service or activity is not provided, and (d) whether it is planned within two years.
- Resources provided This section deals with special resources (i.e., terminals, central processing units, personnel and special purpose equipment) provided for library services and activities and for administrative functions. The recipients of the resources (i.e., network headquarters, member or other) are also determined.

Results of the study are briefly described in the following sections. Detailed tables for both the 1985-86 and 1977-78 surveys are provided in Appendix λ .



SECTION 3

DESCRIPTION OF LIBRARY NETWORKS AND COOPERATIVE LIBRARY ORGANIZATIONS

3.1 Extent of Participation in Library Networks

The total number of networks identified by the 1985-86 survey is 760 compared with 608 networks in 1977-78.* This represents an increase of at least 25 percent over the eight-year period. It is estimated that 182 (24%) of the 760 library networks became operational since the 1977-73 period. Thus, it would appear that most of the difference between 1977-78 and 1985-86 results from the establishment of new library networks rather than the discontinuance of existing networks.

Library networking is not a new concept since 29 percent of the current library networks began prior to 1970 and eight percent existed prior to 1960. Looking back over five-year periods, the following number of library networks became operational:

Period	Number of New Library Networks
1980-84	103
1975-79	179
1970-74	164
1960-69	160
Prior to 1960	62

The exact growth is not known because some library networks may have discontinued (or started and discontinued) over time. However, it would appear that growth of new library networks might have slowed in recent years.

^{*} The reader is cautioned that the 1985-86 survey used tighter criteria for inclusion. Thus, there may be many more networks that would have been qualified under the previous criteria. Appendix C gives a listing of 201 networks that qualified by the 1977-78 criteria, but did not qualify by the 1985-86 criteria.



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The number of library networks is increasing. However, a more remarkable increase is in number of library network participants. The number of library network participants is estimated to be 76,280 in 1985-86 as compared with 32,148 in 1977-78; an increase of 137 percent. Direct comparisons of number of participating organizations between the two periods are given in Table 1 below.

MARKE AND PROPORTION OF PARTICIPATING ORGANIZATIONS IN LIBRARY NETWORKS, BY TYPE OF PARTICIPATING ORGANIZATION: UNITED STATES, 1977-78 AND 1985-86

	Number of Participants*		Proport: Particip	Change	
Type of Participating Organizations	1977-78	1985-86	1977-78	1985-86	(\$)
College or University	6,999	13,664	22%	18%	95%
Public School	3,395	20,393	11	27	501
Public	. •				
Central	8,191	11,189	25	15	37
Branch	2,778	4,134	9	5	49
Special	8,088	18,600	2 5	24	130
State Library Agencies	405	502	1	1	24
Other**	2,292	7,798	7	10	240
Total .	32,148	76,280	100%	100%	1379

^{*} Numbers of participants in the two periods are determined by two different definitions of networks.

It seems clear that the size and character of networks are increasing substantially (137%). The average number of participants per network has nearly doubled over the eight-year period from 53 in 1977-78 to 100 in 1985-86.

^{**} Data for other types of participating organizations may not be comparable over the two periods.

At one time, library networks involved mostly academic, public and special libraries (particularly medical special libraries because of the efforts of the National Library of Medicine). However, results of the two surveys provide evidence that efforts to expand cooperative library activities (including multi-type library networking) by the Federal government appear to be achieving desired results. Public school libraries, college or university libraries and special libraries (including cooperatives) all are much more active in network participation now than eight years ago.

The number of participants given above includes many libraries that participate in more than one network. It is not possible to establish the number of unique libraries that participate in networks from a survey of the networks. However, these data are available for some types of libraries.* The estimated number of libraries that participate in one or more networks and the average number of networks they participate in are estimated to be as follows:

- O College or university 4,475 total; 89% of all college or university libraries; 3.2 networks per library
- O Public 12,608 total; 83% of all public libraries; 1.3 networks per library
- o Federal 1,131 total; 59% of all Federal libraries; 3.2 networks per library

The total amount of Federal library participation in library networks is 3,630. Thus, the average number of networks per Federal library participant is 3.2. Most of the academic and public libraries belong to library networks. However, academic and Federal libraries belong to more networks on the average (3.2 each) than public libraries (1.3 networks per library). A description of specific types of participating organizations and their average size is given in Table 2.



^{* &}quot;Market Research Study of Library of Congress National Union Catalog: Volumes I, II, III." Donald W. King, et al. Proprietary report submitted to Library of Congress by King Research, Inc. November 1986.

TABLE 2

TOTAL NUMBER OF PARTICIPATING ORGANIZATIONS, AVERAGE NUMBER OF ORGANIZATIONS PER NETWORK (ALL) AND NUMBER OF NETWORKS HAVING VARIOUS TYPES OF LIBRARY MEMBERS, AND AVERAGE NUMBER PER NETWORK HAVING VARIOUS TYPES OF LIBRARY MEMBERS, BY TYPE OF LIBRARY OR INFORMATION UNIT: UNITED STATES, 1985-86

Type of Library or Information Unit	Total Number of Participating Organizations	Number Per All	Number of Networks Having Such a Library in Its Membership	Average Number Per Networks Having Such a Library in Its Membership
College or University				
Total	13,664	18.0	-	-
Central/General	6,205	8.2	402	15.4
Medical	2,112	2.8	170	12.4
Law	1,494	2.0	105	14.2
Religious	1,241	1.6	97	12.8
Art	973	1.3	60	16.2
Music	1,422	1.9	67	21.2
Other	217	0.3	73	3.0
School				
Total	20,393	26.8	-	-
Public	18,152	23.9	257	70.6
Private	2,241	2.9	133	16.8
	e .*			
Public				
Total	15,323	20.2	-	-
Central	11,189	14.7	532	21.0
Branch	4,134	5.4	-	-
Federal				
Total	3,351	4.4	-	-
Federal Libraries/Unit		3.0	108	21.2
Branches	1,060	1.4	11	96.4
	<u> </u>			continued



TABLE 2 (Continued)

TOTAL NUMBER OF PARTICIPATING ORGANIZATIONS, AVERAGE NUMBER OF ORGANIZATIONS PER NETWORK (ALL) AND NUMBER OF NETWORKS HAVING VARIOUS TYPES OF LIBRARY MEMBERS, AND AVERAGE NUMBER PER NETWORK HAVING VARIOUS TYPES OF LIBRARY MEMBERS, BY TYPE OF LIBRARY OR INFORMATION UNIT: UNITED STATES, 1985-86

	Total Number of Participating Organizations	Average Number Per All Networks	Number of Networks Having Such a Library in Its Membership	Average Number Per Networks Having Such a Library in Its Membership
Special		_		
Total Corporate/Business Medical Law Religious Art Music Museum Historical Correction Institution Mental Hospital Other	18,600 2,435 5,347 1,911 766 650 618 877 866 984 2,390 1,756	24.5 3.2 7.0 2.5 1.0 0.9 0.8 1.2 1.1 1.3 3.1 2.3	180 259 110 71 54 31 79 79 89 133 133	13.5 20.6 17.4 10.8 12.0 19.9 11.1 11.0 11.1
State Library Agencies				
Total State Library Agencies State Libraries/Units Branches	1;574 502 378 694	2.1 0.7 0.5 0.9	116 69 26	4.3 5.5 26.7
Network Headquarters (Other	er) 182	0.2	56	3.3
Own Network Headquarters (Not included above)	223	0.3	233	1.0
Other	3,419	4.5	43	79.5

NOTE: "-" means not applicable.



In 1977-78 there were 413 multi-type library networks comprising about two-thirds of all networks. This proportion appears to have decreased by 1985-86, to 407 of 776 (52%). Some difference in definition may occur between the two periods. Referring to tables in the appendices (Table 8A for 1985-86, Table 1A for 1977-78), as one would expect, smaller (in membership) library networks are less likely to be multi-type library networks.

3.2 Geographic Areas Served by Library Networks

The geographic areas served by library networks are given in Table 3 below for 1977-78 and 1985-86.

TABLE 3

NUMBER AND PROPORTION OF LIBRARY NETWORKS THAT SERVE VARIOUS
LEVELS OF GEOGRAPHIC AREAS: UNITED STATES, 1977-78 AND 1985-86

Level of		er of <u>Networks</u> *	Proportion of Library Networks	
Geographic Area Served	1977-78	1985-86	1977-78	1985-86
International	7	9	1.1%	1.28
Nationwide	7	10	1.1	1.4
Multi-state	54	37	. 8.9	4.3
Statewide	103	97	17	13.0
Regional	. .437	-	72	
Sub-state (w/in State)	-	333	-	44.2
Local (w/in county or metropolitan area)	-	268	-	35.4
Other	-	3	-	0.4
Total	608	760	100.1	99.9

^{*} Number of library networks in the two periods is determined by two different definitions of networks.

The principal growth in networks appears to be in networks covering geographic areas that are smaller than statewide. Some multi-state library networks may have become smaller or disappeared.



3.3 Legal Status and Sponsorship of Library Networks

The legal status of library networks is determined by whether network membership is based on a written agreement signed (or authorized) by each member and whether or not it: (1) has legislative mandate, (2) is incorporated, and (3) is for profit or not for profit. It appears that library networks have not become much more formal in the past eight years. In 1977-78 about 80 percent of the library networks were based on written agreement and in 1985-86 this proportion is estimated to be 76 percent. Although over three-fourths of the library networks are based on written agreements, only 22 percent have legislative mandate (i.e., created or recognized by Federal, State or local statute). Fourteen percent (107) of the library networks are incorporated, and only two are for profit corporations. These latter descriptions were not determined in the 1977-78 survey.

Sponsorship of library networks is important, particularly for Federally sponsored networks. Most of the tables in Appendix A present results by sponsorship (i.e., are cross-tabulated) and by a category number of participating organizations (i.e., 2-9, 10-19, 20-29, 30-49 and 50 and over). The number of library networks that are formally sponsored are as follows:

Federally sponsored	Number of Library Networks	Proportion (%)		
Not formally sponsored	110	14		
Not indicated/specified '	100	13		
Federally sponsored	63	8		
State sponsored	314	41		
Local government sponsored	105	14		
Private	33	4		
Other	<u>35</u>	_5		
Total	760	99%		

A majority of library networks (that are known to be formally sponsored) is State sponsored (57%). Eleven percent of these library networks is federally sponsored.



3.4 Purpose(s) of Library Networks

The purposes of library networks and the number of networks that indicate purpose(s) for which the network was established are given below:

- (1) To share member- or headquarters-generated services and/or products - 319 (42%)
- (2) To provide a forum for exchange of ideas among members and provide continuing education for library staff 318 (42%)
- (3) To take advantage of new technology 187 (25%)
- (4) To establish and maintain protocols and standards 183 (24%)
- (5) To consolidate purchasing power 156 (20%)
- (6) To consolidate power or leverage to acquire funds from government, foundations or other agencies 141 (19%)
- (7) To represent network membership in dealing with vendors 104 (14%)

The degree to which these purposes are achieved is indicated by the services provided and activities performed which are described in Section 4.

3.5 Operating Characteristics of Library Networks

Several operating characteristics provided by the survey include: titles of the head of network operations and title and term of office of elected officials; frequency of the network's operations; communications systems used in common by network members or that can be used by non-network members to contact the network; whether or not the network has reciprocal patron access arrangements; and whether or not the network promotes, develops or uses interlibrary loan protocols that govern the routing of requests. These operating characteristics are described below.

Elected officers of library networks are usually given the title of chairperson (36%) or president (32%). Apparently, 29 percent of the networks do not have an elected head. Most elected offices are for one year or less (70%), but the position can be held for as much as four years or



more (7%). About 686 of the library networks have a headquarters or at least someone who is designated the head of the network operation. This person is most often called network director.

An indicator of the permanence of library networks is their frequency of network operations. Many respondents did not indicate frequency of operation, but of those who did, most (78%) indicated they have daily operations (5 to 7 days per week). Most of the remaining respondents (19%) indicated they have periodic operations, such as periodic meetings, workshops, etc. Perhaps surprisingly, the size of the network measured in terms of number of participants has little influence on frequency of operations. For example, 68 percent of networks with 2-9 and 10-19 participants operate daily.

Communication system capabilities of library networks are found to be as follows:

Telecommunication Systems Used By

	Network Members	Non-Network Members			
None ·	397	435			
TELEX	17	12			
Electronic Mail	255	254 .			
WATS	107	-			
Other	117	127			

Electronic mail seems to be the advanced communication system most frequently used for library network members as well as for non-members to contact the network.

A high proportion (75%) of the library networks (that responded to the question) have reciprocal patron access arrangements. All of these networks have reciprocal borrowing for free (90%) or for a fee (10%). Some (12%) require in-house use only. Most library networks (85%) indicate that they promote, develop or use interlibrary loan protocols that govern the routing of requests.



SECTION 4

MAJOR NETWORK SERVICES, ACTIVITIES AND RESOURCES

4.1 Introduction

The major network services, activities and resources are described in this section. In particular, these factors are considered by who provides them and by who uses them. The 1985-86 survey differs from the 1977-78 survey in that a distinction between providers and users of services was not made in 1977-78. Furthermore, the 1977-78 survey did not include nearly as many specific services or activities; partially because many of them were not provided eight years ago or were provided at a minimal level only. In Sections 5 and 6, the size of library networks (in terms of number of staff, and funds received and operating expenditures) is shown to have increased substantially from 1977-78 to 1985-86. Some of the increases are attributable to the extensive services and activities described in this section.

4.2 Network Services and Activities

One of the more noticeable developments of library networks and cooperative organizations is the expanding range of services that is now being provided. The 1977-78 survey identified nine services provided under three basic library functions: acquisitions, cataloging, and reference. The 1985-86 survey identified 29 specific services falling under 13 functional areas. The extent to which this expanding range of services is provided and used is displayed in Table 4 and described below.



NUMBER OF NETWORKS THAT PROVIDE SPECIFIC NETWORK SERVICES OR ACTIVITYES
BY THOSE WHO PROVIDE AND USE THE SERVICE OR ACTIVITY, AND BY SERVICE OR ACTIVITY: UNITED STATES, 1985-86

Service/Activity Provider and User	(Circulation		. Technical Services						
	Circ. Control	Inter- library Loan	uther	Acqui- sitions	Cata- loging	Catalog Prod.	Union List Catalog Prod.	Physical Proc.	Conser/ Preser.	Other
Provided by:								 _		
External Source/Contractor Network Headquarters Network Members	37 227 98	118 206 404	19 176 16	38 254 83	103 278 78	221 113 53	108 300 94	135 147 68	22 209 41	12 172 24
Used by Network:				•				,		
Headquarters . members	71 281	154 486	14 190	89 274	113 307	88 261	116 367	75 259	42 220	14 185

Service/Activity Provider and User	Reference/Info. & Referral Service				Resource Development and Sharing				
	Ref. Lists/ Dir.	Access to Online Catalogs	Access to Online Databases	Other	Collec- tion Devel- opment	Mat. Evan. Center	Equipment and Supplies	Staff	Other
Provided by:									
External Source/Contractor Network Headquarters Network Manbers	48 459 115	98 395 76	86 397 106	15 313 28	21 484 136	13 391 41	26 473 56	16 442 70	12 356 20
Deed by Networks									
Headquarters Manbers	136 473	119 437	114 457	50 289	92 523	45 399	92 474	71 449	24 352

continued



TABLE 4 (Continued)

NUMBER OF NETWORKS THAT PROVIDE SPECIFIC NETWORK SERVICES OR ACTIVITIES BY THOSE WHO PROVIDE AND USE THE SERVICE OR ACTIVITY, AND BY SERVICE OR ACTIVITY: UNITED STATES, 1985-86

		Communication			Professional development					
Service/Activity	Elect. Mail/ Teletype	Tele- Conf.	Tele- Fac- simile	Other	Contin. Educ.	Training/ Wkshops	Prof. Collec.	Other	Deliv. Services	Coop. Purchasing
Provided by:						· -			,	
External Source/Contractor Network Headquarters Network Members	106 309 61	39 224 21	21 240 28	21 230 15	88 535 147	86 564 149	24 509 66	36 90 245	80 378 68	33 305 51
Used by Network:										
Hendquarters Henbers	296 168	40 - 234	217 63	26 230	132 597	410 338	129 516	14 346	128 418	76 325

	Storage/ Ware- housing	Consultation Svcs.				,	Mgmt. Admin. of
		To Network Members	To Others	Record- keeping	Network Dev. Mktg.	Cosputer Info, Systems	Other Services/ Activities
Provided by:							
External Source/Contractor	16	35	14	33	28	41	15
Network Headquaxters	151	509	337	438	394	308	36
Network Members	36	100	25	98	71	36	16
Used by Networks							
Headquarters	36	65	21	169	, 105	79	16
Members	164	538	306	395	378	293	38



Summary of Network Service Provision and Use

Network services can be provided in three different ways: by network headquarters, by network members, or by external sources or contractors. The most common services provided by each of the three types of providers are summarized below:

(1) Network Headquarters

- Training/workshops (provided by 74% of network headquarters)
- Continuing education (70%)
- Camultation to network members (67%)
- Professional collection (67%)
- Collection development (64%)
- Shared equipment and supplies (62%)
- Referral lists/directories (60%)

(2) Network Members

- Interlibrary loan (provided by 53% of network members)
- Unspecified professional development (32%)
- Training/workshops (20%)
- Continuing education (19%)
- Collection development (18%)
- Referral lists/directorics (15%)
- Consultation to network members (13%)
- Circulation control (13%)

(3) External Sources/Contractors

- Catalog production (provided for 29% of networks)
- Physical processing (18%)
- Interlibrary loan (15%)
- Union list/catalog production (14%)
- Electronic mail/teletype (14%)
- Cataloging (14%)
- Access to online catalogs (13%)

These results indicate that network headquarters and members are generally involved in provision of professional development, collection development,



consultation and referral lists/directories; whereas, external sources or consultants are used to provide a very different type of service—mainly relating to technical processing, interlibrary loan and the provision of technology-based services.

Network services can be used by network headquarters and/or by network members. The most common services used by each are summarized below:

(1) Network Headquarters

- o Training/workshops (used by 54% of network headquarters)
- o Electronic mail/teletype (39%)
- O Telefacsimile (29%)
- o Interlibrary loan (20%)
- o Referral lasta/directories (18%)
- o Continuing education (17%)
- o Professional collection (17%)

(2) Network Members

- o Consultation services (used by 71% of network members)
- o Collection development (69%)
- o Professional development (68%)
- o Interlibrary loan (64%)
- o Shared equipment and supplies (62%)
- o Referral lists/directories (62%)
- o Access to on-line databases (60%)

These results demonstrate the role of network headquarters in acting as a focal point for communications. Services most used by network members center around improving operations, services and collections, and expanding service capabilities through interlibrary loan, shared equipment and supplies, referral lists and directories, and access to on-line databases.

Circulation Services and Activities

Circulation services provided by the network headquarters, network members or external contractors to network members or headquarters include some form of circulation control (probably through an automated system), interlibrary loan and other (unspecified) services relating to circulation.



Other services might include the production of overdue notices, the bulk ordering or production of bar-code labels, and so on.

Circulation control services are provided by 30 percent of network headquarters, by network members in 10 percent of networks and by external contractors for five percent of networks. These services are used by approximately ten percent of network headquarters and by 37 percent of network members. This result is not too surprising as circulation control is generally considered a local function. However, over the next few years the adoption of circulation control as a network service is likely to increase, largely as a result of the development of shared automated, integrated library systems supporting multiple functions, including circulation control. In these instances, however, the driving force behind the decision to implement such systems is more likely to be the provision of shared on-line catalogs than circulation control per se.

Interlibrary loan services can be considered as the basic building blocks for library resource sharing and networking. Such services are provided by network members in 54 percent of networks, by headquarters in 27 percent of networks and by external contractors for 16 percent of networks. They are used by network members in 65 percent of networks and by headquarters in 20 percent of networks.

Other circulation-related services are offered by 23 percent of network headquarters and by member libraries and external contractors in two percent of networks each.

Technical Services

Technical services include all services and activities relating to the acquisition, cataloging, catalog production, union list catalog production, physical processing (labelling, stamping, bar-coding, merding, etc.), and conservation and preservation of library materials so that they are available for use by patrons. Several processing centers have been established by library networks and cooperative library organizations to offer one or more of the services listed. In many instances a substantial cost savings can be achieved by sharing such services and facilities.



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Acquisitions services include the selection of materials, ordering and purchasing materials, purchasing supplies and equipment, accounting, and so on. This 1985-86 survey determined that acquisitions services are provided by 33 percent of network headquarters, by network members in 11 percent of networks, and by external contractor in five percent of networks. The services are used by members in 36 percent of networks and by 12 percent of network headquarters. This means that between 36 and 50 percent of networks offer acquisitions services. The 1977-78 survey identified 46 percent of networks as offering such services.

Cataloging services involve the provision of cataloging information for catalog production. Since the late 1960s, shared cataloging has become very popular particularly with the evolution of several major bibliographic utilities (OCIC, RLIN WLN, UTLAS). Recent developments in information technology, such as the optical disk technologies (particularly the Compact Disk-Read Only Memory format) are likely to influence the pattern of use of cataloging services in the future. The anticipated changes relate less to a displacement from use of existing utility and shared cataloging services, but rather the adoption of machine-readable cataloging services by the majority of small libraries, thereby shifting the overall proportions of libraries using the various levels/types of cataloging services.

At present, cataloging services are provided by 37 percent of network headquarters, by external contractors for 14 percent of networks and by ten percent of network members. The services are used by members in 41 percent of networks and by 15 percent of network headquarters. This means that between 41 and 61 percent of networks offer cataloging services. This compares with 34 percent identified in the 1977-78 survey.

Cataloging production services involve the actual production of individual libraries' catalogs. These catalogs can be produced in a variety of formats including cards, paper printouts (not too common these days), microform (both film and fiche), and machine-readable records (on magnetic tape, CD-ROM, or through direct downloading).



Cataloging production services are provided by external contractors for 29 percent of the networks, by 15 percent of network headquarters and by members in seven percent of networks. The services are used by members in 37 percent of networks and by 12 percent of network headquarters. Therefore, such services are offered by between 37 and 52 percent of networks. This compares with the 1977-78 figure of 33 percent.

Union lists and union catalogs are different from the localized catalogs referred to above in that they accumulate the cataloging information for more than one library. They are used to support interlibrary loan, reciprocal borrowing, and collection development. In some instances they can also serve to provide local catalog access for identification of holdings as well.

Union list/catalog services are provided by 39 percent of network headquarters, by external contractors for 14 percent of networks and by numbers in 12 percent of networks. The union list/catalog production services are used by members in 48 percent of networks and by 15 percent of network headquarters. This means that between 49 and 67 percent of networks currently offer some form of union list/catalog production service. In the 1977-78 survey 57 percent of networks offered such services.

Physical processing involves all the marking, labelling and preparation of library materials so that they are ready for use by library patrons. Processing centers will often perform such services on behalf of member libraries; and many publishers and book jobbers now send complete kits with library materials (including catalog card sets, labels, book jackets, etc.).

Physical processing services are provided by 19 percent of network headquarters, by external contractors for 18 percent of networks and by members in nine percent of networks. The services are used by members in 34 percent of networks and by ten percent of network headquarters.

Conservation and preservation of library materials is an area of increasing concern to libraries. New chemical processes for prolonging the life of library print materials have recently been developed. In many



cases the equipment needed is too expensive for individual libraries to acquire. Consequently, services relating to conservation and preservation are ideal candidates for shared equipment and facilities, and for external contracting.

Conservation and preservation services are provided by 27 percent of network headquarters, by members in five percent of networks and by external contractors for three percent of networks. The services are used by members of 29 percent of networks and by six percent of network headquarters.

Other technical processing-related services are provided by 23 percent of network headquarters, by members in three percent of networks and by external contractors for two percent of networks.

Reference/Information and Referral Services

Reference/information and referral services include preparation and verification of bibliographic citations, responding to information requests, accessing computerized databases for reference purposes, accessing catalogs, preparing and using referral lists and directories, preparing bibliographies, and so on.

Services relating to referral lists/directories include the production, distribution and use of lists, files, directories and special-purpose databases for referral of patrons to resources such as special collections, consultants, specialists, equipment, facilities, etc. Such services are provided by 60 percent of network headquarters, by members of 15 percent of networks and by external contractors for six percent of networks. The services are used by members in 62 percent of networks and by 18 percent of network headquarters.

Access to on-line catalogs is provided by 52 percent of network headquarters, by external contractors for 13 percent of networks and by members of 10 percent of networks. The services are used by members of 58 percent of networks and by 16 percent of network headquarters.



Access to on-line databases (both bibliographic and numeric, but excluding library catalogs) is provided by 52 percent of network headquarters, by members of 14 percent of networks and by external contractors for 11 percent of networks. The services are used by members of 60 percent of networks and by 15 percent of network headquarters.

Other reference/information and referral services are provided by 41 percent of network headquarters, by members of four percent of networks and by external contractors for two percent of networks. These services are used by members of 38 percent of networks and by seven percent of network headquarters.

Resource Development and Sharing

Resource development and sharing involves such services as collection development, materials examination centers, the sharing of equipment and supplies, and the sharing of staff for various purposes. While many networks were established for the purposes of collection sharing, they have come to recognize that the resource sharing infrastructure, once in place, can be used to share other resources as well. These additional resources can include equipment (especially expensive equipment for binding, conservation and preservation, and automation), staff (either as specialists/consultants or to fill in for absentees), and facilities (such as meeting rooms, auditoriums, computer rooms, etc.).

Collection development involves those services that relate to or affect the development of library collections of network participants. Such services in the development of selection policies, assessments of user needs, collection evaluation, materials selection, and so on.

Collection development services are provided by 64 percent of network headquarters, by members in 18 percent of networks and by external sources/contractors for three percent of networks. These services are used by members of 69 percent of networks and by 12 percent of network headquarters.



Materials examination center services include the examination of potential acquisitions of books, audiovisual materials (films, slides, sound recordings, video recordings), microfiche and microfilm, and other information/reference materials for possible inclusion in network collections, network member collections or for sharing by network participants.

Materials examination centers are provided by 51 percent of network headquarters, by members of five percent of networks and by external sources/contractors for two percent of networks. Such centers are used by members of 53 percent of networks and by six percent of network headquarters.

The sharing of library equipment and supplies is provided by 62 percent of network headquarters, by members of seven percent of networks and by external sources/contractors for three percent of networks. The service is used by members in 62 percent of networks and by 12 percent of network headquarters.

The sharing of staff by network participants is provided by 59 percent of network headquarters, by members of nine percent of networks and by external sources/contractors for two percent of networks. This service is used by members of 59 percent of networks and by ten percent of network headquarters.

Other services relating to resource development and sharing are provided by 47 percent of network headquarters, by members in three percent of networks and by external sources/contractors for two percent of networks.

Communications Services and Activities

One of the components critical to successful networking and resource sharing is communications. Clearly, sharing and networking can not work without some form of communications. Development in telecommunications and computer-computer communications have enhanced interlibrary communication particularly over long distances. This survey investigated network communication services based specifically on electronic mail/teletype, teleconferencing and telefacsimile technologies.



Electronic mail/teletype services include any electronic message exchange system available to the headquarters operation or network members, as well as any teletype or TWX. Such services are provided by 41 percent of network headquarters, by external sources/contractors for 14 percent of networks and by members in eight percent of networks. Such services are used by 39 percent of network headquarters and by members in 22 percent of networks.

Teleconferencing facilities and services are provided by 30 percent of network headquarters, by external sources/contractors for five percent of networks and by members of three percent of networks. Such services are used by members of 31 percent of networks and by five percent of network headquarters.

The installation and availability of telefacsimile equipment for communications is provided by 32 percent of network headquarters, by members in four percent of networks and my external sources/contractors for three percent of networks. Network telefacsimile equipment or services are used by 29 percent of network headquart, rs and by members in eight percent of networks.

Other communication equipment and/or servces are provided by 31 percent of network headquarters, by extern 1 sources/contractors for three percent of networks and by marbers of 10 percent of networks. They are used by members in 30 percent of 10 words and by three percent of network headquarters.

Professional Development Services and Activities

Professional development services and activities involve the development and production of continuing education programs, training and workshops, the development and availability of professional collections, and so on.



Continuing education programs include programs for network headquarters staff (if any) as well as for the staff of network members. Continuing education programs are provided for 70 percent of network headquarters, by members in 19 percent of networks and by external sources/contractors for 12 percent of networks. Such services are used by members of 79 percent of networks and by 17 percent of network headquarters.

Training/workshops include in-service training as well as training of network member staff. Training services are provided by 74 percent of network headquarters, by members of 20 percent of networks and by external sources/contractors for 11 percent of networks. These services are used by 54 percent of network headquarters and members in 44 percent of networks.

Professional collections for use by the professional staff of the network headquarters and/or network members are provided by 67 percent of network headquarters, by members of nine percent of networks and by external sources/contractors for three percent of networks. They are used by members of 68 percent of networks and by 17 percent of network headquarters.

Other professional development activities are provided by members of 32 percent of networks, by 12 percent of network headquarters and by external sources/contractors for five percent of networks.

Delivery Services and Activities

Delivery services and activities include the regular delivery of materials to network headquarters or network member libraries in support of network activities and all delivery services such as professional courier companies and airline couriers that support network business. Delivery services are purchased cooperatively by members, or by headquarters and members as well as purchased by headquarters alone. Such services are provided by 50 percent of network headquarters, by external sources/contractors for 11 percent of networks and by members in nine percent of networks. These services are used by members in 55 percent of networks and by 17 percent of network headquarters.



Cooperative Purchasing Services and Activities

Cooperative purchasing services and activities involve the bulk purchasing, leasing or renting through written agreements, by the network and its members. Usually discounts are arranged. The cooperative purchasing arrangements can cover books, periodicals, microform, audiovisual materials utilized by the network and its members. They can also cover all shared equipment including projectors, microfiche readers, reproduction and computer equipment, administrative and library supplies, which contribute to network functions and services. Cooperative purchasing services are provided by 40 percent of network headquarters, by members in seven percent of networks and by external sources/contractors for four percent of networks. Such services are used by members of 43 percent of networks and by 10 percent of network headquarters.

Storage/Warehousing Services

Storage and warehousing services include the storage of various types of materials on behalf of network members. This may involve all materials in paper form, microform, or audiovisual form in network members' collections. It may further involve all micro-, mini- and mainframe computer disks and types utilized in network activities. Storage and warehousing services are provided by 20 percent of network headquarters, by members of five percent of networks and by external sources/contractors for two percent of networks. Such services are used by members of 22 percent of networks and by five percent of network headquarters.

Consultation Services and Activities

Consultation services and activities can be provided on a variety of application areas for network members or for external groups - libraries, networks, library systems, government bodies, etc. Consultation services for network members are provided by 67 percent of network headquarters, by members of 13 percent of networks and by external sources/contractors for five percent of networks. These services are used by members of 71 percent of networks and by nine percent of network headquarters.



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Consultation services to non-network members are provided by 45 percent of network headquarters, by members for three percent of networks and by external sources/contractors for two percent of networks. These services are also used by members of 40 percent of networks and by three percent of network headquarters.

Recordkeeping Services and Activities

Recordkeeping services and activities include the maintenance of statistical and financial records, derived from information files on such network activities as circulation, acquisitions, interlibrary loan, etc., that are necessary to support management functions and decision making. Recordkeeping services are provided by 58 percent of network headquarters, by members of 13 percent of networks and by external sources/contractors for four percent of networks. These services are used by members of 52 percent of networks and by 22 percent of network headquarters.

Network Development/Marketing Services and Activities

Network development/marketing services and activities include those relating to the solicitation of new participants, design and development of new services, surveying of participants to determine the efficiency and relevance of network services and products. They also include the design and production of bulletins, newsletters, announcements, etc. to inform network members and to promote network services and products to existing and potential members. The design and implementation of formal programs to perform statistical, research and feasibility studies, and to develop library systems and computerized information systems also fall into this category of service.

Network development/marketing services are provided by 52 percent of network headquarters, by members of nine percent of networks and by external sources/contractors for four percent of networks. They are used by members of 50 percent of networks and by 14 percent of network headquarters.



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Management Services/Administration of Computer Information Systems

Management services and administration of computer information systems, the sale systems includes the maintenance of computer information systems, the sale of access to such systems and the brokering of services between owners of the systems and the libraries purchasing access to them. Such services are provided by 40 percent of network headquarters, by external sources and contractors for five percent of network headquarters and by members of five percent of networks. They are used by members of 39 percent of networks and by 10 percent of network headquarters.

Other Services and Activities

Other services and activities are provided by five percent of network headquarters, by members of two percent of networks and by external sources/contractors for two percent of networks. These other services are used by members of five percent of networks and by two percent of network headquarters.

4.3 <u>Network Resources</u>

Networks require a variety of resources in order to offer the range of services described in the previous subsection. Network resources can include personnel, special purpose equipment and computer equipment (central processor units, terminals, peripherals), as well as funding (described in Section 6). Special purpose equipment include equipment for book binding, printing, reproduction, etc. Terminals include "dumb" terminals as well as those with limited memory. Stand-alone microcomputers as well as networked microcomputers are considered as central processing units along with minicomputers and mainframe computers. Peripherals include other computer hardware such as acoustic couplers, dedicated telephone lines and dataphones, printers, modems, plotters, etc. resources need not necessarily be dedicated exclusively to network business but may be used for network services, activities and administration. The 1985-86 survey gathered data on the extent to which these resources are provided by network headquarters, network members or others. The results are displayed in Table 5.



TABLE 5

NUMBER OF NETWORKS THAT PROVIDE SPECIFIC NETWORK RESOURCES,
BY THOSE WHO PROVIDE THE RESOURCES, BY RESOURCES FOR LIBRARY SERVICES
AND ACTIVITIES AND FOR ADMINISTRATIVE FUNCTIONS: UNITED STATES, 1985-86

		Library Services	Administrative Functions
Resources Pr	rovided by Network Headquarte	rs	
Termin	nals and Peripherals	207	196
Centra	al Processing Unit	132	136
Person	mel	219	209
Specia	al Purpose Equipment	145	136
Resources Pr	rovided by Network Members		
	rovided by Network Members hals and Peripherals	148	71
Termir		148 68	71 4 0
Termir	nals and Peripherals		· -
Termir Centra Person	nals and Peripherals	68	40
Termin Centra Person Specia	nals and Peripherals al Processing Unit omel	68 136	40 73
Termin Centra Person Specia Resources Pr	nals and Peripherals al Processing Unit anel al Purpose Equipment	68 136	40 73 52
Termin Centra Person Specia Resources Pr	nals and Peripherals al Processing Unit anel al Purpose Equipment rowided by Others hals and Peripherals	68 136 76	40 73 52 28
Termin Centra Person Specia Resources Pr	nals and Peripherals al Processing Unit mel al Purpose Equipment rovided by Others hals and Peripherals al Processing Unit	68 136 76	40 73 52

In all instances the major providers of resources are network headquarters. More headquarters provide all types of resources than either network members or others. More network members than, or the same proportion of network members, as others are providers of all types of resources. Resources can be provided for library services and activities and for administrative functions. The provision of network resources can best be summarized by type of provider.



Network Headquarters

For both library services and activities, and administrative functions, more network headquarters than any other resource provide personnel. Twenty-nine percent of them provide staff for library services and activities, and 27 percent provide staff for administrative function. Terminals and peripherals are provided by 27 percent and 26 percent of network headquarters for library services and administrative functions, respectively. The provision of special purpose equipment and central processing units is fairly uniform with 18 or 19 percent of network headquarters doing so for both library services and administrative functions.

Network Members

As might be expected, network members more often provide resources to support library services (at the network level) than to support network administration. Terminals and peripherals are provided by members of 19 percent of networks for library services and by nine percent for administrative functions. Personnel are provided by members of 18 percent of networks for library services and by 10 percent for administrative functions. Special purpose equipment is provided by members of ten percent and seven percent of networks for library services and administrative functions, respectively. Finally, central processing units are provided by members of ten percent of networks for library services and by seven percent for administrative functions.

Other Providers of Network Resources

Other providers of network resources most often provide central processing units for library services and personnel for administrative functions. Central processing units are provided to seven percent of networks for library services (and 5% for administrative functions), and personnel are provided to four percent of networks for administrative functions (and to 10% percent for library services). Terminals and peripherals and special purpose equipment are provided to four or five percent of networks for both library services and administrative functions.



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SECTION 5

STAFFING PAITERNS OF LIBRARY NEIWORKS

5.1 Introduction

The numbers and types of staff that serve library networks are described in this section. The types of staff can be categorized in three ways:

- position such as professional staff (administrators, librarians, etc.), library technicians and paraprofessionals, and clerical and support staff;
- (2) source of payment of the staff, such as paid by the network, paid from other sources or volunteers; and
- (3) whether the staff is full-time or part-time.

The current survey (1985-86) differs from the previous survey in that the second category included only paid staff (i.e., both paid by network and paid from other sources) and non-paid staff (i.e., volunteers). Since some library networks have independent headquarters and operations while others involve staff who are employed (often full time) by a library, the paid staff is subdivided in the 1985-86 survey into those paid by the network and those paid from other sources.

5.2 Number and Type of Library Network Staff

The total number of persons involved in library network employment is given in Table 6 on the next page. The total paid staff includes:

- 1) <u>staff paid by the network</u> 8,737 total full-time equivalent or 7,337 full-time and additional part-time staff whose FTE is 1,400; and
- 2) <u>staff paid from other sources</u> 1,108 total full-time equivalent or 829 full-time and additional part-time staff whose FTE is 279.

these numbers do not include contractors. Thus, even though 12,462 paid people work with library networks, only an estimated 9,845 full-time



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equivalent workers are paid by the networks. This number of workers compares with 5,100 total paid full-time equivalent staff in 1977-78. This represents an increase of 93 percent. The average number of paid (FTE) staff per library network was 8.4 persons per network in 1977-78 and is 13.0 in 1985-86. Size of network staff appears to be more closely related to the network size (in terms of number of members). Number of network participants (i.e., members) per paid (FTE) staff was 6.3 in 1977-78 and is 7.7 in 1985-86. When non-paid and volunteer staff are considered (768 FTE in 1977-78 and 486 in 1985-86), these comparisons are 41.8 network participants per FTE staff in 1977-78 versus 157.0 network participants per FTE staff in 1985-86. Part of the discrepancy in staff size in the two time periods is likely to be attributable to the amount and variety of services provided or activities performed (see Section 4).

The types of employees are compared across the two time periods below:

TABLE 6

NUMBER AND PROPORTION OF STAFF (FULL-TIME EQUIVALENT) BY WHETHER PAID OR NON-PAID, BY TYPE OF STAFF: UNITED STATES, 1977-78 AND 1985-86

	Tota	al Pa: (FT	id Staff E)	Total Non-Paid Staff (FTE)				
	1977-78		1985-86		1977-78		1985-86	
Type of Staff	No.	(8)	No.	(%)	No.	(8)	No.	(%)
Professional								
Administrators	948	و` ،	490	5	98	13	246	51
Librarians	1,153	23	2,269	23	500	65	19	4
Computer-related	159	3	1,024	10	11	2	1	-
Other professionals	109	3	789	8	11	2	34	7
Library Technicians/ Paraprofessionals	600	18	1,436	15	79	10	39	8
Clerical & Support Staff	1,224	44	3,593	36	70	9	145	30
Other	-	-	244	2	. -	-	2	-
Total	5,100*	100	9,845*	99	768	101	486	100

^{*}Full-time equivalents (FIEs) rounded.



The most dramatic difference from 1977-78 is in the number of computerrelated and other professionals. This factor seems to emphasize the extent to which new technology affects library network services and operations. The other principal difference between the two surveys is the reduced number of volunteers.



SECTION 6

FUNOS RECEIVED AND OPERATING EXPENDITURES INCHRED BY LIBRARY NETWORKS

6.1 Introduction

'This section deals with economics of library networks. There are three principal components of network economics: funds received, operating expenditures and pass-through funds. Library networks received funds from a wide range of sources including: dues and fees; assessments from members, for example, to cover costs of special projects; sales of products and services; grants or other monies received from governments, foundations, etc.; investment income; carry-over funds; and so on. Operating expenditures include normal operating expenses such as salaries, space, equipment and so on. A special economic component which is important to library networks is pass-through funds. Many library networks are often conduits for flow of materials or services among members or from external sources to members. As such, they also process and distribute funds to pay for these materials and services. Networks handle basically two types of pass-through funds. The first type involves funds paid from members to others. For example, these funds are paid from members to vendors, bibliographic utilities, etc., that provide members with services. The second type includes funds paid by members to other members. include funds paid by members to other members that pass through the network, but which are not initially paid by the network. This occurs, for example, when one member provides a service or activity (i.e., interlibrary loan, cataloging, etc.) to another member library, but payment is made through the network. These three economic components are compared below from 1977-78 to 1985-86. Then details of current funds received and operating expenditures are presented.

6.2 Funds Received and Operating Expenditures Incurred by Library Networks

All told, the 760 library networks in 1985-86 received funds of \$656 million, or about \$863,000 per network. Total operating expenditures are somewhat less, \$488 million, or \$642,000 per network. The total amount



of pass-through funds comes to \$334 million, or \$440,000 per network. In 1977-78 the amounts are substantially less. However, inflation accounts for some of the differences as does the increased number of networks and size (in membership) of networks. Taking inflation into account (using a 1.61 factor computed from the U.S. Implicit Price Deflator), the equivalent 1977-78 dollar amounts for the three economic components are as follows:

	<u> 1977-78</u>	<u> 1985-86</u>
Funds Received	\$292 million	\$656 million
Operating Expunditures	\$227 million	\$490 million
Pass-Through Funds	\$ 20 million	\$334 million

The ratio of operating expenditures to funds received is quite similar between the two time periods (1.29 vs. 1.36). The principal difference between years among the three components involves pass-through funds, which are (relatively) substantially greater in 1985-86 than in 1977-78. Part of this difference reflects automation which is shared by members or that is used from a vendor, or bibliographic utility. Payments for these services are often made as pass-through funds. The average dollar amounts per library network are:

	<u> 1977–78</u>	<u> 1985-86</u>
Funds Received	\$480,000 per network	\$863,000 per network
Operating Expenditures	\$373,000 per network	\$642,000 per network
Pass-Through Funds	\$ 32,000 per network	\$440,000 per network

Since the 1985-86 amounts reflect an increase in number of members served (as well as amount of services) the average dollar amounts per network participant are computed as:

	<u> 1977-78</u>	<u>1985-86</u>
Funds Received	\$9,100 per participant	\$8,600 per participant
Operating Expenditures	\$7,100 per participant	\$6,400 per participant
Pass-Through Funds	\$ 600 per participant	\$4,400 per participant



Not including pass-through funds the average funds received and operating expenditures per participant are less in 1985-86 than in 1977-78, even though the amount of services has increased. However, if pass-through funds are included, the average dollar amounts increased in 1985-86 from 1977-78.

Looking at funds received and operating expenditures as a function of number of members, it is found that they increase as an average of members by a factor of about ten as number of participants goes from 2-9 to 30-49 or above that number of participants. That is, large networks involve about ten times the average funds received and operating expenditures per participant as do small networks.

Funds received are subdivided as follows:

- Dues, fees or surcharges from participants \$63 million;
 \$82,700 per network; \$820 per participant
- 2) Assessments from participants \$9.5 million; \$12,500 per network; \$120 per participant
- 3) Revenue from sales \$222 million; \$293,000 per network; \$2,900 per participant
- 4) Federal grants* \$65 million; \$85,700 per network; \$850 per participant
- 5) State and local grants \$170 million; \$223,000 per network; \$2,200 per participant
- 6) Other \$126 million; \$166,000 per network; \$1,700 per participant

Federal, State and local grants account for about 36 percent of the funds received by library networks. This proportion is estimated to be 71 percent in 1977-78. Thus, library networks appear to be more self-sustaining in 1985-86 than in 1977-78.

^{*} Even though the questionnaire explicitly states that State and local grant amounts should not include Federal monies distributed by states, it is anticipated that some State and local grant funds that are given may include Federal grants to states.



APPENDIX A

SUPPORTING TABLES

1985-86 Survey 1977-78 Survey

TABLE 1A

NUMBER OF COLLEGE OR UNIVERSITY LIBRARIES AND OTHER INFORMATION UNITS THAT ARE MEMBERS OF A NETWORK, BY TYPE,
BY PRIMARY SPONSOR AND BY NUMBER OF PARTICIPATING ORGANIZATIONS: UNITED STATES: 1985-86

	Number of				Туре с	of College o	or University Li	brary		
Type of Spansor	Participating Organizations	Grand Total	Total	Central/ Ceneral	Medical	Law	Religious	Art	Music	Other
All Networks		76,280	13,664	6,205	2,112	1,494	1,241	973	1,422	217
Total	2 - 9	919	319	142	48	33	38	18	22	18
	10 - 19	2,403	619	348	77	57	38	20	62	17
	20 - 29	2,218	386	234	. 85	14	11	5	25	13
	30 - 49	4,302	756	365	· 131	68	57	53	62	21
	50 and over	66,438	11,584	5,115	1,772	1,323	1,097	678	1,252	148
Federal	2 - 9	13	•	•	•	•	•	•	•	•
	10 - 19	160	46	11	11	4	4	4	9	2
	20 - 29	142	11	4	2	-	-	•	4	•
	30 - 49	274	72	21	11	9	9	9	13	•
	50 and over	14,493	921	240	525	34	46 .	15	27	33
State	2 - 9	229	14	11	1		•	-	-	1
	10 - 19	863	89	41	10	بلا	4	4	13	•
	20 - 29	900	134	86	12	9	10	4	9	5
	30 - 49	1,865	139	89	39	8	2	•	-	-
	50 and over	23,232	1,612	1,233	86	86	61	36	63	47
Local	2 - 9	213	44	13	4	9	4	4	9	
	10 - 19	487	25	25	-	•		•	•	•
	20 - 29	141	4	4	-	•	w	•	•	
	30 - 49	373	12	12	-	•	-	-	•	•
	50 and over	1,944	92	39	8	16	17	6	9	2

continued



NUMBER OF COLLEGE OR UNIVERSITY LIBRARIES AND OTHER INFORMATION UNITS THAT ARE MEMBERS OF A NETWORK, BY TYPE, BY PRIMARY SPONSOR AND BY NAMEER OF PARTICIPATING ORGANIZATIONS: UNITED STATES, 1985-86

	Number of		Type of College or University Library									
Type of Spansor	Participating Organizations	Grand Total	Total	Central/ General	Medical	Lin	Religious	λrt	Music	Other		
Private	2 - 9	65	57	16	4	4	23	4	4	•		
	10 - 19	125	56	53	-	•	1	1	•	1		
	20 - 29	133	23	. 14	1	1.	-	-	7	•		
	30 - 49	275	26	23	•	1	2		•	•		
	50 and over	544	111	81	2	6	•	2	1	19		
Other	2 - 9	94	51	36	13	•	2	-	•	-		
•	10 - 19	100	47	23	2	•	-	-	15	1		
	20 - 29	135	24	23	1	•	•	•	-	-		
	30 - 49	136	37	32	2	1	-	•	-	2		
	50 and over	1,291	183	115	18	26	10	-	•	13		
Not Formally	2 - 9	130	60	35	16	1	, -	-	•	4		
	10 - 19	476	250	162	40	15	· 15	1	3	. 13		
	20 - 29	551	172	98	64	-	1	1	-	8		
	30 - 49	668	166	117	30	•	•	•	-	19		
	50 and over	5,376	2,726	1,980	181	150	131	113	142	29		
Not Indicated	2 - 9	176	93	26	9	18	9	9	9	13		
	10 - 19	192	106	26	13	22	13	9	22	•		
	20 - 29	216	18	4	4	4	•	•	4	-		
	30 - 49	710	304	71	48	48	44	44	48	-		
	50 and over	19,558	5,941	1,428	952	1,009	833	705	1,009	4		

^{*}_* Cells in which there are no observations from the survey.

TABLE 2A

NUMBER OF SCHOOL LIBRARIES AND INFORMATION UNITS THAT ARE MEMBERS
OF A NETWORK, BY TYPE, BY PRIMARY SPONSOR AND BY NUMBER OF
PARTICIPATING ORGANIZATIONS: UNITED STATES, 1985-86

	Number of		Type of School Library				
Type of Sponsor	Participating Organizations	Grand Total	Total	Public	Private		
All Networks		76,280	20,393	18,152	2,241		
Total	2 - 9	919	58	58	-		
	10 - 19	2,403	184	174	10		
	20 - 29	2,218	92	86	6		
	30 - 49	4,302	1,202	992	210		
	50 and over	66,438	18,858	16,842	2,016		
Federal	2 - 9	13	-	-	-		
•	10 - 19	160	1	1	-		
	20 - 29	142	. 13	13	-		
	30 - 49	274	33	15	18		
	50 and over	14,493	2,898	2,768	131		
State	2 - 9	- 229	1	1	-		
	10 - 19	863	97	88	. 9		
	20 - 29	900	24	22	2		
	30 - 49	1,865	1,073	929	145		
	50 and over	23,232	13,564	11,930	1,634		
Local	2 - 9	213	34	34	-		
	10 - 19	. 487	81	80	1		
	20 - 29	141	29	26	3		
	30 - 49	373	23	19	4		
	50 and over	1,944	1,188	1,003	185		

continued



TABLE 2A (Continued)

NUMBER OF SCHOOL LIBRARIES AND INFORMATION UNITS THAT ARE MEMBERS OF A NETWORK, BY TYPE, BY PRIMARY SPONSOR AND BY NUMBER OF PARTICIPATING ORGANIZATIONS: UNITED STATES, 1985-86

	Number of	_ •	Type of School Library				
Type of Sponsor	Participating Organizations	Grand Total	Total	Public	Private		
Private	2 - 9	65	-	•	•		
	10 - 19	125	. 1	1	-		
	20 - 29	133	-	-	-		
	30 - 49	275	18	8	10		
•	50 and over	544	167	147	20		
Other	2 - 9	94	1	, 1	-		
	10 - 19	100	-	-	-		
	20 - 29	135	2	2	-		
	30 - 49	136	5	4	1		
•	50 and over	1,291	. 22	21	1		
Not Formally	2 - 9	130	8	8	-		
Sponsored	10 - 19	476	4	4.	-		
_	20 - 29	551	19	18	1		
	30 - 49	668	23	17	5		
	50 and over	5,376	418	404	14		
Not Indicated	2 - 9	176	13	13			
	10 - 19	192	-	-	•		
	20 - 29	216	4	4	•		
	30 - 49	710	26	-	2		
	50 and over	19,558	599	569	3		

[&]quot;-" Cells in which there are no observations from the survey.



TABLE 3A

NUMBER OF PUBLIC LIBRARIES THAT ARE MEMBERS OF A NETWORK, BY TYPE,
BY PRIMARY SPONSOR AND BY NUMBER OF PARTICIPATING
ORGANIZATIONS: UNITED STATES, 1985-86

	Number of Participating	Grand	Туре	Type of Public Library				
Type of Sponsor	Organizations	Total	Total	Central	Branches			
All Networks		76,280	15,323	11,189	4,134			
Total	2 - 9	919	. <i>'</i> 392	282	110			
	10 - 19	2,403	1,212	942	270			
	20 - 29	2,218	1,174	924	250			
	30 - 49	4,302	1,164	953	211			
	50 and over	66,438	11,382	8,089	3,293			
Federal	2 - 9	13	13	9	4			
	10 - 19	160	98	76	22			
	20 - 29	142	75	53	22			
•	30 - 49	274	87	70	17			
	50 and over	14,493	5,068	706	472			
State	2 - 9	229	197	155	42			
	10 - 19	863	551	438	112			
	20 - 29	900	623	484	138			
	30 - 49	1,865	571	466	105			
	50 and over	23,232	5,367	3,977	1,390			
Local	2 - 9	213	123	73	50			
	10 - 19	487	346	238	109			
	20 - 29	141	113	104	9			
	30 - 49	373	306	239	67			
	50 and over	1,944	554	330	224			

continued



TABLE 3A (Continued)

NUMBER OF PUBLIC LIBRARIES THAT ARE MEMBERS OF A NETWORK, BY TYPE, BY PRIMARY SPONSOR AND BY NUMBER OF PARTICIPATING ORGANIZATIONS: UNITED STATES, 1985-86

	Number of	- -	Type of Public Library					
Type of Sponsor	Participating Organizations	Grand Total	Total	Central	Branches			
Private	2 - 9	65	2	2	-			
	10 - 19	125	33	24	9			
	20 - 29	. 133	110	75	35			
	30 - 49	275	11	11	-			
	50 and over	544	106	93	13			
Other	2 - 9	94	14	14	-			
	10 - 19	10 0	17	17	-			
	20 - 29	135	66	59	7			
	30 - 49	136	64	64	-			
	50 and over	1,291	93	93	-			
Not Formally	2 - 9	130	25	21	4			
Sponsored	10 - 19	476	105	105	-			
	20 - 29	551	77	74	3			
	30 - 49	668	57	57	-			
	50 and over	5,376	673	572	101			
Not Indicated	2 - 9	176	18	9	9			
	10 - 19	192	62	44	18			
	20 - 29	216	110	75	35			
	30 - 49	710	66	44	22			
	50 and over	19,558	3,411	2,318	1,093			

[&]quot;-" Cells in which there are no observations from the survey.



TABLE 4A

NUMBER OF FEDERAL LIBRARIES THAT ARE MEMBERS OF A NETWORK, BY TYPE,
BY PRIMARY SPONSOR AND BY NUMBER OF PARTICIPATING
ORGANIZATIONS: UNITED STATES, 1985-86

	Number of Participating	Grand	Type of Federal Library					
Type of Sponsor	Organizations	Total	Total	Central	Branches			
All Networks		76,280	3,351	2,291	1,060			
Total	2 ~ 9	919	1	1	_			
	10 - 19	2,403	16	10	-			
	20 - 29	2,218	36	36	-			
	30 - 49	4,302	25	25	1			
•	50 and over	66,438	3,277	2,218	1,059			
Federal	2 - 9	13	-	-	#**			
	10 - 19	160	-	-	-			
	20 - 29	142	4	4	-			
	30 - 49	274	4	4	-			
	50 and over	14,493	1,012	699	313			
State	2 - 9	229	-	•••	_			
	10 - 19	863	1	1	-			
	20 - 29	900	3	3	-			
	30 - 49	1,865	•	-	-			
	50 and over	23,232	141	138	3			
Local	2 - 9	213	-	-	_			
	10 - 19	487	4	4	-			
	20 - 29	141	-	•	-			
	30 - 49	373	2	2	-			
	50 and over	1,944	5	5	-			

continued

TABLE 4A (Continued)

NUMBER OF FEDERAL LIBRARIES THAT ARE MEMBERS OF A NETWORK, BY TYPE, BY PRIMARY SPONSOR AND BY NUMBER OF PARTICIPATING ORGANIZATIONS: UNITED STATES, 1985-86

	Number of		Type of Federal Library					
Type of Sponsor	Participating Organizations	Grand Total	Total	Central	Branches			
Private	2 - 9	65	-	-	-			
1111400	10 - 19	125 .	. <u>-</u>	-	-			
	20 - 29	133	-	•	-			
	30 - 49	27Š	5	5	-			
	50 and over	544	6	6	-			
Other	2 - 9	94	-	-	-			
Ouer	10 - 19	100	-	-	-			
	20 - 29	135	-	-	-			
	30 - 49	136	9	8	1			
	50 and over	1,291	39	3 9	•			
Not Formally	2 - 9	130	1	1	•			
Sponsored	10 - 19	476	5	5	•			
Sporisored	20 - 29	- 551	29	29	•			
	30 - 49	668	5	5				
	50 and over	5,376	19	17				
Not Indicated	2 ~ 9	176	-	-				
Inc Timeron	10 - 19	192	-	••				
	20 - 29	216	-	-				
	30 - 49	710	-	-	_			
	50 and over	19,558	2,053	1,313	74			

[&]quot;-" Cells in which there are no observations from the survey.



TABLE SA NUMBER OF SPECIAL LIBRARIES THAT ARE MEMPERS OF A NETWORK, BY TYPE, BY PRIMARY SPONSOR AND BY NUMBER OF PARTICIPATING ORGANIZATIONS: UNITED STATES, 1985-1986

								The or	Special			A		عصمي عيضه بر
Cy _r a of Sponsor	Number of Participating Organizations	Grand Total	Total	Corpor- ation	Medical	Law	Reli- gious	Art	Music	Auseun	Histor- ical	Correc- tional Institute	Hospital	Other .
		26.200	18,600	2,435	5,347	1,911	766	650	618	877	866	984	2,390	1,756
1 Networks		76,280	101000	81,144	.1									.
	2 - 9	919	115	12	54	4	-	-	-	2	2	4	10	2
Total	10 - 19	2,403	246	20	147	8	4	5	4	5	5	6	10	2
	. 20 - 29	2,218	482	44	285	15	12	4	4	15	9	15	49	2 18
	20 - 29 30 - 49	4,302	1,039	280	300	40	24	24	13	36	30	, 40	58	
	. 30 - 43 50 and over	66,438	16,718	2,079	4,561	1,843	726	617	596	819	811	918	2,263	1,4
	20 GIT OLET	40,100	20,123	•										
- 4 •	2 - 9	13	-	-	-	•	•	-	-	-	•	•	-	
Federal	10 - 19	160	18	4	4	•	-	-	•	-	•	•	1	
	20 - 29	142	35	4	22	4	-	-	-	•	•	•	•	
	30 - 49	274	76	-	-	•	•	•	•	•	 	 55	1,282	9
	50 and over	14,493	5,068	254	2, 120	299	24	23	22.	31	29	,,	2,202	·
		220	5	•	3	•	-	-	-	-	-	-	-	
State	2 - 9	229 863	49		9	4	4	4	4	. 4	4	4	5	
	10 - 19	900	66		_	1	2	-	-	2	-	6	1	
	20 - 29		56			1	-	1	•	1	3	5		
	30 - 49	1,865 23,2J2	2,211			129	74	54	46	77	82	166	129	(
	50 and over	ڪلڪ ۽ لين	-1044											
11	2 - 9	213	1	<u>-</u>	. -	-	-	-	, -	-	-	•		
Local	10 - 19	487	-	. •	, <u>-</u>	-	-	-		-	. •	•		
	20 - 29	141	•	. •	. •	-		-	. -	-	•	-	· •	
	20 - 2 9 30 - 4 9	373	20	5 10) 10	2	-	1				-	. 1	
	50 and over	1,944	141				9	4	, 2	5	5	1	. 1	

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NUMBER OF SPECIAL LIBRARIES THAT ARE MEMBERS OF A NETWORK, BY TYPE, BY PRIMARY SPONSOR AND BY NUMBER OF PARTICIPATING ORGANIZATIONS: UNITED STATES, 1985-1986

	Number of Participating Organizations			Type of Special Library										
Type of Sponsor		Grand Total	Total	Corpor- ation	Medical	Lav	Reli- gious	Art	Music	Museum	Histor- ical	Correc- tional Institute	Hospital	Other
Private	2 - 9	65	5	•	•	•	•	•	*	2	2	•	•	1
	10 - 19	125	30	•	24	3	•	-	•	•	•	•	•	3
	20 - 29	133	22	•	•	•	· -	•	•	•	-	-	9	13
	30 - 49	275	194	181	•	3	•	2	-	2	1	3	1	1
	50 and over	544	136	18	74	5	6	3	1	12	5	•	3	9
Other	2 - 9	94	19	•	15	-	-	•	-		•	•	•	4
	10 - 19	100	33	1	27		•	-	•	•	•	1	•	4
	20 - 29	135	34	1	13	-	1	•	-	-	-	•	18	1
	30 - 49	136	15	12	3	•	•	•	•	•	•	-	•	•
	50 and over	1,291	929	74	197	598	•	•	•	1	•	6	3	50
Not Formally	2 - 9	130	27	3	22	-	•	•	· •	•	•	-	1	1
Sponsored	10 - 19	476	105	10	83	1	•	1	` -	-	1	1	5	3
	20 - 29	551	237	19	191	1	•	-	•	4	•	-	8	13
	30 - 49	668	371	30	209	3	2	2	•	1	3	•	25	96
	50 and over	5,376	930	230	391	68	31	21	18	35	33	34	43	25
Not Indicated	2 - 9	176	57	9	13	4	. -	•	•	•	•	4	9	18
	10 - 19	192	11	۰	•	-	•	•	•	1	•	•	•	10
	20 - 29	216	88	13	13	9	9	4	4	9	9	9	9	•
	30 - 49	710	300	40	53	31	22	18	13	31	31	31	31	-
	50 and over	19,558	7,302	952	1,243	736	582	511	507	657	657	657	802	-

[&]quot;-" Cells in which there are no observations from the survey.



TABLE 6A

NUMBER OF STATE LIBRARY AGENCY LIBRARIES THAT ARE MEMBERS OF A MUTWORK,
BY TYPE, BY PRIMARY SPONSOR AND BY NUMBER OF PARTICIPATING ORGANIZATIONS:
UNITED STATES, 1985-1986

	Number of	O	Type of State Library						
Type of Sponsor	Participating Organizations	Total	Total	Agency	Library	Branches			
All Networks		76,280	1,574	, 502	378	694			
Total	2 - 9	919	8	7	1	ta -			
	10 - 19	2,403	81	40	16	25			
	20 - 29	2,218	67	24	35	9			
	30 - 4 9	4,302	28	13	44	3			
	50 and over	66,438	1,390	41.8	3 15	. 657			
Federal	2 - 9	<u>:3</u>	-	-	-	-			
	10 - 19	160	1	1	-	-			
	20 - 29	142	4	-	4	-			
	30 - 49	274	1	3	-	-			
	50 and over	14,493	117	190	12	. 4			
State	2 - 9	229	5	5	-	-			
	10 - 19	863	71	33	13	25			
	20 - 29	900	24	22	2	-			
	30 - 49	1,865	10	5	2	3			
	50 and over	23,232	394	155	170	€8			
Local	2 - 9	213	-	-	-	-			
	10 - 19	487	2	2	-	-			
	20 - 29	141	1	-	1	•••			
	30 - 49	373	-	-	-	-			
	50 and over	1,944	39	22	17	-			

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continued



TABLE 6A (Continued)

NUMBER OF STATE LIBRARY AGENCY LIBRARIES THAT ARE MEMBERS OF A NETWORK, BY TYPE, BY PRIMARY SPONSOR AND BY NUMBER OF PARTICIPATING ORGANIZATIONS: UNITED STATES, 1985-1986

	Number of Participating Organizations		Type of State Library						
Type of Sponsor		Grand Total	Total	Agency	Library	Branches			
Private	2 - 9	65	1	1	-	-			
	10 - 19	125	2	1	1	••			
	20 - 29	133	18	· -	18	-			
	30 - 49	275		-	-	-			
	50 and over	544	1	1	-	-			
Other	2 - 9	94	-	-		-			
	10 - 19	100	-	-	-	•			
	20 - 29	135	6	1	5				
	30 - 49	136	3	3	-	-			
•	50 and over	1,291	15		11	-			
Not Formally	2 - 9	130	2	1	1	-			
Sponsc. á	10 - 19	476	5	3	2	-			
	20 - 29	551	15	1	5	9			
	30 - 49	668	9	-	9	-			
	50 and over	5,376	582	34	29	519			
Not Indicated	2 - 9	176	-	-	-	-			
	10 - 19	192	-	-	-	-			
	20 - 29	216	-	-	-	-			
	30 - 49	710	4	4	-	-			
	50 and over	19,558	242	101	75	66			

[&]quot;-" Cells in which there are no observations from the survey.



TABLE 7A

NUMBER OF NETWORK HEADQUARTERS AND OTHER LIBRARIES AND INFORMATION UNITS
THAT ARE MEMBERS OF A NETWORK, BY TYPE, BY PRIMARY SPONSOR AND BY
NUMBER OF PARTICIPATING ORGANIZATIONS: UNITED STATES, 1985-1986

			Type of Network Headquarters or Other Libraries						
Type of Sponsor	Number of Participating Organizations		Other Network Headquarters	Own Network Headquarters	Other Library				
All Networks		76,280	182	223	3,419				
Total	2 - 9	919	7	22	43				
	10 - 19	2,403	3	31	9				
	20 - 29	2,218	9	21	9 3				
	3u - 49	4,302	19	35	32				
	50 and over	66,438	144	114	3,333				
Federal	2 - 9	13	-	-	-				
	10 - 19	160	-	5	_				
	20 - 29	142	-	-	-				
	30 - 49	274	-	1	_				
	50 and over	14,493	78	10	3,209				
State	2 - 9	229	-	5	1				
	10 - 19	863	1	4	-				
	20 - 29	900	8	14	3 3				
	3u - 49	1,865	4	8	3				
	50 and over	23,232	49	57	106				
Local	2 - 9	213	-	11	13				
	10 - 19	487	-	12	-				
	20 - 29	141	_	3	-				
	30 - 49	373	ra.	3 3	_				
	50 and over	1,944	2	11	-				

continued



TABLE 7A (Continued)

NUMBER OF NETWORK HEADQUAPTERS AND OTHER LIBRARIES AND INFORMATION UNITS THAT ARE MEMBERS OF A NETWORK, BY TYPE, BY PRIMARY SPONSOR AND BY NUMBER OF PARTICIPATING ORGANIZATIONS: UNITED STATES, 1985-1986

			Type of Network Headquarters or Other Libraries					
Type of Sponsor	Number of Participating Organizations		Other Network Headquarters		Other Library			
Private	2 - 9	65	. 4	_	-			
	10 - 19	125	-	2	-			
	·20 - 29	133	•	-	-			
	30 - 49	275	14	6	-			
	50 and over	544	-	4	13			
Other	2 - 9	94	7	-	1			
	10 - 19	100	-	2	_			
	20 - 29	135	1	1	_			
	30 - 49	136	1	1	_			
	50 and over	1,291	1	5	3			
Not Formally	2 - 9	130	_	1	1			
Sponsored	10 - 19	476	2	1	1			
-	20 - 29	551	-	2	_			
	30 - 49	668	-	6	29			
	50 and over	5,376	14	13	1			
Not Indicated	2 - 9	176	_	4	26			
	10 - 19	192	•	4	9			
	20 - 29	216	-	-	_			
	30 - 49	710	-	9	_			
	50 and over	19,558	-	13	_			

[&]quot;-" Cells in which there are no observations from the survey.



TABLE 8A

NUMBER AND PROPORTION OF MULTITYPE NETWORKS,
BY PRIMARY SPONSOR AND BY NUMBER OF PARTICIPATING ORGANIZATIONS:
UNITED STATES: 1985-86

		80 = A · 9	Multity	pe Networks
Type of Sponsor	Number of Participating Organizations	Total Number of Networks	Number	Proportion (%)
All Networks		760	398	52%
Total	2 - 9	152	44	29
	10 - 19	174	64	37
	20 - 29	90	51	57
	30 - 49	111	55	45
	50 and over	233	184	80
Federal	2 - 9	4	0	-
	10 - 19	12	6	54
	20 - 29	5	5	10 0
	30 - 49	6	6	100
	50 and over	30	24	81
State	2 - 9	- 37	5	13
	10 - 19	64	23	37
	20 - 29	36	14	39
	30 - 49	48	18	37
	50 and over	133	98	74
Local	2 - 9	36	8	23
	10 - 19	36	10	2 9
	20 - 29	6	2	33
	30 - 49	10	2	16
	50 and over	14	8	60

TABLE 8A (continued)

NUMBER AND PROPORTION OF MULTITYPE NETWOPTS BY PRIMARY SPONSOR AND BY NUMBER OF PARTICIPATING URGANIZATIONS: UNITED STATES: 1985-86

•			Multity	pe Networks
Type of Sponsor	Number of Participating Organizations	Total Number of Networks	Number	Proportion (%)
Private	2 - 9	10	2	18%
	10 - 19	9 _. .	. 5	56
	20 - 29	5	4	33
	30 - 49	6	4	67
•	50 and over	5	5	100
Cther	2 - 9	12	2	17
	10 - 19	7	3	43
	20 - 29	6	5	83
	30 - 49	4	3	75
	50 and over	10	10	100
Not Formally	2 - 9	22	9	41.
Sponsored	10 - 10	32	17	5 3
	20 - 29	23	16	70
	30 - 49	19	17	92
	50 and over	23	21	91
Not Indicated	2 - 9	31	18	57
	10 - 19	14	0	-
	20 - 29	9	5	50
	30 - 49	18	5	25
	50 and over	18	18	100

[&]quot;-" Cells in which there are no observations from the survey.



TABLE 9A

NUMBER OF NETWORKS IN WHICH MEMBERSHIP IS BASED ON WRITTEN AGREEMENT AND LEGAL STATUS, BY PRIMARY SPONSOR AND BY NUMBER OF PARTICIPATING ORGANIZATIONS: UNITED STATES: 1985-86

				1	legal Status	
Type of Sponsor	Number of Participating Organizations	Total Number of Networks	No. With Written Agreement	Has Legislative Mandate	Incorporated	Not for Profit
All Networks		760	574	164	111	752
Total	2 - 9	152	110	14	18	152
	10 - 19	174	136	27	21	172
	20 - 29	90	74	19	14	90
	30 - 49	111	76	22	15	105
	50 and over	233	178	82	43	233
Pederal	2 - 9	4	4	0	0	4
	10 - 19	12	9	0	. 1	12
	20 - 29	5	5	0	0	5
	30 - 49	6	6	1	1 .	. 6
	50 and over	30	24	9	3	` 30
State	2 - 9	37	23	6	6	37
	10 - 19	64	S1	18	3	64
	20 - 29	36	34	15	5	36
	30 - 49	48	37	18	4	48
	50 and over	133	99	63	18	133
Local	2 - 9	36	30	E	4	36
	10 - 19	36	31	7	1	36
	20 - 29	6	4	4	2	6
	30 - 49	10	4	2	2	10
	50 and over	14	13	3	1	14



TABLE 9A (continued)

HICH MEMBERSHIP IS RASED ON WRITEN AGREEMENT AN

NUMBER OF NETWORKS IN WHICH MEMBERSHIP IS BASED ON WRITEN AGREEMENT AND LEGAL STATUS, BY PRIMARY SPONSOR AND BY NUMBER OF PARTICIPATING ORGANIZATIONS: UNITED STATES: 1985-86

				1	egal Status	
Type of Sponsor	Number of Participating Organizations	Total Number of Networks	No. With Written Agreement	Has Legislative Mandate	Incorporated	Not for Profit
Private	2 - 9	10	7	0	4	10
	10 - 19	9	. 7	0	6	9
	20 - 29	5	4	0	0	5
	30 - 49	6	4 .	0	2	4
	50 and over	5	4	2	5	5
Other	2 - 9	12	10	1	2	12
	10 - 19	7	5	1	3	7
	20 - 29	6	5	0	2	6
	30 - 49	4	3	1	' 1	4
	50 and over	10	6	1	3 .	10
Not Formally	2 - 9	22	14	1	2	22
Sponeored	10 - 19	32	20	1	7	30
	20 - 29	23	13	0	5	23
	30 - 49	19	8	0	5	19
	50 and over	23	18	4 ·	13	23
Not Indicated	2 - 9	31	22	0	0	31
	10 - 19	14	13	0	G	14
	20 - 29	9	9	0	0	9
	30 - 49	18	14	0	0	14
	50 and over	18	14	0	0	18





NUMBER OF NETWORKS BY THEIR CHOCKAPHIC AREA SERVED,
BY PRIMARY SPONSOR AND BY NUMBER OF PARTICIPATING ORGANIZATIONS:
UNITED STATES: 1985-86

	Number of Participating	Number of			Geographic	Arma Served			
pe of Sponsor	Organizations	Networks	International	Nationwide	Milti-State	Statewide	Sub-State	Local	Other
il Networks		760	10	11	37	97	333	208	3
M obile 12	2 - 9	152	0	0	2	4	64	82	0
	10 - 19	174	0 '	0	6	20	66	80	1
	20 - 29	90	1	0	1	20	47	22	1
	30 - 49	111	2 .	. 0	5	16	43	46	0
	50 and over	233	7	11	23	37	113	38	1
Federal	2 - 9	4	0	0	0	0	0	4	0
	10 - 19	12	0	0	0	1	6	5	0
	20 - 29	5	0	0	0	1	4	0	0
	30 - 49	6	C.	0	9	, 0	2	4	0
	50 and over	30	1	3	8	0.	12	1	1
State	2 - 9	37	0	0	0	2	13	22	0
	10 - 19	64	0	0	0	6	25	33	0
	20 - 29	36	0	0	0	9.	24	3	1
	30 - 49	48	0	0	0	4	15	29	0
	50 and over	133	0	1	2	25	71	33	0
Local	2 - 9	36	0	0	0	0	17	19	0
	10 - 19	36	0	0	0	0	9	27	0
	20 - 29	6	0	0	0	0	6	0	0
	30 - 49	10	0	0	0	1	1	8	0
	50 and over	14	0	0	0	0	13	1	0

TABLE 10A (continued)

NUMBER OF NETWORKS BY THEIR GEOGRAPHIC AREA SERVED, BY PRIMARY SPONSOR AND BY NUMBER OF PARTICIPATING ORGANIZATIONS: UNITED STATES: 1985-86

	Number of	Total			Geographic	Area Served	Geographic Area Served							
Type of Sponsor	Participating Organizations	Naber of Networks	International	Nationwide	Multi-State	Statewide	Sub-State	Local	Othe					
Private	2 - 9	10	0	c	1	1	8	0	0					
	10 - 19	9	0	0	0	1	4	3	1					
	20 - 29	5	,0	ð	0	0	0	5	0					
•	30 - 49	6	b	0	2	0	2	2	0					
	50 and over	5	0 .	1	0	1	2	1	0					
Other	2 - 9	12	0	0	0	1	6	5	0					
	10 - 19	7	0	0	0	1	4	2	0					
	20 - 29	6	0	0	0	1	5	0	0					
	30 - 49	.4	0	0	1	0	3	0	0					
	50 and over	10	0	0	4	3	3	0	0					
Not Formally	2 - 9	22	0	0	1	0	7	14	0					
Sponsored	10 - 19	32	0	0	6 .	. 2	14	9	0					
	20 - 29	23	1	า	1	4	8	9	0					
	30 - 49	19	2	0	2	2	11	3	0					
	50 and over	23	6	1	4	3	7	2	0					
Not Indicated	2 - 9	31	0	0	0	0	13	18	0					
	10 - 19	14	0	0	0	9	4	1	0					
	20 - 29	9	0	0	0	5	0	5	0					
	30 - 49	18	. О	0	0	9	9	0	0					
	50 and over	18	0	5	5	5	5	0	0					

TABLE 11A

NUMBER OF NETWORKS BY PURPOSES FOR WHICH THE NETWORK WAS ESTABLISHED, BY PRIMARY SPONSOR AND BY NUMBER OF PARTICIPATING ORGANIZATIONS:

UNITED STATES: 1985-86

	Markey of	mate)		_	Purposes for	Which Network	was Estab	lished		
Type of Sponsor	Number of Participating Organizations	Total Number of Networks	Exchange Ideas	Consolidate Purchasing	Consolidate Power	Establish Standards	Share Services	Deal w/ Vendors	Use New Technology	Other
All Networks		760	329	158	145	187	329	108	193	82
Total	2 - 9	152	52	33	30	29	49	14	33	16
	10 - 19	174	71	35	36	33	62	18	33	15
	20 - 29	90	53	20	27	30	49	15	27	14
	30 - 49	111	49	20	14	22	53	19	27	12
•	50 and over	233	104	50	38	73	116	42	73	25
Pederal .	2 - 9	4	0	0	0	0	0	0	0	0
	10 - 19	12	3	1	0	2	1	0	0	1
	20 - 29	5	0	0	1	1	1	0	1	1
	30 - 49	6	1	0	0	0	2	1	1	0
	50 and over	30	9	3	2	8 .	10	3	7	4
State	2 - 9	37	10	7	6	5	9	3	7	10
	10 - 19	64	22	15	11	15	19	6	12	11
	20 - 29	36	19	9	11	11	21	7	9	5
	30 - 49	48	18	11	6	9	22	6	10	6
	50 and over	133	61	32	20	39	69	24	43	12
Local	2 - 9	36	8	9	9	6	12	6	7	1
	10 - 19	36	7	3	7	. 6	10	3	5	0
	20 - 29	6	4	3	3	0	4	1	3	0
	30 - 49	10	4	3	2	3	5	3	3	0
	50 and over	14	4	3	3	3	5	4	3	1



TABLE 11A (continued)

NUMBER OF NETWORKS BY PURPOSES FOR WHICH THE NETWORK WAS ESTABLISHED, BY PRIMARY SPONSOR AND BY NUMBER OF PARTICIPATING ORGANIZ: (ONS: UNITED STATES: 1985-86

	Number of	Total	******		Purposes for 1	MILLUI MEUNUL.	ESLAD			
Type of Spansor	Participating Organizations		Exchange Ideas	Consolidate Rurchasing	Consolidate Power	Establish Standards	She to Serv the	Deal w/ Vendors	use New Technology	Other
Private	2 - 9	10	5	3	3	3	3	i	3	1
	10 - 19	9	4 '.	. 2	€.	3	ř	.:	4	0
	20 - 29	5	5	0	1)	4	ı	1	1	Ĵ
	30 - 49	6	6	2	4	2	6	3	6	ð
	50 and over	5	4	. 2	3	3	3	2	ï	1
Other	2 - 9	12	10	6	5	5	11	2	7	2
	10 - 19	7	6	2	4	1	6	G	5	Q
	20 - 29	6	6	3	3	2	5	2	5	3
	30 - 49	4	3	2	1	2	4	2	1	3
	50 and over	10	7	i	4	6	7	1	4	3
Not Formally	2 - 9	22	19	8	7	10	14	3	9	2
Sponsored	10 - 19	32	29	11	12	6	18	7	6	3
	20 - 29	23	19	5	9	12	14	5	8	ä
	30 - 49	19	17	5	5	8	14	5	6	3
	50 and over	23	19	9	6	14	20	8	23	4
Not Indicated	2 - 9	31	0	0	0	G	O	0	0	0
	10 - 19	14	1	1	0	0	1	0	1	0
	20 - 29	. 9	a	0	0	0	0	ð	0	C
	30 - 49	18	43	Ą	0	0	0	0	0	0
	50 and over	18	9	ĵ	0	0	0	0	0	0



	Number of	Total	Frequency of Network's Operation					
Type of Sponsor	Participating Organizations	Number of Networks	Daily	Weekly	Periodic	Other		
All Networks		760	322	ě	82	5		
Total	2 - 9	152	50	6	15	1		
	10 - 19	174	64	0	28	1		
	20 - 29	90	46	0	16	1		
	30 - 49	111	44	1	16	0		
	50 and over	233	118	1	7	2		
Federal	2 - 9	4	0	O	0	0		
	10 - 19	12	2	0	1	0		
	20 - 29	5	1	0	0	0		
	30 - 49	6	2	0	0 .	. 0		
	50 and over	30	10	0	1 ,	. 0		
State	2 - 9	37	19	0	0	C		
	10 - 19	64	29	0	3	. 0		
	20 - 29	36	21	0	1	(
	30 - 49	48	21	1	3	0		
	50 and over	133	73	1	0	(
Local	2 - 9	36	11	2	0	(
	10 - 19	36	9	0	1	(
	20 - 29	6	, 6	0	0	(
	30 - 49	10	5	0	0	(
	50 and over	14	4	0	1	(



TABLE 12A (continued)

NUMBER OF NETWORKS THAT HAVE VARIOUS FREQUENCY CO OPERATIONS,
BY PRIMARY SPONSOR AND BY NUMBER OF PARTICIPATINE ORGANIZATIONS:
UNITED STATES: 1985-86

	Number of	Total	Freque	ncy of Net	work's Ope	ration
Type of Sponsor	Participating Organizations	Number of Networks	Daily	Weekly	Periodic	Other
Private	2 - 9	10	3	0	3	0
	10 - 19	. 9	7	0	0	1
	20 - 29	5	4	0	1	0
	30 - 49	6	4	0	2	0
	50 and over	5	5	0	0	0
Other	2 - 9	12	. 6	3	2	1
	10 - 19	7	5	0	2	0
	20 - 29	6	4	0	1	1
	30 - 49	4	1	0	3	0
	50 and over	10	9	oʻ	1	0
Not Formally	2 - 9	22	11	1	· 10	0
Sponsored	10 - 19	32	12	0	20	0
	20 - 29	23	10	0	13	0
	30 - 49	19	11	0	.8	0
	50 and over	23	17	0	4	2
Not Indicated	2 - 9	31	0	Ċ.	0	0
	10 - 19	14	0	0	1	0
	20 - 29	9	0	0	0	0
	30 - 49	18	0	0	0	0
	50 and over	18	. 0	0	0	0



TABLE 13A

TOTAL FUNDS RECEIVED, TOTAL OPERATING EXPENDITURES, AND TOTAL PASS-THROUGH
FUNDS* FOR MOST RECENT FISCAL YEAR ENDING DURING 1984, BY PRIMARY SPONSOR
AND BY NUMBER OF PARTICIPATING ORGANIZATIONS: UNITED STATES, 1985-66

Type of Sponsor	Number of Participating Organizations	Total Number of Networks	Total Funds Received (\$000)	Total Operating Expenditures (\$000)	Total Pæs-Through Funds (\$000)
All Networks		760	655,858	489,674	334,057
Total	2 - 9	152	34,043	41,280	2,987
	10 - 19	174	48,808	43,881	5, 430
	20 - 29	90	20,400	17,911	2,037
	30 ~ 49	111	31,785	28,555	1,383
	50 and over	233	520,823	358,047	322,220
Federal	2 - 9	4	136	13,221	-
	10 - 19 .	12	815	815	-
	20 - 29	5	329	327	-
	30 - 49	6	852	844	-
	50 and over	30	65,486	42,252	10,961
State	2 - 9	37	5,886	5,301	178
	10 - 19	64	15,552	13,368	31
	20 - 29	36	16,830	14,771	1,660
	30 - 49	48	10,981	10,282	953
	50 and over	133	78,201	63,023	16,014
Local	2 - 9	36	20,395	18,531	1,014
	10 - 19	36	29,067	26,474	4,438
	20 - 29	6	2,173	1,954	354
	30 - 49	10	13,389	12,363	161
	50 and over	14	8,251	6,995	2,550

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^{*} Pass-through funds include: (1) funds paid from members to vendors, bibliograph': utilities, etc. that pass through the network (excluding surcharge, overhead recovered by operation) and (2) funds paid by members to other members that pass through the network.

TABLE 13A (Continued)

TOTAL FUNDS RECEIVED, TOTAL OPERATING EXPENDITURES, AND TOTAL PASS-THROUGH FUNDS* FOR MOST RECENT FISCAL YEAR ENDING DURING 1984, BY PRIMARY SPONSOR AND BY NUMBER OF PARTICIPATING ORGANIZATIONS: UNITED STATES, 1985-86

Type of Sponsor	Number of Participating Organizations	Total Number of Networks	Total Funds Received (\$000)	Total Operating Expenditures (\$000)	Total Pass-Through Funds (\$000)
Private	2 - 9	10	209	114	105
	10 - 19	9	748	584	21
	20 - 29	5	· -	-	-
	30 - 49	6	5,512	4,234	-
	50 and over	5	14,504	13,327	1,508
Other	2 - 9	12	651	542	98
	10 - 19	7	1,056	876	92
	20 - 29	6	720	560	-
	30 - 49	4	619	470	-
	50 and over	10	5,943	1,879	4,050
Not Formally	2 - 9	22	4,398	2,418	298
Sponsored	10 - 19	32	1,015	7 50	760
	20 - 49	23	279	232	22
	30 - 49	19	317	257	2,650
	50 and ower	23	39,280	21,718	36,107
Not Insicated	⊿ - 9	31	2,368	1,153	1,293
	10 - 19	14	5 55	1,014	88
	20 - 29	9	68	67	-
	30 - 49	18	115	105	4
	50 and over	18	309,156	208,853	251,029

^{*} Pass-through funds include: (1) funds paid from members to vendors, bibliographic utilities, etc. that pass through the network (excluding surcharge, overhead recovered by operation) and (2) funds paid by members to other members that pass through the network.

[&]quot;-" Cells in which there are no observations from the survey.



TABLE 14A

AVERAGE AND MEDIAN PUNDS RECEIVED AND TOTAL OPERATING EXPENDITURES (EXCLUDING PASS-THROUGH FUNDS)
FOR MOST RECENT FISCAL YEAR ENDING DURING 1984, BY PRIMARY SPONSOR
AND BY NUMBER OF PARTICIPATING ORGANIZATIONS: UNITED STATES, 1985-86

	Number of Participating	Total Number of	Total Puni	is Received	Total Operatin	g Expenditure
Type of Sponsor	Organizations	Networks	Mean	Median	Moan	Median
All Networks		760	860,526	95,907	642,485	75,754
Total	2 - 9	152	222,190	17,650	269,428	17,166
	10 - 19	174	281,547	19,282	253,131	13,967
	20 - 29	90	223,513	75,000	196,244	68,069
	30 - 49	111	283,669	65,000	254,854	62,000
	50 and over	233	2,261,922	291,308	1,554,989	248,109
Federal	2 - 9	4	-	•	-	-
	10 - 19	12	68,834	45,056	68,835	45,056
	20 - 29	5	60,721	113,046	60,349	112,212
	30 - 49	6	132,735	97,178	131,387	101,324
	50 and over	30	2,204,030	152,026	1,422,061	172,500
State	2 - 9	37	158,472	85,621	142,734	61,089
	10 - 19	64	245,091	125,599	210,675	84,385
	20 - 29	36	462,580	350,235	405,985	301,657
	30 - 49	48	227,750	61,176	213,264	61,176
	50 and over	133	5 99, 599	383,282	483,216	292,091
Local	2 - 9	36	564,436	350,707	512,856	276,258
	10 - 19	36	818,681	242,743	745,653	184,485
	20 - 29	. 6	359,693	298,398	323,371	278,634
	30 - 49	10	1,281,320	874,045	1,183,162	874,045
	50 and over	14	595,811	373,333	505,110	286,533



TABLE 14A (Continued)

AVERAGE AND MEDIAN FUNDS RECEIVED AND TOTAL OPERATING EXPENDITURES (EXCLUDING PASS-THROUGH FUNDS)
FOR MOST RECENT FISCAL YEAR ENDING DURING 1984, BY PRIMARY SPONSOR
AND BY NUMBER OF PARTICIPATING ORGANIZATIONS: UNITED STATES, 1985-86

	Number of Participating	Total Number of	Total Fund	is Received	Total Operatin	g Dopenditure
Type of Sponsor	Organizations	Networks	Mean	Median	Mean	Median
Private	2 - 9	10	20,035	645	10,861	645
	10 - 19	9	82,585	13,500	64,441	10,800
	20 - 29	5	. 41	21	72	37
	30 - 49	6	858,439	207,014	659,364	244,098
	50 and over	5	2,880,685	770,356	2,646,959	585,471
Other	2 - 9	12	53,845	7,650	44,846	5,297
	10 - 19	7	149,873	34,462	124,326	34,103
	20 - 29	6	119,225	59,125	92,707	49,125
	30 - 49	4	153,582	-	116,722	-
	50 and over	10	568,770	50,571	179,816	50,571
Not Formally	2 - 9	22	198,554		109,159	-
Sponsored	10 - 19	32	31,492	930	23,283	-
	20 - 29	23	12,060	1,100	10,017	510
	30 - 49	19	16,762	8,058	13,628	3 ,7 79
	50 and over	23	1,695,963	157,899	937,677	152,842
Not Indicated	2 - 9	31	76,757	1,771	37,400	_
	10 - 19	14	38,981	9,122	71,287	8,816
	20 - 29	9	∵ , 750	6,975	7,650	6,885
	30 - 49	. 13	5 ,525	5,873	5,969	3,994
	50 and over	2 3	17,537,825	517,186	11,847,812	355,341

[&]quot;-" Cells in which there are no observations from the survey.



TABLE 15A

TOTAL FUNDS RECEIVED MOST RECENT FISCAL YEAR ENDING DURING 1984, BY SOURCE OF FUNDS,
BY PRIMARY SPONSOR AND BY NUMBER OF PARTICIPATING ORGANIZATIONS: UNITED STATES, 1985-86

Type of Sponsor	Number of Participating Organizations	Total Funds Received (\$000)	Dues, Fees, etc. (\$000)	Assessments from Part. (\$000)	Revenue from Sales (\$000)	Federal Grants (\$000)	State & Local (\$000)	Investment Income (\$000)	Carryover (\$000)	Other (\$000)
All Networks		655,858	62,902	9,513	222,313	65,128	169,748	17,697	67,864	40,693
Total	2 - 9	34,043	1,106	. 1,241	1,548	3,706	21,309	584	3,293	1,256
	10 - 19	48,808	939	459	1,271	4,613	38,536	418	1,342	1,230
•	20 - 29	20,400	757	122	713	2,816	13,870	242	1,374	506
	30 - 49	31,785	1,335	47	2,325	4,776	20,508	287	1,092	1,415
	50 and over	520,823	58,766	7,644	216,455	49,216	75,524	16,167	60,763	36,288
Federal	2 - 9	136	-	-	-	-	136	-	•	-
	10 - 19	815	28	-	4	669	108	-	2	4
	20 - 29	329	•	-	-	234	-	-	•	95
	30 - 49	852	110	-	91	581	•	5	22	43
	50 and over	65,486	124	-	273	39,843	25,043	24	108	71
State	2 - 9	5,886	-	332	49	1,134	3,339	54	310	668
	10 - 19	15,552	373	104	557	1,375	11,834	247	880	182
	20 - 29	16,830	417	122	585	1,658	12,422	206	1,192	228
	30 - 49	10,981	តា	•	5 7	2,833	6,848	130	497	549
	50 and over	78,201	4,181	48	8,510	7,207	44,329	1,529	10,051	2,346
Local	2 - 9	20,395	208	131	676	1,513	16,520	305	823	219
	10 - 19	29,067	79	2	497	1,591	25,792	68	72	966
	20 - 29	2,173	117	•	•	766	1,113	18	21	138
	30 - 49	13,389	594	13	661	282	11,123	32	131	553
	50 and over	8,251	585	724	1,031	1,028	3,258	291	390	944



type of Sponeor	Number of Participating Organizations	Total Funds Received (\$000)	Dues, Fees, etc. (\$000)	Assessments from Part. (\$000)	Revenue from Sales (\$000)	Federal Grants (\$000)	State & Local (\$000)	Investment Income (\$000)	Carryover (\$000)	Other (\$000)
Private	2 - 9	209	81	16	1	•		11	99	1
	10 - 19	748	114	-	154	120	221	31	73	35
	20 - 29	•	8	-	•	•	ð	-	16	-
	30 - 49	5,512	417	· 9	1,364	1,037	1,917	107	411	250
	50 and over	14,504	2,049	63	9,401	134	182	546	219	1,910
Other	2 - 9	651	199	24	6	387	5	1	28	1
4400	10 - 19	1,056	161	301	1	55	236	35	258	9
	20 - 29	720	110	•	124	95	266	10	68	47
	30 - 49	619	•	•	•	•	619	•	-	-
	50 and over	5,943	790	•	4,031	121.	673	301	25	2
Not Formally	2 - 9	4,399	449	715	151	451	· 576	167	1,851	39
Sponsored	10 - 19	1,015	169	50	7	341	345	33	44	26
	20 - 29	279	106	•	3	63	•	7	77	23
	30 - 49	317	126	23	90	44	1	9	14	10
	50 and over	39,280	10,921	637	20,403	623	1,722	1,133	3,684	157
Not Indicated	2 - 9	2,368	168	23	663	220	734	46	182	332
	10 - 19	555	15	2	50	463	•	4	13	8
	20 - 29	68	-	•	•	•	68	•	•	•
	30 - 49	115	20	2	61	•	•	4	16	12
	50 and over	309,157	40,115	6,172	172,806	260	317	12,343	46,287	30,857

[&]quot;-" Cells in which there are no observations from the survey.



TABLE 16A

TOTAL NUMBER OF PERSONS EMPLOYED DURING THE WEEK INCLUDING DECEMBER 31, 1985
BY TYPE OF EMPLOYEE, BY SOURCE OF PAYMENT: UNITED STATES, 1985-66

	Staff	Paid by Netwo	rk	Staff Paid	From Other Sou	rces		Volunteers	المدارش عادوه
Type of Staff	Pull-time Number of Persons (head count)	Part-time Number of Persons (head count)	PTE*	Full-time Number of Persons (head count)	Part-time Number of Persons (head count)	FTE*	Pull-time Number of Persons (head count)	Part-time Number of Persons (head count)	PTE
Professional Staff				·			<u>.</u>	-	
Administrators	278	320	96.2	97	140	19.0	20	641	226.0
Librarians	1,843	595	230.9	129	317	65.7	7	55	11.7
Computer Related Personnel	873	29	114.2	· 23	36	13.9	0	1	0.5
Other Professionals	744	150	41.6	3	1	0.3	33	10	0.7
Library Technician/ Paraprofessional	1,017	510	189.3	173	126	57.0	36	26	2.8
Clerical Support Staff	2,453	1,372	648.9	380	449 '	111.0	102	159	43.0
Other	129	207	78.5	24	44	12.4	0	29	2.1
Total Staff	7,387	3,452	1,436.3	853	1,109	279.4	198	1,083.7	111.4
Contractors	117	215	11.4	119	142	14	0	0	0.0

^{*}Pull-time equivalents



TABLE 17A

NUMBER OF NETWORKS THAT PROVIDE VARIOUS NETWORK SERVICES OR ACTIVITIES, BY TYPE OF SERVICE OR ACTIVITY PROVIDED, USED AND PLANNED, BY NUMBER OF PARTICIPATING ORGANIZATIONS: UNITED STATES, 1985-86

			Type of Service or Activity											
	Number of Participating	Total Number of	Cir	culati	.con	Techni	ical Se	ervices	Reference	/Info.	Referral	Resource Dev. & Sharing		
Type of Sponsor	Organizations	Networks	Provided	Used	Planned	Provided	Used	Planned	Provided	Used	Planned	Provided	Used	Planned
All Networks		760	509	502	56	452	435	77	593	572	63	615	597	47
Total	2 - 9	152	100	98	, 8	94	90	15	94	91	15	127	122	12
	10 - 19	174	118	118	5	99	96	10	136	131	7	139	137	7
	20 - 29	90	63	63	11	66	65	12	74	72	10	71	66	8
	30 - 49	111	54	54	14	40	38	16	80	79	10	88	88	6
	50 and over	233	174	170	17	152	145	25	208	200	19	191	186	14

		<u></u>							Type of Service or Activity								
	Number of Participating	Total Number of	Cam	unicat	ion	Professio	nal De	velopment	Deliv	ery Ser	vices	Cooperat	ive Pu	rchasing			
Type of Sponsor	Organizations	Networks	Provided	Used	Planned	Provided	Used	Plarmed	Provided	Used	Planned	Provided					
All Networks		760	412	404	84	678	654	24	451	426	25	342	331	40			
Total	2 - 9	152	44	45	20	121	112	6	95	85	5	64	61	7			
	10 - 19	174	77	77	16	147	149	3	90	88	2	91	91	3			
	20 - 29	90	55	53	13	78	72	9	55	50	9	41	38	10			
	30 - 49	111	63	63	9	107	102	4	73	71	4	38	38	5			
	50 and over	233	174	166	24	225	220	1	139	132	6	110	105	15			

(continued)

TABLE 17A (Cortinued)

NUMBER OF NETWORKS THAT PROVIDE VARIOUS NETWORK SERVICES OR ACTIVITIES, BY TYPE OF SERVICE OR ACTIVITY PROVIDED, USED AND PLANNED, BY NUMBER OF PARTICIPATING ORGANIZATIONS: UNITED STATES, 1985-86

			Type of Service or Activity											
	Number of	Total	Storage	:/Warel	ousing	Consulta	ntion S	Services	Re	cordkee	pi ng	Network Development/ Marketing		
Type of Sponsor	Participating Organizations	Number of Networks	Provided	Used	Planned	Provided	Used	Planned	Provided	Used	Planned	Provided	Used	Planned
All Networks		760	172	165	18	569	543	21	472	442	15	427	398	24
Total	2 - 9	152	45	39	. 6	101	95	· 5	95	85	6	55	49	5
	10 - 19	174	47	44	2	117	114	1	112	109	1	92	89	3
	20 - 29	90	34	34	5	68	63	7	68	63	4	48	43	9
	30 - 49	111	14	14	2	96	94	3	57	55	2	66	64	4
	50 and over	233	32	33	3	192	183	4	143	134	1	168	155	2

				Тур	e of Servi	ce or Activ	ity		
	Number of	Total		nagemen nistrat nuter S	ion	Other Services/Activities			
Type of Sponsor	Participating Organizations	Number of Networks	Provided	Daed	Planned	Provided	Used	Planned	
All Networks		760	332	313	44	38	38	12	
Total	2 - 9	152	62	56	12	7	7	5	
	10 - 19	174	56	54	10	11	12	1	
	20 - 29	90	43	40	8	5	4	3	
	30 - 49	111	43	42	5	3	3	2	
	50 and over	233	127	120	10	13	13	1	

Table 1. Number of cooperative library organizations, by general characteristics and by organizational type and number of participants: United States, 1977-1978

				10/m0E	0 0 006VV	24710ms. 0	, REMEMBE CA	MACTERIS	7105	
	ORGANIZATIONAL TYPE	707AL WANGER	A0#1H1ST	84710W 1/	MAS NEAL	DOUARTERS	HAS PAREN	17 AGENCY	HAS WEITTE	-
	PARTICIPANTS	0064- H12471045	PUBLIC	PRIVATE	YES	***	YES	140	YES	₩0
_	(11	(2)	(3)	(4)	(\$)	(6)	(7)	(0)	(0)	(10)
1	ALL ORGANIZATIONS	600	342	195	432	176	275	333	484	124
2	49 PAD OVE4	109	131	40	171	10	•3	96	150	31
3	30-39	46	25	•	3)	15	10	27	38	•
٠	50-50	71	37	17	45	26	30	. 43	53	16
5	10-19	172	105	44	100	64	69	103	136	34 33
•	2-4	176	••	45	77	\$3	•	•	•7	23
7	**PUBLIC*	342	362	•	309	\$3	184	170	201	73
•	40 AND OVER	-121	131	•	125	•	70	61	104	27
•	50-50	2 5 77	25 37	:	23 24	5	11 20	17	ŠŠ	3
10	19-19	1 15	104	:	<u> </u>	ะวั	5 1	94	31 64	zi.
įż	5-4		64	:	**	19	25	25	55	14
;;		195	•	155	92		54	101	126	20
14	49 AND OVER	40	•	40	33	. 7	12	20	39	1
15	31-39	. •	•	. •	•	\$	3			1
16	50-50	17	•	17	20	•		18	12	
17	19-19 2-9	45	•	45	27	24 10	11 23	55 22	32 35	12 10
10	*07M28*	•1	•	•	31	40	37	54	67	24
-						*-	-	-	-	_
50	90-30 44 00 038	- 10	•	•	13	•	11	7	15	,
55 51	50-50	12	•	•	•	1		12		•
	10-17	ż		•	:	iī	•	16	12 20	•
-	2-9	51				iė		iż	12	•

1/ EXCLUNES THOSE ORRANIZATIONS THAT BEHORTPD ADMINISTRATION AS MOTHER

_			-	D064H1247	1045. BY	C. HERAL, CHAI	467EB1571	C5CON71M	Æ0			
MENDERS.	IP TYPE	COMPUTE	- queenay	FREGUE	WC7 NF NP	FP01741			MEA SERVE	•		
SINGLE	MULTI- TYPE	765	40	D41L7	0N- 601N6	MEETINGS. ETC., MILT	610myr	STATE- UIDE	MUL71- 5747E	MATTON- UIDE	INTER- MATIONAL	
(11)	(12)	(13)	(14)	(15)	(16)	(17)	(19)	-(16)	(20)	(21)	(55)	<u> </u>
195	413	354	252	442	•4	94	437	103	94	7	7	1
22 20 70 74	147 37 51 102 54	131 27 37 45 46	50 19 34 77 64	146 P4 45 100 92	13 6 7 27 15	10 12 19 37 P0	119 75 94 131	40 7 27 21	12	2	1 1 2	3
100	253	211	151	311	ನ	26	240	77	10	•	3	7
10 4 17 45 31	115 21 24 60 33	92 10 20 30 27	19 9 17 49 37	125 21 11 42 52	10 5 5	13 8 13	90 19 P7 43	32 \$ 7 16 17	7 1 1 6	2	1 2	10 11 12
62	•3	40	40	94	24	35	192	15	Jè	5	•	13
\$? 5 19 31	35 7 17 25 14	64 6 8 8 8 8	12 3 9 19	31 4 10 15 36	1 11	3 3 6 10 8	14 6 11 29 49	\$ 1 7 2	15 2 5 8	1	1	14 15 14 17
24	47	44	47	37	17	37	76	11	•	•	•	10
12 6 13	17 9 15 17	11 5 7 13 11	7 7 4 10	16 3 4 11	\$ 2 9	11 6	13 10 16 10	3 1 4	1	•	•	52 53 51 50

Table 2. Total number of participants in cooperative library organizations, by category of participants and by organizational type and number of participants: United States, 1977-1978

TREAM TATTINAL TYPE	707AL MINGEO			CATE	URY OF PART	1C1PANT		
AND NUMBER OF PARTICIPANTS	0F	COLLEGE DO	SCHOOL	PUBLIC	LIGRARY		\$747£	
	PANTS	LIBRARY	LIBRARY	CENTRAL	BRANCH	LIBRARY	LIBRARY	OTHER
(1)	(2)	(3)	(4)	(9)	(6)	(7)	(8)	· (9)
At 4 . 000 Aug 04 04 04 04								
Tr umenisesions	37.148	4.999	3,395	4-191	. 2.770	8.122	405	
40 4WA QVER 30_70	25.810	5.344	3.094				445	2.29
30-14 20-20	1.441	257	124	4.553	2.442	4.029	784	1.57
10-19	1.404	417	72	474 552	97	354	34	20
7.0	5.753	485	Ż	601	.79	373	17	17
·-•	746	300	25	241	130 31	405	. 47	24
				•		150	. 53	-
INL!	19.230	2.541						
	1.418.34	5.301	2.550	4.482	2.259	3.749	>20	
48 440 0468	15.784	1.900	2.364			•	744	1.39
31-39	Rea	04	61	4.961	2.007	3.361	173	94
28-29 14-19	490	176	34	34? 454	64	95	• •	140
2-0	1.437	264	5	493	30	•3	ě	
604	169	110	ii	102	100	165	53	13
		- - -	• • •	146	30	35	10	
Ply47E=								-
••••	19.>27	3.965	301	974	451	3.725		
48 AND DVER	4.454			• • •	431	31735	144	457
30-70	70874	3.301	267	801	416	3,204		
20-50	194	73 176	11	75	77	111	67 36	504
10-19	490	275	10	•	j	iėš	7	9
2-9	264	140	•	54	26	130	1	•
•			,	31	. 1	57	• • • • • • • • • • • • • • • • • • • •	74 24
ruen-				•			•	~
	7.487	493	534	645				
40 AND DUES		-	-	-	64	684	33	244
34-39	1,544	163	447	461	10	•••		•
20-29	401	100	26	57	iž	104	24	120
10-10	400	67	26	49	35	15e 135	•	94
8-9	314	173	10	50	~~	177	3	44
	15>	54	•			×	ş	37 21

Table 3. Median and mean of funds (excluding pass-through funds), operating expenditures, and paid staff in cooperative library organizations, by organizational type and number of participants: United States, 1977-1978

### ### ##############################	(FTE)
### ### ##############################	HE G
ALL GRGALITATIONS ARE REALLY SPENSON BAZINE SIZES AND ZERO AND OVER THE SPENSON BAZINES SIZES AND ZERO AND OVER THE SPENSON BAZINES SIZES AND ZERO ZERO AND ZERO ZERO ZERO ZERO ZERO ZERO ZERO ZERO	100
### 10 PVEB 31-18 31-18 100 31-19 31-19 40 AND DVEB 31-19 31-19 40 AND DVEB 31-19 31-19 31-19 40 AND DVEB 31-19 3	
### OVER	
### AND COVER 140 \$143,463 \$404,270 \$130.815 \$476.320 \$4.0 \$73.740 \$131.804 \$73.742 \$137.320 \$2.0 \$137.320 \$2.0 \$137.320 \$2.0 \$137.320 \$2.0 \$137.320 \$2.0 \$137.320 \$2.0 \$137.320 \$2.0 \$137.320 \$2.0 \$137.320 \$2.0 \$137.320 \$2.0 \$137.320 \$2.0 \$137.320 \$2.0 \$130.407	
370-18	•.:
20-29 10-10 117 12-10 117 12-10 117 12-10 117 12-10 117 12-10 117 12-10 117 12-10 117 12-10 117 12-10 117 12-10 117 12-10 117 12-10 117 117 117 117 117 117 117 117 117 1	
10-10	15.9
170 170	6.0
### ### ##############################	4.0
######################################	5.1
## Aur nuts ## Au	4.4
## Aur nuts ## Au	
## AND TYPE ## AN	
131 131	10,4
Page	100
10-10	15.9
10-10 2-0 104 344.000 404.572 410.572 410.572 410.573 410.573 410.573 410.573 410.573 410.573 410.573 410.573 410.573 410.573 410.573 410.573 410.573 410.573 410.590 410.573 410.590 410.	
### ##################################	10.7
### ##################################	9.1
	7.4
154	•.1
46 Ann 70FE	
70-70	5.6
70-70 70-70	•••
10-14	10.0
10-10	
2-0 at 15-42/ \$74-104 43-446 \$75-700 2 17-500 01 0407 000-400 \$45 042-800 2 18 442-214 \$372-000 \$42-020 02-00-137 2-0 310-30 12 \$40.00 \$47.507 \$100 \$51.745 10-10 10-10 27 1-00 \$47.577 - \$72.146 2-0 2-0 27 1-00 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$	1.7
174EP* B1	1.0
07-400-07	1.2
### ##################################	1.3
40 Avn gugu 1A 942-214 9377-000 942-929 9290-137 2.0 20-30 17 9900 947-597 9100 951-765 10-10 17 994-577 972-146 2-0 27 7-50 972-000 910 910	
30-36 12 42-210 4379-000 442-020 0200-137 2-0 20-20 12 4000 447-507 6100 451-765 10-10 17 594-577 592-146 2-0 27 7-40 592-000 416 110 600	3.9
78-29 17 49-8 47-597 6180 451-745 7-8 7-	
70-70 17 - \$74.577 - \$72.166 - \$74.577 - \$72.166 - \$74.577 - \$72.166 - \$74.577 - \$74.5	
10-10 27 1-50 592-106 316 572-106 316 572-106	13.9
7-4 977:004 614 614 614	5.0
	. 7
21	1.9

Table 4. Number and percent distribution of paid staff in cooperative library organizations in full-time equivalents (FTE), by position and by organizational type and number of participants: United States, 1977-1978

	7074		_			P410	STAFF	(F7E)					
ORGANIZATIONAL TYPE AND ALMRES OF	9410 574FF				PROFE	SSIONAL				L1894		T	
Participants	(FTE)	40m1r 157ma		LIMPAO	1445	CO-PUI RELATED		OTHER FESSI		AND PAR FESSIO	APEN-	AND SI	
	ł	707AL	•	707 4 L	•	7074	•	7074	•	TOTAL	•	707AL	•
(1)	121	(1)		(4)		(5)		(b)	[_0	<u>'1</u>		• •
ALL OHGANITATIONS	5.100.1	448,4	4.0	1.152.7	27.ú	150.0	3-1	170.1	3.3	935.1	10.3	2.275.0	47.8
AR AND OVER	2.947.4	768.7	4.8	606.9	20.6	147.3	5.0	109.2	3.7	599.7	20.7		
30-39	314,6	20.7	9.6	57.4	10.0	0.3	0.1			32.4	10.2	1.774.7	
20-79	311.5	~1.n	17.4	05.1	25.7	>.0	0.4	9.5	2.9	44.7	13.9	199.6	
10-19 2-0	400.3	40.1	4.4	248.5	27.6	4.2	0.5	29.4	2.3	123.9	13.6		44.6
7-4	402.3	J#.n	A.4	154.A	24.7	5.0	0.0	22.0	5.7	132.0	22.1	414.2 249.8	
PINLICE	3.848.7	124.5	4.5	976.3	25.1	24.4	0.6	93.2	2.2	706.0	20.3	1.675.4	43.3
48 AWN DVER	1.473.9	140.1	9.1	574.4	• •								
77-39	749.2	21.7	4.1	50.9	24.0	15.3		₽7.€	1.4	491.1	24.9	785.3	
20-79	301.7	33.9	11.6	40.3	26.6	n.j.		. :	. :	23.9		172.4	
10-14	617.1	67.0	4.3	217.5			0.7	6.5	2.2	45.7	15.0	177.0	44.3
7-9	520.4	25.0	5.6	132.0	29.0 25.3	7.4 4.9	6.1 6.4	29.7 19.9	3.6	111.1	13.4	740.0	44.1
190 [y&1]	849.9	4	9.7										
••			4.7	121.0	13.4	171.3	15.3	43.4	7.6	116.4	13.4	173.2	30.3
40 AND DVER	7>2.9	76.8	4.1	93.0	17.9	131.0	10.1	70.0					
70-34	15.5	3.0	19.4	2.0	12.9	1,1100		79.2	11.0	#6.0	11.7	274.9	30.0
20-29	17.0	5.1	30.0	2.0	11.4	_	:	3.0			51.6	2.5	16.1
10-19	57.5	1.9	14.0	6.7	17.5	4.2	0.4		17.6	1.0	5.9	5.9	34.7
>-4	41.0	٧,4	15.7		20.4	^.1	0.2	0.1 1.1	1.0	16.9	27,4	33.4 16.1	43.2 26.4
MTWEP#	141.5	35.5	9.0	. 61.4	17.0	7.6	0.7	3.5	1.0	32. 1	٠.,	204	
40 440 OVER	***					•	•••			***!	4	226.4	•z.•
30-39	240.6	21.1	4.4	39.3	15.7	1.0	0.4	2.5	1.0	22.4	9.0	144.1	45.5
20-29	13.9	4.0	11.0	4.5	17.7	-	•		•	-0.3	1.5	24.9	73.5
10-19	12.4	2.0	15.6	2.A	21.9	•	•	•	_		•••	9.0	42.5
7-9	43.7	ž. ?	11.4	•.2	21.3	1.6	7.7	•	•	4.0	18.3	19.6	44.9
		3.,	15.6	5.5	24.8	-	-	1.0	4.9	1.6	4.9		47.8

Table 5. Number and percent distribution of non-peid staff in cooperative library organizations in full-time equivalents (FTE), by position and by organizational type and number of perticipents: United States, 1977-1978

		1				404-	≥21U 21	TAFF (FTE)				
1054417411044L TYPE	1074L				PROFE	1510w4L				L1904			
papillipant? and simple de	97AFF (F7F)	40m14 151841		F180701	ANG	RELETEU		OTHER !		AND PAR FESSIO	APRO-	440 St	
]	TOTAL	•	70TAL	•	701AL	•	701AL	•	T014L	•	701AL	•
(1)	(2)	(3)		(4)		(5)		10	<u> </u>	17	')	,,))
<u> </u>	749.6	47.9	12.7	499.4	65.0	11-1	1.4	11.?	1.5	76.9	10.3	49.7	9.1
	-	_	•			•						_	
48 AMS GUEP 34-34	300.7	16.0	5.5	200.2	59.5	1.0	6.3	6.? 6.1	••1	1.1 0.8	3.4	9.3	3.0
20-29	21.7 74.5	41.3	4.6	13.9	47.6	1.5		3.6	1.6	15.8	21.2	• • •	
10-19	>17.7	-2.9	24.6 [4.4	112.1	46.2	4.5	1.0	2.1		37.4	14.7	13.4	2.4
2-9	129.3	14.0	11.4	61.7	47.7	5.2		5.7	1.7	23.4	13:1	19.6	14.4
	.,,,	,.,,	*100	•	٠.,.	7		700			,	1 ***	,
	444.0	44,7	14-1	310.9	71.6	2.3	0.5	5.0	1.1	. 25.4	5.4	47.5	10.7
48 840 DUEW	249,6	5.5	>.2	234.9	94.9	1.4	6.4		0.1	1.9		5.1	2.0
10-10	4.8	8.4	4.0	2.4	35.3	٦.١	1.5	-	•	0.3	4.4	3.4	50.0
20-29	10.9	1.9	11.6	7.4	45.0	•	•	•	•	6.>	36.7	1.2	7.1
18-19	117.4	31.>	24.6	49.	41.6	6.Y		1.8	1.0	15.1	11.7	22.>	10.9
2-9	44.1	>.5	14.5	24.1	44,5	6.3	8.4	3.6	6.7	5.6	۹,۶	15.4	76.6
1901Y47F#	271.4	J5.1	15-1	171.0	56.4	7.4	3.4	4.1	1.6	43.4	10.6	٠.5	4.1
48 AND DYES	55.0	10.7	14.3	43.1	17.5	-	-	•	•	0.1	6.2	2.2	4.0
14-14	12.0	6.4	5.0	7,4	73.3	-	•	0.1		-	-	2.5	20.0
20-29	37.4	6.7	17.0	14.5	49.2	4.3		2.1	5.6	1.5	25.3	6.5	1.3
14-19	71.2	10.4	14.7	41.7		>.7	3.7	0.5	.7	10.7		1.4	1.9
>-9	43,4	7,0	13.1	19.9	37.3	4.4	4.5	1.4	2.6	17.1	¥.4	2.9	5.4
-01 -4-9 -	42.4	10.1	19.5	49.1	53.0	•••	1.9	2.1	2.3	9,7	10.5	17.7	13.7
46 445 GVE	4,3	1.>		1.1	25.6	•	-	•	-	-	•	2.0	46.5
30-34	4.4		14.5	2.7	61.4	n-1	2.3	•	•	9.5	11.4	0.3	6.0
20.24	20.0	12.7		5.4	2A.0	•	•	1.5	7.5	0.1	0.5	6.1	1.5
10-19	42.1	1.1	>.6	22.0	5>.3		1.9	0.4	1.0	6.0	19,0	9.A	23.3
>♥	>1.0	4.3	10.0	17.7	#1.2	-	-	0.2		1.1	5.0	0.5	2.3



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Table 6. Amount and percent distribution of funds in cooperative library organizations, by source of funds and by organizational type and number of participants: United States, 1977-1978

_					SOURCE	OF FUNDS	
	Deganizationer Traf dec munite De Deganizationers	7074_ FUNDS (14CLUS146 PASS_THROUGH)	TOTAL FINDS (EXCLUDING PASS—THROUGH)	PASS-7HRQUGM FUNDS	DUES AND FEES	AggEggeE415	SALE OF PROD- UCTS AND SERVICES
	a)	(2)	(4)	f4) ·	(5)	(6)	(7)
		•	-	AMOUNT OF FINDS		_	
1	ALL (MANIZATIONS	\$103.407.174	\$101.440.054	912.796.327	96.492.931	\$2.235.444	\$24.733.152
2	44 ALD DYFR	5141-783-418	?331-406-176	\$18-377-448	94.538.240	8993-997	\$23.576.434
,	30-39 20-29	90.877.435 90.877.423	44.769. 99 4 57.735.088	\$197.731 8352-335	\$149.322 \$335.368	\$1\$\$.304 \$60.551	5373.986 8157.748
•	10-10	423.7A4.184	42730-153	\$#54.95]	8803.718	\$488.445	4482,537
•	2•♦	411.562.464	\$11-129-539	9432.965	\$666.291	\$584+163	9227-547
7 -	PURLIC*	5148-991-434	\$135.44[.37]	15.510.463	81 c *9+327	\$1.402.187	¥2.259.913
	48 AND OVER	684.001.459	491-963-363	94.710.496	\$1.114.173	8719-824	\$1.579.291
•	30-39	87-434-073	\$7.242.202	\$157.731	949.64	\$157.764 \$40.551	8725.419 438.389
10 11	20-29 10-19	87.407.785 47.407.57	54.859.786 829.475.884	\$143.519 \$233.503	\$147.72\$ \$507.013	8395-857	8795.404
iż	2-4	89.166.069	59-048-046	\$124.414	\$69.767	8118-178	9555-515
13 -	-0 1747E=	\$43.449.892	937 -939-59 5	56.438.497	4.302.153	\$718-675	122.146.784
14	48 AND DVEP	\$38.774.744	832-845.563	45.920.1A1	83.355.787	5224-188	621-651-421
15	30-34	\$734.444	\$/36.444	•	\$43.472	•	\$148.71A
14 17	20-2 9	\$99.297 \$1.643.612	184.98L2 SIC.4C4-12	5788.416 57.101	\$144.326 \$193.778	\$81.493	\$37.527 \$102.203
j ii	5-4	\$1.916.195	\$1.024.795	5291-488	\$522-678	\$411-982	85-375
10 -	074E##	59.734.458	54.476.888	8757.767	\$382-451	\$114.687	\$332-455
20	AR AND DUES	\$4.027.497	56-697.244	\$230-163	568-366	\$48+871	5247-122
? 1	30-34	\$411.148	5011.169	•	456.004	5600	\$350
52 55	20-2 9 10-1 9	\$485.421 \$533.005	4444,421 8519. 9 57	513.46A	\$1.386 \$182.935	\$11-180	\$40.722 \$4.650
24	8-9	\$479.749	8044.500	414.451	\$73.844	\$54.911	•
			PERCENT OF T	OTAL FUNDS (INCL)	,0146 PASS-7HRO	UBM3	
1	ALL 00GA417871045	100.00	9J.76	4.36	3.38	1.15	12.77
	en and dyen	- 100.08	92.68	7.32	3,28	.70	16.63
5	30-30	108.00	97.91	2.89	1.66	1.21	4.17
٠	20-20	100.00	95.64	4.36	4.15	.79 2.10	1.44
8	2-9 10-14	100.00	90-3V	3.60 3.74	3.45 5.76	5.65	1.67
7 -	PURLIC"	188.40	94.59	3.41	1.34	. •••	1.60
	48 AND DVER	100.80	95.61	4.39	1.14	.75	1.54
•	30-30	100.80	9/.47	2.53	,67	1-45	3.03
18	20-29 10-19]48.08]40.88	97.95 96.89	2.05 3.91	2.11 2.38	.66 1.66	.49 1.39
15	5-4	100.00	90.67	1.36	.76	1.29	2.42
13 -	-P0 [v476"	100.00	A2+14	14.81	٠.٠٠	1.65	50.93
14		100.00	94.71	15.20	9.65	•50	\$6.35
15	30-79	100.08	140.48	•	5.43		20.13
]6]7	20-2 9 20-29	100.00	43.18 94.37	34.98 .63	31.14 13.42	5.45	5.60 7.0 9
i÷	5-0	100.00	94.79	15.21	27.28	21-48	.24
10 -	-07HE==	148.88	97-21	2.79	3,27	1.24	3.68
28	49 450 DYFR	100.00	94.69	3.38	,••	.69	3.57
21	30-39	100.00	100.00	•	6.98	•87	. 84
22	20-20 10-10	16.08 160.68	190.88		19,31	2.50	10.54
52			97.55	2.48	14.31		. • 7

Table 6. Amount and percent distribution of funds in cooperative library organizations, by source of funds and by organizational type and number of participants:
United States, 1977-1978 (Continued)

			COUNCE OF F	LINDSCONT I WIED				
	9.0	MITS	l = ====	INCOME FROM				
FENERAL BOYERWENT	STATE AND LOCAL BOYFOUNENTS	Foundarious	07HE# 80ANTS AND CONTRACTS	STOTE AND LOCAL TARKS	INVESTMENT INCOME	CARTOVER FUMOS	OTHER FUNDS	
(9)	(9)	(16)	011	(12)	(13)	(14)	(15)	
			AMOUNT OF	PURDSCONT INCE				
\$\$1.649.154	844.471.144	9942.819	6714,393	\$20.306.072	\$1.893.789	511.054.321	94.286.643	1
\$42-112-655	********	4547.283	4999,751	57.530.663	61.256.183	57.051.976	\$2.321.507	Ş
\$1.311.720 \$2.5>>.9+5	64.146.247 61.904.320	\$10.400	\$25.05\$ \$22.324	\$872, 9 49 \$2,942,92]	\$115.750 \$53.329	\$1.305.972 4449.957	4350. 59 5 2141.071	3
84.044.897	45.774.000	\$43.898	\$34,445	80.019.433	9420.423	51.842.864	9538.747	5
\$1.644.767	94.493.44?	4378.838	508.316	51.062.5%	\$30.824	\$325.552	\$834,723	٩
104,765,748	\$51.209.275	4250.207	4634,458	517,296,943	4925.699	57,692.020	\$3.837,761	7
540.494.6>3	475.394.40]	4278.448	5112,495	\$5.773.170	1350.360	84.749.445	51-451.092	
\$1.120.003	63.940.241	-	425.055	\$431-191	500.342	5950.497	\$705.151	
62.304.940	41.753.430	529,498	614.026	52,642,68] 57,456,654	948.518 9484.445	\$277.89j \$1.445.67j	5]54.64] 5484,473	10
43,447,984	94.472.846	849	434,445 563,337	51.573.144	\$23.004	\$259.016	8748,484	iż
					1799.287 -	\$2,566.000	1950.34>	13
61.754.021	444442	9474+912	9429,735	67.248.234		-		
6919.888 6122.564	4636.444 4149.844	4541.833	\$417,256	\$1.765.576	\$758.441 \$7.888	5) (846 - 957 5263 - 462	\$034.330 \$2.520	14 15
491.205	-1441444	510.040	57.500		53.794	452.499	84.430	16
\$104.615	\$57.006	\$12.210	•	5500.645	872-272	\$337.035	\$70.745	17
8117.557	471.0/4	4370.749	84,970	\$2.037	\$15.438	845.135	\$00.319	14
41.877.477	44.347.529	497.000	530,000	5741.443	5160.723	51.576.213	\$218.570	19
\$494.887	44.075.274	\$95.800	\$30,000		\$147.374	\$1.255.074	936.885	20
444.353	447.0n4	•	•	5391.758	510.340 47.625	\$163.813 \$119.367	962.916	51
6]26.900 \$87.564	4] 40 . p=0 44. j=7	42.800	:	562.514	\$1.956	559.350	\$113.519	23
641.969	•	•	•	4247,371	•	960]	54.810	24
		PEGCENT	OF TOTAL FUNDS (NCLUD NS PRSS-7	ndfOlj&m) ===CONT] NJ	€D		
74.44	24.13	•51	.37	19,48	.,,,	6.12	2-17	1
29,70	20.26	.39		5.32	.09	5,54	1.64	2
14.61	44.18	-	.20	9.17	1.29	15,44	3.91	3
31.70	23.55	12	• 50	25.51	.66 1.84	5.56 7.91	1.99 2.31	•
17.3a 14.32	24.81 38.87	2.19	.17 .59	16.11	7:52	2.02	7.22	•
34,94	36,32	.10	•10	12.27	.66	5,44	>,15	1
•			_			0,94		
42.15 15.00	34.83 53.03	.53	.12	4.81 5.80	76. 1.32	12.00	1.51 3.84	
32.94	25.04	•	.21	24.44	.54	3.67	2.24	10
14.03	24,,54	41، ده	•10	34.99	1.**	4,78	1.40	11
14.32	48.74	. 88	•••	17-16	.24	5.03	A.00	11
3.12	1.00	1.46	.99	5.22	1.64	5,90	2-19	13
2.37	1.64	.62	1.00	4.55	1.94	4,76 35,77	2.15 .34	14
14.64 15.24	20.23	1.47	1.25		.63	0.01	.74	ii
7.32	3,44	. 05	•	34.49	1.54	23.41	1.44	11
4.13	1.10	10.35	.76	•11	.03	3,40	4.61	10
11,13	47,67	1.05	sc.	0.03	1.03	17,30	2.37	19
10.03	54.03	1.37	.43	. •	5-15	10.12	.52	20
8.43	7.03	•	•	40.30	1.20 1.06	20.14 24.57	7.76	51 51
25,71 19,31	31.06 12.67	ăc.	:	11.73	.37	11.14	21.30	. 51
8,76			•	59.96	•	.13	1.25	24

Table 7. Amount and percent distribution of total funds from selected grants from Federal government and \$tate and local governments, by type of cooperative library organization and by State: United States, 1977-1978

				MANTS FROM	FEDERAL BOVE	BHPENTO		
	787AL GRANTS		Pull 1	E	PRIVA	TE	9114	•
STATES AND D.C.	FROM FEDERAL 19747E AND LOCAL BOVERNMENTS	TOTAL PEDERAL GRANTS CONTRACTS	Ampunt	PERCENT OF TOTAL FEDERAL	Angunt	PERCENT OF TOTAL FEDERAL	AMBUNT	PERCEN OF TOTAL FEDERA
(I)	(8)	(2)	(4)	(\$)	(0)	(7)	(0)	(9)
LAGAMA	995 1-190	3102-956	\$100.056	96.7	\$2.666	1.1		•
Låskå Bizomå	561,688 25,582	\$33.300	\$33.300	144-9	•	:	162.000	100.0
DE ANGAG	9344.567	\$201.503	1761.193	150.0	:	-		
AL IFORNIA	\$6.576.467	12.643.857	\$2.639.357	99.9	-	•	\$4.500	•
00.00400	5641.550	5543.965	\$523.923			:	\$20.042	3.
ONNECTICUT ELANADE	\$233,176 \$16,242	\$175.876 \$14.242	521.526 516.742	12.3	\$104-150	59.3	••••••	20.
ABHINGTON. D.C.	\$42.782.663	\$31.549.500	\$31.491.275	99.7.	\$57.820	.2	-	
LCATDA	\$376,486	6354-854	\$329.627	100-5	•	•	•	
E04614	4503.686	8503-000	\$134-193	24.7	8322.006	66,8	344.095	٠.:
Aba[] Da=0	\$8.617.384 9396.529	\$436.403 6147.629	9436.493 9182.629	100.0	:	:	:	
LLINOIS	99.612.613	97-117-592	\$1.633.052	77.1	\$72-162	3.4	9412.358	19.
NO TANA	4862,567	\$662-500	2638,974	70.5	544.972	i.i	6165.643	iż.
004	\$745,495	5391 - 796	\$379.696	94.9	215-100	3.1	•	
Angag . Entucky	6319,997 6248,873	\$127.147 \$124.261	\$167.747 \$126.281	88.7 188.8	\$14.466	11.6	•	•
OU ISTANA	\$100.000	6166.666	\$173.666	94.1	:		67.666	3.
AINC	971,000	633.000	\$3.000	0.1	\$30.000	90.9		
AB YL ANN	\$2.471.027	\$331+156	9331+158	100.0	•	•		
ASSACMISETTS ICHIGAN	\$679,793	0201.054	#123.666 \$906.616	43.6	\$146.833	\$2,5	010.021	3,0
INNESOTA	52.362.756 92.561.636	5064.416 5064.457	6430.085	100.0 97.0	:	:	875.445	12.
1581581991	417-1115	-	•	4	-	•		•
19901#1	4296.667	8272+769	\$237.570	67.1	\$9.855	3.6	425.258	
ON TONA	0177.852	697-153	\$97.153	100.5		. :	-	•
EBBASKA Eb Hampswidf	9304,368 9103,394	6386·304	9706,394	94.7 94.1	516.666 54.666	3.3	•	•
ED TEURFA	9161.666	6161-166	\$101.100	100.0	3-1000	3,	:	
E= ME = 1CO	879,494	•	•	•	•	•	•	
EP ADDK	818.448.659	6784.548	9416.765	77.8	\$89.672	11.5	883.971	10.
MATH CAROLINA MATH DAKOTA	\$1.753.669	2004.754	5444.654	100.0	•	•	•	•
mio mio	91.411.941	\$1.000.41	91.000.627	94.1	\$34.055	3.4	020.420	,
KL Andwa	5276,196	\$151-715	\$191.718	100.0		"		
#EG?N	834,208	\$14.000	\$10.000	100.0	-	•	•	
Erneapania	\$2.151.757	\$\$\$4./20	8413-201	74.6	\$131.464	23,5	613,661	> .
HODE ISLAND	9966.498	8221+349	1771.440	100.0	•	•	•	•
OUTH CABOLINA	877,756	\$73.300	\$73.309	100.0	414.655	14 E	•	•
OUTH DAKOTA Enneasee	\$219,922 9275.666	8155-529 8155-544	950.529 9150.666	100.5	\$10,000	16.5	:	'
[149	\$4.437.345	12.506.304	\$2,36,34	93/4	6150.249	4.3	67.669	_
7 Au	9500	•	•	-	•		•	- 7
EBMONT	5000	49.50	49.644	:	•	•	-	•
ioginia Ashington	\$35,666 \$1.235.041	57.966 \$430.395	\$7.966 \$344.945	166.0	•	:	245.458	18.
EST VISSINIA	\$172.205	0155-508	\$122,205	100.0	:	•	•	
ISCONSIN	\$1,996,443	8481+683	\$225.600	01.1	\$78.848	10.9	•	

Table 7. Amount and percent distribution of total funds from selected grants from from Federal government and State and local governments, by type of cooperative library organization and by State: United States, 1977-1978 (Continued)

	ntinued)	-00 COO	2 Avr 1 Avr : -				
			E AM LOCAL (T		
TOTAL	PINC!	16	PR 144	LTE.	9714	•	\$747E\$
STATE AND LOCAL	4=0UN7	PERCPUT OF TOTAL STATE/	Ampunt	PERCENT OF YOTAL STATE!	Ambunt	PERCENT OF TOTAL STATE!	AMO D.C.
884-75	1 1	LOCAL	1 1	LOCAL	1	LOCAL	
(10)	1 00	(15)	(13)	(10)	(15)	(36)	(17)
0359.134	\$377.872	91.6	931.062	A.o		•	AL ABAMA
836.808 856.658	129.625	100.0	•	•	\$35.000	100.0	alasta Arizona
\$142.914	\$142.014	100.0	:	:	:	:	9849A28
\$3.284.950	\$3.244.550	100.0					CAL IFORMIA
\$317.585	4194.696	61.3	929.973	1.4	\$93.016	29.3	COLORADO
957.500	•	•	957.880	99.1	0500		COMMECTICUT
\$11.237.90	911.232.904	100.0	•	•	•	•	DEFTARE
844.659	\$44.459	100.0	:	:	:		WASHINGTON, O.C FLORIDA
•	•	•••••	•	-	-	•	8E09614
07.594.851	57.544.891	190.0	•	•	•	•	MÅY-11
\$213.700	4213.700	100.0	•	•	•		10440
97.495.821	55.494.863	75.4	•	•	\$1.010.954	24.2	ILL1401S
0354.050	4354.899	100.0	:	•	•	•	1044 1044
\$217.050	4217.050	100.0	:				g44505
\$120.452	\$120.502	100.0	-	•	` -	•	RENTUCKY
	•	•	•	•	•	•	LOUISIANA
\$39.000	934.000	100.0	•	•	•	•	må 1 NE
\$2.140.669 \$397.939	57.148.AA+ 9397.934	100.0	•	•	•	•	MARYLAND
\$1.454.346	91.454.346	100.0	:	•	:	•	massachuseyts Michiban
01.076.530	\$1.024.649	92.4	:	-	\$150.000	7.6	#1 NAE SOTA
•	•	•	•	•	•	•••	W[55]55]0P]
\$27.457	43.451	15.4	420.000	84.6	•	•	MISSOURI
840.340	600.300	100.0	•	•	•	•	MON74NA
\$77.946	\$77.000	100.0	:	•	•	:	negalska Negalska
4500	1500	100.0		:	:		ME HOSEY
529.659	979.494	100.0	-	-	-	<u>.</u>	MEN MEATED
\$10.0 \$ 4.111	67.547.30J	75.4	5276.800	2.7	52.192.468	21.0	MER ADDR
81.799.811	\$1.200.011	109.0	•	•	•	•	MOSTA CAROLINA
\$743.021	:	•	03-3-031	:	:	•	MOSTM DAAGTA DH10
850.481	964.481	100.0	1	100.0	:	:	OKF WHOMY
\$14.208	010.200	100.0				•	OREGON
91.593.021	\$1.522.272	95.6	\$6.002	, .	844.357	4.0	PENNSYL VANIA
5484.94]	4644.967	47.1	\$14.070	2.0	•	•	MHODE ISLAND
\$4.007	84.447	100.0	•	•	•	•	SOUTH CAROLINA
\$140.303	\$150.303	100.0	•	•	•	•	SOUTH DAROTA
\$120.000 \$1.930.951	\$120.600 \$1.030.951	100.0	. :	:	•	:	temessee Texas
2500	2114241431		2500	100.0			UTAH
5600	-	• •	5444	100.0	-	•	VERMONT
527.500	527.500	100.0	•	•	•	•	VIRGINIA
5005.546	5005.546	160.0	•	•	•	•	WASHINGTON .
61.684.955	41 414 544	•		.:	•	•	WEST VIRGINIA
51.594.798	\$1.516.798	45.1	500.000	5.0	•	•	WISCONSIN

Table 8. Amount and percent distribution of expenditures in cooperative library organizations, by category of expenditure and by organizational type and number of participants: United States,

<u> 1977–1978</u>				CATEBOR	OF EXPENDITU	mt .	
ORGANIZATIONAL TYPE AND NUMBER OF PARTICIPANTS	TOTAL EXPENDITURES (INCLUDING PASS- THROUGH)	1480184) (EXCTO)48 (EXCTO)48 5924- 1018F	EXPENDITURE OF PASS- THROUGH FUNDS	Avec 2 avec 2 avec 2 aveve 162	FRINGE BENEFITS	SUPPLIES AND MATERIALS	BEPRO- BUCTION SERVICES
a	(5)	(3)	(6)	(5)	(6)	(7)	(0)
			AMOUNT	OF EXPENDITURE	5		
ALL 0864417471045	\$1+1.193.291	5129.284,473	\$11,060.720	951,990,320	\$4,602.004	\$15.996,036	\$1,293,49
48 AND DVER 38-39	\$00.272.207	100.092.2/0	\$9.340.017	\$32,305,120	\$4.264.978 8533.957	\$9.161.767 \$1.377. \$2 6	8792.05 024.97
20-29 30-39	06.590.057 07.140.512	\$6.317.134 \$6.712.035	9272.923 9436.477	\$3.202.051	\$495.010	\$952,726	092.70
10-19	\$10.547.243	\$17,105,505	\$1.361.758	48.154.785 85.573.639	5969.266 5396.793	\$2.612.947 \$1.691.878	\$265.50 \$110.07
8-9	\$10.505.082	\$10.177.529	\$417-553	23.2.3024		0,000	
-PU9L1C*	\$90.072.779	\$71.000,045	\$6.624.334	130.547.666	\$4,296.641	\$12.126.671	\$762.00
40 AND DVER	\$40.404.035	954-182-922	94,703-113	921.217.100 92.300.042	\$2.362.510	\$6.155.563 \$1.220.619	9299.49
30-39	05.516.600 96.253,208	\$5.291.105 \$4.025.>~	\$225.458 9227.661	12.070.605	5454,964	8423,003	983.00
20-29 10-19	\$16.954.875	\$15,661.417	\$1.352.458	47.302.911 94.748.520	4011.070 8322.402	62.320.955 \$1.290.651	9253.60 \$102.00
5-4	10.462.064	\$8.347,417	9115.447	441.401350	33661446		••••
	\$35.235.095	530.300.539	94,925.254	99,914,612	\$1.000.000	52,004,511	9493,1
49 AND DVFR	\$31.743.247	427.324.670	44.370.417	44,515.879	\$1.494.411	92.320.090 \$22.045	8463.4°
30-34	9452.273 9510.010	9404.005	947,460	4143.473 5148.447	154.158 111.158	821.339	97.9
20-29	\$1.135.695	\$1.124.275	09.100	9550.566	\$64.027 \$70.00\$	\$164.768 \$249.461	95.64
2-4	91.425.030	\$1.136.275	\$201.555	\$556.547	3/01003	2.00,000	V. 2.0
-07-68-	\$7.844.527	\$7.535.409	+309.038	43.536.842	\$500.294	\$1.061.654	937.6
a an and over	85.6A2.968	85.384.470	9298.487	92.612.433 9270.010	\$468.849 \$78.877	5677.306 \$134.062	929.1
30-39	9671.184 9376.497	9621.154	:	4155.719	\$14.911	97,504	\$1.0
2 20-29 3 10-19	CP4,1748	9487.443		9221.300 9208.572	99.161 99.396	\$99.224 \$142.758	96.3
5-4	9786.380	\$695,837	•10.551	1000,016	30000		
	_	PERCE	17 OF 7074L EM	ENDITUMES CLUC	LUD146 P855-71	MOUSH)	
1 ALL ORGANIZATIONS	100.00	91.59	0.41	36.84	4.68	11.33	•
S ON AND DAES	100.00	90.44	0,54	35.61	4.34	9.32	:
3 30-39	107.00	95.46 93.89	6.11	41.30	91.3	20.90 13.33	1.
6 20-29 5 10-19	100.00 100.00	92.66	7,34	47.97	4,90	15-17	1:
2-9	100.00	94,86	3,44	57-61	3.76	15.'97	•
7	100.00	93,25	6,75	30.31	4,48	12.37	•
	100.00	*2.20	7.72	34.85	3.84	10-11	
9 20-29	100.00	95.91 94.36	3.44	41.70	0.01 7.34	14.77	1.
0 20-29	100.00 100.00	97.02	7.90	43.55	4,78	14.92 15.36	į.
2 2-9	140.00	10.44	1.36	44-11	3.01	131.36	à.
13 -PR[V47E-	100,00	85,99	14.01	28.14	4.02	_	1
IO OF AND DAE	100.00	86.19		26.86 31.72	4.71		1.
30-39	100.00 100.00	09.50 59.79	48.25	24.61	4.07	4.11	1
16 20-29 17 19-19	100.00	99.20		44.48	7.04 4.90		1
A 2-9	100.00	74.59	20,45	J03	**	1	
10 -07HE8-	100.00	96.96	3,94	45.08	6,40		
20 48 AND DVER	100.00			49.97	7.16 11.41		
21 30-39	100.00			41.46	3.90	1.99	
22 20-24 23 18-14	100.00	100.00	•	48.37	2.00	21.69	t
24 2-9	100.00		1,49	34.02			

Table 8. Amount and percent distribution of expenditures in c-operative library organizations by category of expenditure and by organizational type and number of participants: United States, 1977-1978 (Continued)

		CATEM	DOT OF EMPEROUS	MECONTINUED				
	COMPUT	ER COSTS		PLANT AND				
COMPUTERS		SOFTHEE	TELE- COMMUNI- CATIONS	WENTELES GREBATION AND	TRAVEL	97160	CAPITAL	
COMPUTERS		30,100	(/)	MATERIANCE	CEPTURES	Carciol Tunes	BUTLAT	
(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	
			anay	NT OF EXPENDITUR	ES-JOHT INJED			
83.965.585	\$3.722.200	9534,000	85.234.421	94.064.996	514-059-296	817,319,973	62,862,613	1
62,493,949	83,997,784	9274,996	\$4.215.302	\$3.433.209	514+495+283	\$11,654.279	82,363,952	
5275.314 5162.276	\$114.442 \$40.453	\$40.091 \$57,446	5167.533 5266.4 49	\$266.023 \$215.401	556.576 595.116	5675. 096 53.039.673	\$112.403 \$63.765	2
4572.100	\$210.436	5125,900	\$441.846	5488.537	8173.729	82.918.784	E111-433	
9461.778	850.984	827,447	8175.741	9259.026	\$120.500	\$1.039.421	8251.748	•
52.702. 101	5724.437	6249,927	51.513.043	53,446,623	614-173,779	511.146.201	51,346.346	1
81.621.150	9435-114	503,645	500,000	52,426,124	\$13.793.852	96.003.163	5043.902	9
5214.661 5151-110	959.442 944.727	\$48.851 \$29.24	549.978 5259.789	\$174.039 \$193.09\$	842.006 874. 9 47	5660.203 5653.667	999.238 553.648	10
5530.431	8166.669	563.909	8396.175	6419.255	#155. 766	82.798.478	599.020	11
5184.013	\$29.345	574,942	\$140.307	\$235.310	0100.706	\$900.607	9251.740	22
5789.444	\$2.083.216	5114,626	\$3,296,010	4959.314	5617.547	85.261.099	81,329,647	13
\$629.073	52-063-090	544.031	83,197,414	1042.470	8574.772	84,992.396	81.309.056	14
\$45.180 \$4. 8 47	559.000 5540	:	516.503 513.408	#14.373 56.48 4	\$4.573 57.332	570.124 570.234	87.570	19 10
817.014	540.127	\$22,472	833.701	452.343	511.990	8107,560	\$11.613	ii
812-535	419.639	52.175	534.934	423.716	516-666	5131.734	•	10
8553.900	\$10.646	5149,454	5125.448	\$457.059	\$67.800	5791.713	5215-510	19
5242.918 \$15.472	53.700	\$101.500	570.006	\$344.687 \$79.611	\$35.250 \$0.107	9658.717 55.569	5199.794 55.667	20
56.311	53.366	570.196	521.040 512.032	\$15.902	512.030	\$107,770	\$10.057	51 51
524.743	51.500	539,468	820.370	\$14.030	85.751	812.457	•	23
5264.435	\$2.000	1300	5500	•	\$4.834	57-000	•	24
		etec	ENT Nº 7074L EA	PENDITUPES ITHCL	.UD146 PAS9-746	10USM) CONT 1MUE ())	
2.01	2,64	•36	3.71	3.45	10,53	12.27	2.05	1
2.54	3.36	.28	4.29	3.74	14,66	11.56	2.39	
4.19 2.27	. 1.74	.73 .88	1.67	4.0A 3.01	.04 1.33	10.26 14.54	1.71 .00	3
3.00	1.13	.40	2.43	2.43	.94	15.69	.60	
4.36	•49	•24	1.64	2.44	1.21	0.01	2.36	•
2.76	.74	.25	1.05	3-52	14,45	11.37	1.37	1
2-66	•71	•14	1.54	3.98	22.45	9.06	1.30	
3.40	1.01 .72	. 47	1.27	3.17	. • 70	10.00	1.00	
2.42 3.13	1.00	.47 .30	4.15 2.34	3.00 2.47	1.20	12.65 16.44	-06 -51	11
2.19	.35	.10	1.66	2.74	1.26	19.64	2.07	ii
2.01	8.47	.rı	9.35	2.72	1.75	15.27	3.77	11
1.99	9.83 12.85	.76	10.00	2.72	1.02	15.75	4-12	15
•••	•11	:	3.69 2.65	3·14 1·23	1.01 1.41	15.50 15.00	1.68	1
1.50	3.53	1.99	2.44	4.61	1.06	9.47	1.02	11 10
.06	1.30	.15	2.49	1.66	1.10	9,24	•	10
7.04	-14	7.16	1.68	5.03	.07	10.00	2.75	10
4.27	.07	1.70	1.25	6.04	.62	11-59	3.52	20
2.40		7.4	3.30 3.43	12.02	1.48 3.41	. 90 20.02	.91 2.67	2 1 2 1
5.41	•33	0.43	4.45	3.74	1.26	9.77	•	21
37.43	.24	. 04	.07	•	.60	.00	•	24



Table 9. Number of cooperative library organizations providing selected services and activities, by organizational type and number of participants: United States, 1977-1978

		C0::151710W1			CA74L061M8			acrement	
ORGANIZATIONAL TYPE AND NUMBER OF PARTICIPANTS	SELECTION OF MATERIALS	GROERING/ PUR- CHASING MATERIALS	SUB- CHASING SUPPLICS AND COUIDMENT	SMARCD CATA- LOGING	CATALOS CARO/TAPE PRO- DUCTION	LMION LIST OR CATALOS PRO- DUCTION	REF- EREMCE SERVICES	FILLING INTER- LIBRARY LOAM scovests	REROUTING SHIPER- LIBRARY LOAM REQUESTS
<u>(1)</u>	(2)	(3)	(4)	(\$)	(6)	(7)	(01	101	(10)
				4	LL 0854u17A7	1045			
ALL CRGANIZATIONS	314	273	246	208	196	344	444	•••	•1•
40 AND CYER 30-35	99 14	01 10	6A 15	0A 10	66 14	100 26	150 35	152 37	140 32
20-29	20 94	27	77	i 0 55	3	41 96	48 135	55 144	115
19-16 P-0	74	55	94	ä	38	77	***	iii	95
njactor	550	503	105	141	130	200	300	310	500
40 AND CYER	00 12	70 13	67 11	44 13	50 11	72 10	117	113 21	110 21
50-54 30-30	20	10 05	ji 58	Ĭ0 42	jé 43	ió 01	20	29 92	25
19-16 R-9	65 67	36	36	26	ži	35	**	95	**
PRIVATER	6.6	48	45	52	46	100	**	110	•
40 AVO GVER	14	11		10	15 1	24	21 5	26	26 5
\$0-5ē 30-34		, Š	1	15	12	12	31	13	7 23
10-15 2-9	21 24	i	50	ii	iš	*	36	36	30
DY HE R III	30	55	10	15	13	44	62	71	50
48 440 CVER 30-39	:	•	•	3	3	10 5	15	13 10	10
20-24	ì	\$	i S	•	i	10 30	11 14	13 10	10
1 n-16 9-0	17	Ť	•	6	•	ii	17	17	15
					menathto u	NLY AT HEAD	OUARTERS		
ALL CREAMIZATIONS	50	103	**	62	97	136	100	106	107
40 AND CYER	22	37	35	24	33	54	45	36	54
30-39	ij	6				12 13	11	13	14 15
20-29 10-19	16 15	2 <u>i</u>	20 23	20	50 50	35 22	24 17	53 50	44 26
2-0						107	93	•	141
PUBLIC=	51	•3	77	73	WS		39	21	53
48 440 CYER 30-39	19	20	26	81	50	**	•	•	12
29-29 10-19	13	27		10	22	10 29	22 10	11 20	15 30
8-0	iż	10	10	10	10	10	13	10	55
PRIVATE	•	13	14	•	12	21	•	10	10
40 AND CYER	•	•	5	3	•	•	•	3	7
30-39 20-25	•	2	•	•	• `	į	1	5	į
10-19 g-0	1	5	ş	i	5	3	;	5	i
POTHER!	,	7	7	3	3	•	•	•	15
40 AND CVER	2	6	•	:	1	•	2	2	
50-5ē 30-34	•	•	•	:	•	1	ī	:	•
18-19 2-0	=		2	í	1	1	i	ž	Ř

Table 9. Number of cooperative library organizations providing selected services and activities, by organizational type and number of participants:
United States, 1977-1978 (Continued)

CIRCUL	4716e			A	Store And Ann				
Bossoning BOCAL BESIA-	DELIVERY SERVICES	MANAGING COMPUTED INFOR- MATION SYSTEMS	TRAINING AND EDUCATION	Con- SUL71N6	RESEARCH AND SEVELOP- SENT	wast-	SHARING AND ERCHANGE OF EBUIPMENT	emen .	BRGANTZATIONAL TYPE AND NUMBER OF GARTICIPANTS
(H)	(12)	(13)	(14)	(15)	(16)	(17)	(10)	(19)	(20)
			ar one	Au 247 Gurs					
417	254	131	425	373	553	126	227	124	ALL GREANTERTIONS
117 38	23 109	90 7	194 31	151 28	160 15	5 1	70 11	48	48 AND BYER 30-30
154	31 95	11 20	50 114	34 103	16 54 38	7	26 63	i • 31	20-20 10-10
103	71	24	•	\$7	30	**	54	24	8-4
250	555	47	267	261	156	101	125		-ralic-
9 9 16	84 17	**	114 20	100 10	74 10	*2	60	2)	48 AND OVER 30-10
21 78	66 66	51	20 80	23 75	4	3 30	12 06	n	20-20 10-10
46	35	12	40	36	\$3	21	. 85	11	8-1
106	72	25	••	75	48	85.	\$3	42	
17	16	13	31 6.	32	19	•	12	50	40 AND DVER 30-30
11 30	20	7	11 24	19	:		12	i	20-20 10-10
42	27	10	14	10	11	11	55	10	8-9
61	35	•	45	37	10	12	55	24	-071€₽-
11 10	;	2	14	11 5	7	3	•	7	48 AND DVED 30-10
16	•	5 5	10 10	•	i		Š	2 7 3	20-29 10-19
15	•	2	•	7	•	•	7	5	Ž+4
		•	PGVIDFD GMLY	27 HEADOII	****F#\$COVI	INVED			
30	107	79	154	210	133	A 3	72	••	ALL GOSANIZATIONS
;	45	40	70	94 17	44	37	34	25	40 AND OVER
į	,,	18	11 14 41	<u> </u>	**	•			\$0-\$0 30-10
÷	17	•	55	20	ĩ.	22 17	16	15	10-10 2-0
53		44	128	176	103	71	55	39	-PUBLIC-
;	35	20 3	51	74 19	\$1 6	71	53	12	49 AND DVER 20-10
2	24	13	11 34	17 47	4	15	13	į	20-29 10-10
5	14	•	10	P4	26 15	is	·i	i	\$-0
•	14	17	85	26	21	7	12	15	
1	i	11	14	14	•	•	7	;	40 AND OVER 30-10
:	1 3	1	į	5	j	į	į	;	20-20 10-10
3	,	5	>	\$	8	i	•	š	2-1
3	•	•	•	16	•	•	•	•	-07HER*
i	•	. 1	٩ 1	•	•	•	•	•	40 AND DVER 30-10
i	:	į	÷	į	;	;	•	:	10-10 20-20
i	•	ì	i	i	ī	i	ī	ī	\$-4 [0-14



Table 9. Number of ecoperative library organizations providing selected services and activities, by organizational type and number of participants: United States, 1977-1978 (Continued)

and number	r of part	1c1pan	ts: Uni	ted St	ates, 1	9//-19	/8 (Co	ntinued)	
		Coulsirion	3		CA74L06146		acreace			
CASANIZATIONAL TYPE AND NUMBER OF PARTICIPANTS	SELECTION OF MATERIALS	GROEFING/ PUR- CHASING MATERIALS	PUR- CHASING SUPPLIES AND EQUIPMENT	SHARED CAYA- LOGING	CATALOS CAMO/TAME PRO- SUCTION	UNION LIST OR CATALOS PRO- SUCTION	arr- Enruce SERVICES	FILLING INTER- LIBOARY LOAN REDUCSTS	REPOUTING INTER- LIBRARY LOAN REPUESTS	
	(2)	(3)	(4)	(\$)	(6)	(7)	(0)	(6)	(10)	
	ENSAGED IN BY MEADQUARTERS AND PARTICIPANTS									
ALL COSANIZATIONS	151	117	105	73	••	112	231	530	143	
40 AND OVER 30-39	51 10	30	33	25	7	41	04 15	97 17	•5	
2-9 19-19 20-29	· 46	10 34 14	19 32 10	22 7	1	14 29	24 66 36	24 50	17 38	
8-7	33		10	13	•	81	30	34	53	
MPUBLIC*	183	94	85	45	36	48 .	169	169	101	
40 A40 GVER 30-39	43	36	31 5	16 1	. '15	25	69 11	7 <u>1</u> 15	44	
20-29 10-19	13 30	13	12	18.	i 13	26	i7 5 1	i 6	26	
8-1	ži	•	ii	•	**	ï	ži	20	ពី	
	27	13	10	20	15	38	34	33	25	
40 AND OVER 30-39	•	3	2	10	7	12	11	16	•	
20-20 10-19	,	į	į	į	;	į	11	ī	1	
3-1	10	š	i	š	5	12	**	10	•	
-07HER-	11	•	•	•	7	15	20	20	17	
40 440 GVER 30-39	;	ī	•	2	2	3	•	10	•	
20-29 10-19	į	į	į	i	į	į	į	?	1	
2-9	š	ž	i	ě	į	¥	i	:	3	
	CHEAGED IN ONLY BY PARTICIPANTS									
ALL ORGANIZATIONS	•ii	55	43	53	41	•	127	163	104	
40 AND DYER 30-39	20	15	12	16	11	1 <u>1</u>	17	10	14	
24-29 10-19	25	17				14	11 13	14 19	19	
5-9	55	iė	13	13 15	12	32	•5 •3	50 54	35 34	
**PUBL1C*	44	26	83	53	19	\$0	44	51	7.	
40 MO QVER 30-39	16	11	10	•	7	7	;	11	•	
20-29 10-19	13	į	į	Ĭ	į	ı i	, <u>į</u>	19		
1.4	ii	à	š	¥	ĭ		iš	iř	1 5 11	
-PRIVOTE-	25	22	15	24	19	47	53	79	45	
48 440 OVER 20-39	•	•	*	i	•	3	•	?	•	
20-29 10-1 ⁽		į	į	į	•	15	,	1		
2-0	12	ĺ	Ĭ	10	7	iš	ič	*	13 16	
-07HER-	17	7	•	•	3	23	30	37	21	
48 AND OVER 30-39	1	ï	i	1	•	1	į	1	1	
20-29 10-19	i	i	i	:	i	į			į	
2-1	j	Š	i	ī	<u>i</u>	<u> </u>	16	!	Ť	



able 9. Number of cooperative library organizations providing selected services and activities. by organizational type and number of participants:
United States, 1977-1978 (Continued)

	nited	States,	19//-1	3/0	COHETH	<u> </u>			
CIRCUA	*1100			A771415184	11vE 440 67*	ER FUNCTIO			
BOSCON IND BOSCAL BOSCAL BOSCON IND	SEPAICES SEF JACOA	SASTEMS SASTEMS TO OP- WALLOW SASTEMS	ENCALION SHO 100 Intel	50%- 506-7106	SEACTON- SEACTON- SEACTON-	WARE- MOUTING	Substitute And Calculated Salinates Edulated	ones.	engilclecate and stracts as
411)	412)	(13)	(]4)	(15)	(16)	(17)	4161	4301	(20)
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217	147	32	206	104	46	20	108	82	ALL GREATZETIONS
77 12	61 10	16	87 10	47	33	7	26	21	40 MB OVER 20-10
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34	56	• .	86	10	20	9	23	13	i∳-i0 20
150	104	21	120	44	42	14	77	25	
97 10	•1	13	63 10	27	P9	•	30 \$!	44 440 6469
j4 95	10 33	į	15 27	22	12				36-70 26-20 16-10
53	16	į	16	•;	"5	3	. 13	**	8-0 18-10
33	*	•	•8	*	16	3	16	17	
11	•	į	15	10	10	1		11	44 And Byth 34-31
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25	17	2	25	10	•	3	7	10	ag11@a
•	•	1	;	i	. :	1	1	3	40 AND DYES 20-10
3	2	1	7	ž	1	i	į	Ť	20-20 10-10
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			Cut	40EP 19 0m	LT S V PAS TIC	1 944 75 CS	17 144E D		
176	75	20	54	51	8	75	83	22	ALL BOGANIZOTICHS
71	13	3	:	10 8	3	7	•	2	40 AMB BYER 30-19
17 17 40	1	Ĭ	10	į	į	•	17		10-10 10-10
96	14	10	16	iš	10	10	žž	ě	8-9
64	27	10	14	17	13	10	20	•	epublice
8 6	•	3	•	•	?	•	7	1	48 AND BYER 30-19
9 17	į	į	ļ	1	1	į	į	;	21-21
iń	Ť	· ·	÷	;	ŧ	i	•	ែ	10-19
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	<u> </u>	1	1		2		<u> </u>	1	

Table 10. Number and percent distribution of cooperative library organizations using computer and other automated support, by type of support and by organizational type and activity: United States, 1977-1978

under 1244 Edwer		TYPE OF AUTOMATED SUPPORT								
	(S) beutible de Alexics ob tutar		Chie	UTCRS	TELECOMMUNICATIONS					
TYPE AND		044.	ing	oppline				#1C#0-		
<u> </u>		GRAGMATP	wint	STANDARD	=int	TELETYPE	FACSIMILE	(9)		
		On	(4)	(5)	(6)	(7)				
			Marie (OF OMANIFATIO	Dwg #EP001[:	46				
LL 0864417471045	4,149	1.009	941	646	102	091	391	643		
AC01151710M4	51	27	•	•	3	5	1	į		
CATALOGING	145	134	•	56	2	•	2	11		
UNION LIST PRODUCTION	500	59	5	94	•	. 3	•	•		
DEFEDENCE	545	106	5	37	•	.43	50	_		
INTERLIGRARY LOAM	315	191	19	14	3	155	34	1		
CIRCILATION	45	.11	4	15,	43	549	222	60		
07474	3.172	549	520	44.9	7,	20 1	,,,	••		
HALICE	2.503	60>	324	357	55	510	530	•1		
ACQ::193710WS	7.0	10	3		\$	5	1	_		
COTALOGING	112	84	,	17	1	•	1	1		
UNION LIST PRODUCTION	114	33	•	44	•		.=	3		
OFFFOENCE	150	•5	•	14	Ş	47	15			
INTERLIBRARY LOAK	2<1	49	•	11	3	153	56	1		
CIRCILATION		- 7	4	10				•		
OTHER	1.447	324	500	240	41	376	146	39		
MIVATER	1.007	213	163	195	23	164	•3	11		
ACDITSTTIONS	11	Ţ	•	•	1	•	•			
CATALOGING	45	40	?	. •	1	-	•	_		
UNION LIST BERGHETION	70	10	1	10	:	:	:	1		
BFFEBEUCE	49	5.	:	14	5		\$			
INITAL THOUGH FORM	46	5.7	!	:	ī	55	i			
CIRCILATION	422	157	178	121	18	153	•••	19		
01-46.0	4,,	177		1-1		173	-	•		
Twee a	400	134	•9	•	74	107	59			
ACQUISTIONS		, <u>I</u>	1	•	-	•	•			
CATALOGIAN	1.	. 12	•		•	:	1			
UNION LIST BRODUCTION	25		!	13	•	1	5			
afriatace	13	15	!	· · ·	:	10	:			
THIFOLISMAN LOAM	- 74	;		:	-	10				
Clarifat Ida Otora	•••		• • • • •	44	. 24	90	51			

Table 10. Number and percent distribution of ecoperative library organizations using computer and other automated support, by type of support and by organizational type and activity: United States, 1977-1978 — Continued

nboamipayinmal TYPE amb ACYIVIYV	707AL			7797 (F AUTOMATED	SIPPORT		
	threete or er-vitra en-vitra		Charle	UTFRS	TELECOMMUNICATIONS			
		0%	lw.	nffling				#1C#0-
		91440489	wini		MINI	TPLETTPE	PACSIMILE	ABSPHICS 101
		(3)	(4)		161	(7)		
			PERCENT	0157018UT104	OF 00544121	TIONS REPOR	71m6	
LL 08544124710W	4.100	24.80	13-30	15.42	2.43	19.12	9.33	
BC0U14fT10MS	91	52.00	7.04	17.45	5.44	9.96	1.94	16.7
CATALOGING	105	73.51	2.14	14.45	1.00	****	1.00	3.4
UNION LIST PRODUCTION	544	24.27	2.07	45.49	1.91	1.44	,	20.1
attotati	Şap	41.40	2.47	15.20	1.65	26.03	4.26	2.4
INTERLIGHMAN LOSS	315	34.14	2.00	4.74	.90	44.27	14-15	4.7
OTHER STAN	49	20,04	17.74	33.13	4.47	13.33	7.22	2.7
77-42	3.19?	10.23	16.64	14.35	7.66	10.73	14.67	19.7
MIMLIC -	2.543	24.95	17.02	14.70	2.20	20.38	• • • • • • • • • • • • • • • • • • • •	
ACOUISITIONS	94	50.89	7,40	15.70	5.26	13.16	7.63	16.5 5.2
CATALOGING	1;7	75.00	1.70	11.41	.49			3.4
UNION LIST PRODUCTION	114	24.45	3.51	34.40	3.51	1.75		23.6
BEFFORMEE [WTFRL] ERROT LOAM	150	41.33	2.47	9,13	1.73	31.33	14.00	4.6
CleCistation	Sel	27.49	3.19	4.34	1.70	49.88	19.36	4.3
07470		22.59	19.75	37.76	4.45	16-13	•	3.7
U	1.907	14.15	16.99	14.73	2.27	14-15	10-05	10.7
	1.047	25.23	13.77	10.02	2-13	17.01	9.68	15.4
ACOUTS 111 mes	11	67.44	•	27.77	3.49	• • • • • • • • • • • • • • • • • • • •		170-
CATALOGING	44	77.73	7.44	14.34	1.02	. •	-	5.4
INION LIST PRODUCTION	78	27.14	1.47	44,29	•			17.1
OFFFOEWEE 147EGL 148ADT LOAK	50	49.15	•	27.12	3.19	15.25	1.39	1.5
CIRCILATION	4	41.07	1.70	7.14	•	39.29	7.14	3.4
071460		\$5.55	11-11	44,44	11.11		11-11	
	•	19.61	16.74	14.77	P.10	18.61	10.46	19.6
nt-wear	644	27.19	14.47	15.54	1.07	17.72	4.77	16.7
ACQUISITIONS	2	40.00	50.44	•	•		****	.5.,
CATALOGING	18	44.67	•	22.72	•	•	5.54	5.5
[MION LIST BORNINGFING BEFFORMER	**	24.09	4.88	52.44	•	4.88	•	17.0
INTERLIFEREN FURN	13	45.45	3.03	71.71	•	21.21	9.09	
CIACIDATION	74	32.14	3.97	3.57	•	35.71	14.29	10.7
OTHER	493	40.00 17.05	20-00	20.20		20.00		
_ <u></u>		17.05	16.94	17,70	4,87	17.05	10.34	10.4



Table 11. Number and percent distribution of cooperative library organizations using computers, computer terminals, and data bases, and number of data bases and data base titles reported, by organizational type and number of participents: United States, 1977-1978

	TOTAL	COMP	TEMS	COMPUTER	TERRIBALS	BATA	8A9E5	TOTAL	TOTAL
GOGALIZATIONAL TYPE ALD NUMBER OF PARTICIPANTS	90.000 R 00.000 90.000 912471045	417450 07 0064- 412471045 059787146	PERCENT OF TOTAL	MUMBER OF NOGA- W124710M3 OCPORTING	SENCENT OF TOTAL	10,0000 07 0000- 117471045 05P007146	SERCENT OF TOTAL	MATA BASES GEPROTES	TITLES 1M DATA BASES
0	(2)	(3)	(4)	(\$)	(6)	(7)	(6)	(6)	(10)
ALL BREAKTTATIONS	408	301	50.0	291	47.9	\$45	43.1	.2.24	144,279,54
40 AND OVER	149	114	÷1.3	111	58.7	95	50.2	968	95,968,83
39-39 29-29	•	53	50.0	53	50.0	21	45.7	281	8.205.40
14-19	71 172	35 70	49.3	89	49.8	20	39.4	•1	13:534:44
2-9	170	- 4	45.9	7) 95	42.4	••	•••1	501	37-111-47
200	.,,	30	₩.•	75	42.3	49	37,7	301	29.379.15
MINLIC.	342	103	50.6	100	49.7	840	44.2	1.459	95.474.66
48 AND OVER	131	78	50.5		61-1	49	52.7	695	34.935.52
30-39	25	15	60.0	13	52.0	- 11	52.0	121	8.145.29
24-29 16-19	17	19	51.4	18	. 44.6	14	37.8	41	9.524.41
5-0	165	47 24	44.0	47	44.8	43	41.0	453	22.394.1
804	•	24	37.5	\$5	34.4	81	32.0	149	20,473.10
-9014716-	144	87	56.1	77	49.7	64	43.9	987	26.610.91
48 AND DVER	40	27	67.5	23	57.5	19	47.5	142	6.079.2
<u> </u>	•	•	44,4	5	55.6	•	44,4	143	140.00
50-50	17		47.1	. 7	41.2	7	41.2	4	4-000.00
10-10 2-0	**	25	50.0	19	43.5	10	48.9	126	4.092.3
×-4	•••		47.8	53	\$1.1	50	44,4	134	8.077.2
-01-EP-	R1	39	. 42.9	34	37.4	*	37.4	100	22-109-9
40 AND OVER	18	•	50.6	•	. 44.4	7	30.9	131	12-154-0
34-39	is	•	13.3	\$	41.7	i.	33.3	5	10
50-50	17		47.1	•	\$3.5	7	41.2	•	6.0
10-19	97 21	10	43.5	.7	30.4	Į.	34.6	10	10.022.0
	71		30.1	10	47.4	<u>4</u>	20.1	24	4.0

Table 12. Distribution of cooperative library organizations, by number of paid staff in full-time equivalents (Fi z) and by organizational type and number of participants: United States, 1977-1978

SAAN STALLONUT AND	TOTAL		SHOULD BE BURN	HIZATIONS. 37 A	NAMES OF PAID	STAFF (FTE)		
AND MUNEES OF	OF ORGA- GIZATIONS	LESS THAN 1.0	1.8 70 2.9	3.6 70 4.9	5.6 TO 9.0	10.0 TO 10.0	9 - 95 PO POUL	
<u> </u>	(5)	(3)	(4)	15)	(8)	(7)	(8)	
	601	***	100	80	20	10		
40 AND OVER 30-30	189	123	4\$	•	•	5		
20-29	46 71	37 56 134	•	i	3	į .	•	
10-10 2-0	172 130	134 96	2) 2)	6	•			
NOLICO	242	\$30	73		17	7		
48 AND DYER	131		30	•	•	•		
20-29	25	0 3 17	3	•	i	5		
20-29 10-19	37 1 05	2) 72	. G 19	ļ	3	3		
8-4	•	43	19	ŧ	į	ī		
#1441E#	155	130	20	2	1	2		
40 AM OVER	46	20		1	3	2		
30-30 20-20	17	17	1	:	:	:		
10-19	44 45	42	Ť	:	•	-		
804	43		•		•	•		
) 1-€8 -	•1	••	7	'n		1		
46 AND OVER 30-39	18	12	•	•	1	1		
20-29	12 17	15	ī	:	:	:		
10-19	21 21	80 20	į	1	1	•		

Table 13. Distribution of ecoperative library organizations, by operating expenditures and by organizational type and number of participants: United States, 1977-1978

CORMISATIONAL TYPE	TOTAL		phonics u	* negavitat	ML . RY OP	0411M6 EEP	ENDITURES	
AND WHITE NO	9174110mg	LESS 7mAu 9500	5500 10 54,990	55.000 · 70 520.000	12:000 TO 000,000	550.000 TO 100.000	5199-999 70 9499-999	2500,000 00 2000g
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(0)
4LL 8584417411EVS	446	152	20	70	44			
40 AND DVER				• • •	••	75	161	53
34-39	109	. •	•	. 10	17	53	43	34
20-20	46 71	13	2	•	- 6	- 7	~;	7
10-10	172	26	1	•	Ť		10	•
7-0	170	47 47	15	\$1	10	24	Šž	3
	, 10		•	24	10	10	20	ž
PIALTC=	342	47		39	29			
48 Awn gyEs			•	•	•	54	135	30
30-30	131	•	1	10	11	10	64	22
24-24	95 17	,	•	•	· •	~	7	~~~
14-19	105	•	•	4	Ť	ĩ	16	•
2-9	127	2°	•	10	11	20	36	;
_	-		2	11	5	12	16	ż
-314410-	145	50	12	31: /	10	. 16	17	_
48 AM DYES				• • •		10	17	•
74-29	4	2	2	. 4	3	•	13	
20-29	,,,	•	•	•	i	ĩ	"	
14-19	44	"	ļ	•	1	Š	:	
2-0	35	17	•	12	•	•	•	ī
		_	•	••	•	•	5	-
)1- € 0=	•1	49		•	,			4
48 AVS RVER		_				_	•	•
7030	1.5	ζ.	1	•	3	1	•	
24-54	15	10	2	?	•	Ĭ	•	7
19-19	i ? ! ? ? 3	17	:	1	1	÷	1	:
2-9	ρί	10	3	š	3	;	ž	-

Table 14. Percent of cooperative library organizations, by services performed and by type of staff and number of staff members: United States. 1977-1978

	<u> </u>	COUTSITION			CATALOGING			METERNICE	
TYPE OF STAPP AND NUMBER OF STAPP NEWNERS	SELECTION OF MATERIALS	engening, cursing eve-	PUR- CHASING SUPPLIES AND EQUIPMENT	SMARCD CATA- LOGING	BUCLION GULFALOR GULFALOR GULFALOR GULFALOR GULFALOR	LTST OR CATALOS PRO- BUCTION	SEP- FILLING INTER- ERRACE LIBRARY SERVICES LOAD EGUESTS		READUTING THTER- LIMBARY LOAN REAUESTS
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(0)	(10)
ALL QUEANIZATIONS	52.3	4.9	44.4	34.2	22.5				
20.0 OP 40PF	76.9	01.5	66.4	61.0	67.1	54.9	76.3	85.0	64.8
10.0 - 19.0	60.4	\$7.0	54.5	44.3	44.3	64.4 62.3	86.1	64.0	85.5
5.4 - 9.9	65.7	57.0	54.5	41.0	-3:i	\$1.5	65.6	86.9	97.6
3.0 - 4.9	54.4	54.4	82.5	37.1	34.4		84.8	88.4	TA.9
1.0 - 2.0	37.4	25.3	20.9	21.0	Ĩ9.3	42.0	00.4	88.4	79.4
LESS THAN 1.0	37.5	24.3	17.1	Ži.	iš:ī	95.0 51.9	48.0	73.1	57,2
			• • • •		•-••	31.4	43-1	78. Z	50.0
60000-100010					,				
COGANIZATIONS WITH					• *				
PAID STAFF ONLY	SA,A	52.7	50.5	41.0	41.0	95.5	62.4	64.3	•• •
20.4 OR MORE	79.3		65.0	41.4	70.0	63.3	86.6	44.3	70.2
10.0 - 19.9	67.7	40.3	66.3	57.0	52.4	¥0.5	80.6		94.3
5.0 - 9.9	64,5	60.0	57.1	44.2	ed.5	30.0	84.2	94.4	94.6
3.0 - 4.9	54.7	54.3	\$4.2	37.5	34.3	62.5	5	95.3	95.7
1.0 - 2.9	39.4	25.0	32.0	25.0	23.6	51.5	71.0	76.3	97.5
LESS THEN J. 8	48.7	20.5	25.7	22.0	17.1	42.0	44.4	77.1	57.4 57.1
CORALIZATIONS WITH PAID									
STAFF AND NON-PAIN STAFF	54.2	54.7	44.2	25.8					
20.0 00 4005	41.3	91.4	33.5		32.0	62.6	73-1	73.1	61.1
10.0 - 10.0	55.5	45.5	95.5	44.4	50.3	66.6	100-0	83.3	75.0
5.0 - 9.9	71.4	71.4	42.0	22.2 50.0	33.3	55.5	77.7	100.0	84.0
3.0 - 4.9	71.4	\$7.1	42.0	20.5	42.0	64.2	85.7	92.0	74.5
1.0 - 2.9	êv.	21.4	35.2		20.5	57.1	20.5	47.0	14.2
LESS THAN 1.8	25.4	37.5	12.5	23.5 12.5	23.5	70.5	54.8	47.0	47.0
			16.7	45.3	•	50.0	75.0	78.0	50.0
DEGAMIZATIONS WITH									
MON-PAID STAFF CALT	34,4	25-1	18.5	20.2	14.2	\$7.3	40.0		_
20.0 OF MORF	100.0	79.6	75.0	50.0	\$0.6	75.0	65.5 75.0	77.0	50.4
10.0 - 19.0	52.1	42.0	20.5	20.5	14.2	45.7		75.0	75.0
5.0 - 9.9	34.3	27.2	10.1	9.0	7.5	45.4	45.0	57.1	84.5
3.0 - 4.9	42.11	20.5	29.5	42.0	42.6	71.4	•1·•	18.1	34.3
1.0 - 2.0	37.1	74.4	26.0	13.3		57.7	71.4	71.4	71.4
LESS THAM 1.0	25.7	54.0	14.6	21.1	iż.	55.0	40.0 43.3	77.7 78.9	40.8 47.7

Table 14. Percent of cooperative library organizations, by services performed and by type of staff and number of staff members: United States, 1977-78 (Continued)

CIPCUL	47 [Ou			A(=1) 104	714E 440 911	CA FUNCTIO	**		
BOCAT BOCAT BECID-	DEL TYERY SERVICES	manasing compyres jurian maripu sverrus	TRASMINS AND EDUCATION	Con- SALTING	SEALT SEALT	gang. MUCTUS	SMARING AND EACHANGE OF EAUTHMENT	97vER	THE STATE
(11)	(12)	(13)	(14)	(15)	(16)	(37)	4100	(10)	470)
						_			
49.5		•••							
70.0	94.1 73.6	21.5	64.4	61.3	26.4	22.7	27.2	22.0	ALL COGANIZATIONS
63.7		39.4 30.4	64.2	er's .	60.5	24.0	66.5	21.0	20,0 00 mper
48.4	62.1	83	87.4 84.4	<u> </u>	. .	20.9	42.0	30.4	10.0 - 10.0
4.50	65.3	17.6	00.7	73.6	50.5	20.4	44.8	22.1	5.1 - 6.9
49.5	47.0	16.4	43.7	50	44.]	25.6	54.0	£4.3	3.0 - 4.0
67.7	34,2	11.4	44.4	35.5	- 43.1	18.2 14.4	27.5	21.7	1.0 - 2.0
	_				7311	1	21.7	17.7	LESS Take 1.0
67.0	67.0	25.4	70.0	72.6	45.4				@#####################################
76.4	70.0	33.3	85.6	45.3	47.2	25.7	45.2	\$5.3	PAID STAFF BILLY
47.9	71.7	32.4	44.9	61.1	1 4.7	34.0	44.0	70.0	20,0 dm mpby
65.7	62.4	71.4	42.4	76.7	¥	32.0 30.0	47-1	30.1	10.0 - 10.0
44.0	AA,7	70.3	84.0	84.3	\$1.5	8.1	94.0	21.4	\$.0 ~ 9.0
49.7	84.8	21.4	72.3	\$0.2	34.1	11.6	91,4	21.0 -10.7	3.0 - 4.9
60.0	42.0	0.5	45.4	42.0	14.2	i7:I	31.4	22.0	1.0 - 2.9
							-,	****	LESS TREM 1.0
74.6	62.6	23.0	74.5	70.1	43.2				
91.6	91.6	75	91.4	100.0	75.0	32.5 50.0	40.3 54.3	21.3	STAFF AND NON-PAID STAFF
55.5	33.3	11.1	104.0	100.0	44.4	22.2	44.4	25.0	So'o au acut
70.5	95.7	7.1	74.5	70.5	50.0	25.7	72.1	23.3	10.0 - 19.9
57.1	57.1	14.7	71.4	48.0	20.5	20.5	42.4	35.7 57.1	5.0 - 9.9
76.4	41.1	17.4	74.5	50.0	29.4	35.2	20.4	23.5	3.0 - 4.9
75.0	42.5	12.4	25. 0	24.0	25.0	12.5	25.0	25.0	1.0 - 2.9 LESS 7064 1.0
							••••		CC33 11-4 1-9
47.7	33.0	13.1	44.9	24.0	13.6	13.1	29.7		· cotantravious wire
75.0	74.0	25.0	54.6	50.0	25.0	10.1	75.0	11.1	MON-PAID STAFF BILT
42.0	\$7.1	42.0	47.8	87.1	42.0	14.2	79.0	25.0 26.5	30.0 da 1000
72.7	27.2	10.1	67.4	94.5	36.3	9.0	9.6	7.7	10.0 - 10.0° 5.0 - 9.9
57.1 66.6	48.4	• •	47.8	48.0	14.2	14.2	42.1	14.2	3.0 - 4.7
99.7	37.7 20.3		44.4	21.1	6.6	13.3	24.4	24.4	. 1.0 - 2.0
	Ev. 3	12.0	45.4	33.4	11.0	13.7	10.3	15.6	LESS THAN 1.0



APPENDIX B

QUESTIONNAIRE & INSTRUCTIONS

1985-86 Survey 1977-78 Survey



DEPARTMENT OF EDUCATION National Center for Education Statistics Multilevel Studies Branch

SURVEY OF LIBRARY NETWORKS AND COOPERATIVE LIBRARY ORGANIZATIONS 1985

READ
INSTRUCTIONS
BEFORE
COMPLETING
THIS
FORM

Form Approved OMB No. 1850–0570 Expiration date: December 31, 1985

CODE (NCES Use Only)

DUE DATE: OCTOBER 18, 1985

Return this completed form in the attached addressed envelope to: National Center for Education Statistics, U.S. Department of Education, Multilevel Studies Branch, 1200 19th Street, N.W., Washington, D.C. 20208-1628

This report is authorized by law (20 USC 1221e-1). While you are not required to respond, your cooperation is needed to make the results of this survey comprehensive, accurate, and timely.

<u> </u>	ol triis survey compre	nensive, accur	ate, and time	ery.					
		PART	- ORGAN	IZATIONAL ST	RUCTURE				
1. Does this	network meet all of t	he seven crite e to fill out this	ria specified	d on the first pa	ge of the in	structions	? (Check	One)	
□ No	If no, please answer envelope. Indicate wi	only the first thich criteria are	hree question not met (Re	ns and return the	e first page finstructions	of the forms.)	n in the er	nclosed postag	je-paid
	i criteria below that d	o not apply to	your netwo	rk.)	•	•			•
CRITERIA	NOT MET BY ORGA	NIZATION:	1 🗆	2 🔲 - 3 🔲	4 🗆	5 🔲	6 🗆	7 🗆	
	network and address etwork	of headquarte	rs. (Principa	l administrative	Office of the I	network)			
	f headquarters:								
					 Stat e		ZIP .		
2 Acronym	for network. (Print or								
3. ACIONYM	ior network. (Print or	typ e)				(Chook I	if the	• !• •• • • • · · · ·	
		· ·				for name	oox ii there d network	e is no acronyr <)	n used
	e, and telephone nun		ector/admin	istrator/head of	the networ	k operatio	n.		
Title: Telephone	No. ()					ian -	Othe	er (Specify):	
omes.	twork has an elected	d president/ch	ealrperson/d	lirector, piease	Indicate na	ime, netwo	ork title, a	and current to	erm of
	titie: President	☐ Chairperso	n Direc	tor 🗆 Other					
	term of office:								
☐ TELEX	ny communication and					eck all that	apply)		
Other (Specify)				-				
☐ None									
	Name of person	filling out Part I	:						
	Telephone numb)						_	
		(area 2006) '				(externs	on)	_	

ERÍC

ED(NCES) FORM 2396-2, 7/85

7.	Indicat	te any communication system that can be u	sed by non-network members to contact the network.
	TEL		
	☐ Cor	mmercial telephone number	
	☐ Elec	ectronic mail (Describe)	
		ner (Describe)	
	☐ Nor	ne	
8.	Indicat	te the year this network became operational	. 19
<u> </u>	ls netw	work membership based on a written agreen	ment signed/suthorized by each member?
	☐ Yes		
	□ No		
10.	Checi	k the terms that best describe the least state	us of the network. (Check one from each of the following pairs)
		egislative mandate	to a section (or took one non section the following pails)
	-	o legislative mandate	
		corporated	
	_	nincorporated	·
		illi loor por ated	. *
	☐ Fo	or profit	
	□ No	ot for profit	
	Ped Ped	Not formally sponsored Federally sponsored: agency(s) State sponsored: agency(s) Local government sponsored: Privately sponsored: Other type of sponsor (Specify):	orkshops, etc.
13.	Enter	the number of library and other information	on units that are members of the network. (Count branches only if they
	partici	ipate directly and not through a central library. (Count each participant only once)
	13.1	which are within a college/university enviro	on units (Enter the number of libraries) NOTE: Include special libraries onment.
		Central/general libraries	
		Medical libraries	
		Law libraries	
		Religious libraries	
		Art libraries	
		Music libraries	

13.2		libraries and ix:formation units. (Enter the number of libraries)
		Public schools (elementary and secondary)
		Private schools (elementary and secondary)
13.3	Public I	libraries (Enter the number of libraries)
		Central libraries/units
		Branches
13.4	State III	prary agencies (Enter the number of libraries)
		State library agencies
		State libraries/units
		Branches
13.5	Federal	libraries (Enter the number of libraries)
		Federal libraries/units
		Branches
13.6	Other s	pecial libraries and information units
		For a special library/information unit within, for example, a college/university environment, make entry under college/university (Item 13.1). (Enter number of libraries)
		Corporate/business libraries
		Medical libraries
		Law libraries '
		Religious libraries
		Art libraries
		Music libraries
		Museum libraries
		Historical libraries
		Correctional institution libraries
		Mental hospital libraries
		Other (Specify)
13.7		Network headquarters other than your own. (Enter the number of networks)
13.8		Your own network headquarters (if not included above). (Enter "1", if appropriate)
13.9		Other (Specify)
13.10		TOTAL MEMBERS
		(Sum of 13.1 through 13.9)
Indica	nte the it	em which best describes the geographic area served by the network (Check only one item)
(a) [] Internat	tional (Specify which non-U.S. countries)
(b) 🗆	Nationv	vide
(c) 🗆	Multi-S	ate
(d) [Statewi	de
—	-	ate (Within a State)
		•
		Mithin a county or metropolitan area)
(9)	j Otner (Specity)

15.	Indicate apply)	the purpose(s) for which the netw. /k was established. (Do not include services and products provided) (Check all that
	(a) 🔲 1	To provide a forum for exchange of ideas among members and provide continuing education for library staff
		To consolidate purchasing power
	(c) 🗆 1	To consolidate power/leverage to acquire funds from government, foundations, other agencies
	(d) 🗆 1	To establish and maintain protocols and standards
	(e) 🗆 1	To share member- or headquarters-generated services and/or products
	(n) 🗆 -	To represent network membership in dealing with vendors
	(g) 🗆 '	To take advantage of new technology
	(h) 🗆 (Other (Specify)
16.	(a) 🔲 f	nis network have reciprocal patron access arrangements? No (Go to Q. 17)
	'	
		s, please indicate the type(s) of access. (Check one or more items that apply) Reciprocal borrowing — FREE
		☐ Reciprocal borrowing — FOR FEE
		☐ In-house use only
		Other (Specify)
<u></u>	Does tr	nis network promots, develop, or use, interlibrary loan protocols that govern the routing of requests?
	☐ Yes	□ No



PART II — STAFF ORGANIZATION AND SERVICES

(Limit responses to those staff members working on the operations of this network. See Specific Instructions on Pages I-2 and I-3 for further detail)

NUMBER OF PERSONS EMPLOYED DURING THE WEEK INCLUDING DECEMBER 31, 1985

		STAF	F PAID BY NET	WORK	STAFF PA	D FROM OTHER	SOURCES	VOLUNTEERS		
		PULL-TIME	PAR	-TIME	FULL-TIME	PART	-TIME	RULL-TIME	PAR	-TIME
	ITEM NO.	(head count)	INJUNEER OF PERSONS (freed count)	FULL-TIME- EQUIVALENT	(heed count)	NUMBER OF PERSONS (head count)	FULL-TIME- EQUIVALENT	(heed count)		FULL-TIME- EQUIVALENT
		(a)	(b)	(c)	(4)	(0)	m	(e)	(h)	Ø
PROFESSIONAL STAFF Administrators	18									
Librarians	19						-			
Computer-related personnel	20									
Other professionals	21									
LIBRARY TECHNICIANS & PARAPROFESSIONALS	22									
CLERICAL/SUPPORT STAFF (includes data entry technicians, drivers, maintenance staff, secretaries, typists)	23									
OTHER (Non-library operational, such as custodial)	24									
TOTAL STAFF	25						 			
Contractors	26									

^{*}Report full-time-equivalent to one decimal place. See Specific Instructions for computation of full-time-equivalents on Page 1-2 of Instructions.

Name of person filling out Part II:	
Telephone number:()	
(area code)	(Ostongugh)
NOTE: If same person fills out Parts I through V, there	is no need to repeat the name and telephone number.



PART III — FUNDS RECEIVED, MOST RECENT FISCAL YEAR ENDING DURING 1984

(Limit responsés to those funds received by the headquarters operation of this network. See Specific Instructions on Page I-3 for further detail)

SOURCE OF FUNDS	ITEM NO.	DOLLARS
DUES, FEES, OR SURCHARGES FROM PARTICIPANTS	27	S
ASSESSMENTS FROM PARTICIPANTS	28	\$
GROSS REVENUES DERIVED FROM SALE OF PRODUCTS AND/OR SERVICES		
a. Publications (Originated by network)	29	\$
b. Other publications	30	\$
c. Workshops/seminars	31	\$
d. Conferences	32	\$
e. Consulting	33	S
Sales of computer services	34	\$
g. Other (Funds derived from sale of products and/or services)	35	\$
MONIES RECEIVED FROM: a. Federal government grants and appropriations	36	s
b. State and local government (Exclude Federal monies distributed by the State)	37	s
c. Foundations	38	\$
d. Other sources not included above	39	\$
INVESTMENT INCOME	40	\$
CARRYOVER FROM PREVIOUS FISCAL YEARS	41	\$
ANY OTHER SOURCES OF FUNDS (Specify)	42	\$
TOTAL FUNDS	43	\$

Name of person filling out Part III:	
Telephone number:()	(outerach)

PART IV — EXPENDITURES, MOST RECENT FISCAL YEAR ENDING DURING 1984

PASS-THROUGH FUNDS	ITEM NO.	AMOUNT
Eurods paid from members to vendors, bibliographic utilities, etc., that pass through the network (Exclude surcharge, overhead, recovered by operation)	44	s
b. Funds paid by members to other members that pass through the network	45	\$
TOTAL OPERATING EXPENDITURES (EXCLUDING a. AND b., ABOVE)	46	\$

FILL IN BELOW THE APPROXIMATE PERCENTAGE OF TOTAL OPERATING EXPENDITURES WHICH WAS FOR NETWORK ADMINISTRATION AND FOR NETWORK FUNCTIONS

NETWORK ADMINISTRATION (Non-overlapping categories of network expenditures)	ITEM NO.	PERCENT OF TOTAL OPERATING EXPENDITURES IN ITEM 46
Salaries and wages (Including fringe benefits)	47	%
2. Contactor services	48	%
Equipment, supplies, materials (Including reproduction services and supplies)	49	%
4. Other (Specify)	50	%

SELECTED NETWORK FUNCTIONS (Overlapping categories)	ITEM NO.	PERCENT OF TOTAL OPERATING EXPENDITURES IN ITEM 46
Computer related equipment, software, supplies	51	%
2. Telecommunications (Lines, phones, long distance charges)	52	%
3. Professional development/training	53	%
Network development/marketing	54	%
5. Library services and activities	55	%
6. Other special functions (Specify)	56	%

Name of person filling out Part IV:	
Telephone number:()	(extension)



PART V-1 - MAJOR NETWORK SERVICES AND ACTIVITIES

(Enter as "X" for all applicable items.)

Limit responses to those services provided or used, as part of the network, by headquarters and members. A service or activity is part of the network if it includes the provision of one or more resources by the network for its members. For example, a service or activity, may include the provision of personnel, terminals (or microprocessor when used as a terminal), computers, special purpose equipment, facilities, and/or other resources. In general, the provider of the resource can be determined by the location of the resource. See Pages I-4 through I-6 of the Instructions for further details.

For Columns (a), (b), and (c), indicate with an "X" the type of provider of the network service or activity. The service or activity may be provided by either a contractor (such as OCLC, SDC, MINIMARC, another network, etc.), network headquarters, or network member(s), or by a combination of these.

For Columns (d) and (e), indicate with an "X" those services or activities that are used by headquarters and/or members.

Also indicate with an "X" in Column (f) if the service or activity is not provided from any source or used by any member of headquarters as part of network activities. If a service or activity is planned within 2 years as part of the network, indicate with an "X" in Column (g).

		· ·	SERVICE	ACTIVITY PHOY	NOED BY:	SERVICEACTI	VITY USED BY:		
METWORK SERVICE OR ACTIVITY	ITEM NO.	EXTERNAL SOURCE/ CONTRACTOR	NETWORK HEAD- QUARTERS (b)	METWORK MEMBERS (c)	MEAD- QUARTERS	MEMBERS (o)	SERVICE/ ACTIVITY NOT PROVIDED	SERVICE/ ACT: TY PLAM: ED WITHIN 2 YEARS	
A.	CIRCULATION		-	(-)	(-)	(4)			<u> </u>
	1. Circulation control	57	_		 	 	 -	<u> </u>	 -
_	2. Interlibrary loan	58			<u> </u>	↓			
	3. Other (Specify)	59							
B.	TECHNICAL SERVICES 1. Acquisitions	60							
	2. Cataloging	61							
	3. Catalog production	132							
	4. Union list catalog production	63							
_	5. Physical processing	64							l
	6. Conservation/preservation	65							
	7. Other (Specify)	66		· -					
C.	REFERENCE/INFORMATION & REFERRAL SERVICE								
_	1. Referral lists/directories	67	<u> </u>	\ 		 	 	 	
_	2. Access to online catalogs	68		<u> </u>	<u> </u>	 -	 	 	-
_	3. Access to online databases	69	 				<u> </u>	 	
	4. Other (Specify)	70							
D.	RESOURCE DEVELOPMENT AND SHARING	1							
_	Collection development	71		 			 		
	Materials examination center (book, audiovisual, etc.)	72							
	3. Equipment and supplies	73				<u> </u>			 _
	4. Staff	74					1	<u> </u>	1

Name of person filling out Part V-1: _	
Telephone number:()	 (outeraion)



PART V-2 -- PROVIDERS OF NETWORK RESOURCES

Which of the following resources were provided by headquarters, network members and/or other sources outside the network? (Place an "X" in all appropriate boxes.) (See Special Instructions on Pages I-6 and I-7 for further explanation.)

RESOURCES FOR LIBRARY SERVICES AND ACTIVITIES	ITEM NO.	HEADQUARTERS (4)	MEMBERS (b)	OTHER (c)
. Terminals and peripherals	93	·		
. Central processing unit (CPU)	94			
. Personnel	95			
. Special purpose equipment	96			

RESOURCES FOR ADMINISTRATIVE FUNCTIONS	ITEM NO.	HEADQUARTERS (a)	MEMBERS (b)	OTHER (c)
. Terminals and peripherals	97			
. Central processing unit (CPU)	98			<u> </u>
. Personnel	99			<u> </u>
. Special purpose equipment	100			

Name of person filling out Part V-2:	
Telephone number:((culturation)

INSTRUCTIONS FOR COMPLETING SURVEY OF LIBRARY NETWORKS AND COOPERATIVE LIBRARY ORGANIZATIONS, 1985

GENERAL INSTRUCTIONS

DEFINITION OF LIBRARY NETWORKS AND COOPER-ATIVE LIBRARY ORGANIZATIONS. A network is a cooperative library organization that usually consists of a formal arrangement whereby materials, information, and services provided by a variety of types of libraries and other organizations are made available to all members. Member libraries may be in different jurisdictions but agree to serve one another on the same basis as each serves its own constituents. Computers and telecommunications may be among the tools used for facilitating communication among them. The term "network" is used throughout the survey to designate library networks, cooperative library organizations, library consortia and cooperative library arrangements. For the purposes of this survey, a network must meet ALL of the following criteria:

- 1. The participants in the network are primarily or exclusively libraries.
- The network and/or its participants engage in cooperative activities which are beyond the scope of traditional interlibrary loan services as stated in the American Library Association Code.
- 3. The activities of the organization extend beyond reciprocal borrowing.
- 4. The organization operates for the mutual benefit of participating libraries.
- The scope of the organization is interinstitutional (i.e., beyond branch libraries within an organization or libraries that are under a common funding source, such as school libraries in a municipal..y).
- The scope of network activities involves resource sharing (e.g., interlibrary lending, equipment, staff with special skills, collection development, cooperative purchasing, etc.)
- 7. The operation of the network is based on a verbal or written agreement between its members.

DATA REQUESTED AND TIME PERIOD COVERED. This questionnaire has been formulated to obtain comprehensive and uniform data on organizational structure; staff, funds, and expenditures (if any); major services and activities provided; and computer and other automated support (if any). Report data for your 1984 fiscal year.

ORGANIZATIONAL RESPONSE. All data reported must refer to the particular network responding. Some specific examples follow.

Example a. If your network is autonomous, report ALL staff, budget, activities, etc.

Example b. If your network is part of a larger organization or network, report only the staff, budget, activities, etc., of the network responding.

Example c. If cooperative functions are performed as an integral part of a normal library routine, report only the staff, budget, activities, etc., for the cooperative effort. Do not respond for the library as a whole. (Give best estimates, if necessary.)

ITEM COMPLETION. Complete all items. Do not leave any items blank. Enter "O" if the appropriate entry for an item is zero or none. Enter "NA" if an item is not applicable to your organization. If an exact figure is not available for a particular item, but it is known that the amount is greater than zero, ENTER AN ESTIMATE OF THE AMOUNT and enclose in parentheses. Estimates are important if exact data are not available. Enter "N.AV." if data are not available and it is not possible to estimate. Enter "X" where requested to indicate the services or activities provided by the organization.

SPECIFIC INSTRUCTIONS PART I — ORGANIZATIONAL STRUCTURE

ITEM 1. HEADQUARTERS QUALIFICATION. Indicate if the network meets the seven criteria specified in General Instructions. If not, indicate which criteria are not met by the network and return the first page of the questionnaire only. There is no need to complete the full questionnaire if the network does not meet all of the seven criteria—complete only the first page.

ITEM 2. HEADQUARTERS NAME AND ADDRESS. If there is no headquarters, enter the name of the network and address of the director of operations for the network.

ITEM 3. NETWORK ACRONYM. If applicable, enter the acronym by which this network is known. For example, SOLINET is the acronym for the Southeastern Library Network. If the network has no acronym, check the box.

ITEM 4. DIRECTOR/ADMINISTRATOR/HEAD OF OPERATIONS. List the name, title and telephone number of the person who has decisionmaking authority in relation to the operations of the headquarters. Include area code and extension.

ITEM 5. ELECTED OFFICIAL. List the official most recently elected and check the title that best describes the position of that official within the network. Check the box corresponding to the official's current term of office.

ITEM 6. MEMBERSHIP COMMUNICATIONS SYSTEMS, Check all communication systems used by network members to communicate among themselves. If using electronic mail, briefly describe computer system and software used (commercial, developed in-house, etc.)

ITEM 7. NON-NETWORK MEMBERS COMMUNICA-TIONS. Indicate the communication systems that can be used to facilitate public access, so that this information may be included in a directory. If using electronic mail, briefly describe computer system and software used (commercial, developed inhouse, etc.)

ITEM 8. OPERATIONAL DATE. Enter the two-digit figure which represents the year in which the network began to function in its intended manner. For example, if a network was begun in 1970 but did not start providing its intended services until 1973, a "73" should be entered in the space provided.

ITEM 9. WRITTEN AGREEMENT. Indicate whether the network functions on the basis of written agreement of any kind such as a contract, charter, etc.



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which describe the legal status of your network. Legislative mandate refers to any network created or recognized by Federal, State or local statute. Such networks may operate as governmental or quasi-governmental agencies at the Federal, State, interstate or, local, level. Incorporated networks include those incorporated under Federal law or the laws of one or more states. Unincorporated networks include associations and cooperatives of libraries joined together for a common purpose but having no legal identity, status, or powers.

ITEM 11. SPONSORSHIP. Decribe the sponsorship of the network, check one or more terms, as applicable, ranking primary and secondary sponsorship, and enter the name(s) of the parent or sponsoring agency(s) in the lines provided.

ITEM 12. OPERATIONS. Indicate the frequency of network services/operations. For example, are its services/operations available to be utilized daily (i.e., 5 to 7 days per week), weekly but less than 5 days per week, or at routine intervals during the year (i.e., at quarterly meetings or workshops)? Specify if other than those listed and briefly describe.

ITEM 13. NUMBER OF PARTICIPANTS. For each category of libraries listed, enter the number of libraries that are members of the network. Each member should count as one, whether it is a central library or branch library; count branch libraries only if they participate directly and not through the central library. A special library is a library in a business firm, professional association, or other organized group, that does not meet the criteria for a college/university, public, or school library; a library that is maintained by a sponsoring organization to serve a specialized clientele; or an independent, special library that may provide materials or services, or both, to the public, a segment of the public, or to other libraries. The data for all libraries on an academic campus, including special libraries there, should be reported only under academic libraries. Also, there might be headquarters of other networks that belong as members of your network. Please indicate the number of such networks (13.7). If there are other organizations that belong to your network, please specify the number by type of such organizations (13.9). Finally, total all the libraries and other types of organizations that belong to your network (13.10).

ITEM 14. GEOGRAPHIC AREA SERVED. Describe the parameters of the area in which network members are found. If other than those listed, define and briefly describe.

- (a) If member libraries are located in the U.S. and in at least one other country, check "International".
- (b) If member libraries are located in all 50 states, check "Nationwide".
- (c) If member libraries are located in more than one State but not in all 50 states, check "Multi-State".
- (d) If member libraries are located throughout the State, check "Statewide".
- (e) If area of service is less than Statewide but greater than a single county or metropolitan area, check "Sub-State."
- (f) Check if a network whose members are contained within a single county or metropolitan area.
- (g) Check and describe, if a network whose members do not fit the categories listed above. Define the geographic area which most appropriately applies to the network.

ITEM 15. PURPOSE. Check all categories which indicate the purposes for which the network was established.

ITEM 16. RECIPROCAL PATRON ACCESS. Refers to network-sponsored agreements between members, or members and headquarters, to grant patron access to or use of one another's library collections. Such agreements may or may not include borrowing privileges.

- (a) Self-explanatory.
- (b)b1. Reciprocal borrowing. Refers to network-sponsored & b2. agreements between members, or members and headquarters, to provide to patrons reciprocal borrowing from one another's library collections, either for free or for a fee.
- (b)b3. In-house use. Refers to network agreement whereby a member may use the materials of headquarters' and/ or another member's library collection, but not check materials out.

ITEM 17. INTERLIBRARY LOAN PROTOCOLS. Indicate whether the network promotes, develops, or uses interlibrary loan protocols that govern the routing of requests.

PART II — STAFF ORGANIZATION AND SERVICES

TIME PERIOD COVERED. Please report the number of staff working on the operation of this network on December 31, 1984. If data are not available for that specific date, report as of the closest date for which the data can be provided.

PAID STAFF AND VOLUNTEERS. Only staff assigned to work on network business, usually at headquarters operation, are to be reported in this part of the questionnaire. They should be reported in three categories: staff paid directly by the network, staff paid by some organization other than the network with non-network money, (i.e. network members), and volunteers which include all non-paid staff such as student interns and community volunteers.

FULL TIME AND PART TIME EMPLOYEES. A full time employee is a person who works 35 hours per week or more for the network (usually at the headquarters operation). If an employee holds a full time position elsewhere (for instance, in the parent organization) and spends less than 35 hours per week on the business of the network, enter this person as a part time employee in this section. Report any person working less than 35 hours per week as part time.

FULL-TIME-EQUIVALENTS OF PART TIME EM-PLOYEES. The full-time-equivalency (FTE) of part time employees should be computed as follows: take the number of hours worked by each part time employee in a typical week and divide by the number of hours considered by your network to be a full-time work week (FTE's should be shown to only one decimal place). The following examples illustrate four possible cases. In rounding to one decimal place (tenths), any number having 0.05, or five one-hundredths, or more, should be rounded to the next higher tenth (e.g., 0.35 rounds to 0.4, as well as 0.36 to 0.39, while 0.31 to 0.34 round to 0.3).

Example a. A part time employee who works 30 hours per week where the work week is 40 hours should be computed as one part time employee with a 0.75 FTE, and reported as 0.8 FTE (that is, 30/40 = 0.75, which rounds to 0.8).

Example b. An employee who works 30 hours per week where the work week is 35 hours should be computed as one part time employee with a $0.86 \, \text{FTE}$, which should be reported as $0.9 \, \text{FTE}$ (that is, 30/35 = 0.86, which rounds to 0.9).

Example c. An employee who works a full 40 hours per



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week, but only for one-half the fiscal year, should be reported as one part time employee with a 0.5 FTE.

Example d. An employee who works a full 40 hours per week, but only 10 hours per week on network activities, should be computed as one part time employee with a 0.25 FTE, and reported as 0.3 FTE (that is, 10/40 = 0.25, which rounds to 0.3).

ITEM 18. ADMINISTRATORS. Enter those persons having administrative responsibility for determining policy and programs, financial management, personnel coordination and supervision, and public relations, for the organization. This category may include librarians if their main role in the network is that of administrator.

ITEM 19. LIBRARIANS. Enter those persons whose work requires professional training and skill in the theoretical and/or scientific aspect of library work, as distinct from the mechanical or clerical aspects. Include librarians who operate computer terminals. Exclude those librarians whose main role in the network is administration.

ITEM 20. COMPUTER-RELATED PERSONNEL. Enter those persons considered to be professionally skilled in the use of your organization's computers, if any. Include systems analysts, and other professional, computer-oriented personnel. Do not include keypunchers in this category.

ITEM 21. OTHER PROFESSIONALS. Enter those persons who are considered by training or performance to be professional but do not qualify for the above categories (e.g., accountants, engineers, information and subject specialists, etc.)

ITEM 22. LIBRARY TECHNICIANS AND PARAPROFES-SIONALS. Enter those persons whose training or performance is directed towards aiding a professional librarian.

ITEM 23. CLERICAL AND SUPPORT STAFF. Enter those persons in data entry, receiving, shipping, secretarial duties, delivery, plant and vehicle operation and maintenance, technicians, and keypunchers. Include all support staff provided by temporary agencies (e.g., Kelly Girls, Inc.).

ITEM 24. OTHER. Enter all non-library staff such as custodial or maintenance/service employees.

ITEM 25. TOTAL STAFF. Enter the total of all full time and part time staff for each column reported in Items 18 through 24.

ITEM 26. CONTRACTORS. Enter the total number of all contractors' personnel and consultants working on network business. Consultants include non-permanent professional staff receiving no fringe benefits, who are hired to perform specific tasks or provide advice and guidance in a particular subject area.

PART III — FUNDS RECEIVED, MOST RECENT FISCAL YEAR ENDING DURING 1984

SOURCE OF FUNDS. Figures reported in this section should reflect all dollars received during the fiscal year that ended during 1984 as well as any funds carried over from previous fiscal years. Do not include dollar valuations of donated services or materials.

ITEM 27. DUES AND FEES. Include all funds from members to cover dues and fees. These may include a surcharge or administrative fee for handling pass-through funds. (For description of pass-through funds, see also Specific Instruction to Item 45 on Page 1-4.)

ITEM 28. ASSESSMENTS. Report any funds collected from

members in the form of assessments (special payments, usually to cover the costs of specific projects or to cover projected losses).

SALE OF PRODUCTS AND/OR SERVICES. Include gross revenues derived from the sale of products or services, whether to participants or to non-members of the network. Include funds realized from contracts.

ITEM 29. PUBLICATIONS. Enter the total monies derived from the sale of publications originated and published by the headquarters operations or that are received from those originated and published by the network members.

ITEM 30. OTHER PUBLICATIONS. Enter monies received by headquarters operations for all other publications sold by the headquarters operation or sold by the network members.

ITEM 31. WORKSHOPS/SEMINARS. Include monies received by headquarters operations for workshops or seminars presented by network members.

ITEM 32. CONFERENCES. Include monies received by headquarters operations for conferences hosted by headquarters operations or by network members on behalf of the network.

ITEM 33. CONSULTING. Include funds received by headquarters operations for consulting performed by headquarters staff or network members.

ITEM 34. SALES OF COMPUTER SERVICES. Include all funds received by headquarters operations for sales of computer services by headquarters staff or network members.

ITEM 35. OTHER. Include funds received by headquarters for sales of products and/or services other than Items 29 though 34.

ITEM 36: MONIES RECEIVED FROM FEDERAL GOV-ERNMENT. Report grants and appropriations awarded directly to the network by the Federal government and include Federal monies distributed by the State, such as LSCA Title III funds distributed to your organization by the State.

ITEM 37. MONIES RECEIVED FROM STATE AND LOCAL GOVERNMENT. Report all monies awarded to the organization by State and local governments combined. Include grants as well as income from State and local taxes. Exclude Federal monies distributed by the State.

ITEM 38. FOUNDATIONS. Include any receipts received from private/public, nongovernmental foundations. These receipts should not be included in Items 36 or 37.

ITEM 39. OTHER SOURCES. Include any funds not reported in Items 36 through 41.

ITEM 40. INVESTMENT INCOME. Report funds derived from the investment of assets, such as bank interest and dividends, and income from stocks, bonds, and endowments.

ITEM 41. CARRYOVER FUNDS. Report any funds not expended in previous fiscal years but available for use during the fiscal year which you are reporting.

ITEM 42. OTHER FUNDS. Include all other funds not reported in Items 27 through 41 and specify nature of these funds. Exclude pass-through funds. (See specific instruction to Items 44 and 45 for definition of pass-through funds.).

ITEM 43. TOTAL FUNDS. Enter the total of all funds available during the fiscal year which you are reporting. This should be the sum of Items 27 through 42.

PART IV — EXI ENDITURES, MOST RECENT FISCAL YEAR ENDING DURING 1984

PASS-THROUGH FUNDS.

ITEM 44. FUNDS PAID FROM MEMBERS TO OTHERS. Include all funds paid from members to vendors, bibliographic utilities, etc, who provide members with services and receive funds through the network.

ITEM 45. FUNDS PAID BY MEMBERS TO OTHER MEMBERS. Include funds paid by members to other members that pass through the network but are not paid by the network. This occurs, for example, when one member provides a service or activity (i.e., programming, cataloging) to another member library and funds are exchanged between members via the network.

ITEM 46. TOTAL OPERATING EXPENDITURES. This represents the total dollar expenditures of the network, excluding pass-through funds, for the most recent fiscal year. It includes expenditures both for network administration (Items 47 through 50) and selected network functions (Items 51 through 56).

NETWORK ADMINISTRATION (Items 47 through 50). The subcategories under network administration are designed to include all administrative operating expenditures for the head-quarters for the fiscal year. Report the percentage each item represents of the total budget reported in Item 46. Total of Items 47 through 56 does not necessarily reflect 100% of the total budget, since only selected network functions are covered in

Items 51 through 56.

ITEM 47. SALARIES AND WAGES. Enter percent of the total budget (Item 46) paid for all wages for staff including fringe benefits for the purpose of network administration. Include permanent full time and part time, and temporary staff. Do not include wages paid by other organizations.

ITEM 48. CONTRACTOR SERVICES. Report the percent of the total budget paid to all contractors and consultants for all activities completed during the fiscal year for the purpose of network administration. Support staff obtained from temporary agencies (e.g., Kelly Girls, Inc.) should be included in Item 47.

ITEM 49. EQUIPMENT, SUPPLIES, MATERIALS. Include in this category all expenditures for all library and administrative equipment, supplies and materials, which contribute to the operations of the network. If necessary, estimate the percentage of the expenditures for these items if paid for by another organization. Calculate the percentage of the items used by the network for network business. 'nclude all reproduction and printing equipment and supplies bought or leased. Include supplies and materials for the organization itself and that which headquarters buys for its members. Include costs for books, periodicals, audiovisual materials, book jackets, literature boxes, etc. Include all depreciation on equipment.

ITEM 50. OTHER. Enter all other overhead and network operating expenditures. This would include travel, rent, etc.

NETWORK FUNCTIONS (Items 51 through 36). All expenditures in the following subcategories should reflect the expenditures for daily operation of the network activities and services and for the continuing development of the network and its personnel. The subcategories, Items 51 through 56, are not mutually exclusive and may be overlapping. They may not reflect 100 percent of the network functions budget.

iTEM 51. COMPUTER-RELATED EQUIPMENT, SOFT-WARE, SUPPLIES. Include all computer hardware and software used for network business. If the equipment and supplies are shared by another organization, report the percentage cost of the items shared by the network. Include all costs of software developed in-house, excluding salaries of staff. Include leasing and depreciation. Report all cost for library-allocated systems and contractors (i.e., MINIMARC, OCLC, LIBRIS, SUNY, FAXON.)

ITEM 52. TELECOMMUNICATIONS. This category includes teleconferencing, telephone lines, long distance networks used, TELEX and electronic mail, etc. Include all computer peripherals providing telecommunications.

ITEM 53. PROFESSIONAL DEVELOPMENT/TRAINING. Include costs for workshops, seminars, conferences, and other activities, which support the development of network personnel, and which are paid out of network funds.

ITEM 54. NETWORK DEVELOPMENT/MARKETING. Include all costs related to further development of network activities.

ITEM 55. LIBRARY SERVICES AND ACTIVITIES. Include all costs which pertain to providing library services and activities to members. Exclude costs covered under network administration in Items 47 through 50.

ITEM 56. OTHER SPECIAL FUNCTIONS. Include the percentage of the total operating expenditures (Item 46) that was designated for any functions other than those included in Items 51 through 56.

PART V-1— MAJOR NETWORK SERVICES AND ACTIVITIES

Part V-I identifies services or activities provided by your network. The completed table may not show every activity in which your network engages, but rather will report those services and activities which are most frequently provided and/or used by headquarters and members. Only "X's" are required to complete this part of the questionnaire.

SERVICE/ACTIVITY PROVIDED BY EXTERNAL SOURCES, HEADQUARTERS, OR MEMBERS. Enter an "X" for those services or activities that (a) originate at or are provided by sources external to the network or contracted out by the network (such as OCLC, SDC, MINIMARC, or another network), or (b) are provided by headquarters, or (c) provided by the network member(s). It is possible that a service or activity may be provided by all three sources. For example, if cataloging (as a network activity) is performed via OCLC, then OCLC is the source of the computer used to support this activity and an "X" should be entered in Column (a) under "EXTER-NAL SOURCE." If the headquarters has downloaded OCLC data into its own in-house computer for "local" online cataloging, then headquarters is also the source of computer support and online cataloging, and an "X" would go in both Columns (a) and (b). If headquarters provides an OCLC terminal on behalf of the network members, it is a source of sharing and an "X" should be entered in Column (b) under "HEADQUARTERS." If a member also provides an OCLC terminal for sharing with the network, it too is a source of sharing and an "X" should be

SERVICE/ACTIVITY USED BY HEADQUARTERS OR MEMBERS. Enter an "X" for those activities used by head-

entered in Column (c) under "NETWORK MEMBER(S)."



quarters and/or members as part of the network's activities. For example, if headquarters provides an OCLC terminal which is used only by the network members, an "X" would be entered in Column (e) under "MEMBERS." If the terminal is used both by headquarters and members, an "X" would be entered in Columns (d) and (e), respectively. Do not include services or activities used by headquarters or members which are not shared or used as part of the network activities.

SERVICE/ACTIVITY PLANNED. Enter an "X" in Column (g) if this service or activity is not currently provided as part of the network, but is expected to be provided within 2 years.

CIRCULATION

ITEM 57. CIRCULATION CONTROL. The service/activity of lending, which includes those activities connected with charging or discharging items and maintaining records borrowed from the network member or headquarters collections. In a network environment, it includes the use of shared computer-based circulation systems, either shared by a cluster or members with headquarters facilitation, or provided directly and entirely by headquarters to participating members.

ITEM 58. INTERLIBRARY LOAN. A transaction in which headquarters or a network member lends an item, or photocopy of an item, to another cooperating member. Activities also include acting as a clearinghouse for interlibrary loan requests, using computer information data bases to locate the information requested, and referring interlibrary loan requests from one library to another.

ITEM 59. OTHER. Specify any other circulation activities not covered in Items 57 through 58.

TECHNICAL SERVICES

The subcategories below represent services that may be utilized for network activities.

ITEM 60. ACQUISITIONS. Those activities related to obtaining library materials (books, periodicals, equipment and other materials), through purchase, exchange, or gift; includes preorder bibliographic searching, ordering and receiving materials, processing invoices, and the maintenance of the necessary records related to acquisitions.

ITEM 61. CATALOGING. Includes those activities performed by staff of headquarters and/or network members, or other outside personnel, in preparation of the traphic records for a catalog.

ITEM 62. CATALOG PRODUC. A. The process of producing catalog cases, tape, microfiche, microfilm, etc.

ITEM 63. UNION LIST/CATALOG PRODUCTION. The process of compiling and providing union catalogs and/or lists of library holdings; includes lists of monographs, non-print media (e.g., computer tapes, audio-visual materials, etc.), and serials (e.g., journals, newspapers, magazines, etc.).

ITEM 64. PHYSICAL PROCESSING. The activities carried out by a library, processing center, or others, to prepare items for use. For example, physical processing of books includes jacketing, affixing labels and pockets, ownership marking, etc.

ITEM 65. CONSERVATION/PRESERVATION. The activities associated with maintaining library and archival materials for use, either in their original physical form, or in some other useable way. Includes the use of chemical and physical proce-

dures for preservation, binding and rebinding procedures, preservation microfilming, etc.

ITEM 66. OTHER (SPECIFY). Specify any other activities which are in support of technical-information services for the network which were not covered in the above subcategories. If any of the above technical service(s) is (are) performed through the network by a central processing facility, please indicate here.

REFERENCE/INFORMATION AND REFERRAL SERVICE

Includes preparation or verification of bibliographic citations, or both, responding to information requests, accessing computer information databases for reference purposes, and allocating responsibility for reference services.

ITEM 67. REFERRAL LISTS/DIRECTORIES. Includes manual or computer searching of lists, files, directories or special-purpose data bases used for referral of patrons to resources, such as special collections, consultants, equipment, etc. Also includes development of files, directories, or databases used by the network in referral.

ITEM 68. ACCESS TO ONLINE CATALOGS. Includes online access to catalogs through an external system such as OCLC or through a network-installed or network-developed system.

ITEM 69. ACCESS TO ONLINE DATABASES. Includes access to online bibliographic databases (such as Medline, Compendex, LEXIS, CA, etc.) and numeric databases (such as ARBITRON, CENSUS, AIRES, BI/DATA, etc.) available externally through vendors, database producers, or by other means.

ITEM 70. OTHER (SPECIFY). Accounts for any other reference/referral services not listed here. This would include any other information (e.g., printed indices) or referral service provided to network participants or headquarters staff. Also includes access to internal online databases and to external database "download" from vendors or database producers. (If a database is "downloaded," the provider of the computer supporting this activity would be both external and internal by headquarters or a member.)

RESOURCE DEVELOPMENT AND SHARING

Items 71 through 75 encompass activities and components that affect the further development of network resources.

ITEM 71. COLLECTION DEVELOPMENT. Encompasses those activities which relate to or impact on the development of library collections of the network participants, including determining selection policy, assessment of user needs, collection evaluation, selection of materials, etc.

ITEM 72. MATERIALS EXAMINATION CENTER. This includes the examination of all new acquisitions of books, audiovisual materials (films, slides, sound takes, and records), microfiche, and other information/reference materials for possible inclusion in the network holdings or for sharing by network participants.

ITEM 73. EQUIPMENT AND SUPPLIES. Includes sharing of library equipment such as microfiche readers, computer equipment (hardware and software), and all equipment and supplies shared or owned by the network not itemized elsewhere in Part V₁1.

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ITEM 74. STAFF. Accounts for staff as part of a formal exchange program that are exchanged between headquarters and members or between members, as well as staff shared by headquarters with members or by members with members.

ITEM 75. OTHER (SPECIFY). Account for any staff materials, equipment accommodations not listed in Items 71 through 74.

COMMUNICATION

ITEM 76. ELECTRONIC MAIL/TELETYPE. Any electronic message exchange system available to the headquarters operation or network members, or both, as well as any teletype or TWX.

ITEM 77. TELECONFERENCING. Teleconferencing facilities or services available to the headquarters or to the network members, or both.

ITEM 78. TELEFACSIMILE. Telefacsimile equipment installed and utilized by headquarters or network members, or both.

ITEM 79. OTHER. Specify any other communication equipment available for the use by the network headquarters or its members, or both.

ITEM 80. CONTINUING EDUCATION. Includes continuing education for headquarters staff (if any), as well as education programs for staff of the network members.

ITEM 81. TRAINING/WORKSHOPS. Includes in-service training as well as training of network member staff.

ITEM 82. PROFESSIONAL COLLECTION. Includes professional materials (e.g., journals, books, audiovisuals, etc.) acquired and maintained for use by the professional staff of the headquarters or network members, or both.

ITEM 83. OTHER. Specify any other professional development activities.

ITEM 84. DELIVERY SERVICES. Includes: (a) all staff personnel based at headquarters or network member libraries who deliver materials to headquarters and/or its members in support of network activities and administration on a regular basis; (b) all delivery services such as professional courier companies and airline couriers that support network business. Include delivery services which are cooperatively purchased between members and members or between members and headquarters.

ITEM 85. COOPERATIVE PURCHASING. This line item represents goods and maintenance services which are "mass" purchased, leased or rented through written agreements, usually for discounted rates, shared by the network and its members. This includes the purchase of books, periodicals, microforms, audiovisual materials utilized by network and participants, or both. It also includes all shared equipment such as projectors, fiche readers, and reproduction and computer equipment, in addition to administrative and library supplies, which contribute to network functions.

ITEM 86. STORAGE/WAREHOUSING. This line item represents types of materials of network members (which are not in high demand) that may be stored. The category includes all materials in paper form or microform, such as reports, books, etc. It also includes all audiovisual materials (films, slides, sound tapes and records) available in the network members' collections. In addition, include all micro, mini, and mainframe com-

puter disks, and tapes utilized in network activities, and any other materials stored or warehoused.

CONSULTATION SERVICES

ITEM 87. TO NETWORK MEMBERS. Indicate consultation performed by headquarters, (a) network member(s), or any external source, for network members.

ITEM 88. TO OTHERS. Indicate consultation performed for other than network members (i.e., libraries, networks, library systems, government bodies, etc.)

OTHER

ITEM 89. RECORDKEEPING. Includes maintaining statistical and financial records, derived from information files such as circulation, acquisitions, interlibrary loans, etc., necessary to support management functions and decisionmaking.

ITEM 90. NETWORK DEVELOPMENT/MARKETING. Includes activities related to the acquisition of new participants, new services, and the survey of participants to determine efficiency and relevance of network services and products. Includes production of vehicles of communication between network and members (i.e., newsletters, announcements, etc.) Includes formal programs to perform statistical, research, and feasibility studies, and programs to develop library systems and computer information systems.

ITEM 91. MANAGEMENT/ADMINISTRATION OF COM-PUTER INFORMATION SYSTEMS. Includes maintaining computer information systems, selling access to these systems, and acting as an intermediary (broker) between the owner of the systems and the libraries purchasing access to these systems.

ITEM 92. OTHER SERVICES/ACTIVITIES. Enter here any comments on the above section or any additional information or other relevant components of the network activities.

PART V-2— PROVIDERS OF NETWORK RESOURCES

This section defines the providers of personnel, special purpose equipment, and computer equipment utilized in the completion of network functions. The resources do not necessarily need to be exclusively dedicated to network business, but may merely be used for network services, activities, and administration.

Base the data on the fiscal year reported in Parts III and IV.

Terminals include "dumb" terminals as well as those with limited memory functions and that are linked to a central processing unit (CPU) (main memory), which access the CPU either locally or through remote access. Stand-alone microcomputers should be included in the CPU category (Items 94 and 98).

Peripherals would include any other computer hardware such as acoustic couplers, dedicated telephone lines and data phones, printers, modems, plotters, etc.

Special purpose equipment includes equipment used for book binding, printing, reproduction, etc.

ITEMS 93 THROUGH 100.

A. RESOURCES FOR LIBRARY SERVICES AND ACTIVITIES. For Items 93 through 96, place an "X" next to the provider (a) Headquarters, (b) Members, or (c) Other. "Other" applies to contractors or other organizations which provide or



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donate resources (terminals, CPU's, personnel, or special equipment). A combination of boxes may be "X'd" if the resources are provided by more than one source. For example, if the headquarters and a member library are both providing terminals for the use of all members, then place an "X" in both Box (a) and Box (b) next to the resource.

B. RESOURCES FOR ADMINISTRATIVE FUNCTIONS. For Part B of the table, follow the same procedures as mentioned above for Part A. Resources for Part B may represent the same or different personnel, computer hardware, or special equipment utilized for the Library Services and Activities sec-

tion (Part A).

DEPARTMENT OF HEALTH, EDUCATION AND WELFARE EDUCATION DIVISION

WASHINGTON, D.C. 20202

READ INSTRUCTIONS BEFORE COMPLETING THIS FORM

FORM APPROVED O.M.B. NO. 515-77023

CODE INCES USE ONLY

SURVEY OF LIBRARY NETWORKS AND COOPERATIVE LIBRARY ORGANIZATIONS 1977-1978

DUE NOT LATER THAN

Return the completed form to the Department of Health, Education, and Welfare, Education Division, National Center for Education Statistics, Room 3147, 400 Maryland Avenue, SW., Washington, D.C. 20202. This report is authorized by law (20 U.S.C. 1221-1). While you are not required to respond, your cooperation is needed to make the results of this survey comprehensive and timely. PART I - ORGANIZATIONAL STRUCTURE 10. CHECK THE ONE TERM THAT BEST DESCRIBES THE 1. NAME AND ADDRESS OF ORGANIZATION HEADQUARTERS ADMINISTRATION OF THIS ORGANIZATION (Make any needed corrections below, including ZIP code) PRIVATE, NOSPROFIT PRIVATE, PROPRIETARY DTHER, (specify) -2. ODES THIS ORGANIZATION HAVE A PERMANENT MEAD-□ NO QUARTERS? T YES 11. WHICH ITEM BEST DESCRIBES THE PREQUENCY OF THE ORGANIZATION'S OPERATIONS? (check one only) 1 ACRONYM 4. NAME, TITLE, AND TELEPHONE NUMBER OF DIRECTOR OF OAILY OPERATIONS (5-7 days per week) ONGOING OPERATIONS, BUT LESS OFTEN THAN OPERATIONS FOR THIS ORGANIZATION DAILY PERIODIC MEETINGS, WORKSHOPS, ETC., ONLY 12. ENTER THE NUMBER OF LIBRARY UNITS WHICH PARTICI-PATE IN THIS ORGANIZATION FOR EACH LIBRARY CATE-GORY BELOW. COUNT BRANCHES IF THEY PARTICIPATE DIRECTLY AND NOT THROUGH THE CENTRAL LIBRARY. COUNT EACH PARTICIPANT ONLY ONCE COLLEGE AND/OR UNIVERSITY LIBRARY (include college iniversity health sciences and law libraries which participate separately) S. TELETYPE NUMBER SCHOOL LIBRARY & NAME OF RESPONDENT, TITLE AND TELEPHONE NUMBER **PUBLIC LIBRARY** 61 CENTRAL BRANCHES ML BPECIAL LIBRARY (include medical libraries, law . . . libraries, government libraries, atc.) • : STATE LIBRARY AGENCY 7. NAME OF PARENT OR SPONSORING AGENCY, IF ANY _ OTHER (specify)-13. WHICH ITEM BEST DESCRIBES THE AREA SERVED BY THIS IF PART OF A STATE SYSTEM OR NETWORK FOR LIBRARY ORGANIZATION? (check one only) COOPERATION (check here) (e) REGIONAL (within a Stere) 8. THE YEAR THIS ORGANIZATION BECAME OPERATIONAL WAS () STATEWIOE (c) MULTISTATE B. DOES THIS ORGANIZATION FUNCTION ON THE BASIS OF A MI NATIONWIDE WRITTEN AGREEMENT? () INTERNATIONAL □ NO TYES

ICES FORM 2386-2, 12/78 (FM Control No. 80)

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COPY 2 - NCES

PART II - STAFF OF ORGANIZATION

CODE (NCES USE ONLY)

(Limit responses to those staff members working on the business of this organization. See page 2 of the instructions for further details)

page 2 by the instructions for fa			NUMBER OF PERSONS ON OR ABOUT JUNE 1, 1978						
		PAID STAFF		N	ION-PAID STAFF				
			PART-TIME			PART-TIME			
POSITION	LINE NO.			FULL-TIME fin whole nursbers)	NUMBER OF PERSONS (In whole numbers)	FULL-TIME EQUIVA- LENT®	FULL-TIME (in whole members)	NUMBER OF PERSONS fin whole numbers)	FULL-TIME EQUIVA- LENT®
		<u> </u>	(6)	(c)	(4)	(e)	<u>(f)</u>		
PROFESSIONAL STAFF Administrators	14								
Librarians	15								
Computer-related personnel (programmers, system analysis, etc.)	16						<u> </u>		
Other professionals (include information and subject specialists)	17								
LIBRARY TECHNICIANS AND PARAPROFESSIONALS	18		<u> </u>		<u> </u>				
CLERICAL AND SUPPORT STAFF finclude keypunchers, drivers, maintenance stoff, etc.)	19				<u> </u>				
TOTAL STAFF	20					<u> </u>			

PART III - FUNDS RECEIVED, FISCAL YEAR ENDING BETWEEN JULY 1, 1977-JUNE 30, 1978

SOURCE OF FUNDS	LINE NO.	AMOUNT (whole dollars only)
Dues and fees from participants	21	S
Assessments from participants .	-22	\$
Funds derived from sale of products and/or services (include contractual agreements; exclude dues, fees, and assessments from participants)	23	S
GRANTS Fedural government (include Federal monies distributed by the State)	24	3
State and local governments (exclude Federal monies distributed by the State)	25	\$
Foundations	26	\$
Other grants not included above	27	S. Santaration S. C. Co.
Income from State and local taxes	28	S
Investment income	29	S
Carryover from previous fiscal years	30	S
Other funds, specify (exclude pass-through funds)	<u>.</u>	. s
	31	\$
TOTAL PUNDS (exclude page-shrough funds)	32	\$
Pass-through funds received during the fiscal year which you are reporting	. 23.	S

eport FTE to one decimal place.

LOUGH STATE OF MARKET STATES

PART IV - EXPENDITURES, FISCAL YEAR ENDING BETWEEN JULY 1, 1977 - JUNE 30, 1978

CODE (NCES USE ONLY)

(Limit responses to those expenditures for the business of this organization. See page 2 of the instructions for further details)

TYPE OF EXPENDITURE	LINE NO.	AMOUNT (fwhole dollars only)
Salaries and wages (for all staff reported on Line 20, Columns a and b, who are on the organization budget)	34	S
Fringe benefits (for all suff on organization budges)	35	S
Supplies and materials	36	S
Reproduction services (exclude capital outlay)	37	S
Equipment finclude both lease and purchase costs for all equipment other than computers)	38	s
COMPUTER COSTS Hazdware (exclude fees paid to other library organizations for hardware)	39	\$
Software (exclude feet paid to other library organizations for software)	40	S
Telecommunications (include selephone; exclude fees paid to other library organizations for telecommunications)	41	S
Plant and vehicles operation and maintenance	42	S
Staff travel expenses	43	S
Other operating expenditures, specify (exclude pass-through funds)		S
	44	S
		3
		s
Capital outlay for sites, buildings, remodeling, purchase of vehicles, etc. (exclude expenditures for equipment and computers)	.45	s
TOTAL EXPENDITURES (exclude pass-shrough funds)	46	S
Pass-through funds expended during the fiscal year which you are reporting	47	s



PART V - MAJOR SERVICES AND ACTIVITIES

(Limit responses to those services or activities engaged in by the cooperative. See page 3 of the instructions for further details)

Indicate with an "X" those services or activities which it is the purpose of this organization to provide. PLANNED SERVICE/ACTIVITY SERVICE/ACTIVITY SERVICE/ACTIVITY SERVICE/ACTIVITY SERVICE/ACTIVITY ENGAGED IN **ENGAGED IN BY** PROVIDED NOT PROVIDED **ONLY BY ONLY AT HEADQUARTERS** LINE COOPERATIVE **PARTICIPANTS** AND PARTICIPANTS HEADQUARTERS 10. SERVICE/ACTIVITY NO YES m (1) (4) **(:)** 101 (0) ACQUISITIONS Selection of materials Ordering and/or purchasing materials 40 Perchasing supplies and equipment 90 51 CATALOGING Shared cataloging Catalog card or tape production 62 53 Union list or Catalog production REFERENCE Reference services Filling Interflorary loan requests Resouting interlibrary loan requests 55 CIRCULATION 57 Reciprocal borrowing 88 Delivery service ADMINISTRATIVE AND OTHER PUNCTIONS Management and administration of computer information systems Training and education 80 61 Consulting EZ. Research and development 63 Warehousing Sharing and exchange of equipment 4 Other, specify 65

-4-



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					,	CODE (VCES USE O	NLYj
PART VI - COMPUTER AN	D OTHER	AUTOMA	TED SUP	PORT				
6. IS COMPUTER EQUIPMENT USED FOR LIB (other than administrative purposes)	RARY PUR	POSES BY	OUR OR	BANIZĄTIO	N7		TYES [⊃no
7. ARE COMPUTER TERMINALS USED FOR L (other than administrative purposes)	.IBRARY P	URPOSES B	Y YOUR O	RGANIZAT	ION7		TYES [⊃no
B. ENTER THE NUMBER OF COMPUTER INFO YOUR ORGANIZATION, AND SPECIFY TH					SED BY	Numbe	rj	
]		
9. ENTER THE NUMBER OF TITLES IN THE ORGANIZATION. COUNT EACH TITLE OR	ABOVE DA	TA BASES T	CAT ARE	ACCESSED	BY YOUR	(Numb	er)	
Enter an "X" for each library service which of automated support (other than for admir	is perforn istrative p	ned using co urposes)			omated s	upport, and	indicate t	he means
	Į	<u> </u>	COMP	UTER			TELECOMMUNI-	
A177044 PPD 8701407	LINE	ONL	INE	OFFL	INE		IS OTHER ELEPHONE	MICRO- GRAPH- ICS
AUTOMATED SERVICE	NO.	ST/YD- ARD	MINI	STAND- ARD	MINI	TELE-	TELE- FAC- SIMILE	
	+	(a)	(b)	(c)	(4)	(e)	(f)	(2)
Acquisitions	70	 _		<u> </u>		<u> </u>	<u> </u>	
Cataloging	71	1		 		 	\	
Union List Production	72	 		}	_	 		
Reference	73	ļ		1	•	-	 	├
nterlibrary Loan	74	<u> </u>		<u> </u>	_	 	 	
Circulation	76	J		+		+	├	-
Other, specify	76							
PART VII - REQUEST F	OR COPY	OF THE R	EPORT I	RESULTIN	G FROM	THIS SUR	VEY	1
TO REDUCE PRINTING AND DISTRIBUTION E HOWEVER, SINGLE COPIES OF THE STATISTI AND MAY BE OSTAINED FROM NCES, AS LO	CAL REPO NG AS THE	RT RESULT	ING FROM UPPLY LA	A THIS SUR' LSTS, BY CH	VEY SHOL	LD BE AV	AILABLE IN WING ITEM	FALL, 19
SEND A COPY OF THE STATISTIC THE DIRECTORY PRODUCED FROM THIS SUI		T FROM TH	IS SURVE		'ATIŜTICA	L REPORT	MAY BE PL	RCHASE
ROM THE SUPERINTENDENT OF DOCUMEN								
REMARKS .				- <u>-</u>				•
				•				
			••••	- •				

INSTRUCTIONS FOR COMPLETING SURVEY OF LIBRARY NETWORKS AND COOPERATIVE LIBRARY ORGANIZATIONS

Read the following explanations and instructions before completing this form. Detach and mail the completed form to the Department of Health, Education, and Welfare, National Center for Education Statistics, Room 3147, 400 Maryland Avenue, SW., Washington, D.C. 20202.

GENERAL INSTRUCTIONS

LIBRARY NETWORKS AND COOPERATIVE LIBRARY ORGANI-ZATIONS. A cooperative library organization® is one whose participants agree to share their resources through interinstitutional cooperation, either formally or informally. For the purposes of this survey a cooperative library organization must meet ALL of the following criteria:

- The participants in the organization are primarily or exclusively libraries.
- b. The organization and/or its participants engage in cooperative activities which are beyond the scope of traditional interlibrary loan services as stated in the American Library Association code.
- c. The activities of the organization must extend beyond reciprocal berrowing, which is defined on page 3 (Line 57) of the specific instructions.
- d. The organization operates for the mutual benefit of participating libraries.
- e. The scope of the organization is interinstitutional.

DATA REQUESTED AND THE TIME PERIOD COVERED. This questionnaire has been formulated to obtain comprehensive and uniform data on organizational structure; staff, funds, and expenditures (if any); major services and activities provided; and computer and other automated support (if any). Report data for the fiscal year that ended between July 1, 1977 and June 36, 1978.

ORGANIZATIONAL RESPONSE. All data reported must refer to the particular cooperative library organization responding. Some specific examples follow.

- a. If your library organization is autonomous, report all staff, budget, activities, etc.
- b. If your cooperative library organization consists of a council or committee which is part of a larger organization, such as an educational consortium, report only the staff, budget, activities, etc., of the committee or council responding. Exclude staff, budget, etc., of the larger organization.
- If except at the state of the second of the state of the second of the state of the second of the state of the state

COMPLETE ALL ITEMS. Do not leave any items blank. Errors "O" if the appropriate entry for an item is zero or "none". Enter "" if an item is not applicable to year expanization. If an exact figure is not evailable for a particular item, but it is known first the emount is greeter than zero. ENTER AN ESTIMATE OF THE AMOUNT and tacker in parenthenes. Estimates are important if exact data are not suchable. Enter "N/A" if data are not suchable and it is not possible to estimate. Enter "X" where requested to indicate the services or activities provided by the organization.

QUESTIONS. If you have any querdons concerning your report, telephone Mrs. Helen Eckard, Project Officer, at (202)472-5977, or Mrs. Ruth Rower, Survey Edizor, at (703)960-4600.

SPECIFIC INSTRUCTIONS

PART I - ORGANIZATIONAL STRUCTURE

LINE 1. NAME AND ADDRESS. If there is no headquarters, enter the name of the organization and address of the director of operations for the organization. Make any needed corrections on the label.

LIME 2. MEADQUARTERS. Indicate whether the organization has an office or building which is the center of operations and control for cooperative activities.

LIME 3. ACRONYM. If applicable, enter the acronym by which this organization & known. For example, SOLINET is the acronym for the Scutheastern Library Network.

LINE 4. EMPRECTOR OF OPERATE WHS. Enter the name, title, and which we sumber of the director of operations for the organization. The director of operations is the person who is responsible for the day activities of the organization.

LINE S. TELETYPE NUMBER. Enter the full teletype number, if applicable.

LINE 6. RESPONDENT. Enter the name, title, and telephone samber of the person completing the questionnaire.

LINE 7. PARENT OR SPONSORIMG AGENCY. If applicable, enter the name of the parent or spessoring agency with which your organization is affiliated. Indicate in the box provided if your organization is State-sponsored.

LINE 8. OPERATIONAL DATE. Enter the two-digit figure which represents the year in which the organization began to function in its intended manner. For example, if an organization was begun in 1970 but did not start providing its intended services until 1973, a "73" should be entered in the space provided.

LINE 9. WRITTEN AGREEMENT. Indicate whether the organization functions on the basis of a written agreement of any kind, such as a contract, charter, etc.

LINE 10. ADMINISTRATION, Describe the administration of this organization. Check one box only.

- a. Public organizations are defined as being under the control of Federal, State, and hard government agencies.
- Exists organizations are defined as being independent monprofit or organized as proprietary profit making.
- c. If there is no formal administration of your organisation, shock the item marked "water" and explain.

The term "cooperative library organization" is used throughout the survey to designate library networks, library organizations and information centers, and other cooperative library arrangements.



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LINE 11. FREQUENCY OF OPERATIONS. Indicate the frequency of your operations: daily activity (five to seven days per week), ongoing activity which is less often than daily, or periodic meetings, workshops, seminars, etc.

LINE 12. NUMBER OF PARTICIPANTS. Enter the number of libraries which directly participate in the activities of your cooperative library organization for each category of library listed. Each participant or member should count as one, whether it is a central library or branch library. Count branch libraries only if they participate directly and not through the central library.

LINE 13. AREA SERVED. Check the one term that best describes scope of the area which your organization serves.

- a. If area of service is less than Statewide, enter "Regional".
- b. If all of the libraries in a State are served, enter "Statewide".
- c. If libraries served are in more than one State but not in all 50 States enter "Multistate".
- d. If libraries in all 50 States are served, enter "Nationwide".
- e. If libraries outside the 50 States are served, enter "international".

PART II - STAFF OF ORGANIZATION

PAID AND NON-PAID STAFF. Only staff assigned to work on cooperative organization business are to be reported in this part of the question-naire. These staff members should be reported in two major categories: paid staff (those persons who are paid for their work in the cooperative organization, either by the organization directly or from another source) and non-paid staff (include volunteers, contributed staff, and any other persons who perform functions for the cooperative organization without pay).

FULL-TIME AND PART-TIME EMPLOYEES. A full-time employee must work 35 hours per week or more for the library cooperative. If an employee holds a full-time position elsewhere (for instance, in the parent organization) and spends less than 35 hours per week on the business of the library cooperative, enter this person as a part-time employee in this section. Any person who works less than 35 hours per week should be reported as part-time.

FULL-TIME EQUIVALENTS OF PART-TIME EMPLOYEES. The full-time equivalency (FTE) of part-time employees should be computed as follows; take the number of hours worked by each part-time employee in a typical week and divide it by the number of hours worked by a full-time employee in a typical work week (FTE's should be shown to only one decimal point). The following examples illustrate two typical cases.

- a. A part-time employee who works 30 hours per week where the full-time work week is 40 hours should be computed as one part-time employee with a .75 FTE, but should be reported as .8 FTE.
- b. An employee who works a full 40 hours per week but only for one-half the fiscal year should be reported as one part-time employee with a .5 FTE.

LINE 13. ADMINISTRATORS. Enter those persons having administrative responsibility for determining policy and programs, financial management, personnel coordination and supervision, and public relations for the organization.

LINE 15. LIBRARIANS. Enter those persons whose work requires professional training and skill in the theoretical and/or scientific aspect of library work, as distinct from the mechanical or ciercal aspect. Include librarians who operate computer terminals.

LINE 16. COMPUTER-RELATED PERSONNEL. Enter those parsons considered to be professionally skilled in the use of your organisation's computers, if any. Include systems analysts, programmers, and other professional computer-oriented personnel. Do not include keypunchers in this category.

LINE 17. OTHER PROPESSIONALS. Enter those persons who are considered by training or performance to be professional but do not qualify for the above categories (e.g., accountants, engineers, information and subject specialists, etc.).

LINE 18. LIBRARY TECHNICIANS AND PARAPROFESSIONALS.

Enter those persons whose training or performance is directed towards aiding a professional librarian.

LINE 19. CLERICAL AND SUPPORT STAFF. Enter those persons in keypunching, receiving, shipping, secretarial duties, delivery, plant and vehicle operation and maintenance, etc.

LIME 20. TOTAL STAFF. Enter the total of all full-time and parttime staff for each column reported.

PART III — FUNDS, FISCAL YEAR ENDING BETWEEN JULY 1, 1877—JUNE 30, 1878

FUMDS. Figures reported in this section should reflect all dollars received during the fiscal year that ended between July 1, 1977—June 30, 1978, as well as any funds carried over from previous fiscal years Do not include dollar valuations of in-kind services or ma.crials.

LINE 21. DUES AND FEES. Include all funds from participants to cover dues and fees.

LINE 22. ASSESSMENTS. Report any funds collected from participants in the form of assessments (special payments, usually to cover the costs of specific projects or to cover projected losses).

LINE 23. SALE OF PRODUCTS AND/OR SERVICES. Include funds derived from the sale of products or services, whether to participants or to non-members of the organization. Include funds realized from contracts.

LINE 24. GRANTS FROM PEDERAL GOVERNMENT. Report all grants awarded directly to the organization by the Federal government and include Federal monies distributed by the Late, such as LSCA Title III funds distributed to your organization by the State.

LINE 25. GRANTS FROM STATE AND LOCAL GOVERNMENTS. Report all grants awarded to the organization by State and local governments. Exclude Federal monies distributed by the State, as these are reported in Line 24.

LINE 28. POUNDATIONS. Include all receipts from grants awarded and/or associations such as the Kellogg Foundation or the Council on Library Resources.

LINE 27. OTHER GRANTS. Include any receipts from grants not reported in Lines 24-26.

LINE 28. INCOME FROM STATE AND LOCAL TAXES. Report all funds derived from taxation at the State or local levels.

LINE 28. INVESTMENT INCOME. Report funds derived from the investment of assets, such as bank interest and dividends, and income from stocks, bonds, and endowments.

LINE 30. CARRYOVER FUNDS. Report any funds not expended in previous fiscal years but available for use during the fiscal year which you are reporting.

LINE 31. OTHER FUNDS: Include funds not reported in Lines 21-30, and specify the nature of these funds. Exclude pass-through funds.

LINE 32. TOTAL FUNDS. Enser the total of all funds available during the fiscal year which you are reporting. This should be the sum of Lines 21-31. Exclude pean-through funds.

LINE 33. PASS-THROUGH FUNDS. Report all funds received from participants in your organization to be passed on to other library organizations for services.

PART IV - EXPENDITURES, FISCAL YEAR ENDING BETWEEN JULY 1, 1977-JUNE 30, 1978

EXPENDITURES. All expenditures made during the fiscal year that ended between July 1, 1977—June 30, 1978, are to be reported in this section. Expenditures should include only monies expended directly by the organization carough its Sudget.

LINE 34. SALARIES AND WAGES. Include salaries and wages of all staff reported on Line 20, Columns a and b, but exclude fringe benefits of staff who work for the organization. Do not include salaries or wages paid by other organizations. Do not include salaries or wages in any other expenditure items (Lines 35-44).

LINE 35. FRINGE BENEFITS. Report the sum of all fringe bene-



fits provided by your organization for all staff whose salaries and wages are shown in Line 34. Include all menies expended as each contributions in the form of supplementary or deferred compensation other than salary. The employees' contributions should be excluded when determining the dollar amount of frings benefits, include monies expended for retirement plans; hospitalization, surgical, and medical plans, guaranteed disability income protection plans; bousing plans; social security taxes; unemployment compensation plans; bousing plans; social security taxes; unemployment compensation; and other applicable benefits in kind with cash options.

LINE 38. SUPPLIES AND MATERIALS. Include all expenditures for supplies and materials for the organization itself and supplies and materials the Leadquarters buys for its members. Include costs for books, periodicals, microforms, sudiovisual matrials, book jackets, literature boxes, 4%.

LINE 37. REPRODUCT(OM SERVICES. Include expenditures paid to reproduce and/or print materials either for organization or member use. Include all costs for maintaining the reproduction are member use. Include all costs for maintaining the reproduction are member subcontracted services, if any. Do not include expenditures for purchase of reproduction equipment, computer reproduction, or supplies.

LINE 38. EQUIPMENT. Include all purchase and leasing coats for equipment other than computers, such as desks, chairs, tables, adding machines, calculators, and reproduction equipment.

LINE 39. COSTS FOR COMPUTER MARDWARE. Report all costs related to computer hardware, excluding leasing and purchasing of a central processing unit (CPU), terminals and other peripheral equipment, time-sharing and maintenance contract costs. Do not include fees paid to other library organizations for these isems.

LINE 40. COSTS FOR COMPUTER SOFTWARE. Include any costs associated with software expenses other than salaries or organization staff. For example, include costs for the purchase of prepackaged programs. Do not include any money paid to other cooperative library organizations for these items.

LINE 41. TELECOMEAUNICATIONS. Include all costs involved with telecommunications, including costs for teletype (TWX and telex), coaxial cable, WATS, telephone, leased lines, and telefacsimile. Include costs for TWX used for interlibrary loans and computer-related uses. Do not include fees paid to other cooperative library organizations for these services.

LINE 42. PLANT AND VEHICLES OPERATION AND MAINTEN-ANCE. Include all costs for utilities, rental, contractual services, custodial supplies, gasoline, insurance premiums, payments to other organizations for overhead and for administrative services rendered, atc.

LINE 43. STAFF TRAVEL EXPENSES. Report all costs to the organization for travel expenses of staff, including travel for staff enrichment and training, consulting, etc.

LINE 44. OTHER OPERATING EXPENDITURES. Include any miscellaneous expenditures not included in any of Lines 34 through 43, and specify the nature of these expenditures. Exclude pass-through funds.

LINE 45. CAPITAL OUTLAY. Include capital outlay for such items as tites, buildings, remodeling of old buildings and purchase of vehicles. Do not include expenditures for computers or for any equipment included in Line 38.

LINE 46. TOTAL EXPENDITURES. Enter the figure which represents total expenditures during the fiscal year which you are reporting. This figure should be the sum of Lines 34-45. Exclude pass through funds.

LINE 47. EXPENDITURE OF PASS-THROUGH FLANDS. Report all funds which were passed on to other library organizations for service; during the fiscal year which you are reporting.

PART V - MAJOR SERVICES AND ACTIVITIES PROVIDED

WHICH SERVICES/ACTIVITIES TO INCLUDE. The intent of Part V of this questionnaire is to identify those services or activities which it is the purpose of your organization to provide. Thus, the completed table may not show every activity in which your organization engages, but rather will report those services or activities which are in all likelihood those most frequently provided.

REPORTING COOPERATIVE RERVICE/ACTIVITIES. For each service or activity listed enter and "X" in ONE of Columns a, b, or c to indicate where the service is provided. For every service/activity not provided, enter an "X" in Column d. For those services with an "X" in Column d, enter an "X" in Column e if provision of the service is planned, or in Column f if provision of the service is not planned.

LIME 48. SELECTION OF MATERIALS. Includes joint selection of books, periodicals, microforms, audiovisual materials, etc., allocation of responsibility for selecting materials, exchanging lists of potential or current acquisitions, and acting as a clearinghouse for the exchange of sifts.

LIME 49. ORDERING/PURCHASING MATERIALS. Includes joint ordering or purchasing of books, periodicals, microforms, audiovisual materials, etc., in volume, usually in order to take advantage of discounts.

LINE SO. PURCHASING SUPPLIES AND EQUIPMENT. Includes joint purchasing of supplies such as catalog cards, book jackets, and literature boxes, and sudiovisual and office equipment.

LIME S1. SHARED CATALOGING. Includes joint lataloging of materials, accessing computer information data bases for cataloging, and providing catalog data to others.

LINE 82. CATALOG CARD/TAPE PRODUCTION. Includes joint production of catalog cards or tapes and duplicating cards for members.

LINE S3. UNION LIST/CATALOG PRODUCTION. Includes production and/or maintenance of union lists and catalogs of books and

LINE 84. REFERENCE SERVICES. Includes preparation and verification of bibliographic citations, responding to information requests, . . . accessing computes information data bases for reference purposes, and allocating responsibility for reference services.

LINE 55. FILLING INTERLIBRARY LOAN REQUESTS. Includes transmittal of photocopied materials as well as original printed materials.

LINE 56. REROUTING INTERLIBRARY LOAN REQUESTS. Includes acting as a clearinghouse for interlibrary loan requests, using computer information data bases to locate the information requested, and referring interlibrary loan requests from one library to another.

LINE 57. RECIPROCAL BORROWING. Special borrowing privileges which enable persons to check out materials from libraries where they are not entitled to normal borrowing privileges.

LINE SS. DELIVERY SERVICE. A regular service which facilitates the exchange of materials and/or equipment among participants.

LINE SO. MANAGEMENT/ADMINISTRATION OF COMPUTER INFORMATION SYSTEMS. Includes maintaining computer information systems, selling access to these systems, and acting as an intermediary (broker) between the owner of the systems and the libraries purchasing access to these systems.

LINE 60. TRAINING AND EDUCATION. Includes in-service traintraining and continuing education for headquarters staff (if any), as well as training and education programs for staff at the flarticipating libraries.

LINE 61. CONSULTING. Counseling libraries, library systems, government bodies, etc., on the establishment, administration, and financing of library service, information systems, buildings, and equipment.

LINE 62. RESEARCH AND DEVELOPMENT. Includes formal programs to perform statistical, research, and feasibility studies and programs to develop library systems and computer information systems.

LINE 63. WAREHOUSING. Includes facilities for central storage of special collections or of materials not in high demand.

LINE 64. SHARING/EXCHANGE OF EQUIPMENT. Includes cooperative use and exchange of equipment such as audiovisual and reproduction equipment.

LINE 65. OTHERS. Enter here any major activities not included in say of Lines 48-64, whether in progress or planned.

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PART VI - COMPUTER AND OTHER AUTOMATED SUPPORT

LINE 66. COMPUTER EQUIPMENT. For the purposes of this survey, a computer is defined as any central processing unit, with either online or offline operations, and its related peripheral equipment (e.g., terminals, printers, etc.). If your organization uses a computer, requires of its location, answer "yes" to this question. Enter "no" if a computer is used for administrative purposes only (bookkeeping, billing, payroll, etc.).

LINE 67. COMPUTER TERMINALS. Indicate if computer terminals are used for organization business by participants in the organization. If there is a response to this question, Line 66 must also be answered "yes". Enter "no" if terminals are used for administrative purposes only.

LINE 68. COMPUTER INFORMATION DATA BASES. A computer information data base is a collection of materials (information) organized for rapid search, retrieval, and/or revision. Examples of these data bases are OCLC, N.Y. Times Information Bank, Lockheed's DIALOG, SDC's ORBIT, etc. Enter in the space provided the total number of data bases that are accessed by your organization using computer equipment.

LINE 69. TITLES IN COMPLITER INFORMATION DATA BASES.
A title is the specific subject area within a data base that is accessed by your organization using computer equipment. For example, if you access Lockheed's data base, numerous titles may be available for your use, such as "American History and Life", "Chemistry", "Public Affairs", etc. If a title is accessed by your organization through two or more different data bases, count it only once.

REPORTING AUTOMATED SERVICES. For each library service provided by your organization with the aid of computers, telecommunications, or micrographics, indicate the means of sutomated support in the appropriate column(s). Check as many columns as are necessary.

ONLINE COMPUTER SUPPORT. Support provided by equipment or devices under the control of the central processing unit. Indicate whether a standard or minicomputer is used.

OFFLINE COMPUTER SUPPORT. Support p. ovided by equipment or devices not under the control of the central processing unit. Indicate whether a standard or minicomputer is used.

TELECOMMUNICATIONS OTHER THAN TELEPHONE. Transmitting or exchanging information over a distance through wire or wireless channels, such as telepyte or telefactimile.

MICROGRAPHICS. Use of sutomatic or semi-eutomatic duplicating equipment to convert and reproduce printed material into microfiche, microform, microfilm, etc.

LINE 70. ACQUISITIONS. Ordering or purchasing books, periodicals, and other library materials, and equipment, and maintaining records of these additions.

LINE 71. CATALOGIMG. Describing, indexing, and identifying library materials and resources.

LINE 72. UINON LIST PRODUCTION. The process of searching and compiling lists of holdings.

LINE 73. REFERENCE. Locating, researching, and supplying specific information for library patrons.

LINE 74. INTERLIBRARY LOAN. Borrowing or exchanging library materials among cooperating librarians.

LINE 75. CIRCULATION. The service of lending, which includes providing photocopied materials in lieu of the material itself, and the process of maintaining statistical records of these transactions.

LINE 76. OTHERS. Enter any services provided which were not included in Lines 70-75.

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APPENDIX (

PRODUCTA A ANDREMA OF LIBRARY WETWORKS LIST

During the source of the survey of library networks, which occurred after publication of the Directory, it was found that the following networks did not meet all the criteria (on page 11) for inclusion. These networks are listed by their entry number, which can range from 1 through 968, and in effect the listing for each corresponding network should be deleted.

Some previously unlisted networks came to attention during the survey. These "addenia" networks are listed following the "errata" entry list. They are listed with the complete Directory information except telephone number.

5	146	283	448	588	732	852
10	148	297	460	591	739	854
12	149	306	475	598	740	855
17	150	307	476	604	752	858
19	151	312	477	605	760	859
20	153	313	490	617	762	860
25	155	320	491	.620	765	881
28	156	332	492	622	771	883
33	161	345	495	624	781	884
39	167	349	496	627	787	891
47	168	362	497	639	788	893
49	169	364	499	653	803	896
52	174	371	500	654	808	903
62	179	373	501	661	810	905
68	183	377	504	664	811	909
80	185	378	508	676	813	914
94	188	386	513	678	815	921
107	191	391	514	682	816	923
111	220	392	530	683	817	928
117	246	397	539	692	821	934
130	247	412	552	697	829	935
132	251	413	557	699	831	938
134	252	416	561	700	833	955
136	253	418	569	703 .	834	958
139	260	419	572	706	838	960
141	264	422	574	708	840	963
142	266	436	575	710	841	966
143	268	437	576	711	848	
144	277	440	581	726	850	



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Addenda List of Library Networks

The listing for networks which should be added to the Directory are given below by state.

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Kentucky

Green River Regional Library Hellen Hurd, Director 450 Giffith Avenue Owensboro, Kentucky 42301

Louisiana

Elaine P. O'Cornor, Administrator Baton Rouge Community Medical Library Consortium Earl K. Long Memorial Hospital P.O. Box 52999 Baton Rouge, Louisana 70805

Maine

Portland Public Library Area Reference Resource center Edward Chenevert, Contact Person 5 Monament Square Portland, Maine 04101

Scuthern Maine Library District Shirley Helfrich, Contact Person Portland Public Library 5 Monument Square Portland, Maine 04101

Maryland

Southeastern/Atlantic Regional Medical Library Services Mr. Cyril Feng, Director University of Maryland Health Sciences Library 111 North Greene Street Baltimore, Maryland 21201



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Nebraska

Meridan Library System John Mayeski, President Calvin T. Ryan Library Kearney State College Kearney, Nebraska 68847

New York

Cattaraugua-Allegany-Erie-Wyoming BOCES School Library System Sally Knight, Coordinator Box 424, E. Windfall Road Olean, New York 14760

Cortland-Madison BOCES School Library System Rosaline Burd, Coordinator Clinton Avenue Extension Cortland, New York 13045

Franklin-Essex-Hamilton BOCES School Library System Donna Hamus, Coordinator Box 28, W. Main Street Malone, New York 12953

Werkimer-Fulton-Hamilton-Otsego BOCES School Library System Elizabeth Sywetz, Coordinator Gros Boulevard P.O. Box 592 Herkimer, New York 13350

Onondaga-Madison BOCES School Library System Kathleen Ross, Coordinator P.O. Box 4754 Syracuse, New York 13211

Rensselaer-Columbia-Green BOCES School Library System Karen Hidek, Coordinator 1477 S. Schodack Road Castleton, New York 12033

St. Lawrence-Lewis BOCES School Library System Joan Di Santo, Coordinator Box 310, Route 56 Norwood, New York 13668-0310



Suffolk #2 BOCES School Library System - School Services Center Estherine Bonanno, Coordinator Winganhauppauge Road Islip, New York 11751

Ulster BOCES School Library System Rocco Staino, Coordinator 175 Route 32 North New Paltz, New York 12561

Texas

Plano Library Network Maribelle Davis, Director Plano Public Library Box 356 Plano, Texas 75074

Wyoming

Wyoming Public Library Film Coop Campbell County Public Library Dan Sieberman, Director 2014-J Road Gillette, Wyoming 82716



APPENDIX D

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APPENDIX D RELIABILITY OF RESILES

This survey used a non-typical statistical method. The initial survey design was to conduct a census of library networks. However, after initial mail-out and follow-ups, it became evident that a census would not be achieved without substantial additional expense. Thus, it was decided to conduct the survey as two post-survey strata: one stratum being the population of library networks that had responded by mail (574 library networks) and the second stratum being the remaining library networks for which we had no information, plus 82 networks identified by State Librarians. A sample of 122 library networks was chosen from the combined listings in the second stratum. This sample consisted of a systematic sample taken with random start (the listing was alphabetized, thus any serial bias seemed unlikely).

Accuracy of Estimates

Below we discuss potential sources of inaccuracy in the survey and steps we have taken to address the problem of inaccuracy of estimates. One source involves non-response. Once a decision was made to depart from a census survey, stratification in the manner described above seemed to be the statistically valid means of proceeding. In the first stratum, there were 570 valid responses cut of a total of 574 networks in the sample frame. The four non-valid responses included two refusals and two responses that were qualified as a network, but not considered usable. The possible bias attributable to the four non-valid responses is believed to be minimal. In the second stratum, the 122 sampled networks had the following survey outcomes:

Responded and qualified	82
Responded and not qualified	23
Responded - duplicate w/ stratum 1	3
Refused	14
Total	122



The library networks in the second stratum were telephoned (with repeated follow-up) up to the point that 14 of the 122 sampled library networks absolutely refused to respond. It is believed that non-response bias of the 14 refusals (i.e., 11.5%) should be minimal. For example, 78.1 percent of the responders (non-duplicate) in this stratum indicated that they qualified under the survey criteria as library networks (82 divided by 105). Even if we assume that all of the refusals were in fact qualified, the estimate of proportion of qualifiers in the second stratum universe would only be 80.7 percent (96 divided by 119); a difference of only 2.6 percent. Some other possible sources of inaccuracy of survey responses and estimates (in addition to non-response) are (1) improper weighting of survey responses, (2) inability to answer questions accurately, and (3) improper handling of data or data processing. These sources of bias are discussed briefly below.

In addition to non-responses to the questionnaire, there were instances of item (i.e., question) non-responses in the survey. Many item non-responses were handled by telephoning respondents and getting the information. (Also, some questionable responses were followed-up as well.) Otherwise, the item non-responses were handled by imputation. Examples of how imputation was performed are given as follows:

- (1) For non-quantal responses, averages of known responses were used for imputations. When a total is known (e.g., Q13.10), but sub-elements were not indicated, we proportioned the total across the sub-elements, based on known responses.
- (2) For quantal responses, the non-responses were randomly assigned based on proportions established by known responses. Random assignment was made from tables of random numbers. Cross tabulations should not be made on these data since some are not actual.

All imputations were keyed into the database. Those with non-quantal values were so indicated by "(i)." Provision was not made in the database format to indicate imputations for quantal responses. Therefore, a listing of responses in which this is done is provided in the database documentation.

Weights for the two strata were computed as follows:

- o Stratum 1 574 divided by 570 equals 1.007
- o Stratum 2 476 divided by 108 equals 4.407

Thus, all 398 qualified (and usable) responses from stratum 1 are given a weight of 1.00% and the 82 qualified responses from stratum 2 are given a weight of 4.407.

Another source of bias is difficulty of answering questions accurately. Most questions on the questionnaire are factual in nature; e.g., title of director, incorporated or not, number of library members, etc. Some questions require a numerical response such as number of employees, revenue received, etc. Most of the responses (407 of 480) were mailed back so that respondents had time to lock up data if necessary. Furthermore, each question was accompanied by detailed definitions and instructions (see Appendix B). Respondents were also instructed to respond by estimating values if actual values were not available or not known. These estimated values are denoted in the database by "(e)"; just as imputed values are denoted by "(i)."

Another source of bias or inaccuracies can occur by data handling procedures (e.g., keyboarding errors). Every item in the database was proofed against the actual questionnaires. Thus, that source of inaccuracy is minimized.

Precision of Estimates

Even though the accuracy of survey estimates is very difficult to observe and it is not measured, the field of statistics provides methods for measuring the precision of estimates. The precision of estimates is com. The precision of estimates is com. The precision of estimates is come the precision of estimates. For example, hypothetically we could estimate that 70.8 percent of library networks qualify for the survey based on specified criteria (i.e., 480 divided by 678). If this estimate was based on a simple random sample from an infinite population the confidence intervals with a sample size of 678 would be displayed as:

70.8% + 1.7%; at 68% level of confidence



Simply said, this means that the true proportion for the entire population has a 68 percent probability of being in the confidence interval; that is, between 69.1 percent and 72.5 percent. One can easily determine confidence intervals for any desired level of confidence by multiplying the standard error (i.e., 1.7 percent above) by a constant factor. For example, to estimate the confidence interval at the 95 percent level of confidence, one needs merely to multiply the standard error by the factor 1.96. Thus, the confidence interval above would then be expressed as:

70.8% + 3.3%; at 95% level of confidence

The factor for estimating 90 percent level of confidence is 1.64, and it is 3.00 for estimating 99.8 percent level of confidence.

The width of confidence intervals will vary (at a specified level of confidence) depending on three factors:

- (1) <u>Sample size</u>. For example, the hypothetical estimates above are estimated from a sample size of 678 observations. If the sample was reduced to 339, the confidence interval would increase from 1.7 percent to 2.5 percent at the 68 percent level of confidence (again assuming a simple random sample from an infinite population).
- (2) Sample size relevant to population size. If the sample size were in fact the entire population, the confidence interval would be zero. The example above assumes that the sample size is very small compared to the population size. Normally, as the size of the sample increases, some precision is gained as the sample size approaches the population size. However, in this survey 570 (i.e., 398 qualified) of the responses represent a stratum in which 574 is the entire universe and the second stratum is a sample of 122 from a universe of 476. The estimate of proportion of qualified and confidence interval is as follows:

70.8% + 2.4%; at 68% level of confidence

Thus, because of the disproportionate sampling, a small amount of precision is lost.

(3) <u>Sample design</u>. A survey can be improved in terms of decreasing estimated confidence intervals (at a given sample size) by statistical sample design (e.g., stratification, ratio estimation, etc.).



In order to give some evidence of the statistical precision of the survey of library networks, an example of typical estimates of proportions and averages is provided below. The following example of statistical precision is given to indicate the effect of sampling error on precision of estimates:

Proportion of library networks that are not formally sponsored:

14% + 1.8%; at 68% level of confidence

Average number of libraries and information units that participate in library networks:

105 + 8; at 68% level of confidence

Average number of members per network:

288 ± 64; at 68% level of confidence

Note that the standard errors are computed by the Statistical Analysis System (SAS) program. The confidence intervals above (+) are one standard error which is at the 0.68 level of confidence. This means that if the survey were repeated many times, with the sample design and size used, 68 percent of the estimated confidence intervals would contain the true population value. Referring to the average number of library participants per network above, the confidence interval is 97 to 113. It is likely (68%) that the true population average rating score falls between these two numbers (97, 113). It is very unlikely, for example, that the true population average might be lower than 81 or higher than 129 (i.e., outside the confidence intervals at 99% level of confidence).

Estimates of totals, means and proportions are based on the following equations:

Estimated total

$$Y = \sum_{h=1}^{L} \left(w_h \sum_{i=1}^{n_h} y_{hi} \right)$$

where: Wh is the sample weight for stratum h

Yhi is the observed value of the ith unit in stratum h

The is the sample size of stratum h

Estimated variance of total

$$s^2y = \sum_{h=1}^{L} N_h^2 \left(1-f_h\right) \frac{s^2hy}{n_h}$$

where: Nh is the number of units in the hth stratum

Th is the sample size in the hth stratum

s2hy is the sample variance of y in stratum h



Estimated mean or proportion of a characteristic among qualified library networks

$$r = \frac{\frac{L}{\sum_{h=1}^{L} \left(w_h \sum_{i=1}^{n_{h}} y_{hi} \right)}{\sum_{h=1}^{L} \left(w_h \sum_{i=1}^{n_{h}} x_{hi} \right)}$$

where: Wh, nh, yhi are defined above, and whi is 1 if it is a qualified network and 0 otherwise

Estimated variance of mean or proportion

$$s_{r}^{2} = \frac{1}{N^{2}x^{2}} \sum_{h=1}^{L} N_{h}^{2} \left(\frac{1-f_{h}}{m_{h}} \right) \left(s_{hy}^{2} + r^{2}s_{hx}^{2} - 2rs_{hxy} \right)$$

where: N is the total number of units in the universe

y is the sample mean of the interested characteristic among all units in the universe (i.e.:

$$\overline{X} = \frac{x}{\sum_{h=1}^{L} n_{h} w_{h}}$$

 $^{52}\rm{hx}$ is the sample variance of x in stratum h $^{52}\rm{hy}$ is the sample variance of y in stratum h $^{5}\rm{hxy}$ is the sample covariance of x and y in stratum h and $^{8}\rm{h}$, nh, fh, r are defined above.

If the estimated total number of qualified networks is assumed to be a constant (760), instead of a random variable, the above formula for variance of mean or proportion can be reduced to:

$$s = \frac{1}{r} \sum_{h=1}^{L} \frac{2}{h} \left(\frac{1-f}{h}\right) s$$

Using this simlified formula and the other formulas, approximate variances were calculated. A list of 95% confidence intervals for some key statistics are given in the following table.

The Confidence Intervals for Some Key Statistics

Variable	95% Confidence Interval
Qualified library networks	760 <u>+</u> 38
Total funds received	\$656,000,000 <u>+</u> \$612,000,000*
Average funds received per network	\$863,000 <u>+</u> \$806,000*
Total operating expenditures	\$490,000,000 <u>+</u> \$414,000,000*
Average expenditure per network	\$642,000 <u>+</u> \$544,000*
Percent of network headquarters which provide training/workshops	748 <u>+</u> 4.18
Percent of network members which provide interlibrary loan	53% <u>+</u> 6.1%
Percent of networks for which catalog production is provided by external sources/contractors	29% <u>+</u> 5.5%
Percent of natwork headquarters which use training/workshops	54% <u>+</u> 5.3%
Percent of network members which use consultation services	718 <u>+</u> 4.78
Total of participating organizations in networks	76,280 <u>+</u> 36,011

^{*} Due to the extreme skewness of the financial data, the confidence intervals are large.