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Final Report.

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ABSTRACT

A practical system for producing a union catalog of titles in the collections of the Library of Congress Division for the Blind and Physically Handicapped (DBPH), its regional network, and related agencies from a machine-readable data base is presented . The DBPH organization and operations and the associated regional library network are analyzed. The major objectives of the proposed system are defined as improved bibliographic control over materials acquired by DBPH and the network libraries and improved management control. To meet these objectives, DBPH Bibliographic Information System design contains three subsystems: (1) an in-process system, (2) a union catalog system, and (3) a management information system. Hardware, software, and support requirementspare assessed as part of a three-year plan for implementation. Appendixes include detailed work flow diagrams for current DBPH functions, a structured interview sheet used on site visits, and detailed calculations of production costs for the union catalog in book and microfiche form. (Author/PF)



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FINAL REPORT

DESIGN OF AN AUTOMATED LIBRARY INFORMATION STORAGE AND

RETRIEVAL SYSTEM

FOR

LIBRARY OF CONGRESS

DIVISION FOR THE BLIND AND PHYSICALLY HANDICAPPED (DBPH.)

CONTRACT NO. LC-1099

June 30, 1975

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ACTION.

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TABLE OF CONTENTS

Section	Title	Page
1	INTRODUCTION	1-1
	1.1 OBJECTIVES AND SCOPE OF THE STUDY	I∸1 I–2
<i>(</i> -	1.2.1 Organizational Considerations	I-2· I-12
11	DBPH ORGANIZATION AND OPERATIONS	-1
N.	2.1 OBJECTIVES AND SCOPE OF SECTION 2.2 DBPH ORGANIZATION	-1 -1 -4 -6 -13
III ·	REGIONAL LIBRARY NETWORK ORGANIZATION AND OPERATIONS	111-1
•	3.1 OBJECTIVES AND SCOPE OF SECTION	[-] -]
	3.2.1 Regional Libraries/Machine Lending Agencies 3.2.2 Subregional Libraries 3.2.3 Multi-State Centers	-1 -2 -2
•	3.3 FIELD VISITS	-3 -4
	3.4.1 Patron Registration 3.4.2 Patron Assistance 3.4.3 Acquisitions 3.4.4 Interlibrary Loan 3.4.5 Cataloging 3.4.6 Circulation 3.4.7 Equipment Repair 3.4.8 Distribution 3.4.9 Management Reporting	III-4 III-5 III-6 III-6 III-7 III-7
	3.5 NETWORK REPORTING REQUIREMENTS	-8 -8



TABLE OF CONTENTS (cont'd)

Section		Title		Page
				•
ΔI `	'SYST	rem design	•	IV-1
,	4.1 4.2	OBJECTIVES AND SCOPE OF SECTION		V-1 V-1
	•		-	Ç
	ř n	4.2.1 System Accessibility	•	1V-8 ·
	4.3	SYSTEM OUTPUT REQUIREMENTS		₽V - 19
	_		•	IV-58
		4.4.1 Content and Format	•	I√-58 IV-58
		4.4.3 Union Catalog Monthly Update	•	17-60
		4.4.4 The Library Union Monthly Production	•	IV-60
٧	IMPL	LEMENTATION PLAN	•	V- <u>1</u>
	5.1	OBJECTIVES AND SCOPE	•	V-1
	5.2			V-1
****	5.3 5.4	·	• •	V-6
	,3.4	IMPLEMENTATION	•	V - 6
		5.4.1 LC Information Systems Office (ISO) Compu	ter	,
	•	Facility	•	V- 7
		5.4.2 Other Government Agency Computer Facilities	•	V-10
	,	5.4.3 Commercial Contractor Facility	•	V-13'
		5.4.4 DBPH Computer Facility	• '	· V-15
	5.5	RECOMMENDED APPROACH AND JUSTIFICATION	•	V-17
	5.6		•	V-17
	5.7	IMPLEMENTATION PLAN	•	V-20



TABLE OF CONTENTS (cont'd)

Title	Page
<u>.</u>	
PROCEDURAL FLOWS FOR PRESENT DBPH OPERATION	
STRUCTURED INTERVIEW SHEET	
NETWORK FUNCTIONAL FLOWS	,
BOOK AND MICROFICHE CATALOG COSTS	
DATA ELEMENTS	
AUTOMATION OF RELATED AREAS	
-	PROCEDURAL FLOWS FOR PRESENT DBPH OPERATION STRUCTURED INTERVIEW SHEET NETWORK FUNCTIONAL FLOWS BOOK AND MICROFICHE CATALOG COSTS DATA ELEMENTS

GLOSSARY OF SPECIAL TERMS



SECTION 1

INTRODUCTION

1.1 OBJECTIVES AND SCOPE OF THE STUDY

This study has a twofold objective:

- To design a practical system for producing from a machine readabledata base, a union catalog of titles in the collections of the Library of Congress Division for the Blind and Physically Handicapped (DBPH), its regional library network, and related agencies.
- 2) To define a realistic plan for implementing the design.

The first objective assumes that the most efficient method for producing a union catalog, given today's technology, is through the use of a computer. Secondly, it assumes that a union catalog of holdings of the DBPH network is an essential and fundamental step in the overall goal of increasing the effectiveness of service to the blind and physically handicapped.

An important consideration in defining the objectives and scope of this study is the reference to a "practical system design." This system design should be based on an accurate picture of the DBPH and network library operations including, among others, current procedural flows, material resources available, etc. Sections II and III explain the operations of DBPH and the regional network.

The system design should encompass the bibliographic process, from the point of selection to the production of the DBPH Union Catalog. The overall goal of the system is to permit growth and improved services without a proportional increase in cost and manpower requirements. This goal will be achieved by accomplishing two facilitating objectives. The first objective is to improve the bibliographic control over materials acquired by DBPH and the network libraries. Improved bibliographic control will serve to increase the accessibility of the total collection and maximize the use of available resources. The second objective of the system is to improve management control, particularly in the case of copyright clearance. The system, therefore, has to provide for the timely issuance of reports that provide information useful to management.

In meeting the requirements described above, the system design should take into consideration available technical and human resources. A practical system design must be usable, cost effective, and feasible.



The second objective of this study is to define a realistic implementation plan. Implied in the implementation plan is a description of the necessary tasks for the production of the desired outputs, including their sequence and schedule. It must consider the fiscal and human resources available or likely to become available and allow for contingencies, staff training, and other considerations that affect scheduling.

As defined by the objective of the study, the primary focus is the union catalog. However, the production of a union catalog coincides at numerous points with other DBPH operations, as well as with operations of network libraries. For example, the bibliographic record of a title is first captured at the point of selection and is modified during the process until the complete and authoritative record is defined during cataloging. Therefore, this study examines the overall operations within the DBPH network.

1.2 BACKGROUND

As present DBPH operations are the parameters of this study, this introductory section addresses the organization of the library network serving the blind and physically handicapped and covers the technical developments that preceded the system study, which are expected to impact the recommended system design.

1.2.1 Organizational Considerations

1.2.1.1 DBPH Legislation and Mission

The concept of a National Library for the Blind was developed in 1897, by John Russell Young, then Librarian of Congress, when he established a reading room for the blind and a collection of about 500 books and music items in raised type.

OF.

On April 27, 1904, a law was passed "to promote the circulation of reading matter among the blind." It provided for free mailing privileges for embossed reading matter. In 1913, Congress provided that one copy of each book in raised type made for educational purposes under Government subsidy by the American Printing House for the Blind in Louisville, Kentucky, was to be deposited in the Library. Other materials were acquired by gift and purchase. Services, too, were expanding; instruction was available for those desiring to learn reading by touch; displays were arranged; plans were developed for exhibiting products made by blind persons.

On March 3, 1931, the concept of a network of libraries serving the blind was first established by the passage of the Pratt-Smoot Act. It provided an annual appropriation of \$100,000 to the Library of Congress "... in addition to appropriations otherwise made to said library,... [to be used by] the Librarian of Congress to provide books for the use of the adult blind residents of the United States, including the several States, Territories, insular possessions, and the District of Columbia." It also provided for arrangements with "... such libraries as [the Librarian of Congress] may judge appropriate to serve as local or regional centers for the circulation of such books..." for adult blind. In 1933, the law was amended to books "... published either in raised characters, on sound-reproduction records, or in any other form", thus allowing records, cassettes, etc., to be included in the collection. Children became eligible for this service in 1952, by the deletion of the word "adult".

In 1957, the ceiling was removed from the annual appropriation for the free library service for the blind. At the same time legislation was passed providing for preference to "non-profit-making" institutions or agencies, regarding contracts for production of books (PL 85-308).

The music library for the blind was established in 1962, under a separate ceiling-free appropriation (PL 87-765).

In \$966, both the Pratt-Smoot Act and PL 87-765 were amended, by PL 89-522 to include persons with physical handicaps precluding the reading of ordinary print. PL 89-511 (1966) appropriated additional funds, for the development of regional facilities, and set standards of eligibility for state and local facilities to be developed under the act.

The official statement of the mission of DBPH is set forth in the Federal Register (June 30, 1970) as follows:

"Program. In connection with the Library's program of service under the act of March 3, 1931 (46 Stat. 1487), as amended, its Division for the Blind and Physically Handicapped provides books in raised characters (braille), on sound reproduction recordings, or in any other form, under regulations established by the Librarian of Congress. The Division also provides and maintains reproducers

for such sound reproduction recordings for the use of blind and other physically handicapped residents of the United States, including the several States, Territories, Insular Possessions, and the District of Columbia, and American citizens temporarily domiciled abroad."

- "Loans through regional libraries. Sound reproducers are lent to individuals and appropriate centers through agencies, libraries, and other organizations designated by the Librarian of Congress to service specific geographic areas, to certify eligibility of prospective readers, and of arrange for maintenance and repair of reproducers. Libraries designated by the Librarian of Congress serve as local or regional centers for the direct loan of such books, reproducers, or other specialized material to eligible readers in specific geographic areas. They share in the certification of prospective readers, and utilize all available channels of communication to acquaint the public within their jurisdiction with all aspects of the program."
 - "National collections. The Librarian of Congress, through the Division for the Blind and Physically Handicapped, defines regions and determines the need for new regional libraries and deposit collections in cooperation with other libraries or agencies whose activities are primarily concerned with the blind or physically handicapped. National Collections glocated in the Division for the Blind and Physically Handicapped ...[provides] services to other libraries, and to blind and physically handicapped readers anywhere in the nation requiring specialized materials. It serves as the center from which books, recordings, sound reproducers, and other specialized materials are lent to eligible blind and physically handicapped readers who may be temporarily domiciled outside the jurisdictions enumerated by the act."

As a result of this legislative action and expanded interpretation of existing laws, the basic mission of DBPH is to provide books, magazines, and the appropriate machines to persons who qualify because of a visual or physical disability that prevents them from utilizing regular printed materials. DBPH implements this mission by carrying out the following activities.

- e Collection Development: Selection of appropriate book and magazine titles for the network and DBPH collections.
- Publications: Production of publications and informational material to publicize the service and keep patrons informed of available material.
- Reference Services: Maintenance and circulation of a collection of print materials on all aspects of blindness and physical handicaps for use by the staff, professionals, and the general public.
- Technical Research and Development: Development of new equipment, maintenance of quality control of new items, and provision of various evaluative processes.
- Volunteer Training and Utilization: Recruitment and training of volunteers fo produce titles added to the DBPH and network collections in limited quantities.
- Interlibrary Loan and Resources Coordination: Expansion of service to patrons through the provision of a title or item location as requested by participating networkable libraries.
- Network Development: Increase effectiveness and improve the quality of service from the network by providing technical review, advice, and assistance as required.
- Program Planning and Development: Anticipation of program growth and needs by investigation of automated techniques and other new technologies, provision for user and organizational feedback, and assurance of cooperation with related agencies.



Appropriations for the Division for the Blind and Physically Handicapped are made annually by Congress (in Fiscal Year 1975, \$11,400,000 was budgeted at the Federal level). Regional and subregional libraries receive funding from state and local sources. In Fiscal Year 1974, the combined Federal, state, and local expenditures for this library program totaled more than \$17,000,000.

1.2.1.2 Library Network

A. Multi-State Centers

The multi-state center network is still in the planning and initial implementation stages. Centers have been established in Salt Lake City, Utah, and Daytona Beach, Florida, for the western and southern sections of the United States, respectively, but eventually there may be four centers.

The centers will function as materials-support units for specified geographic areas of approximately 13 states each. Under direct contract with DBPH, each center will: 1) house and lend all materials available in the national program; 2) be a focal point for volunteer production of material in its area; 3) maintain and circulate "special" collections of lesser-used materials, including back issues of magazines and books produced by volunteers in its area; 4) store and lend sound reproducers and allied equipment, and furnish replacement parts and backup repair service; and 5) house and ship nationally-produced program promotion material, such as brochures and catalogs.

B. Regional Libraries

The regional library is the backbone of the DBPH library network. There are currently 54 regional libraries serving the United States and its possessions. Regional libraries provide direct library service to blind and physically handicapped readers in their area, giving highly personalized assistance in selection when needed. They receive, catalog, and house many volunteer-produced books and serve as circulating libraries for material in the national collections. Many of them qualify for funding from state and local sources, and from Federal agency grants as well as through PL 89-511. Table I-A lists the regional libraries in order of the number of subregionals each services.



I--6

C. Subregion

With the recent growth in the number of blind and physically handicapped persons using the free library service (an almost 400% increase in the past 6 years), the subregional library units have become a necessity. Presently, 89 subregional libraries serve 20 states. They provide the same services as the regionals, but on a smaller scale, and their service is even more highly personalized.

D. Machine Lending Agencies

The library system for the blind and physically handicapped is unique in that it circulates machines as well as books. It incorporates Machine Lending Agencies (MLA), which store, monitor, distribute, and repair talking book machines (phonographs), cassette book machines (tape players), and various accessories to assist the handicapped in the operation of their machines. There is a machine lending agency for each region, in the country, and most of them are located at the regional library sites. The MLAs are staffed by volunteers (Telephone Pioneers), who repair the machines, and by people involved in distribution. LC pays for all parts used in repairs.

Each MLA is responsible for maintaining inventory control of each piece of LC-owned equipment in its area. DBPH is provided statistics concerning machine reliability, turnover rate, etc.

There is a machine lending agency for each region in the country, and most of them are located at the Regional Library sites.

Regional Library	Area Serviced	No. of Subregionals	Total Readers ²
Chicago, IL	Illinois	14	13,410
Atlanta, GA	Georgia	8	9,343
Richmond, VA	Virginia	8	6,397
Talladega, AL	Alabama	7	6,135
Indianapolis, IN	Indiana	7	7,530
Lansing, Mi	Michigan (except Wayne County)	7	10,401
Topeka, KS	Kansas	6	5,257
Daytona Beach, FL	Florida	5	11,135
Charleston, WV	West Virginia	5	1,970
Little Rock, AR	Arkansas	4	6,171
Augusta, ME	Maine	4	2,185
Lincoln, NB	Nebraska	4	4,663
Phoenix, AZ	Arizona	2	4,709
New York, NY	New York City and Long Island	2	15,638
Sacramento, CA	Northern-California	1	18,481
Baltimore, MD	Maryland	1	7,424
Watertown, MA	Massachusetts	1	11,326
Oklahoma, OK	Oklahoma	1	6,679
Seattle, WA	Washington, Alaska	1	\5 , 207
Milwaukee, WI	Wisconsin	1	1 ,652
Washington, DC	District of Columbia	0	3,723
Los Angeles, CA	Southern California	0	9,888
Denver, CO	Colorado .	0	3,840
Hartford, CT	Connecticut	0	11,948
Dover, DE	Delaware	0	11,349
Honolulu, HI	Hawaii, Guam, Pacific Basin Area	0 .	\846 \
Boise, ID	Idaho	0	1,729
Des Moines, IA	lowa	0	9,312
Frankfort, KY	Kentucky	0	2,669
Baton Rouge, LA	Louisiana	0	5 ,29 5
Wayne, MI	Wayne County, Michigan	0	3,240
Faribault, MN	Minnesota	0	7,351
Jackson, MS	Mississippi	0	3,192
St. Louis, MO	Missouri	0	8,060

TABLE I-A

REGIONAL LIBRARIES AND DISTRIBUTION OF SUBREGIONALS (JAN 1975)



C.

Regional Library	Area Serviced	No. of Subregionals	Total Readers ²
Helena, MT	Montana -	0	2,873
Carson City, NV	Nevada	0	409
Concord, NH	New Hampshire	0	2,199
Trenton, NJ	New Jersey	0,	12,571
Santa Fe, NM	New Mexico	0_	2,690
Albany, NY	New York (except NYC,	0	17,030
	Long Island)and Vermon	t	
Raleigh, NC	North Carolina	0	7,256
Cleveland, OH	Northern Ohio	[*] 0	12,564
Cincinnati, OH	Southern Ohio	0	4,181
Salem, OR	Oregon	0	4,165
Philadelphia, PA	Eastern Pennsylvania	0	10,847
Pittsburgh, PA	Western Pennsylvania	. 0	7,882
San Juan, PR	Puerto Rico	0	*
Providence, RI	Rhode Island	0	1,999
Columbia, SC	South Carolina	0 ·	2, 105
Pierre, SD	South Dakota, North Dakota	0 .	4,642
Nashville, TN	Tennessee	0	6,895
Austin, TX	Texas	0	20,171
Salt Lake City, UT	Utah, Wyoming	0	3,366
St. Thomas, Virgin Islands	Virgin Islands	0	196
** National Collections (D		0	9,573
54 Regional Libraries	***	89	371,769

^{1 -} As of January 1975

TABLE I-A (cont'd)

REGIONAL LIBRARIES AND DISTRIBUTION OF SUBREGIONALS (JAN 1975)



^{2 -} As of August 30, 1974

^{*}Serviced by National Collections until January 1, 1975

^{**}Not Counted as Regional

i.2.1.3 Related Organizations

A. Library of Congress

Several departments of the Library of Congress interact with DBPH in areas relating to network assistance and the national collections. These include:

Administrative Department:

Information Systems Office (ISO) - provides DBPH with in-house EDP/Telecommunications expertise and support; plans and operates the Library's computer facility (Dual IBM-370/145).

Procurement and Supply Division (P&S) - acquires products and services for DBPH, such as equipment and book contracts, and office supplies.

Financial Management Office (FMO) - coordinates and disburses DBPH budget. Provides guidance and direction for contracting.

Copyright Office:

Provides guidance and assistance in copyright clearance.

• Processing Department:

**MARC Development Office (MARC DEV) - maintains the MARC data base for LC bibliographic records; reviews, approves, and assists in the establishment of MARC formats for the DBPH Bibliographic Information System.

Catalog Distribution Service (CDS) - produces and distributes catalogs and catalog cards.

Reference Department:

DBPH is responsible to the Reference Department.

Official reporting requirements are outlined in Section 11.

The Reference Department is the interface point between DBPH and other departments of the Library of Congress.



B. Department of Health, Education, and Welfare

Three subsections of HEW are involved with grants to state and local organizations for the blind and physically handicapped. They are:

• Social and Rehabilitation Service:

Provides grants for vocational rehabilitation (training, education, and scholarships for the physically handi-capped).

Office of Education:

Provides educational assistance for the handicapped, from pre-school level upward (including special assistance for the deaf-blind and funding for Library. Services for the handicapped at the state and local levels) and funding for training educational personnel serving, the handicapped.

Social Security Administration:

Provides funds to states for services to crippled children, disabled veterans, blind persons, etc.

C. Government Printing Office (GPO)

DBPH catalog cards, pamphlets, periodicals, and catalogs, are printed by this office.

D. State Agencies

Most regional libraries are supported by State Library Agencies. In addition, machine lending agencies often report to state commissions for the blind.

E. Volunteer Groups

Besides the Telephone Pioneers at the Machine Lending Agencies, there are many other volunteer groups that help the network to provide its services to the handicapped.



These services help the readers with selection, assist in book production, etc. Working either in-house (at a library) or outside (for a volunteer organization). Volunteer braillists and narrators produce braille and recorded books for limited circulation. While materials (braille paper, cassettes, and some recording facilities) are supplied by the network, volunteers supply time and money. Some of these volunteer organizations are:

- American National Red Cross Braille Services
- Houston Taping for the Blind

F. Non-Profit Organizations

There are many non-profit organizations providing support services for the handicapped. They provide recording facilities for producing and duplicating tapes and braille under contract with LC, as provided under PL 85-308 (see Section 1.2.1.1). Many of these organizations also maintain collections of materials available for use by the blind and physically handicapped. Some of these organizations are:

- American Foundation for the Blind
- American Printing House for the Blind
- Recording for the Blind, Inc.

1.2.2 Technical Considerations

1.2.2.1 Recataloging Project

In order to ensure a consistently high quality of cataloging in the DBPH Union Catalog, a temporary staff of librarians and editors was assembled prior to the initiation of the systems study, to revise and/or edit existing cataloging. This involved the recataloging of 12,000 mass produced titles and 25,000 limited production titles, with anticipated conclusion dates of April 1975, and May 1976, respectively. A contractor will be selected to convert all recataloged records into machine readable form, using the DBPH MARC format.



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1.2.2.2 DBPH In-House Computer System

The in-house computer system at DBPH currently supports three operational files and eight general procedures, which are an integral part of the material selection and production processes. Specifically, the procedures are: Ordering/Receiving Print Review Books, Request for Copyright Clearance, Request for Price Quotation, Annotation Input/Update, Bibliographic Data Input/Update, Production Authorization, Card Production (Limited Produced Material), and Title Cancellation. For purposes of this study, a procedure is defined as a group of transactions performed cooperatively to accomplish a number of specific tasks. At DBPH, the terminal operator is prompted through relevant portions of each procedure by control pages displayed on the CRT Terminal. Each page contains instructions and different options for entering data into the system. The procedures are reflected in the procedural work flows in Appendix A.

Additional files and procedures have also been defined and are being tested prior to implementation, while the operational In-Process, Annotation, and Master Bibliographic Files are being modified to accept records in the revised DBPH MARC format. The file for quota-selection by the network will be operational in September 1975.

1.2.2.3 MARC Format

The basic MARC format provided the foundation for the design of a machine record format for the DBPH Union Catalog. The principle guiding the development of the DBPH record format was the accommodation of requirements unique to the types of bibliographic material at DBPH with a minimum deviation from the basic MARC format. This minimum deviation is a significant factor in terms of the feasibility of using software developed by the Library of Congress for processing MARC records.

The record format developed for DBPH is described in "Internal Specifications for Special Materials".

1.2.2.4 Library of Congress Computer Capabilities

The Library of Congress can provide the following supportive services to the Division for the Blind and Physically Handicapped:



1-13

1.2.2.4 continued

- The Information Systems Office operates a dual IBM-370/145 and has a 4800 baud multidrop line for on-line terminal connections. In addition, software and systems personnel are available to LC organizations.
- tems support related to the MARC records. They also guide the development of MARC formats to meet unique requirements and assist in programming. Programs to sort, search, and query MARC records are already available.
- The Catalog Distribution Service (formerly known as the Card Division) has a Videocomp capable of providing electronic photocomposition of 3 X 5 catalog cards and camera ready masters for printing at the Government Printing Office.

Detailed descriptions of these capabilities are included in Section IV.

1.2.2.5 The Three-Year Plan

The present study is the first major step of a three-year plan for a comprehensive, bibliographic information system for DBPH. In developing the automated system, DBPH has five basic goals:

- To increase the effectiveness of service;
- To promote effective inter-agency communication about bibliographic materials;
- To make efficient use of appropriate Library of Congress operations, equipment, and bibliographic standards;
- To reduce the per-unit cost of processing materials at DBPH, and;
- To devise a foundation for a national bibliographic system for the blind and physically handicapped.



20

·I-14

1.2.2.5 continued

The plon colls for implementation in three phoses:

PHASE I - System Analysis, Design and File: Building

PHASE II - System Development and Implementation

PHASE III - System Installation, Testing and Operation

This study, as a part of Phose I, encompasses bibliographic record development as well as a systems study. Two other tasks, not within the scope of this study, complete Phose I: cotalog record conversion and initiation of systems development.

SECTION II

DBPH ORGANIZATION AND OPERATIONS

2.1 OBJECTIVES AND SCOPE OF SECTION

The purpose of this section is to provide an overview of the DBPH internal organization and operations. As such, it serves as a basis for deriving system requirements. It includes a description of both the present organization and the proposed reorganization to be implemented when approved. It details the scope of responsibility of each unit and explains the DBPH functions independent of the organizational structure. Lastly, current reporting requirements are listed in terms of the organizational unit generating and receiving the reports and frequency of issue. The present organizational relationships between DBPH sections are shown in Figure II-1.

2.2 DBPH ORGANIZATION

The present DBPH operation is divided into two areas, acquisitions and reader services, both responsible to the Office of the Chief. The Assistant Chief for Acquisitions coordinates six operational units within the Division:

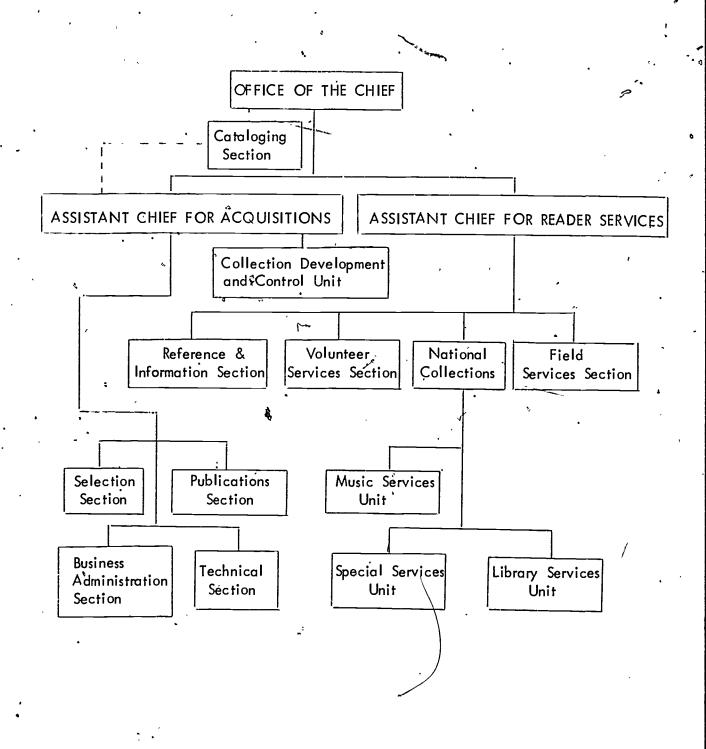
- 1) Selection Section "Evaluates and selects appropriate books, periodicals, and other reading materials to be recorded, transcribed into braille, or produced in any other form for national distribution to cooperating libraries."*
- 2) Publications Section "Plans the information and publications programs for the Division, determining priorities according to the current emphasis and needs of the division and its cooperating libraries."*
- Business Administration Section Procures "all reading resources, equipment, and other materials; fiscal operations and personnel matters; coordination of automation projects and building management operations."*
- 4) Technical Section Develop and establishes "the specifications and designs for equipment and accessories supplied to the readers, and is responsible for quality control of procurements. Originutes research and development programs."*



11-1

1. 22

^{*}Functional Chart for DBPH (May, 1974).



ORGANIZATIONAL CHART OF PRESENT DBPH OPERATION - MAY 1974

2.2 continued

- 5) Collection Development and Control Unit Assumes responsibility "for acquisition, processing, . . . and informing cooperating libraries of all material added to the National Collections. Maintains the union catalog."
- 6) Cataloging Section Prepares "bibliographic entry of DBPH materials coordinated by both the Office of the Chief and the Assistant Chief for Acquisitions."

The Assistant Chief for Reader Services is responsible for coordinating seven organizational units within the Division:

- 1) National Collections "Provides national support for all cooperating libraries by developing, maintaining, and making available the Division's resources of reading materials."*
- 2) Library Services Unit Assumes responsibility "for all support services to regional, subregional, and institutional libraries, including tape duplication services."*
- 3) Special Services Unit Provides "direct services to readers in Puerto Rico and abroad, and serves those individuals needing specialized materials not available through cooperating libraries."*
- Music Services Unit "Develops, maintains, and promotes the use of the national collections of musical scores and instructional texts and encourages the development of new techniques and materials for teaching. Provides nationwide circulation and reference services of all music materials."*
- 5) Field Services Section "Prepares machine quotas for regional libraries and machine lending agencies and is responsible for the receipt, storage, disposal, and shipment of books, machines, catalogs, publications, and supplies."*
- Reference & Information Section "Develops the collection of printed materials on all aspects of blindness and physical handicaps. Provides reference services to the staff, cooperating libraries and the general public. Prepares statistical reports; compiles current information of interest to libraries and organizations."*



^{*}Functional Chart for DBPH (May, 1974).

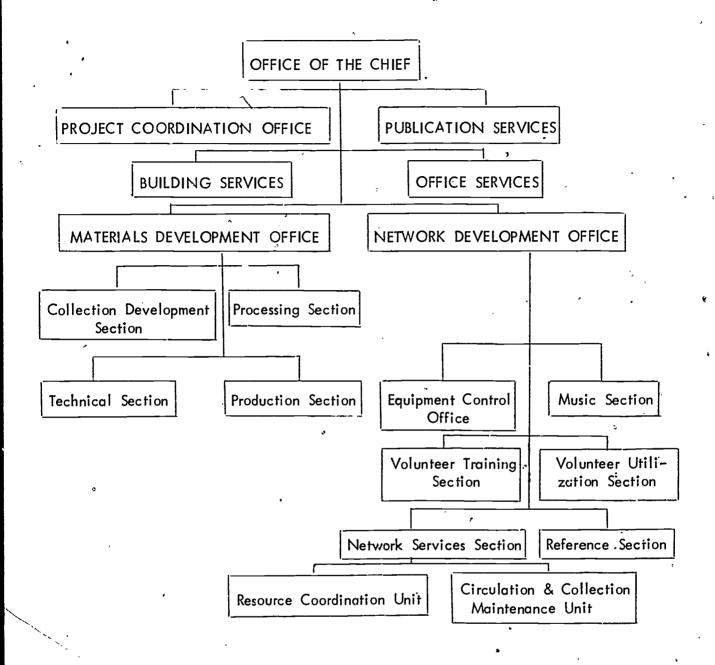
Volunteer Services Section — "Recruits, trains, and coordinates volunteers who produce and process books in braille, tape, large type, and other forms. Is the braille authority for the Library of Congress on all braille codes, for the preparation of guides and teaching manuals for all formats and sets standards and maintains quality control for recordings and books in large type produced by volunteers."*

2.3 PRÓPOSED REORGANIZATION

There is at present a reorganization plan pending for the Division for the Blind and Physically Handicapped. The proposed organization, which will group operations on a more functional basis, is shown in Figure II-2.

*lbid.

23



ORGANIZATIONAL CHART OF PROPOSED DBPH OPERATION

2.4 DBPH FUNCTIONS

Because of the dynamic nature of change in a fluid organizational structure, it is difficult to isolate for analysis the specific operations of a particular unit. However, there are aspects of any operation, particularly one with as clear-cut a purpose as the Division's, which are independent of the organizational units and people involved. Organizational modifications will not after the functions performed by the Division, because these functions do not rely on the present structure for their existence. They are intrinsic to DBPH.

There are 30 functions basic to DBPH. In some cases they cross organizational lines.

The organizational units of DBPH are relatively interdependent: for example, the Selection Section depends upon the Business Administration Section to order the material it selects for production. It also depends on the Field Services Section to receive the copies ordered. Functions, on the other hand, can be specified separately and classified in broad areas. A list of specific functions begins on Page II-7 and detailed flow charts of most can be found in Appendix A.

- Library Functions: Functions 1 19 include all aspects of the operation of the library network. This category consists of normal library procedures such as acquisition, cataloging, and circulation, as well as the more specialized procedures unique to DBPH; those dealing with production of titles in special media, for example, or those which help coordinate the network of regional libraries serving the blind and physically handicapped. Library functions can be further subdivided into three sub-areas: "Precataloging", Functions 1 6, "Cataloging", Functions 7 8, and "Post-Cataloging", Functions 9-19.
- 2) Equipment Control Functions: Functions 20 23 cover those procedures that control DBPH field equipment, cassette and recorded disc machines, as well as the actions leading to new advances in technology. It also monitors the production of new machines according to DBPH specifications.
- Administrative Functions: Functions 25 29 include those functions necessary to the continued existence and growth of the Division, as well as those related to interaction with LC administration.
- 4) Training Function: Function 30 is the training of volunteers.



11-6

LIST OF DBPH FUNCTIONS

1. Quota Determination:

Internal determination of quotas
by media and by subject category.
Includes library determination of

copies desired.

2. Selection:

tion of a book, determination of adaptability to special media, and

approval, for production.

3. Material Procurement: Initial ordering of print copies and associated recordkeeping through the log-in of the print

book.

4. Copyright Clearance: All actions concerned with obtain-

ing copyright clearances for a

book, and related paperwork.

Master Production:

Production of the initial copy in disc, open reel or braille form, by either volunteers or a contractor, or generation of a limited

issue in a selected medium.

6. <u>Mass Production:</u> Duplication of the master copy into

patron usable form.

7: Cataloging: Preparation of card entries, from the initial annotation to the final

approval of the manuscript and the

book cards.

5.

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LIST OF DBPH FUNCTIONS (cont'd)

	ĭ	
8.	Card Generation:	Procedures relating to the production of catalog cards following the approval of the manuscript card.
9.	Distribution:	Distribution of DBPH materials and equipment to network libraries and patrons.
10.	Publication Activities	Preparation of DBPH publications (catalogs, pamphlets, periodicals, directories, and bibliographies).
11.	Collection Maintenance.	Monitoring of the shelves.
12.	Preparation of Bibliographies:	Generation of booklists for use by DBPH, network libraries, and patrons.
13.	<u>Circulation:</u>	Loan of DBPH materials directly to patrons.
14.	Inter-Library Loan:	Performance of searches for temporary and permanent loans, including the redistribution of excess material and the associated paperwork.
15.	Special Services:	Response to special requests from patrons.
16.	Network Coordingtion:	Providing policy recommendations con- cerned with the growth of the network in terms of size, services provided, and internal development.
17.	Volunteer Mobilization:	Coordinating tasks of volunteer groups, auditioning narrators, assigning titles to specific braillists and narrators.
18.	Reference:	Maintenance of DBPH archives and reference collection and response to inquires about the same.



LIST OF DBPH FUNCTIONS (cont'd)

	FIST OF DBYH FO	NCTIONS (contra)
19.	Public Information Preparation:	Planning promotional material.
20.	Equipment Maintenance:	Distribution of parts to Telephone Pioneers, new machines to Lending Agencies, etc.; machine repair.
21.	Equipment Inventory:	Keeping records on the whereabouts of DBPH equipment.
22.	Research and Development:	Generation of technical specifications for DBPH equipment and material contracts. General research into related fields. Monitoring of outside production.
23.	Equipment Production:	Production of DBPH equipment by outside contractors, as specified by contract.
24.	Division Planning:	Determination of short and long range plans, programs, and policies for DBPH.
25.	Fiscal Management:	Preparation of the budget for its submission to LC and presentation to Congress, emendation of the budget and allocation of funds, preparation of monetary reports.
26.	Personnel Services:	Interface between LC personnel office and DBPH personnel.
27.	.Contracting:	Determination of needs, preparation of RFPs from specifications provided by the Technical Section, management of ongoing contracts, awarding of contracts.
28.	Physical Facilities Maintenance:	Custodial work, general maintenance and general office work.
29.	Physical Inventory:	Inventories of the Division Facilities. Coordination with ordering of supplies.
30.	Training:	Instruction for volunteers in fields of:
)`	1) Braille Transcribing, 2) Braille Proof- reading, 3) Braille Music Transcribing,



4) Braille Music Proofreading, 5) Recorded Book Narration, 6) Equipment Maintenance

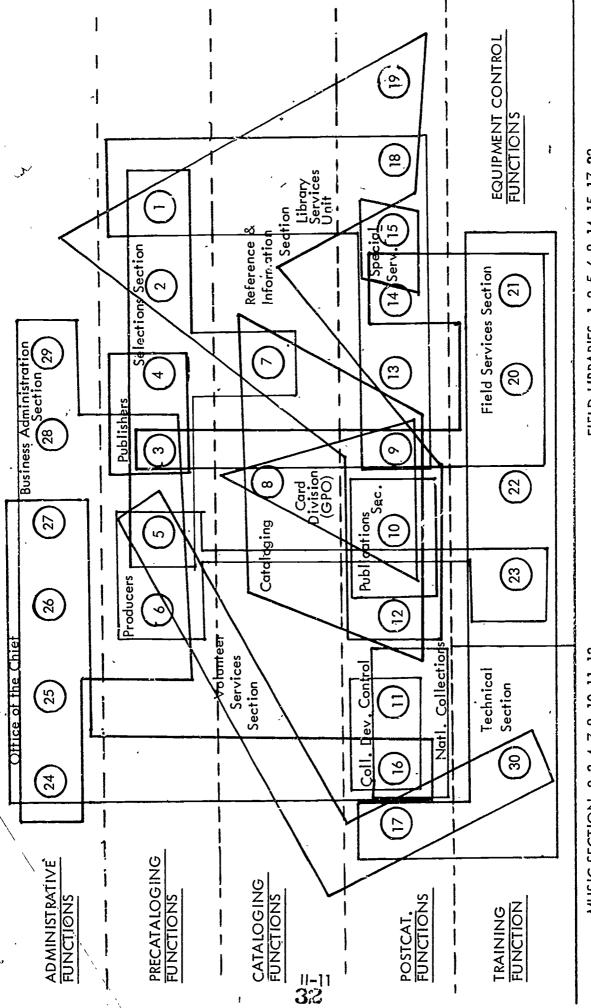
2.4 continued

Figures II-3 and II-4 are functional/organizational charts showing the interactions between the organizational units in terms of the functions identified above. This allows determination of overlap points among the functions, and shows which organizational units will be affected by changes in procedure for a specific function. Functional/organizational charts are shown for both the present organization and the proposed reorganization. As both the Music Section and the Regional Libraries are more multifunctional than most other units, these have been indicated separately because of space limitations. The circled numbers in the charts refer to the functional numbers assigned in the list of DBPH Functions.



11-10



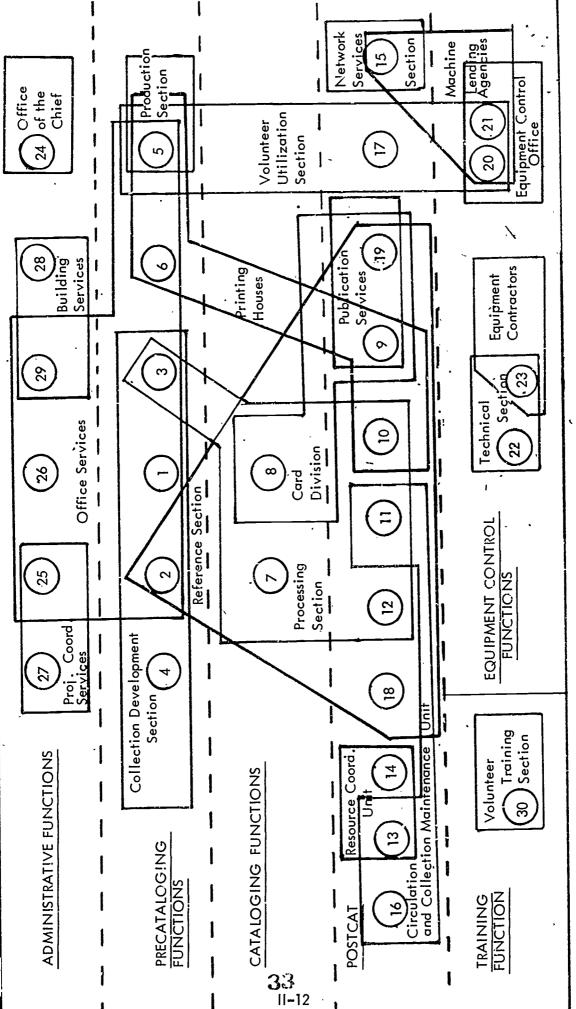


MUSIC SECTION: 2,3,4,7,8,10,11,13,

FIELD LIBRARIES: 1,2,5,6,8,14,15,17,22

DBPH FUNCTIONAL/ORGANIZATIONAL CHART--- PRESENT OPERATION FIGURE 11-3.





MUSIC SECTION: 2,3,7,8,10,11,13.

FIELD LIBRARIES: 1,2,5,6,8,14,15,17,22.

DBPH FUNCTIONAL/ORGANIZATIC NAL CHART PROPOSED REORGANIZATION

FIGURE 11-4

2.5 DBPH REPORTING REQUIREMENTS

As a part of the Library of Congress, the Division for the Blind and Physically Handicapped must respect certain official reporting requirements. The Division's reports are used for the annual report of the Librarian of Congress and for overall administrative planning. In-house reporting requirements must also be met to facilitate the control and planning of DBPH operations. These are essentially informational reports, which are used by DBPH administration and the network libraries.

Both official and in-house requirements are summarized in Table II-A. The reports are prepared manually, which involves much clerical and statistical work.

Besides required reports, other statistics on the operation of DBPH are generated for internal use. They concern quota determination, interlibrary loan use, and acquisition policy. DBPH operations must be structured for easy accessibility of information needed for these reports.

				
Report Name	Generated By	Submitted To	Date Due	Frequency
1. Acquisitions (volunteer & gift)	National Collec- tions,Volunteer Services Section	LC Exchange and Gift Div- ision	10th of month	Monthly
2. Acquisitions (national program)	Business Admin- istration Section, National Col- lections, Volun- teer Services Section		Jan. 15, July 15	Semiannually
3. Comparative Report of Activities	Same	LC Reference Department	Oct.15, Jan. 15, Apr. 15, July 15	Quarterly
4. National Pro- gram	Same and Regional Lib- raries	Same	Aug. 15	Annually
5. "White Sheets":	Reference and Information Sec- tion; Business Administration Section	Same	Feb. 1	Annually
a) Annual Expen- ditures				

TABLE II-A

DBPH REPORTING REQUIREMENTS



	·		, , , , , , , , , , , , , , , , , , , 	· · ·]
. Report Name	Generated By	Submitted To	Date Due	Frequency
5. "White Sheets": (cont'd)	,			
b) Total Readers (5-year summary)		•	· .	• ,
c) Total circulation (5-year summary)				
d) Books Purchased (5-year summary)				
e) Sound reproducers and spare parts purchased (8–year summary)			·	
f) Accessories for sound reproducers (8-year summary)	·			
g) Volunteer Pro- gram (5-year summary)	,			
h) Circulation by Regional Libraries (2-year comparison)		• ,		

TABLE II-A (cont'd)

DBPH REPORTING REQUIREMENTS

Report Name	Generated By	Submitted To	Date Due	Frequency
5. "White Sheets": (cont'd)				,
i) Readers by Regional Libraries (2-year comparison)			and a substitute of	
6. Circulation	Regional Li- braries, Library Services	Chief .	Feb. 1, Aug. 1	Semiannually -
7. Readers	Same	Same	Same	Semiannually
8. Circulation and Readers	Same	Chief, Regional Libraries	Aug. 15°	Annically
9. Estimated Cost of Books	Business Admin- istration Section	Internal Use	Oct. I	Annually
10. Copyrights Cleared	Selections Section	Internal Use		Quarterly
11. Interlibrary Loan Statistics	Library Services	Internal Use		Monthly

TABLE II-A (cont'd)

BPH REPORTING REQUIREMENTS



SECTION III

REGIONAL LIBRARY NETWORK ORGANIZATION AND OPERATIONS

3.1 OBJECTIVES AND SCOPE OF SECTION

This section describes the regional library network operation. Data is based on field visits to 12 regional libraries, a representative sample, reflecting various characteristics such as size and extent of automation activities at the whole network. At each site, information on the library's acquisitions, processing, circulation, cataloging, and library automation activities was collected.

3.2 NETWORK ORGANIZATION

The library network serving the blind and physically handicapped consists of three types of organizations providing service on three levels. These are described in the following sections. Though some aspects of the network are still in the developmental stages, each type of organization plays an important role in providing special library services for the handicapped.

3.2.1 Regional Libraries/Machine Lending Agencies

The network has grown continuously since its initiation in 1931. There were orginally 19 regional libraties; today there are 54. The function of the regional library is to provide direct services to poirons and to serve as circulating libraries for the national collections of materials in special media. Most of these libraries are part of another library (state or public) though some are part of organizations working with the blind and physically handicapped (state commissions for the blind or non-profit agencies). These libraries are autonomous operations and does not dictate their internal operations

Presently, all but four states have their own regional libraries. Alaska, South Dakota, Vermont, and Wyoming are served by libraries in Seattle, Washington; Fierre, South Dakota; Albany, New York; and Salt Lake City, Utah, respectively. A complete listing of regional libraries may be found in Section 1.



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In 1966 the Library Services and Construction Act amendments were passed providing federal grant funds to State Library agencies for the purpose of improving library service to the blind and physically handicapped. Since then the number of regional libraries has increased 58%. During the same period the number of patrons increased over 180%. This growth rate has resulted in the astablishment of subregional libraries (see Section 3.2.2) serving patrons on a more personalized basis.

While the regional libraries provide books to patrons, the machine lending agencies provide equipment support in the form of cassette players, phonographs and special accessories designed for use by the handicapped. There is currently at least one machine lending agency providing services for each regional library. This service includes machine repair as well as distribution. Telephone Pioneers provide voluntary assistance in machine repair using parts available from DBPH. The lending agency must maintain inventory control over all machines entrusted to its care. Approximately one-half of all machine lending agencies are located in the same building as the regional library, thereby allowing close interaction with the operations of the library and easy fulfillment of reporting requirements.

The present operation and needs of the regional libraries are discussed later in Section III.

3.2.2 Subregional Libraries

With the change in eligibility for service legislated in 1966, the need was recognized for new facilities making services available on a more personal basis. Subregional libraries have been developed to meet this need. These libraries, usually community public libraries, are connected to a regional library and act as circulating libraries for the material in the regional collection.

3.2.3 Multi-State Centers

Just as there is a need to reduce regional library service at a site closer to patrons, DBPH Services must become more accessible to regional libraries. This need has resulted in the establishment of multi-state centers to provide storage and distribution support for nationally produced materials, and facilities for equipment repair and tape duplication. There are presently two such centers, located in Daytona Beach, Florida and Salt Lake City, Utah, which service, respectively, the southern and western regions. Two additional centers are planned to service the southeast and Midlands regions. DBPH also plans a telecommunications network linking the multi-state centers with DBPH's computer facility, thereby making all central files available to the various field operations.

Each multi-state center will also serve as a coordinating unit for volunteer productions in its area. Supplies, assistance, and a working area will be made available to the various groups producing books. The proximity at the production sites to the central bibliographic data base will facilitate cataloging of locally produced material.

Although the functions of the multi-state centers have been specified by contract, other network functions could be assumed in the future.

3.3 FIELD VISITS

The data gathered in the field visits to regional libraries (see Appendix B, Structured Interview Sheet) pointed out several important variations between libraries. For example:

- ORGANIZATION Regional libraries are responsible to various types of organizations. Some are parts of larger state, county, municipal or community libraries, and as such have various library facilities available, while others are connected to service organizations such as nonprofit or volunteer group or state commission serving the blind and physically handicapped. Though management reports would essentially contain the same information for all libraries, the frequency and format of these reports varies from library to library. The differences in parent organizations also affect the amount of available funds for any effort needed to implement the DBPH system.
- STAFF The libraries visited vary in professional capabilities. Most have at least one professional librarian and lowa has six. Total staffs average approximately 12, but range as high as 36. Approximately 80% of the staff are required to handle the clerical tasks connected with a manual operation. Much of this time is spent performing circulation tasks.
- e EDP EQUIPMENT (see Section 3.6). The libraries visited range in EDP sophistication from no equipment to an automated system performing complete circulation and inventory control functions (Los Angeles). Some libraries have access to computer facilities but lack technical personnel and funds. The EDP equipment used encompasses a broad range of manufacturers and capabilities.
- OTHER EQUIPMENT Typical is a duplication facility allowing conversions of books from disc to cassette. A survey of all regional libraries would provide more precise information concerning availability of microfilm/fiche readers, photoduplication facilities, etc. Some libraries have TWX or Toll-free call capability, which allows direct interaction with DBPH.



111-3

AUTOMATION PLANS - (see Section 3.6). Among libraries, specific plans for automation vary from none at present to virtually total automation. Many libraries are caught in the middle. They would like to automate but need assistance, guidance, and funds in order to do so. They also need network standards on which to base their systems. Most libraries would adhere to such standards, and would appreciate some interlibrary communications concerning automation activities.

3.4 REGIONAL LIBRARY FUNCTIONS

A variety of basic functions are performed by the network libraries. These include:

- Patron Registration
- Patron Assistance
- Interlibrary Loan
- Cataloging
- Circulation
- Equipment Repair
- Distribution
- Management Reporting

A significant problem in the network is the wide procedural variation in the performance of these functions, resulting from library differences in staff, funding, equipment, and basic policy. This variation must be resolved to a significant degree before any system assisting network operations can be successfully implemented.

The following sections discuss several functions, and are supplemented graphically by generalized flow charts (Appendix C) describing the performance of each function. A particular library may deviate from the discussion or the flow of activity described.

3.4.1 Patron Registration (Appendix C, Figure C-1)

Discovering and enrolling new patrons is a prime function of the network since it is estimated that currently only 6% of the potentially eligible readership is being served.

When a potential patron requests service, a variety of materials are sent. Included are pamphlets explaining the various services available, and an application form. Although a standardized application is available from DBPH, many libraries prefer to develop their own form. Through these forms a basic level of patron information is collected, with some libraries requesting a detailed profile



of the patron while others ask only for the bare essentials. In some cases, the application form itself may be designed to act as the patron file. In most cases the form is placed in a manila folder which will eventually contain has/had lists, want lists, number lists, address plates and labels, as well as any communication from the patron.

Once the patron has indicated his medium and subject preferences, a machine and books are mailed to him or in some cases delivered personally, as indicated in Appendix C. Subscriptions for the various magazines requested are initiated and carateges are sent to the patron.

3.4.2 Patron Assistance (Appendix C, Figure C-2)

One of the most important functions of the library is to be responsive to patron requests and provide immediate assistance.

The responsiveness that can be provided is predicated on internal procedures, which should provide rapid access to patron files, records and materials. Generally, the library readership is divided among various Reader Advisors.

As shown in Appendix C, a request for assistance may take many forms, from a complaint to an urgent need for special educational material. Questions and problems arrive by telephone, written correspondences, and on occasion walk-in contact. The procedure used must provide for documentation of both the request and the assistance provided. The Patron file is the depository for the documented communication. This provides useful background for any subsequent requests for assistance.

3.4.3 Acquisitions

There are two general categories of addition to a Regional Library's collection, solicited and unsolicited material.

3.4.3.1 Solicited Acquisitions (Appendix C, Figure C-3)

Regional libraries may request specific material from DBPH excess lists, commercial distributors, volunteer productions, and through permanent interlibrary loan (See Section 3.4.4). The amount of material thus acquired depends to a certain extent on the budget of the library (for acquisition of non-DBPH material), need, and storage space available.

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3.4.3.2 Unsolicited Acquisitions (Appendix C, Figure C-4)

Generally over 90% and in most cases 99% of all acquisitions come from national productions through DBPH. Other materials are acquired through donations by various groups. This non-DBPH material must be checked for quality and content, and then cataloged accordingly. There is currently little or no cataloging done for this material, because of a lack of standards and/or staff.

3.4.4 Interlibrary Loan (Appendix C, Figure C-5)

The Regional Libraries are often asked to provide material not in their collection. When this happens, an interlibrary loan form is sent to DBPH or to another regional library. The address card on the form is changed in the case of a loan from a regional library to insure return of the material to the proper library. In most cases these requests are addressed to DBPH, resulting in very poor use of the capabilities of a library network for interlibrary loan.

3.4.5 Cataloging (Appendix C, Figure C-6)

With few exceptions, Regional Libraries do not have a cataloger. This expertise is generally supplied by the resident librarian. The general need is to assign additional subject headings to the catalog cards for improved subject identification. Additional content notes, analytics and revised annotations are supplied as deemed useful.

In the case of the volunteer produced materials considered for local use, the cataloger prepares the original catalog card.

A major problem is the backlog of books that are received and awaiting cards from the Library of Congress. In order to place the book in circulation, a temporary card may be papered by the local library for internal use pending arrival of the catalog cards from the Library of Congress.

3.4.6 Circulation

Two circulation methods account for virtually all circulation systems currently in use in the network. The Regional Libraries employ either one of these methods or some combination of both.



3.4.6.1 <u>Turnabout</u> (Appendix C, Figure C-7)

This method provides the patron with a constant number of books; if three books are returned, three new ones are sent. The book numbers are entered in a patron's file to insure that there is no duplication. Books are selected on the basis of a want list (number list) or from a patron's indicated areas of interest. Currently, there is no easy way of locating a particular book.

3.4.5.2 Calendar (Appendix C, Figure C-8)

By this method, books are sent out at regular intervals, and the policy has some obvious drawbacks. Book control is inadequate (as in turnabout) since new books are sent even before old ones are returned.

in the event of a special request, (Appendix C, Figure C-9), the book is sent immediately if available. If unavailable, a request for the book will be placed on a reserve list, and the book will be sent out when a copy arrives.

3.4.7 Equipment Repair (Appendix C, Figure C-10)

Equipment repair is provided by the Machine Lending Agency working with the library. Working machines are sent to the patron immediately upon receipt of a request, and in most cases before receiving the damaged machine. Better equipment control is necessary for proper allocation of machines. Periodically, spare parts are replenished through the Library of Congress.

3.4.8 Distribution

The means of distributing material to patrons vary widely, as do methods of circulation control. The regions need realistic standards in keeping with limits of staff and budget. Equipment distribution methods have resulted in loss of machines because of inadequate control of distribution. A record of each machine sent to a patron should be recorded in both the patron file and a machine file.

3.4.9 Management Reporting

The various reporting requirements of the network libraries are discussed in Section 3.5.



111-7

3.5 NETWORK REPORTIN' REQUIREMENTS

The various types of organizations providing support to the Regional Libraries necessitate a multitude of statistical reports, each with a differing format and frequency. The actual information contained in these reports, however, varies little from library to library.

There are two types of reports, those to DBPH and those to individual managements.

DBPH reports consist of gross readership and circulation statistics, growth percentages on a semiannual basis, and monthly machine statistics (See Section 2). Periodical surveys concerning library characteristics (staff, budget, professional capabilities, etc.), are also returned. The regional library is responsible for gathering this data from its various subregionals and deposit collections.

Management reports consist of the above information plus expenditure and acquisition statistics. Again, though the frequency and format of these reports may differ among libraries, the actual data is the same.

3.6 REGIONAL LIBRARY AUTOMATION ACTIVITIES

Regional libraries are confronted with a rapid rise in workload. In order to meet this increasing demand without diminishing service, the libraries are investigating various automated systems:

The two critical areas of need are:

- Circulation
- Inventory Control

They go hand-in-hand and are labor intensive. The volume of material handling and record keeping has reached a critical stage. Table III-A summarizes the major automation activities currently in existence in the regional libraries. These encompass a wide variety of both current and planned activities, which can be categorized as follows:

- Fully automated libraries
- Libraries anticipating automation
- Lil ries with no plans to automate
- Libraries that would like to automate but lack funds and staff



7



REGIONAL LIBRARY	STATUS	AUTOMATED	PLANNED APPLICATION	EXISTING COM-EDP MANPOWER PUTER EQUIP.	EDP MANPOWER AVAILABLE	PROBLEM
Daytona Beach, Florida	Daytona Beach, RFP for Automates Florida Library system is ready for imme- diate release.	None .	 Circulation Has had list Mailing list Inventory Control 	None	Non e	N/A
Austin, Texas	Plans to acquire larger system, (perhaps a 5/360 Model 40)	Circulation Patron List Inventary Reader Assis- tance	. Further en- hancement	S/360 Model 30 IBM S/360 Model 30	Both IBM-and. in-house staff.	. Shared computer Difficult to schedule computor time, Want dedicated
Čleveland, Ohio	Contract with Hewlett Packard to develop an automated library system.	. Mailing Label . Simple Circu- lation Control	. Circulation . Inventory Con- trol . Mailing labels . Reader Assis- tance	Digital Equip. Company PDP11	No ne	Shared computer Difficult to schedule com- putor 'time
Des Moines, Icwa	No plan at this time	None	Will investi- gate when it becomes nec- essary	None	None	∀ Z

111-9 46

TABLE III-A

SUMMARY OF AUTOMATED ACTIVITIES AMONG THE REGIONAL LIBRARIES

FRIC
Full Text Provided by ERIC

	1		
PROBLEM	∢ Z	∀ Z	∀ Z
EDP MANPOWER AVAILABLE	Zone .	∀ /Z	Staff of NY State Library
COMPUTER EQUIPMENT	L5000 Burroughs L8000 1-5td TWX 1-Braille TWX Dial up to Babson Institute	₹ Z	
FUTURE APPLICATIONS	. Mailing Efst . Reader List (in-house)	. Circulation	•
AUTOMATED APPLICATIONS	Reader List • Performed by Service Bureau	Z one	None
STATUS	Burroughs Equip Reader ment installed Perfe for business Serv application Bure	Equipment installed Equipment available for	System Design 90% complete
REG IONAL LIBRARY	Boston toton	Worcester (Sub-reg.)	Northern New York
R.	Mass.		Z Z

111-10 47/2 TABLE 111-A. (cont'd)

SUMMARY OF MAJOR AUTOMATION ACTIVITIES

PROBLEM	A/A		A Z		₹\Z	
EDP MANPOWER AVAILABLE	None		County Staff	available	Z/A	•
COMPUTER	Univac 1004/5 2 VI-C Tapes	U9400 4 VI–C Tapes KP, Sorter, Reprod.		XWT	V Ž	
FUTURE APPLICATIONS		None	None		None	
AUTOMATED APPLICATIONS		Zone	None		None	
STATUS	, 4/1/2		_i	use available muchine	Submitted	budget for
REGIONAL	> 2	City Sub-reg.	Suffolk	Sub-reg.	Eastern	Pennsylvania

TABLE 111-A ' (cont'd)

Inadequate Computer Storage

1 Analyst

16K-Core 1-5M Byte-Disc 96 col. reader/

Accounting

Statistics Talking Book Cassette

Automated

. Los Angeles, CA

Circulation

Braille Book

IBM S/3

punch

A/N

₹

¥ N

None

None

No current automation

Maryland

plans

approval

SUMMARY OF MAJOR AUTOMATION ACTIVITIES



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SECTION IV

SYSTEM DESIGN

4.1 OBJECTIVES AND SCOPE OF SECTION

This section establishes the system design and requirements for the DBPH Bibliographic Information System. The system is described in terms of its man/machine interaction. In addition, output requirements are identified and described, including the function, frequency, contents, etc., of each output. The Union Catalog requirements are outlined and justified.

All decisions influencing the design are based on the best available know-ledge including a field survey of 12 regional libraries, telephone communications with selected network librarians and a survey of the pertinent literature.

This chapter consists of a suggested system design, subject to change if it becomes apparent that the design is not workable. Results/products, user feedback, the evolution of requirements, and/or changes in function should dictate the final working design.

4.2 SYSTEM DESCRIPTION

Conceptually, the DBPH Bibliographical Information System will contain three subsystems:

- In-process subsystem
- Union catalog subsystem
- Management information subsystem

The in-process subsystem should track the status of every title entered into the system, from the point of selection for print copy order to the creation of the final authoritative bibliographic record and distribution of the books produced. The record of each title is updated with additional information as the title goes through the various stages of processing: order and receipt of print copy, review and selection, copyright clearance, cataloging, limited and mass production, and distribution. Once established in the file, a title should be retained, regardless of whether it successfully completes



IV-1

4.2 continued

all stages of processing. This would enable the person searching the file for purposes of selection, for example, to determine that the title has previously been considered but was not cleared for copyright.

The in-process file should be a union file in the sense that it will include copyright requests from the network as well as the bibliographic records of titles not produced by DBPH.

Each record in the in-process file should contain three types of information: status, e.g., the stage of processing; management, e.g., date print copy is ordered, number of copies, etc.; and bibliographic data, e.g., author, title, etc.

Titles entered into the in-process file should be retained for 5 years. The 5-year period was selected for several reasons. First, the average life expectancy of the hardest to replace and most heavily used item, the disc, is 5 years. Second, circulation of a particular title is minimal after 5 years. And finally, information concerning incomplete titles is no longer extensively required after 5 years.

Every month, those tities that have been successfully put through production should be transferred out of the in-process file. The management information associated with these titles should be transferred to the Management Information Subsystem, which supports various management reports, while the bibliographic data should reside in the Union Catalog Subsystem, which supports the book and microfiche catalog and other publications requiring the bibliographic record. The titles remaining in the in-process file should consist of those that are still in process as well as those that have "dropped out" of the process. Titles that are still in process or "live titles" should contain all of the information related to them, i.e., status, management and bibliographic. After five years, the titles that have "dropped out" or "dead titles" should be permanently transferred to a history tape, which should be available only for batch production of management reports. Therefore, at any time, the in-process file should contain completed titles that have not appeared in the Union Catalog, "live titles" that are in process, and "dead titles" that are not yet 5 years old.

As copies of titles are lost or destroyed, the bibliographic information and management data pertaining to them should be deleted or modified. If the management data and/or bibliographic data still reside in the in-process file, the status code on the title should be changed to indicate that the item no longer exists and the date of the change should be entered. The title should then be regarded as a "dead item", and when it is 5 years old, the management and bibliographic data should

4.2 continued

be transferred to the Management Information Subsystem. Until that time, the bibliographic data can be accessed on-line and the pertinent information can be reviewed and reentered if a new copy of the item is selected for production.

Once the item has become part of the Union Catalog and the management data has been transferred to the Management Information Subsystem, changes and deletions should be accomplished by matching the DBPH control numbers assigned to each item entered into the system.

٠,

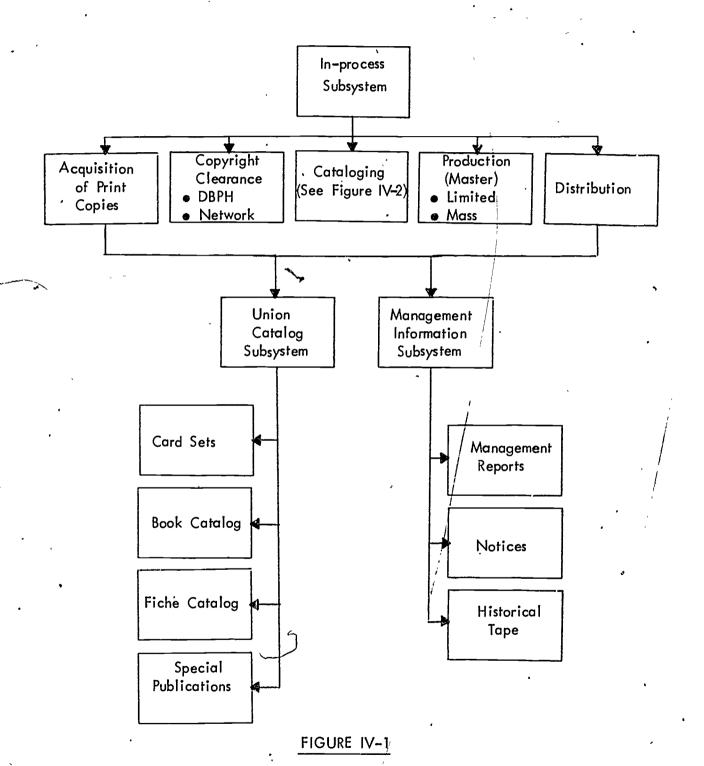
If a rejected title is reconsidered, the appropriate changes to the status code and action date of the existing entry should be made either through on-line access (if the title is less than 5 years old) or through the monthly correction tape (if it is older than 5 years). Should the item be accepted for production at this time, the old entry should be purged from the history tape through the following monthly correction run, and the title entered as a new item in the In-Process File.

The In-process File should be available for on-line searching and update at DBPH. In order to provide the same scope of information to the network, two monthly products should be produced. The first "the Union Catalog Monthly Update", should be a main entry listing giving complete bibliographic information for all titles completed since the previous Union Catalog was produced. Indices to these titles should be available by subject heading, DBPH book number, narrator, and Dewey number. As a minimum, author and truncated titles should be given for each index item. The second product, LUMP, should be a brief listing of titles that are in-process or that have been rejected. In author/title sequence, it should list the following for each item: author, title, publisher, publication date, status code(s), and status date for each code. The cumulated Union Catalog Monthly Update should be updated and produced prior to production of LUMP which covers in-process and rejected titles.

Figure IV-1 is a block diagram which shows an overview of the DBPH Bibliographic Information System and the relationships among its major components. Figure IV-2 provides a more detailed picture of the cataloging component of the In-Process Subsystem.



IV-3



OVERVIEW OF DBPH BIBLIOGRAPHIC INFORMATION SUBSYSTEM

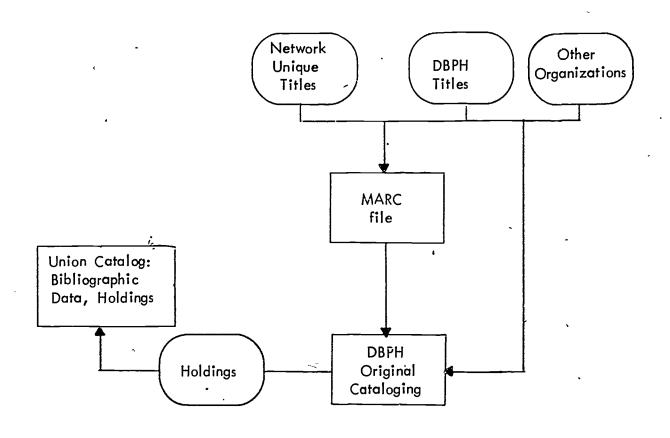


FIGURE IV-2

CATALOGING

4.2.1 System Accessibility

For the system to operate most efficiently, an access authority scheme must be established to identify personnel who are to access the system and the type of access available. Since the volume of activity can only be estimated at this time, no recommendation concerning the location of terminals has been made in this report. It is assumed, however, that there will be sufficient terminals available and that their placement can be assessed upon completion of the physical reorganization.

It is of the utmost importance that the security of the data base be maintained. In order to assure that changes to the data base are made by authorized parties only, security codes should be developed that permit appropriate parties to modify only those files in their area of major interest. In addition, Table IV-A was developed to graphically indicate the sections and staff permitted to interface with the system and the type of action involved.

Since some terms used may require further definition, we have included the following list of terms:

- Query The ability to search for information, display the results, or request a printout.
- Change The ability to query plus input, update, delete, merge, or sort data as necessary.
- <u>Professional</u> (P) A professional librarian or the equivalent.
- Technician (T) A non-professional with decision-making responsibility within the scope of the tasks assigned by a supervisor.
- Clerk (C) A clerk-typist, secretary, or their equivalent.
- Indirect (I) The section indicated requests that the action specified be accomplished by another section. (The term is used only in cases where volume of activity does not justify direct access to the system).
- Blank Square No interface with the system.
- "Yes" Direct interface with the system.



IV-6

	γ.		In-P	In-Process	N.			<	Manayement	Jeme	ŧ			చ్	Union	S. alog	go		
\		Query	·		Change	0	5	Query		Ö,	apur 1	a	ال	Query	_	ပ်	Change	-	
Section Section	۵		U	ج	H	Ņ	۵	F	Ü	بم	F	U	ـــــــــــــــــــــــــــــــــــــــ	F	ارا	اما	H	υ	
Collection Development	Yes		Yes	Yes	•	≺es _	≺. Ke		≪.				Υes		≺es	-			
2 Processing	Yes			Yes	,s		Yes			Yeş			ζ.			Yes			 ,
3 Production	Yes		Yes	Yes		Yes	Yes		Yes				;		,				
4 Technical									,			,	·						 ,
5 Office Services	Yes		Yes	Yes		Yes	Yes		Yes	, Kes		Yes						j	
6 Publication Services	Yes		Ýeṡ	Yes	-	Yes	Yes		Yes	≺es		Yes	≺es	-	, Yes	Yes		Yes	
7 Reference	-						_		٠					_					
8 Music		- I =					_	_	•				_	<u>_</u>	7		_		
9 Volunteer Training							-,	-	v								-		-т
10 Volunteer Utilization	-						_						-		-				
11 Network Services	-						_			_			_						
12 Resources Coordination	Yes′	Yes		_			Yes	Š		-			≺es	Yeś.		_			~
13 Circulation & Collection Maintenance	_			}		,					,		 ≺es	•	Kes Kes				
14 Office of Chief	-						_			_			7(400						
15 Project Coordination Office	Yes			_			Yes		,			-	×es ×			_			
16 Building Services							·							. 1		<u> </u>			
17 Material Dev. Office					<u>.</u>		_		,	-				,		_			
18 Network Dev. Office	_	,	•				.	_		_				`					

TABLE IV-A

USER SYSTEM INTERFACE

4.2.2 Man/Machine Procedures

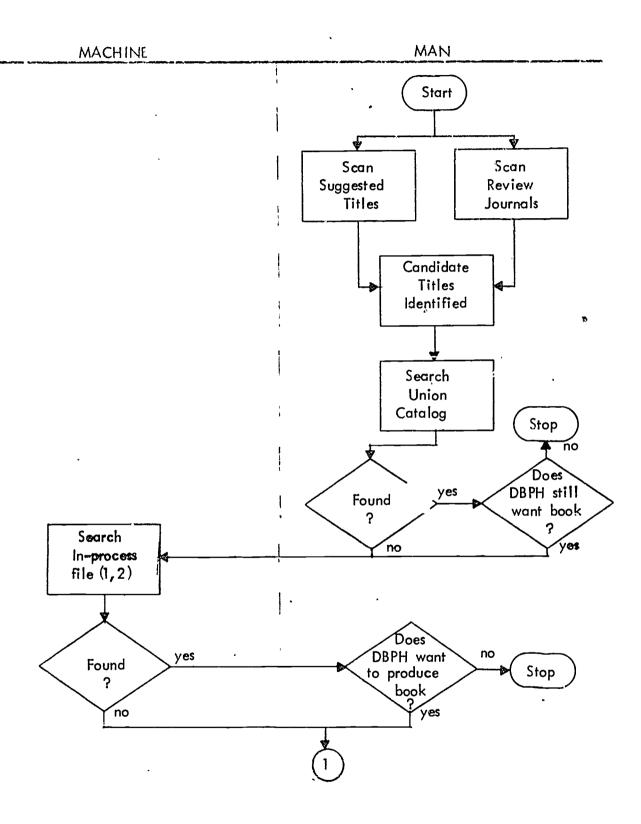
In addition to an overview of the system, the following flowcharts describe the man/machine interaction when one title passes through the system.

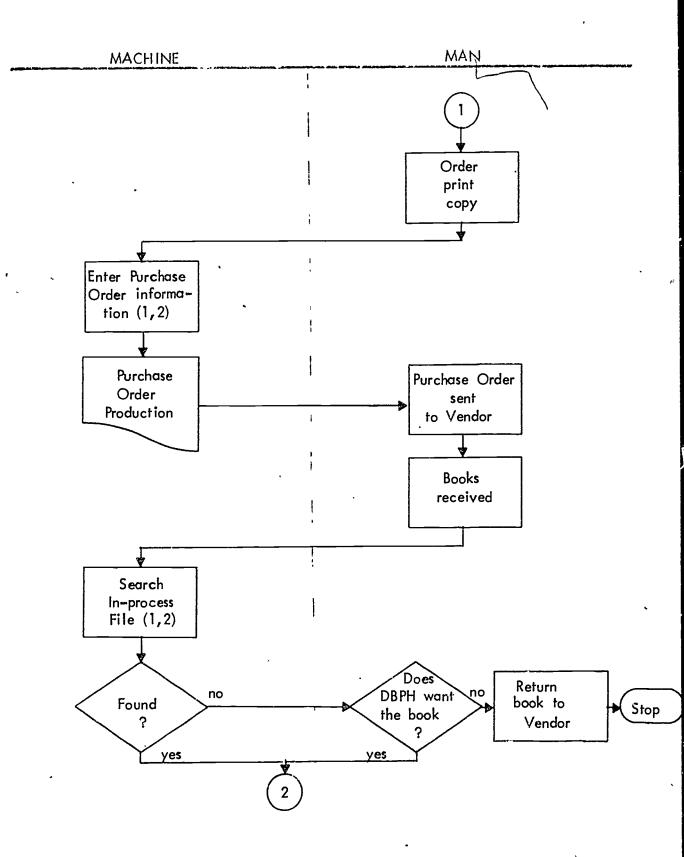
LEGEND: Numbers in parentheses refer to sections responsible:

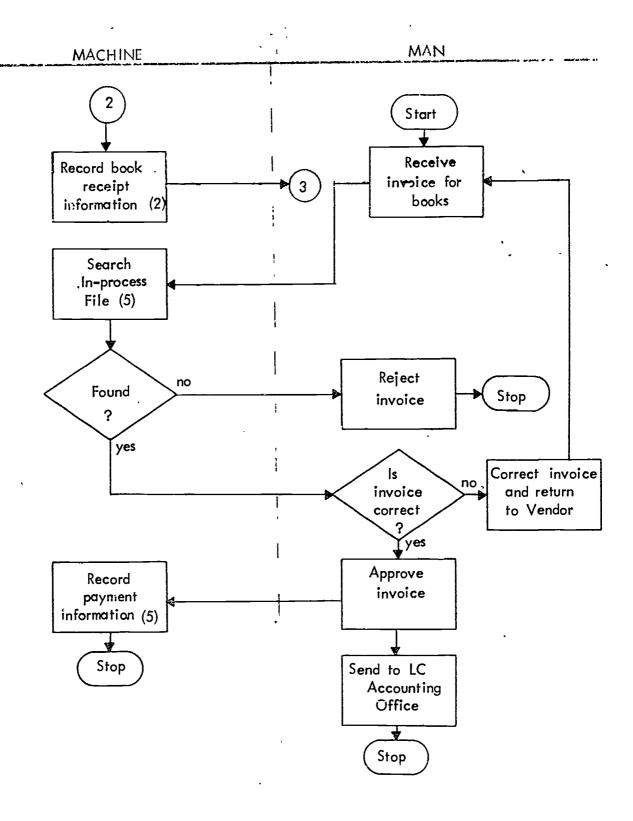
- 1 Collection Development
- 2 Processing
- 3 Production
- 4 Publication Services
- 5 Office Services

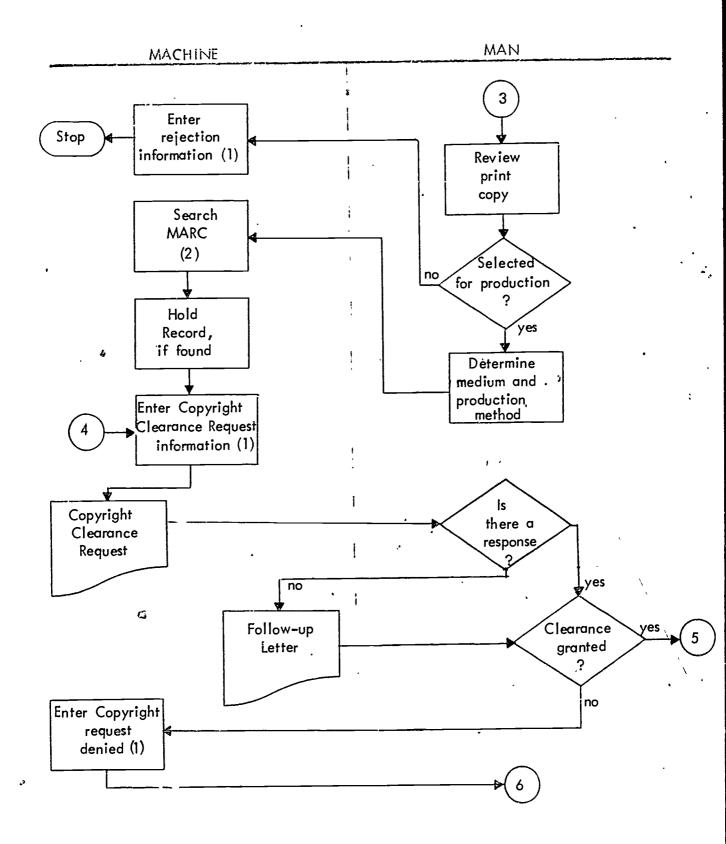


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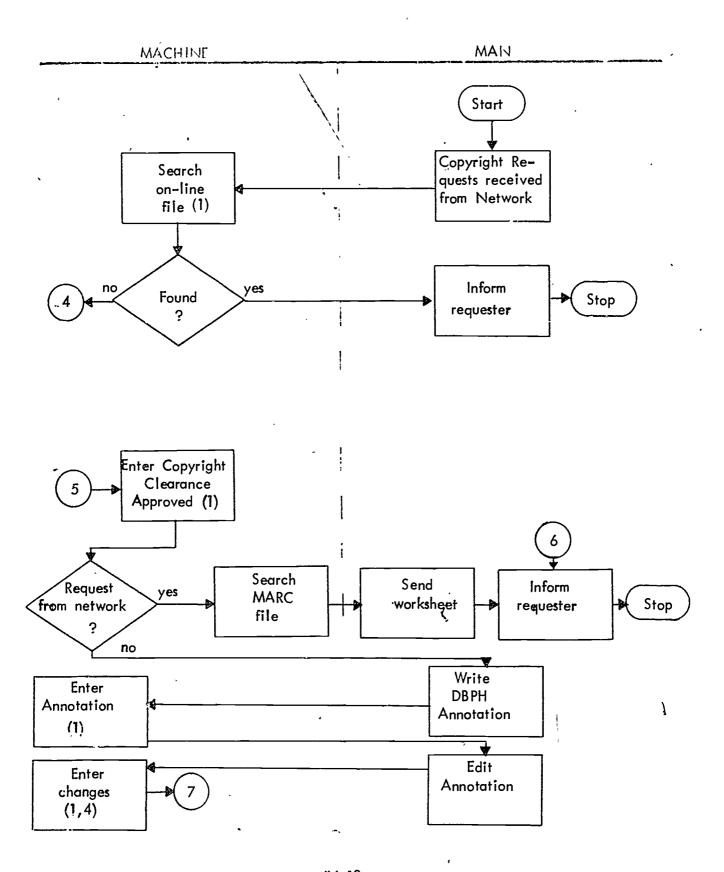




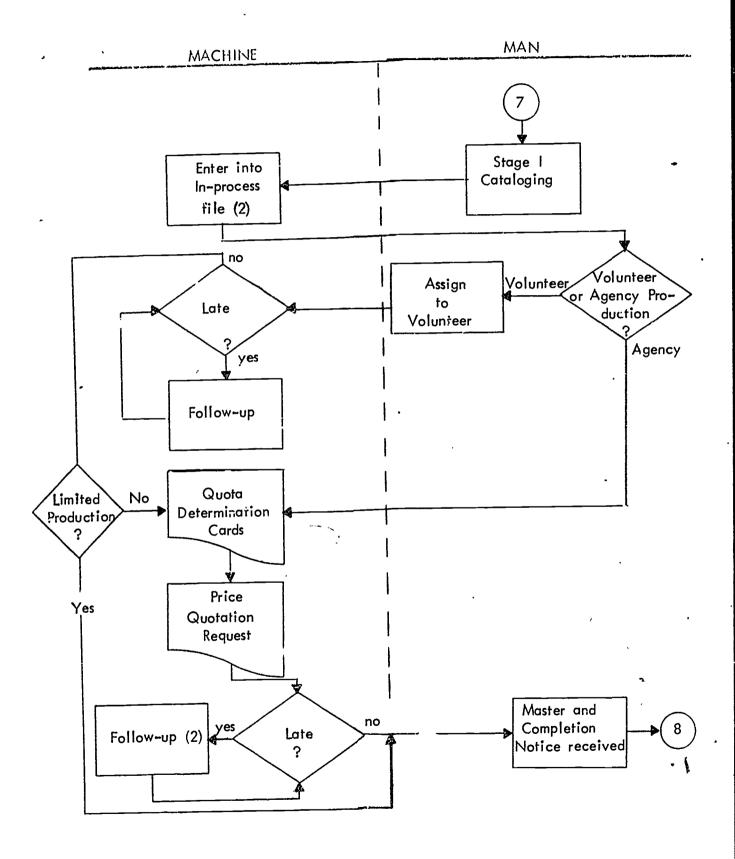




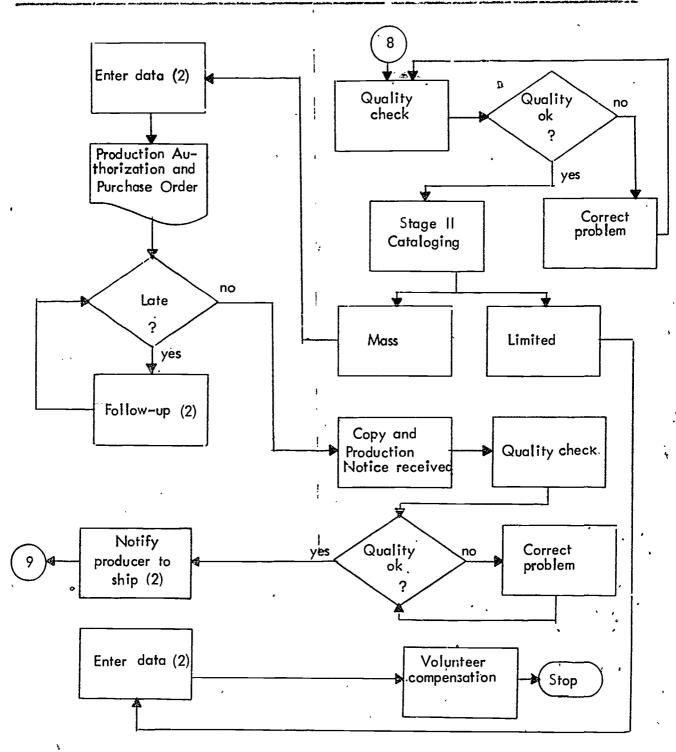


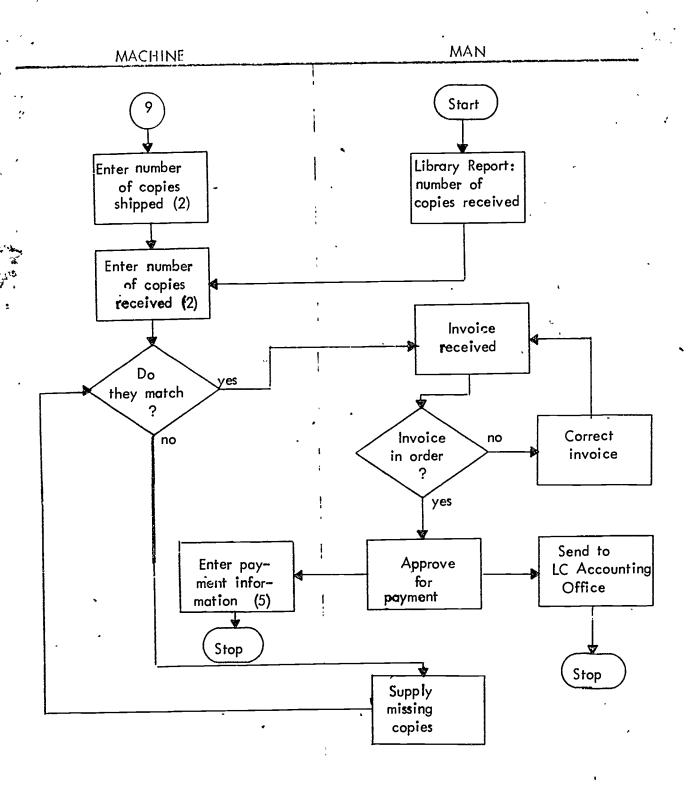








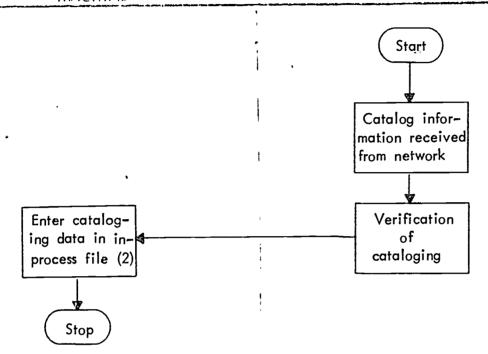


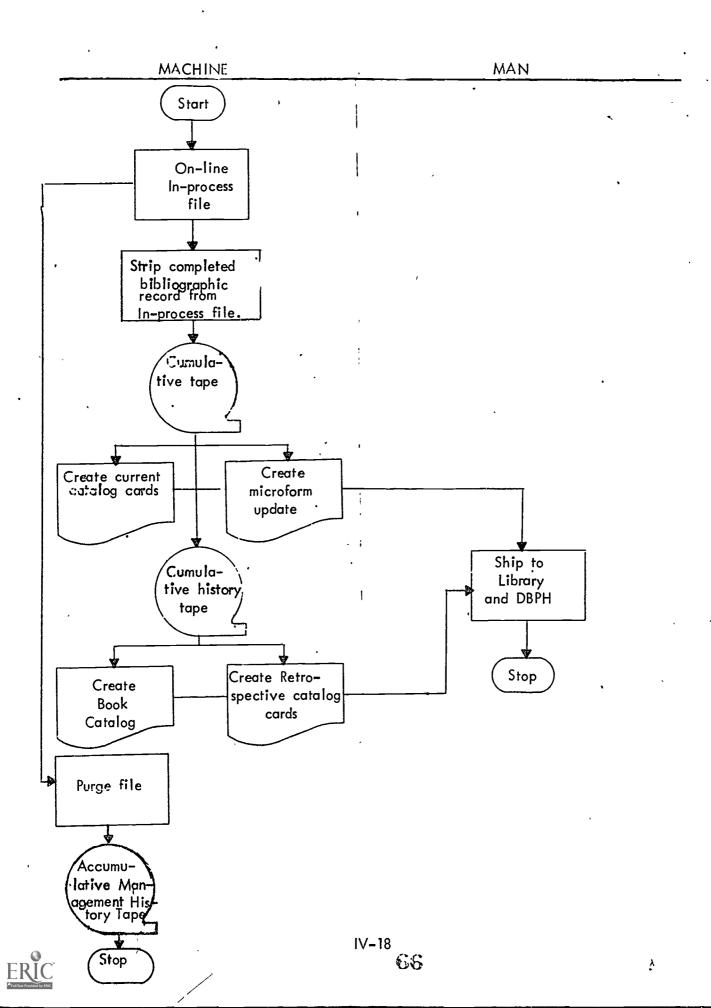




MACHINE

MAN





4.3 SYSTEM OUTPUT REQUIREMENTS

Output requirements of the system include products such as the Union Catalog, management reports, and statistical and selected listings from machine files, as well as products for outside agencies such as claim notices, follow-up letters, etc.

In this section, the outputs of each subsystem are identified. Each output is described in terms of its name, function and user, frequency, medium, filing sequence and minimum contents.

Operational experience and feedback from users may show that existing outputs require modification; therefore, all products should be reviewed by the Automated Systems Coordinator every 3 months for the first 2 years. Appropriate revisions, deletions, additions, and changes should be based on input gathered. After the system has been operational for two years, reviews should be conducted semiannually.

To supplement the feedback gathered from all users, it is recommended that a regular review mechanism be established and charged with reviewing the system on a semiannual basis. Representatives should include librarians from subregional and regional libraries, multi-state centers, Information Systems Office, MARC Development Office, Catalog Distribution Services, and DBPH staff.

Table IV-B summarizes all outputs defined.



		•	
Sub- System	Name of Output	Function	Frequency
I	Purchase Order (Print Copy) Notice	Authorizes Vendor to ship print copy order to DBPH	On demand
l	Vendor Claim or Cancella- tion Notice	Acts as a reminder of outstanding print book orders as well as a notice of can- cellation if applicable.	Automatic
1	Vendor Performance Report	Summarizes the number of titles in each category of "lateness," to provide management with means to monitor vendor 'performance.	Monthly
1	Copyright Request	Ask permission of a copyright holder to produce a title in braille, recorded media, etc.	On demand
1	Copyright Request Notice	Reports copyright request status to requester.	Automatic
ı	Copyright Request Follow- up Notice	Serves as a reminder of pending request to copyright holder.	Automatic
1&M	Copyright Request Report Listing	Summarizes for the copyright holder, all copyright requests granted to DBPH.	On demand
1	Copyright Request Outstand- ing Listing	Lists all copyright requests outstanding for 6 months.	Monthly
	Volunteer Profile Notice (Peripheral information for assignment purposes only)	Provides a thumbnail sketch of volunteers (individuals & agencies who produce books. For use by DBPH in assigning titles for production.	Annually
1	Request for Price Quotation	Informs the appropriate Studio of DBPH's intention of producing a particular title, and authorizes the studio to prepare the master.	On demand

Subsystem Code:

I = In-Process Subsystem

M = Management Information Subsystem

U = Union Cataloging Subsystem

TABLE IV-B

SUMMARY OF OUTPUT REQUIREMENTS

Sub- System	Name of Output	Function	Frequency
I .	Production Authorization - Notice	Informs producing agency of DBPH authorization to start production of multiple copies of new titles.	On demand
l	Production Estimate Follow- up - Notice	Acts as a reminder to producing agency of promised completion date of new titles.	Automatic
I	Titles in Process — Statis- ; tical Summary	Informs DBPH management of the num- ber of titles in various stages of the production cycle, i.e., print copy ordered, print copy received, copyright request pending, etc.	Monthly ~
l	Production Status Report – Statistical Summary	Summarizes for DBPH management the number of titles in each production status.	Monthly
!	Production Status Report Listing	Summarizes for DBPH management and producing agencies the current status of titles in production.	Monthly
1	Quota Cards Notice	Informs network libraries of available titles and number of copies assigned to them. Libraries may modify this number and return card to DBPH.	Monthly
1&M	Production Completion Report Listing	Provides DBPH and multi-state centers with a listing of all titles shipped during the period.	Monthly
18M	Production Completion Report Library Listing	Provides a listing of the titles and number of copies shipped to a network library.	Monthly
:SM	Distribution Schedule Listing	Identifies for the producing agency the number of copies of a title to be shipped.	On demand
1	Mailing Labels Lotice	Prepared by DBPH and used by produc- ing agencies for distribution of newly produced titles.	On demand
	C		•

TABLE IV-B (cont'd)

SUMMARY OF OUTPUT REQUIREMENTS



Sub- System	Name of Output	Function	Frequency
М	Quota Determination Listing	Provides a listing of the DBPH mass— produced titles selected by network libraries.	Monthly
I	Quota Determination - Statistical Summary	Summarizes monthly production figures for DBPH management	Monthly
. 1&M	Production Budget — Statistical Summary	Summarizes the average cost per title for each producing agency.	Monthly
1&M	Book Expenditures — Statistical Summary	Provides information on expenditures, by subject.	
U	Catalog Cards	Provides to libraries that require them, bibliographic records that can be interfiled in existing card catalogs.	On demand
U	DBPH L in Catalog	Provides DBPH and the network with authorative bibliographic and holdings information.	Annually
l	Union Catalog Monthly Update	Provides DBPH and the network with cumulated additions to the DBPH Union Catalog.	Monthly
I	Library Union Monthly Production (LUMP)	Provides DBPI and the network with information concerning in-process and rejected titles.	Monthly
U	Bibliographies (recurrent , and on demand)	Provides the reader with selected list- ings of titles in accordance with special interests.	Irregularly
U	Talking Book Topics	Provides the reader with listings of new titles in various media.	Bimonthly
U	Braille Book Review	Provides the reader with listings of new titles in braille.	Bimonthly
U	Truncated Dewey Index - Listing	Shows titles in the Union Catalog that are classified by Truncated Dewey numbers to show collection strengths.	On demand

TABLE IV-B (cont'd)

Sub- System	Name of Output	Function	Frequer.cy
U	Union Catalog Additions — Statistical Summary	Summarizes for DBPH management the number of titles added to (or deleted from) the Union Catalog with each annual cumulation.	Annually
U	Union Catalog Profile — Statistical Summary	Summarizes for DBPH management information about the collection, as reflected in the Union Catalog.	On demand ·

TABLE IV-B (cont'd)

SUMMARY OF OUTPUT REQUIREMENTS

IV-23

NAME:

Purchase Order (print copy) Notice

FUNCTION: Authorizes Vendor to ship print copy order to DBPH

FREQUENCY: On Demand

MEDIUM: PRINT

FILING SEQUENCE: Not Applicable

CONTENTS:

Vendor Name

Vendor Address

Date of Order

Purchase Order Number (Print Copy)

Author

Title

Publisher

Date of Publication

Edition

Vendor Item Number

Quantity of Print Copies

DBPH Address

Price



NAME: Vendor Claim or Cancellation Notice

FUNCTION: Acts as a reminder of outstanding print book orders as well as

notice of cancellation if applicable

FREQUENCY: Automatic

MEDIUM: PRINT

FILING SEQUENCE: Not Applicable

CONTENTS:

Vendur Name

Vendor Address

Date of Order

Purchase Order Number (Print Copy)

Author

Title

Publisher

Vendor Item Number 💸

Cancelled ___



NAME: Vendor Performance Report - Statistical Summary

FUNCTION: Summarizes the number of titles in each category of "lateness," to

provide management with means to monitor vendor performance

FREQUENCY: Monthly

MEDIUM: PRINT

FILING SEQUENCE: By Vendor

CONTENTS:

Vendor Name

Number of Titles Outstanding

30 days

60 days

90 days

Cancelled

Total by Vendor

Total for all Vendors

NAME: Copyright Request

FUNCTION: Asks permission of a copyright holder to produce a title in braille,

recorded media, etc.

FREQUENCY: On Demand

MEDIUM: PRINT

FILING SEQUENCE: Not Applicable

CONTENTS:

Title

Author

DBPH Control Number

Publisher

Publication Date

Edition

Copyright Statement



NAME: Copyright Request Notice

FUNCTION: Reports Copyright Request status to requester

FREQUENCY: Automatic

MEDIUM: PRINT

FILING SEQUENCE: Not Applicable

CONTENTS:

Name of Copyright Requester

Address of Copyright Requester

Author

Title

Publisher

Date of Publication

Edition

Request Status

Copyright Restrictions



NAME: Copyright Request Follow-up Notice

FUNCTION: Serves as a reminder of pending request to copyright holder

FREQUENCY: Automatic (30,60,90, etc., days)

MEDIUM: PRINT

FÍLING SEQUENCE: Not Applicable

CONTENTS:

¹ Copyright Holder

Copyright Holder Address

Áuthor

Title

Publisher

Date of Publication

Place of Publication

Edition

Follow-up Letter Number

Date of Copyright Request

NAME: Copyright Request Report Listing

FUNCTION: Summarizes for the Copyright Holder all copyright requests granted

to DBPH

FREQUENCY: On Demand

MEDIUM: PRINT

FILING SEQUENCE: By copyright holder, subdivided by author and title

CONTENTS:

Author

Title

Publisher

Date

Edition

Date of Copyright

Date of Copyright Clearance

Copyright Holder

Copyright Holder Address



NAME: Copyright Request Outstanding Listing

FUNCTION: Lists all copyright requests outstanding for 6 months

FREQUENCY: Monthly

MEDIUM: PRINT

FILING SEQUENCE: Author and Title

CONTENTS:

Author

Title

Publisher

Date of Publication

Edition

Copyright Holder

Copyright Holder Address

Date of Copyright Request



NAME: Volunteer Profile Notice

FUNCTION: Provide a thumbnail sketch of volunteers (individuals and agencies) who

produce books. For use by DBPH in assigning titles for production.

FREQUENCY: .Annually

MEDIUM: PRINT

FILING SEQUENCE: By state and city, and by volunteer

CONTENTS:

Volunteer Agency, Name

Volunteer Agency, Address

Equipment

Staff Size (if applicable)

Specialties

Language Skills

Contact person, Name

Contact person, Address

Contact person, telephone number

Certification level(s)



NAME: Request for Price Quotation

FUNCTION: Informs the appropriate studio of DBPH's intention to produce a particular

title, and authorizes the studio to prepare the master

FREQUENCY: On Demand

MEDIUM: PRINT

FILING SEQUENCE: Not Applicable

CONTENTS:

Producing Agency Name

General Instructions

Distribution Code

DBPH Control Number

Author

Title

General Classification

Publisher

Publication Date

Special Instructions

NAME: Production Authorization Notice

FUNCTION: Informs producing agency of DBPH authorization to start production of

multiple copies of new titles

FREQUENCY: On Demand

MEDIUM: PRINT

FILING SEQUENCE: Not Applicable

CONTENTS:

DBPH Book Number

Author

Title

Collation

Producing Agency Name

Producing Agency Address

Name of Reader

Annotation

Suggested Related Titles

Distribution Code

Total Cost

Total Number of Copies

Purchase Order Number

Production Authorization Date

Truncated Dewey Number



NAME: Production Estimate Follow-Up Notice

FUNCTION: Acts as a reminder to producing agency of promised completion date

of new titles.

FREQIF Y: Automatic (30,60,90,etc., days)

MEDIUM: PRINT

FILING SEQUENCE: Not Applicable

CONTENTS:

DBPH Control Number

Author

Title

Publisher

Date of Publication

Edition

Date Production Authorization Sent

Estimated Completion Date

Follow-Up Number

Producing Agency Name

Producing Agency Address



Titles in Process - Statistical Summary

FUNCTION:

Informs DBPH management of the number of titles in various stages of

production cycle, i.e., print copy ordered, print copy received,

copyright request pending, etc.

FREQUENCY: Monthly

MEDIUM:

PRINT

FILING SEQUENCE: By stage of production cycle

CONTENTS:

Stage of production cycle

Number of Titles in production cycle

Total per category

Grand Total



Production Status Report - Statistical Summary

FUNCTION:

Summarizes for DBPH management, the number of titles in each

production status

FREQUEN^

Monthly

MEDIUM:,

PRINT

FILING SEQUENCE: By media, subdivided by producing agency

CONTENTS:

Media

Producing Agency Name

Selection Quota

Number of Titles Ordered

Balance to be Ordered

Number of Titles being recorded or stereotyped

Number of titles shipped



NAME: Production Status Report Listing

FUNCTION: Summarizes for DBPH management and producing agencies the current

status of titles in production

FREQUENCY: Monthly and On Demand

MEDIUM: COM (Monthly)

PRINT (On Demand)

FILING SEQUENCE: Producing Agency

CONTENTS:

Producing Agency Name

Producing Agency Address

Production Medium

Special Instructions

DBPH Control Number

Author

Title

Date of Production Start

Date of Production Completion

Titles being recorded (30,60,90, etc., days)

Titles authorized but not completed (30,60,90, etc., days)

Titles shipped (30, 60, 90, etc., days)

Titles not assigned to any producing agency

Estimated cost



Quota Cards Notice

FUNCTION:

Informs Network Libraries of Available Titles and Number of Copies

assigned to them. Libraries may modify this number and return

card to DBPH

FREQUENCY: Monthly

MEDIUM:

PRINT

FILING SEQUENCE: Not Applicable

CONTENTS:

Library Name

Library Code

Library Address

DBPH Control Number

Title

Production Medium

Annotation

Author

Number of Copies Assigned

Publisher

Publication Date

Review Source

Number of Copies Requested



NAME: Production Completion Report Listing

FUNCTION: Provides DBPH and the Multi-state Centers with a listing of all titles

shipped during the period

FREQUENCY: Monthly

MEDIUM: PRINT

FILING SEQUENCE: By media, subdivided by producing agency

CONTENTS:

DBPH Book Number

Author

Title

Date Shipped

Distribution Code

Producing Agency

Production Medium

Number of Titles Shipped



Production Completion Report Library Listing

FUNCTION:

Provides a listing of the titles and number of copies shipped to a

network library

FREQUENCY: Monthly

MEDIUM:

PRINT

FILING SEQUENCE: By library, subdivided by media, then by producing agency

CONTENTS:

DBPH Control Number/Book Number

Author

Title

Date Shipped

Number of Copies Shipped

Library Code

Production Medium

Producing Agency



Distribution Schedule Listing

FUNCTION:

Identifies for the Producing Agency, the number of copies of a title

to be shipped

FREQUENCY: On Demand

MEDIUM:

PRINT

FILING SEQUENCE: Library Code

CONTENTS:

DBPH Control Number/Book Number

Title

Library Code

Brief Address

Number of Copies to be Shipped

Mailing Labels Notice

FUNCTION:

Prepared by DBPH and used by producing agencies for distribution of

2

newly produced titles

FREQUENCY: On Demand

MEDIUM:

PRINT

FILING SEQUENCE: Not Applicable

CONTENTS:

Producing Agency Name

Producing Agency Address

Library Name

Library Address

DBPH Book Number

"I of number of copies"



Quota Determination. Listing

FUNCTION: Provides a listing of the DBPH mass produced titles selected by

network libraries

FREQUENCY: Monthly

MEDIUM:

PRINT

FILING SEQUENCE: By Library

CONTENTS:

DBPH Control Number/Book Number

Title .

Author

Publisher

Date of Publication

Production Medium

Number of copies assigned by DBPH

Number of copies requested

Library

Quota Determination Statistical Summary

FUNCTION:

Summarizes monthly production figures for DBPH management

FREQUENCY: Monthly

MEDIUM:

PRINT

FILING SEQUENCE: By Library

CONTENTS:

Library

Number of titles selected, by medium to date

Number of titles authorized by medium

Number of titles available for selection, by medium

Number of copies requested, by medium

Number of copies available for selection, by medi m

· NAME:

Production Budget - Statistical Summary

FUNCTION:

Summarizes the average cost per title for each Producing Agency

FREQUENCY: Monthly and On Demand

MEDIUM:

PRINT

FILING SEQUENCE: Producing Agency

CONTENTS:

Producing Agency Name

Selection Quota

Number of titles authorized

Average number of records or volumes

Average number of copies

Average cost per title



Book Expenditures - Statistic Summary

FUNCTION:

Provides Information on expenditures by Subject

FREQUENCY: Quarterly

MEDIUM:

PRINT

FILING SEQUENCE: By Truncated Dewey Number

CONTENTS:

Truncated Dewey Number

Number of Titles in each category

Total cost by category

Total allocation by category

Balance to date



Catalog Cards

FUNCTION:

Provides to libraries which require them, bibliographic records

that can be interfiled in existing card catalogs

FREQUENCY: Retrospective Cards - Monthly for selected libraries

Current Cards - On demand

MEDIUM:

PRINT

FILING SEQUENCE: Not Applicable

CONTENTS:

DBPH MARC data elements

DBPH Union Catalog

FUNCTION:

Provides DBPH and the Network with authoritative bibliographic and

holdings information about a title

FREQUENCY:

Annually

MEDIUM:

PRINT and MICROFICHE

FILING SEQUENCE: Alphabetic including both author and title in one sequence

Indexes By: Subject heading

Book Number

Narrator

Dewey Number (optional or as a replacement

for one of the above)

CONTENTS:

1. Main Entry

DBPH MARC data elements Holdings data

*DBPH book number

*Local book number

*Collation

*Lending conditions code

*Library code

Material Location Code (the minimum set of possible combinations)

DBPH, multi-state, regionals, and subregionals

DBPH, multi-state, and regionals

DBPH, regionals

Multi-state, regionals, and subregionals

Multi-state, regionals

Regionals, subregionals

Regionals only

2. Index Entry (minimum requirements)

Author

Title

*Note: All volunteer produced materials will have the asterisked data elements as appropriate; DBPH produced material will have only the DBPH book number, material location code, and collation.



Union Catalog Monthly Update

FUNCTION:

Provides DBPH and the Network with cumulated additions to the

DBPH Union Catalog

FREQUENCY:

Monthly

MEDIUM: .

MICROFICHE

FILING SEQUENCE: Alphabetic including both author and title in one sequence

Indexes By:

Subject heading

Book Number

Narrator

Dewey Number (optional or as a replacement for one of the above)

CONTENTS:

1. Main Entry

DBPH MARC data elements Holdings data

*DBPH book number

*Local book number

*Collation

*Lending Conditions Code

*Library code

Material Location Code (the minimum set of possible combinations)

DBPH, multi-state, regionals and subregionals

DBPH, multi-state, and regionals

DBPH, regionals

Multi-state, regionals, and subregionals

Multi-state, regionals

Regionals, subregionals

Regionals only

Index Entry (minimum requirements)

Author

Title

All volunteer produced materials will have the asterisked data elements as *Note: appropriate; DBPH produced material will have only the DBPH book number, material location code, and collation.



NAME: Library Union Monthly Production (LUMP)

FUNCTION: Provides DBPH and the network with information concerning in-process

and rejected titles

FREQUENCY: Monthly

MEDIUM: MICROFICHE

FILING SEQUENCE: Alphabetic including both author and title in one sequence

CONTENTS:

Author

Title

Publisher

Publication Date

Status Code(s)

Status Date for each code

Bibliographies (recurrent and on demand)

FUNCTION:

Provide the reader with selected listings of titles related to his/her

special interests

FREQUENCY:

Irregularly

MEDIUM: -

PRINT AND BRAILLE

FILING SEQUENCE:

Author and Title or DBPH Book Number

CONTENTS:

Same as Talking Book Topics

Talking Book Topics

FUNCTION:

Provides the reader with listings of new titles in various media.

FREQUENCY:

Bi-monthly, and cumulated biennially

MEDIUM:

PRINT (Bibliographic data only, initially)

FILING SEQUENCE: DBPH book number, index by media and author/title within ...

media

CONTENTS:

General Classification

Author 1

Title

DBPH Book Number

Narrator

Collation

Annotation

Publication Date

Braille Book Réview

FUNCTION:

Provides the reader listings of new titles in braille

FREQUENCY: Bi-monthly, and cumulated biennially (

MEDIUM:

BRAILLE AND PRINT (Bibliographic data only initially)

FILING SEQUENCE: Title

CONTENTS:

Same as Talking Book Topics, except for narrator



NAME: Truncated Dewey Index Listing

FUNCTION: Shows titles in the Union Catalog that are classified by Truncated

Dewey Number, to show collection strengths

FREQUENCY On Demand

MEDIUM: PRINT

FILING SEQUENCE: Truncated Dewey Number

CONTENTS:

Truncated Dewey Number

Author

Title

DBPH Book Number



NAME: Union Catalog Additions - Statistical Summary

FUNCTION: Summarizes for DBPH management, the number of titles added to

. (or deleted from) the Union Catalog with each annual cumulation

FREQUENCY: Annually

MEDIUM: PRINT

FILING SEQUENCE: By Truncated Dewey Number and by Production Medium

CONTENTS:

Truncated Dewey Number

Number of titles added to each category

Number of titles deleted from each category

Production medium .

Library code

Producing agency



NAME: Union.Catalog Profile - Statistical Summary

FUNCTION: Summarizes for DBPH management, information about the collection,

as reflected in the Union Catalog

FREQUENCY: On Demand

MEDIUM: PRINT

FILING SEQUENCE: By Truncated Dewey Number and by production medium

CONTENTS:

Same, as Union Catalog Additions .

4.4 UNION CATALOG REQUIREMENTS

4.4.1 Content and Format

The Union Catalog record should contain the full bibliographic description of a title, in accordance with the DBPH cataloging manual. It should also include holdings information described in terms of the material location code, book number, collation, lending conditions and producing library or agency code (if different from material location code). Exhibit IV-1 is an example of a complete entry in the Union Catalog. (See also output definition on page IV-20.)

The full record will be given under the main entry. The arrangement of the main body will be alphabetic including both author and title in one sequence. Indices should be provided under the following additional access points:

- Index term and/or subject neadings.
- Book number, including DBPH numbers
- Narrator
- Dewey number (optional or as a replacement for one of the above)

Index entries will refer the reader to the appropriate main entry (author or title) in the full record section of the catalog. If there is a DBPH book number, it will be included in the index entry.

4.4.2 Media and Frequency of Issue

The DBPH Union Catalog should be issued annually in print and microfiche. This is the major product of the DBPH Bibliographic Information System.

It is recommended that the hard copy version of the catalog be produced with 6 point type. This size will permit 3 columns of entries per page and should be readable on a continuous basis with ease by the normally sighted and those with minimal visual handicaps. A review of current literature and discussions with selected network librarians indicate that this size is acceptable. Almost all library book catalogs, many retail and parts stores (such as Sears, Roebuck & Co. and Ford Motor Co.), use 6 point type. Other organizations have even smaller sizes, including the Library of Congress' recently published



Stafford, Jean, 1915The collected stories of Jean Stafford.
New York, Farrar, Strauss and Giroux, 1969.
AFB

A collection of short stories centering on the individual and his or her relation to time and place, frequently set during the cocktail hour and the dinner party afterward.

CONTENTS: The innocents abroad.—The Bostonians.—Other manifestations of the American scene.—Cowboys and Indians.—Magic mountains.—Manhattan Island.

1. Short stories. 2. Identity. I. Benson, Esther, narrator. PZ3.S7783Co 813.54 72-993097

TB3389 1 26s. 10in. 16rpm 1144min.

BRA245 2 29v. handcopied
CBA3742 3 17c. C-90 15/16ips
DBPH FLMS MARL

BRFLMS469 FLMS 30v. Handcopied 2 (ALRL)
CBCARL3210 CARL 14c. C-120 1 7/8 1
CBUTMS1758 UTMS 14c. C-120 1 7/8, 2 (ORRL)

Local Material Collation Lending
Book Location Code Conditions
Number Code

EXHIBIT IV-1

SAMPLE UNION CATALOG ENTRY (SUGGESTED)

Film Catalog (5 point type) and information operator catalogs produced by many telephone companies (4 point type). The smaller sizes can cause some eye strain when used frequently.

To assure that this size type is fully acceptable, it is further recommended that a test catalog be produced and distributed to the DBPH network. After 3 months of usage, feedback should be sufficient to confirm this recommendation or to provide justification for a larger size or a different format, even though cost and the number of pages would be substantially increased by this adjustment.

It is also recommended that 42X reduction microfiche be produced. Microfiche will allow the use of a less expensive reader by the libraries than would be possible if the system were to utilize microfilm. In addition, a microfiche reader using multiple lens and capable of projecting an image on the wall for those with visual problems should be selected.

While it is less costly to issue the DBPH Union Catalog only in microform, there are significant advantages to be gained by issuing the Catalog in book form. For example, it is portable and relatively easy to handle and scan. Furthermore, it allows the insertion of notes and can be used for the initial reporting of unique titles and holdings of the network libraries. Lastly, the book catalog has a wider potential distribution outside of the network, i.e., to hospital libraries, etc.

4.4.3 Union Catalog Monthly Update

DBPH should issue an update to the Union Catalog each month. This update should cumulate monthly until the annual Union Catalog is produced. As in the annual Union Catalog, complete bibliographic information should be given under the main entry with indices by Subject Heading, Book Number, Narrater, and possibly Dewey Number as a minimum. Each index entry should contain author and title. The update should be issued in microfiche prior to 'the production of LUMP'.

4.4.4 The Library Union Monthly Production

The Library Union Monthly Production (LUMP) will contain all titles in various stages of production ("live titles") as well as those titles that were considered but did not complete the process for reasons such as non-clearance of copyright and rejection for production ("dead titles").

4.4.4 continued

LUMP will consist of brief entries for "live" and "dead" titles including the status. The inclusion of "l' 'dead" titles in the LUMP file provides the network with the same scop 'no mation available at DBPH. To search for any title, only three sources need be consulted: The Union Catalog, Union Catalog Monthly Update, and LUMP.

LUMP should be reissued monthly. At that time, all "dead titles" which have resided in the file for the required 5 year period will be permanently stored on a history tape. The probability of searching for a dead title after 5 years is low.

In view of the scope of LUMP and the fact that monthly reissues are desired, the only feasible medium is microform. The following is a comparison of LUMP in comparer output microform (COM) and hard copy in terms of the currency of information, cost, and bulk. It is estimated that it would take the Government Printing Office a minimum of 6 weeks to produce and distribute a print issue of LUMP. At this rate of production, the lag time in terms of the currency of information would be compounded at each successive issue. In comparison, COM prepared by a service bureau has a turnaround time of 3 to 5 days. LC is considering acquiring in-house capability of producing COM.

In terms of production costs and bulk of the product, it is clear that COM is a favorable choice.



iV-61

SECTION V

IMPLEMENTATION PLAN

5.1 OBJECTIVES AND SCOPE

This section discusses the proposed computerized bibliographic system as it relates to the existing 3-year plan, assessing hardware, software, and support requirements. One of four suggested computer facilities will be used in implementing the plan, and the pros and cons of each facility are explored. The four facilities, listed in order of descending feasibility, are:

- 1) The LC Information Systems Office,
- 2) The computer facility of another government agency,
- 3) The computer facility of a nongovernment agency,
- 4) A DBPH minicomputer facility.

Utilization of the LC Information Systems Office is the recommended approach for implementing the plan. This approach is designed to employ LC facilities and to supplement LC resources with outside contractual support, whenever necessary.

5.2 DBPH 3-YEAR AUTOMATION PLAN PARAMETERS

In preparation for developing an automated bibliographic control system, a 3-year automation plan was devised. An overall objective was specified, and various tasks and subtasks were delineated for each year or phase of the project. The 3-year plan should provide overall guidance in developing a complete system design and implementation schedule. It is understood that changes in requirements or other unforeseen developments may postpone, eliminate, modify, or add some tasks.

A number of tasks begun in Phase I will extend into the first half of Phase II. For example, the cataloging of the limited-production material and its subsequent conversion to machine-readable form will not be completed until the first half of fiscal year 1976. Funds for the conversion effort will come from fiscal year 1975 monites. A number of subtasks, however, such as the development of annotation guidelines and a DBPH-oriented MARC manual, have been identified and will be completed during the 1975 fiscal year.

The publication of the Union Catalog in book form will be a major product of this system. Because production of the first experimental working-document of the

5.2 continued

Union Catalog requires a great deal of manual effort, the recataloging of existing titles was begun during Phase I of the project. Publication of the first working-document will coincide with the completion of approximately 50 percent of the total system design. Production requirements will have to be considered in preparing the system design, since the catalog and its updates will eventually be a product of the system. See Table V-A for the highlights of the task, the current status and estimated expenditures.

By the end of the second year (fiscal year 1976), all of Phase I tasks should be completed, and Phase II tasks finished on schedule. Although money has been allocated for specific tasks, it is quite possible that changes will occur that will require a review of these tasks in order to reassign available resources.

The figures in Table V-B differ from the estimates in the original three-year plan based on information gathered in the course of this study.

The projected expenditures for the third year (Fiscal Year 1977), were based on preliminary estimates for producing the Union Catalogs. Subsequent analysis indicates that catalog production costs will be greater than originally anticipated. As a result more funds will be required to make up the difference, otherwise funds projected for Tasks B-D will have to be reduced or eliminated. If the latter option is selected, the projected time frame for system development will have to be revised in conformance to available funding. The dollar figures on Table V-C represent the latter option. If all tasks are funded at an adequate level, an additional \$83,000 will be required.

The need for funding system development should continue into this year. Temporary personnel probably will also be required for completing major input and editing and reviewing data. However, this should be the last year for system development and file-building. DBPH can, therefore, concentrate on system maintenance and improvement.

The following summarizes expenditures under the 3-year plan:

PHASE I - Fiscal Year 1975	\$260,000
PHASE II – Fiscal Year 1976 –	267,000
PHASE III - Fiscal Year 1977	267,000
Total 3-Year Plan	\$794,000





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ERIC Full Text Provided by ERIC

TASKS	STAŤUS	EXPENDITURES
TASK A - Bibliographic Record Development Review catalogs for completeness, relevancy, and coverage, by conducting a physical inventory and reviewing for conformity to applicable standards; Develop recataloging procedures, including record formats.	In process. To be completed by the Retrospective Cataloging Project: 12,000 mass-produced titles finished and 22,000 limited production begun. All manuals, procedures, and forms developed.	\$185,000
TASK B - Systems Study Review DBPH operations; Interview selected regional and subregional libraries; Review existing hardware systems; Recommend system to convert previously cataloged titles to machine-readable formats; Recommend system for handling requirements	In process and will be completed with the acceptance of this reportations.	40,000
TASK C - Catalog Record Conversion Convert recataloged titles to machine-read-	RFP issued and expect to award this fiscal year.	35,000
TASK D - System Development Initiation • Prepare basic outline of and controlling programs for the system.	In process. Basic steps have begun. If system recommended is acceptable, ISO will submit a more detailed outline and system specifications.	0
	\$ TOTAL	\$260,000

TABLE V-A

PHASE I: SYSTEMS, ANALYSIS, DESIGN AND FILE-BUILDING - FY1975

TOTAL FUNDS AVAILABLE: \$260,000

V-3

TASKS	STATŪS .	EXPENDITURES
TASK A - System Development and Implementation	To be initiated after system study accepted. Initial rerminals selected.	\$ 86,500
Develop, test, and debug software; Select hardware; Document system.		
TASK B - Production of Initial DBPH Catalogs • Produce hardcopy and microform version of 12,000 converted titles; • Produce hardcopy and microform version of Produce hardcopy and microform version of	To be initiated as soon as machinereadable records are produced and format is accepted. Waiver to use Videocomp at LC granted.	108, 500
Iimited and mass titles (Union Caralog). TASK C - Input Cataloging Data for Remaining Titles	Initial planning has begun.	. ~22,000
Gather bibliographic data on tactile and recorded titles produced by affiliated agencies and volunteer groups.		
	TOTAL	\$267,000

TABLE V-B

PHASE II: SYSTEM DEVELOPMENT AND IMPLEMENTATION - FY1976

TOTAL FUNDS REQUESTED: \$267,000

ERIC
Full Text Provided by ERIC

ŢĀCKS	STATUS	EXPENDITURES
TASK A - System Outputs	To be developed from system design	\$203,000
 Produce hardcopy and microform Union Catalog; Produce monthly accumulated catalogs, in-process listings, etc. 		•
TASK B - System Development and Testing	To be developed by documenting	24,000
 Integrate, monitor, review, and complete system; Establish operating criteria, interfaces, and define nerwork data; e.g., flow, rate, media. 	procedures and user interface.	
TASK C - Additional System Input, Especially Non-LC Produced Titles	To be developed after system is operational.	25,000
TASK D - Additional System Hardware Define additional hardware requirements; Lease hardware.	To be developed aftēr system is operational.	15,000
	TOTAL	.\$267,000

TABLE V-C

PHASE III: SYSTEMS INSTALLATION, TESTING, AND MONITORING - FY1977

TOTAL FUNDS REQUESTED: \$267,000

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22.6.

5.3 UNION CATALOG PRODUCTION COSTS

The start-up year production costs for two issues of the Union Cotalog in book and microfiche forms are estimated at \$108,420 for the 32,437 mass production and limited-production titles. Cost estimates assume 500 copies per issue and a 42X reduction ratio for fiche products. Colculations are shown in Appendix D.

As additional software copabilities are made available, production costs will increase to cover a greater range of products. It is estimated that \$203,006.64 will be required to cover the first year of regular production. This amount covers the book and microfiche cotalog issued annually, monthly updates in fiche, and issues of the Library Union Monthly Production in fiche. Since over \$192,000 of the costs for the first year of regular production is earmorked for the Union Cotalog in book format and since this cost will increase as more title; are added, it is recommended that during the initial production stages DBPH analyze very corefully the demand for this product and the uses to which it is being put.

It should be pointed out that the cost figures just quoted reflect the update procedure referred to in Appendix D. The procedure colls for monthly cumulations of titles processed since production of the previous Union Cotalog. Using this method of update requires the user to check the annual and monthly issues of the Union Cotalog to complete a search. Built-in cost sovings are derived by using the CDS Videocomp to generate comera-ready masters. Finally, if on-line access becomes available to the network libraries, monthly production of all cotalogs should be eliminated and a more flexible schedule for emergency backup purposes and distribution to non-network libraries developed.

5.4 PHASE II: POSSIBLE ALTERNATIVES FOR IMPLEMENTATION

Four olternative computer facilities for implementation ore:

- 1) LC Information Systems Office,
- 2) Other government ogency computer facilities,
- 3) Commercial contractor, and
- 4) DBPH minicomputer focility.

The odvantoges and disadvantoges of each method are considered in terms of operational efficiency, user acceptance, maintenance of system integrity, and impact on DBPH's overall service. An illustration of possible applications for each alternatives is included as a guide for evaluation.

5.4.1 LC Information Systems Office (ISO) -- Computer Facility

Given DBPH requirements, this alternative has many unique advantages and a few significant disadvantages.

Advantages:

- 1. Basic software, such as the present Order Control System, BIBSYS, SCORPIO, and other supporting software needed to manipulate the MARC data base and to meet DBPH requirements, are all located at ISO. ISO personnel are familiar with related systems at LC, such as the Videocomp in the Catalog Distribution Service and its related software.
- 2. The existing Order Control System provides a sound foundation on which to build the system described in Section IV. If modified and enhanced, it could meet system requirements, thus obviating the necessity for an extensive development effort.
- 3. Because extensive development would not be necessary, it is probable that this is the only alternative that would meet the deadline set in the 3-year plan.
- 4. At present, DBPH does not reimburse ISO for the use of its facilities (software and hardware) or for money expended for system design and program development when performed by staff members.

Disadvantages:

- 1. There is no written Library of Congress administrative commitment concerning a DBPH development effort at ISO.
- 2. Adequate CPU and disc storage is not available; however, the current upgrading of ISO hardware should remedy this shortcoming.
- 3. Significant discrepancies exist between BIBSYS and the internal MARC processing format developed by the MARC Development Office (MDO). BIBSYS will be usable only if ISO modifies it to accommodate DBPH records developed in accordance with the internal MARC standards.
- 4. DBPH may be unable to monitor ISO operations closely enough to assure a high priority for the project and guarantee adherence to schedules and completion of milestones.

5.4.1 continued

Illustration:

- Descriptions of avoilable resources and the current DBPH system illustrate the viability of developing the DBPH bibliographic system at ISO are avoilable to support development of the DBPH system. They are:
 - a) MARC System -- Providing on-line retrievol of the entire MARC, dota base,
 - b) SCORBIO -- Providing on-line information retrieval, and
 - c) BIBSYS -- Providing complete file mointenance, file inversion, report production, and retriever copability ollowing up to 30 queries using Boolean logic.

ISO also has experience in formatting MARC records for the Cotalog Distribution Service (CDS) Videocomp Unit which produces electronic photocomposition of hard copy output and for a COM unit.

The operational DBPH system maintains partial control over the production process, from the ordering of print review copies of the final production of DBPH material in special media, and the collection of ossociated bibliographic information. Production and local bibliographic data are contained in the In-Process File. With the generation of a book order for a print review copy, an in-process record is created for each title. It is edited and updated with additional control information as the book continues through production.

The In-Process File is on-line for editing and update and may be occessed by the DBPH control number, title, media, agency, studia, Dewey Number, general classification, copyright status, volunteer status, order status for cotalog cords (limited-production material), MARC request status, print-book status, and payment status, or a combination of any of the above (e.g., a search for all books being produced in braille by a volunteer).

The Moster Bibliographic File contains information required for cotaloging and bibliographic control of DBPH material. A full record is created for each title by accessing the MARC data base and extracting all matches, stripping unwanted tags from the MARC record, adding special local DBPH tags from the In-Process File, and inserting an annotation.

The DBPH system interfoces in a batch made with the MARC data base to obtain bibliographic information used in cotaloging. Using the MARC data base, 85 percent of the searches for mass-production titles and 60 percent of the searches for limited-production titles are successful.



117

5.4.1 continued

DBPH does not reimburse ISO for services provided by staff members or for use of software systems provided by that facility. However, it would be necessary for DBPH to provide supplemental funds for ISO outside contracts and for hardware expenses not included in their budget. ISO administrators have indicated that the amount required for outside contracts would be less than that used for any of the other alternate facilities.

Estimates are given below:

TATION DE ACTORNICHT COST	System	Deve	lopment	Costs
---------------------------	--------	------	---------	-------

A. Contract personnel costs (based on industry standards of \$50,000 per person year)

Programmer,	9	person-months	:	\$ 37,500°
Programmer,	6	person-months		25,000

B. Hardware costs (computer usage and terminal, leases)
@ \$6.00 per hour for 4,000 hours (four terminals @ 4 hours per day average usage over 50 weeks)

C. Software costs (no charge for usage)

		•	•

\$ 24,000

62,500

-0-

Total Cost 4 \$ 86,500

Operational expenses for this system are based upon conversations with ISO personnel and should fall within an acceptable and reasonable range. DBPH would have to pay for hardware if these expenses cannot be absorbed by the ISO budget. No charges are expected for utilization of ISO software. Most DBPH expenses could be defrayed through a transfer of funds. The following is an estimate of DBPH expenses:

A. Hardware costs

1)	Lease of terminals and related equipment	,		\$ 10,000 /
	9		,	

2) CPU usage at \$6.00 per hour for 5,000 hours, based on five terminals at 4 hours per day for 50 weeks

\$ 30,000

B. Software costs (no separate estimates pcan be made)

-0--

Total cost per year **40,000**

Other advantages of using ISO not associated with costs are discussed in Section 5.5. These "value-added" features are important considerations to DBPH and the goals of the proposed automation system.

5.4.2 Other Government Agency Computer Facilities

The second alternative is to utilize the computer facilities of another government agency.

Advantages:

- 1. DBPH would have fiscal control over the project.
- 2. A system could be developed and operated at less cost at another government agency than at a commercial firm.
- 3. Since DBPH would not have to add staff to develop and/or operate the system, personnel costs could be kept to a minimum.
- 4. Start-up time would be less than for a commercial firm or a DBPH minicomputer system.
 - 5. DBPH would be able to use, with modifications, some of the system design and software being developed or already completed of the for other government agencies.
- 6. The hardware, system availability, and system accessibility thus obtainable would exceed DBPH requirements.

Disadvantages: \

- The price for development and operation at another government agency will exceed ISO projected costs. This may mean that other tasks listed in the 3-year plan, such as the recataloging of outstanding material from network libraries, volunteer organizations, and cooperating agencies, will have to extend over a longer period of time in order to assure adequate funding.
- 2. While DBPH can maintain financial control over a government contractor, contract compliance cannot be absolutely guaranteed. The difficulties inherent in the effective monitoring of a system in another government agency could hinder completion of the project within the parameters of the 3-year plan.
- 3. Implementation of the project would also be stalled by time spent on transfer, start-up, and development at another agency. While such basic systems as BIBSYS can be transferred, they would have to be modified, or another system would have to be developed. The existing DBPH system would have to be entirely rewritten.
- 4. Demands placed on the facility by internal users might reduce DBPH access to an unacceptable level. Furthermore, access to MARC would have to be gained through another system, such as ISO, OCLC, BIBNET, etc., and appropriate records would have to be transferred to the selected computer system.
- 5. Although another government agency would run the system, a contract for the system design and programming would have to be put out on bid to a contractor. The successful bidder's staff would probably need time to become familiar with the division's operations and requirements.
- One calendar year beyond the timetable projected by ISO would probably be required to implement the system, even though the estimated 5 man-years for analysis, design, and programming remains feasible. Furthermore, turnover in personnel at the contractor's facility might prolong this process.

Illustration:

Several government computer facilities can be used by DBPH. The National Institutes of Health (NIH) facility located in Bethesda, Maryland, operates two large IBM computers with a total telecommunication capability



5.4.2 continued

sufficient to support comprehensive remote job entry from user terminals located anywhere in this country.

The NIH main-system computer programs appropriate for library applications are:

- 1. WYLBUR -- A text editor and remote job entry system that allows a user to communicate on-line to create, modify, store, and retrieve textual data.
- 2. Inquiry and Reporting System (IRS) -- A commercially available data-refigieval and report-generation software package.

These programs are operational and have already been utilized by government libraries. The Department of the Interior Library has developed the capability to process library-related information, including the MARC records, which would also be useful to DBPH.

The estimated cost of running the DBPH system on the NIH computer is lower than on a commercial system. The average fee for computer usage is \$10.00 per terminal hour. This is based on \$6.00 per hour for CPU usage and \$4.00 per hour for software usage. If this alternative is chosen, DBPH would have to purchase the IRS system for \$25,000 (GSA schedule) or establish a leasing arrangement. The following is a list of estimated expenditures for this approach:

•		Total cost	\$250,000
3.	Programming costs		100,000
2.	Software costs (including purchase of IRS)	ng	.70,000
1.	Hardware and systems	costs	\$ 80,000

After completion of the development phase, operational expenses should average out at \$45,000 per year. This figure is based on the following estimated usage:

- 1. Terminal hours per year: 4500
- 2: Hardware costs (@ \$6.00 per hour) \$ 27,000
- 3. Software costs (@ \$4.00 per hour) . 18,000

Total cost per year \$ 45,000



Costs would be spread over a 2.5-year period. If ISO is able to provide the necessary terminals, DBPH could use its remaining hardware funds to offer online access to the Multistate Centers. If DBPH paid for all procurements, the network would not have on-line access until the third year.

5.4.3 Commercial Contractor Facility

The third alternative is a service bureau.

Advantages:

- 1. DBPH could maintain fiscal control and, in view of competitive pressures in today's market, guarantee contract compliance.
- 2. Since the contractor would develop and operate the system; DBPH would not have to hire additional personnel directly.
- 3. Depending on the vendor, DBPH might be able to tap outside experience gained in developing other MARC-based systems. In fact, preprogrammed packages that would meet some DBPH needs may already be fully developed.

Disadvantages:

- Development and computer costs will be higher here than with other alternatives, which could mean that some elements of the 3-year plan might have to be postponed or abandoned.
- 2. Most of the programs already written for DBPH could not be transferred; thus, considerable time and additional funds would have to be spent to produce an operational system. In fact, the delays might push project deadlines beyond the allotted 3-year period.
- 3. The high rate of on-line terminal usage charges could make the costs of operating this system prohibitive.

Illustration's

Informics, Inc. is now collaborating under this type of contractual relationship with the National Oceanic and Atmospheric Administration, the Boston Public Library, and other libraries.

To operate this system, DBPH would need access to a computer system. DBPH would have an option to lease or purchase the software for use on internal hardware. If DBPH decides to use the contractor's computer facility, it would have to acquire a dial-up ASCII or a 2741-type terminal. By placing a local call, DBPH could interact with the contractor's hardware (time-shared PDP-10



V-13

5.4.3 continued

computer) and software. Commercial prices per terminal hour range from \$25.00 to \$40.00, depending on the Central Processing Unit (CPU) and on-line storage requirements. An additional \$11.00 per hour communications charge might also be applied if a long distance computer telecommunications system, such as Tymshare, Inc., is needed for access to a remotely located computer.

This alternative should require more calendar years and programming time to develop than the others. While some applicable software could be modified, emphasis should be piaced on contracting for programmers with library-related experience. An estimated 3-person years would be needed to develop this system using experienced contractors. Contract personnel charges are estimated at \$50,000, based on a salary of \$25,000 and overhead of \$25,000 per year. Use of a computer system for 4,000 terminal hours for development and file-building will cost \$25.00 per hour.

Estimated costs are:

1.	Hardware and systems		\$100,000
2.	Software (no estimate given, as personnel o would reflect software used)	osts	-0-
3.	Personnel	*	150,000
	•	Total cost	\$250,000

Operation of this system would be expensive due to the file-building needs of DBPH. The charges for accessing a MARC file commercially are:

For a normal MARC record transaction	\$1.25 per title for a set of cards and a holding record on magnetic tape.
Output for a MARC record (First time through the system)	.50 per title for output on micro- fiche only, no duplicates
Output for a MARC record (Second and subsequent times through the system)	.10 per title for output on micro- fiche

An average of 4,000 additional terminal hours per year would be required to adapt the system to DBPH requirements. The cost of a system with an average growth rate of 17,000 titles per year would be:



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 1. Searching MARC at \$1.25 per title
 \$21,250

 2. 1,700 terminal hours per year
 42,500

 3. Terminal leases
 10,000

 Total cost
 \$73,750

5.4.4 DBPH Computer Facility

A minicomputer system located at DBPH may be considered as another possible alternative.

Advantages:

- 1. DBPH would have 'total in-house control of the project, including personnel, equipment, etc.
- 2. Available software packages could be used and/or modified to meet DBPH requirements, or new software could be developed with comparative ease, taking an acceptable similar system as a model.
- 3. Peripherals and additional core memory can be added as needed.
- 4. The hardware could be leased initially with an option to buy.
- 5. An in-house system would free DBPH from dependence on a shared processor like the one at ISO.
- 6. Maintenance costs would be lower than with other alternatives.

Disadvantages:

- 1. Development, hardware, software, and personnel costs would be high. This fact, and the necessity of rewriting all software, would probably add a year to development of a suitable operational system. In addition some tasks on the 3-year plan would have to be deferred or eliminated.
- 2. It would be necessary either to contract for program and operations support or to create new positions at DBPH.
- 3. Although equipment could be leased, it could rapidly become obsolete as DBPH requirements evolve. This problem could become critical:



5.4.4 continued

changes could easily affect the configuration, and reprogramming would be necessary.

Illustration:

Software costs will be very expensive since all programming efforts will have to be contracted out. No support for a minicomputer system exists in ISO, and none of the previous software developed by ISO is transferable. Current costs for contracting programmers able to work on a minicomputer system average \$50,000 per person-year. This assumes a salary of \$25,000, and overhead of \$25,000. A 4-person-year effort should be necessary to develop the appropriate software.

Estimated costs are:

1.	Hardware and systems		\$127,800
2.	Software		25,000
3.	Personnel		200,000
	•	Total cost	\$352,800

Some savings might be realized with this alternative if software can be obtained from some operational library system. To date several systems are being developed but little is known about their operational characteristics. Some of these systems may be beneficial to DBPH after their programming is complete and debugged. Consequently the above estimates might be dramatically scaled down.

Current DBPH personnel could be used to operate the system, thus saving considerable operating expenses. However, a stand-alone minicomputer system requires an extensive maintenance procedure to reduce the chances of possible hardware failure. The cost for such a program is slightly less than 10 percent of its purchase price (\$12,000 per year) for the proposed computer system. Another ongoing expense would be program support to correct errors or to add system improvements. For this system a mid-level programmer could be contracted for a short period at \$3,000 per month from a minicomputer manufacturer such as the Digital Equipment Corporation. The operational expenses for this system would be:

1.	Hardware	maintenance	•	\$12,000

2.	Programming support (2 person-months)		. 6,000
		Total cost per year	\$18,000

5.5 RECOMMENDED APPROACH AND JUSTIFICATION

Table V-D summarizes the development time, hardware and saftware casts, and tatal operational cast for each alternative. It is recommended that DBPH select ISO to develop their bibliographic system, for the fallowing reasons:

- a) ISO aperates a system that meets many af the division's requirements; thus, a development effort at ISO would require enhancement and modification rather than campletely new programming.
- b) ISO is cognizant af DBPH operations, plans, and bibliagraphic requirements. This knowledge should save one calendar year in implementation time.
- c). ISO has extensive experience in text processing and in using a MARC farmatted data base.
- d) DBPH would prafit directly from any ISO development in other LC operating units.
- e) DBPH can use the CDS Videocomp to produce camera-ready masters.

 ISO is familiar with and has produced autput for this machine.
- f) Costs far development, implementation, and aperation at ISO should be less than with any ather alternatives.
- g) System design and implementation specified in the 3-year plan can be completed an schedule.

However, ISO cannot be chosen as the acceptable alternative until certain disadvantages are remedied. To facilitate this, it is recommended that the Library of Congress administration, through ISO:

- a) provide DBPH with a written cammitment to develop, implement, and aperate the DBPH system within the time constraints specified; and
- b) physically lacate any ISO staff assigned to the project at DBPH in arder to insure continuity and close interaction with the appropriate DBPH staff.

5.6 SYSTEM REQUIREMENTS

The DBPH bibliagraphic cantral system is a transaction-based infarmation storage and retrieval system. The information invalved should include everything pertaining to



v-1827

P

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TABLE V-D

SUMMARY OF ALTERNATIVES AND COST

5.6 continued

title selection, conversion, and availability. The primary products of the system will be a Union Catalog, including titles produced for the blind and physically handicapped and an In-process file containing information on titles not yet completed. The "Jnion Catalog should contain records of all DBPH mass and limited production titles, network titles, and affiliated agency titles. The location of each title will be indicated in order to facilitate optimum utilization of resources. Further enhancement of this system may also be achieved through use of the operational Braille Computer System.

The required DBPH system should have, at a minimum, the following features and capabilities:

- a) Adherence to production and maintenance requirements of the Union Catalog to permit production of the entire catalog and supplements on schedule or on demand.
- b) Space for 10,000 tracks of IBM-type discs, or their equivalent.
- c) Display and hard-copy terminal access with a response time of 5 seconds or less, available during a normal 8-hour work day.
- d) A modular system permitting use of each module as it becomes operational and allowing additions or enhancements at a later date.
- e) Access control capability to prevent unauthorized access to the system data files.
- f) A system in two operational modes: tutorial, for new or inexperienced users, and abbreviated, for experienced users, including MARC worksheet-like display panels with text-editing features for entering bibliographic data.
- g) A user facility with total processing capability, including immediate update and corrected record call-back triggered by a single command or a series of commands when all necessary parameters are given.
- h) Capability to produce a complete title profile, including all relevant past and current information, triggered by a single command. Access to functional information, such as book-title status should also be gained through a single command.
- Capability to queue requests for production off-line. This feature is designed to process management reports with a view to adjusting



5.6 continued

production to user needs. To minimize unnecessary delays, this capability should be as free of human integvention as possible.

Figure V-1 gives a composite view of all functions defined so far under each subsystem. They can be carried out using the ISO computer facility (IBM 370) controlled by the CICS/OS operating system. Appendix E lists, by function, the specific elements that are to be entered or retrieved. Additional data elements and system features may be defined as implementation progresses.

5.7 IMPLEMENTATION PLAN

A detailed system design should be completed early in fiscal year 1976. It should delineate various system operations as they relate to bibliographic functions and should include file designs sufficiently complete to support transmission of a minimum of information under each function. In preparing this design, consideration should be given to existing capabilities so as to minimize software development without sacrificing system integrity.

In designing the system, the following steps should be followed:

Task A - Define functions, including man-machine interactions

Task B - Control functions

- 1) Define type of transactions
- 2) Establish data elements required to carry functions
- 3) Develop hierarchy of functions
- 4) Consider existing capabilities for incorporation

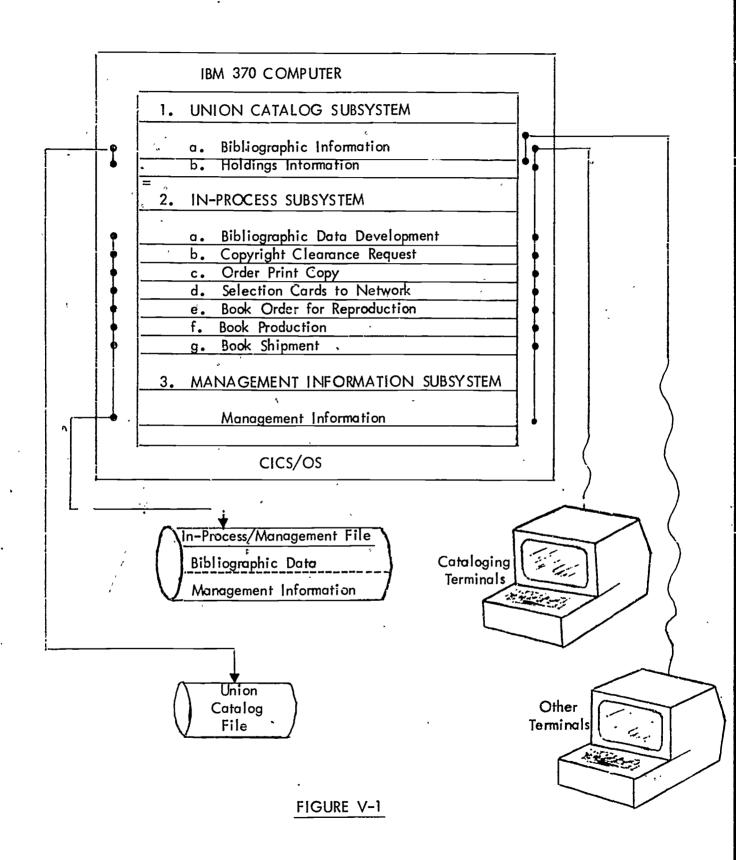
Task C - Define products

- 1) Determine products of each function
- 2) Define required management information
- 3) Define system products

Task D - Define system requirements

- 1) Determine volume of transactions
- 2) Define storage space requirements
- 3) Design special forms
- 4) Determine operating constraints







5.7 continued

The Union Catalog and associated production activities have been defined and discussed in this report. Consequently, specific milestones, associated tasks, and target dates can be established. They are as follows:

Milestone

Target Date

1. Upgrade and convert titles cataloged since.
July 1974 (2,000).

December 1975

- a. Complete conversion worksheets.
- b. Award conversion contract.
- c. Edit record.
- d. Merge with mass produced titles.
- 2. Produce working document in hardcopy with full bibliographic information for 12,000 mass produced titles.

December 1975

- a. Complete-conversion worksheets.
- b. Award conversion contract.
- c. Edit records.
- d. Create print master.
- e. Produce and distribute print copy.
- f. Establish machine readable authority files.
- Produce working document in hardcopy with full bibliographic information for 25,000 limited production titles.

July 1976

- a. Complete conversion worksheets.
- b. Award conversion contract.
- c. Edit records.
- d. Create print record.
- e. Produce and distribute print copy.
- f. Merge with mass produced titles.
- 4. Implementation of the in-process subsystem.
 - a. Analyze existing capabilities in terms of DBPH requirements (hardware and software).
 - b. Prepare requests for proposal, if required.
 - c. Develop, test, and debug modified software.

August 1976

5.7 continued

Milestone

- Target Date
- d. Install hardware and related equipment.
- e. Test reports and other outputs.
- f. Establish DBPH internal procedures.
- g. Train DBPH personnel.
- h. Documentation.
- 5. Collect holdings information for mass and limited production titles and titles unique to the network libraries.

July 1975 -

- a. Develop reporting procedures and forms.
- b. Collect and edit holdings information.
- c. Convert holdings information.
- d. Merge bibliographic and holdings information.
- e. Create print master.
- f. Produce and distribute print copy.
- g. Add holdings of affiliated agencies.
- h. Develop reporting procedures and forms, if required.
- i. Convert to internal processing format.

APPENDIX A

PROCEDURAL FLOWS FOR PRESENT DBPH OPERATION

The following pages contain detailed work flow diagrams for DBPH functions. The study of these flows permits a determination of applications to be automated. The relevant areas as far as this system study is concerned are the library functions (precataloging, cataloging, and post cataloging). Work flows have been created for all of these areas having identifiable procedures. Functions 11, 15, 16, 17, 18, 19 and 22 do not lend themselves to being flowed. They either use information gathered in the performance of other functions or have no impact on this study.

A-1





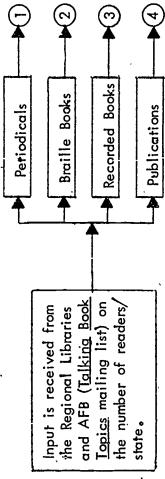
FORMS

Surveys,

Semiannual surveys are conducted during the spring and about the first of the

Sarveys

PROCEDURES



Quota is 2-6 readers/copy

| ____ and usually 1 copy/deposit collection.

BOOKS

FIGURE A:-1

QUOTA DETERMINATION -1

ERIC Full Taxt Provided by ERIC

FORMS

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Surveys

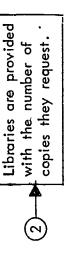
PROCEDURES

Quota for a new magazine .

is based on the number of readers, cost of production, and total number of copies which can be made available.

A-3

4.35



General Category | = Slow Moving Titles General Category II = Average Circulation General Category III = Popular

Cost constraints determine the number of copies/title to be done in each category.

BOOKS

FIGURE A-1 (cont'd)

QUOTA DETERMINATION - II

FORMS

Surveys

AFB figures = the number of copies of Talking Book Topics distributed.

1 1 1 1 1 1

about the first of March.

Surveys are circulated.

Surveys

PROCEDURES

The same procedure is

applied to the Subir

regional libraries.

Number of reported readers is divided by the number of copies/
title in each category.

The AFB figures for readers are used.

136

Number of readers/copy is divided into the number readers/state. Number of readers/state = the larger of the AFB or Regional Library figures unless Regional figures. In this case the AFB figures are used.

For the standard cateagories (mysteries, romances, etc.) the Regional and Subregional Libraries receive the number of copies they request.

New Subregionals re-

National Collections

for the first year.

ceive material from

BOOKS

FIGURE A-1 (cont'd)

ĜUOTA ĜETERMINATION - III

Surveys

Surveys are conducted annually and just prior to publication.

PROCEDURES

Surveys are utilized to help determine the number of new readers and the number of copies needed for public relations purposes.

BOOKS

FIGURE A-1 (cont'd)

QUOTE DETERMINATION - 1V

FORMS

Was

- . Book lists
- . Catalogs
- . Reviews of new books

Reviews of new books

Book lists Catalogs Bibliographic tools

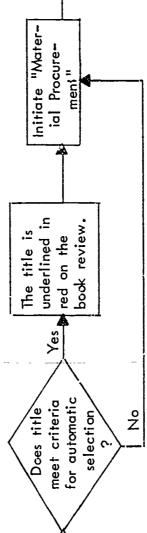
. Bibliographic tools

Cop, Jht Request Form

The form is generated from the automated system and is inserted and transferred in one of the review copies to the Selection Section.

PROCEDURES

Librarian scans book reviews and initials those titles to be ordered for review, indicating the number to be ordered.



Receive the material for

review.

BOOKS

138

The print review copies are placed on a review shelf in the Selection Section.

FIGURE A-2

SELECTION - 1

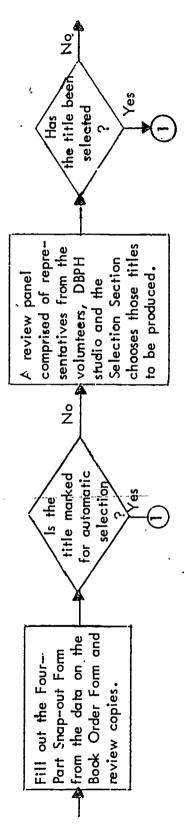
ERIC Full Text Provided by ERIC

Four-Part Snap-Out

Data Elements:
Author, Title, Imprint,
Subject, and DBPH Production
Control Number

The form is placed in one of the review copies.

PROCEDURES



1.39

BOOKS

Books are pulled fram, and then returned to, the review shelf to obtain information for the Four-Part Snap-Out Form.

Books are pulled from the review shelf for review.

FIGURE A-2 (cont'd)

SELECTION - 11

cancellation. It replaces all with reasons for and date of Filed in the in-process file Four-Part Snap-Out (white) other records for the title.

Administration Section with Copyright Clearance Form Submitted to the Business reasons for and date of cancellation.

operator that the title Selection Section and notifies the terminal Copyright Clearance has been rejected. Received from the Form

is updated with the medium mendations from the librar-Pulled from the in-process and studio for production, and some subject informaians, and then reinserted file, checked for recominto the in-process file. The Four-Part Snap-Out Book Order Forms

Four-Part Snap-Out

head of the Selection Forwarded to the Section。

PROCEDURES

A record is maintained of each rejected title.

automated system Update the

Out is reviewed and The Four-Part Snapappropriateness of format distribution quota, and and assigned a studio, Titles are checked for media of production.

separated.

BOOKS

The review copies are Administration Section sent to the Business

book dealers if possible. are returned to the The review copies

Books are forwarded Selection Section. to the head of the

> FIGURE A-2 (cont'd) SELECTION -

FORMS

Four-Part Snap-Out Copyright Clearance Form This is sent with the pink copy of the Four-Part Snap Out Form. -PROCEDURE

date the quota statistics Yellow is used to upand then inserted into White is inserted into Blue is filed into the cataloging in-process Pink initiates "Copythe in-process file. right Clearance". the review copy. file.

A-9

1.71

BOOKS

Books to annotation area (initial description) FIGURE A-2 (cont'd) SELECTION -

The previous workflow charts depict the backbone operations of the "Selection" process. It does not, however, cover those cases where the process is initiated by a request from a patron or network library, the receipt of unsolicited material, submission of braille material by APH, and collection development.

At times, material requested of DBPH via Interlibrary Loan, cannot be located. In these cases book reviews are consulted. If the title is to be considered for the collection, print review copies are ordered and the "Selection" process continues. The person or organization from which the request originares is notified of the acceptance or rejection of the title. This same procedure is followed in the case of unsolicited material, but one less review copy is required.

APH is required under Federal Law (Sec. 105, Chapter 6, Title 20 of the U.S. Code) to deposit at DBPH, one copy of each title it produces. These braille books are reviewed and if considered appropriate, are added to the collection.

Periodically the staff of the Selection Section reviews the contents of the DBPH collection. When specific areas (e.g., mysteries, westerns, fairy tales, etc.) are considered deficient in the number of titles, a developmental effort is made to emphasize the selection of books in these areas.

FIGURE A-2 (cont'd)

SELECTION - V

4.72

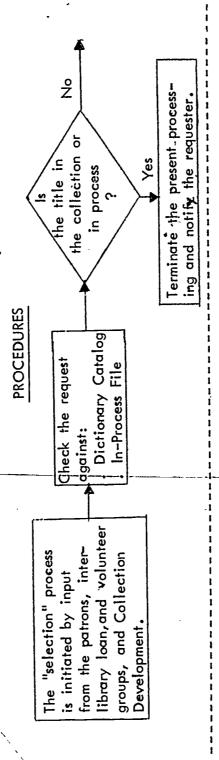


ERIC

FORMS

Letter
From Patron
Interlibrary Loan Form
From Network Library
Intention Card
From Volunteer Group

Letter
To the patrons
Interlibrary Loan Form
To the Network Library
Letter
To the Volunteer Group



BOOKS

FIGURE A-3

SELECTION (MUSIC) - I

143

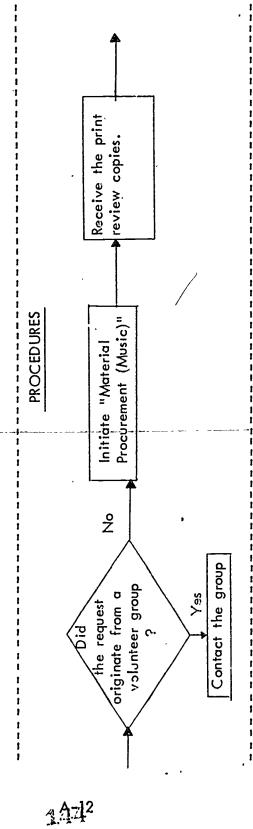
FORMS

Letter

To the volunteer group notifying it that the title is not in the collection.

Мето

To the Business Administration Section.



BOOKS

Review copies are received by the Music Section.

FIGURE A-3 (cont'd)

SĘLECTION (MUSIC) –

ERIC Full Boxt Provided by ERIC

FORMS

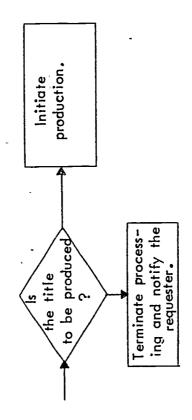
Letter

To the Patron

Interlibrary Loan Form

To the Network Library

PROCEDURES



BOOKS

FIGURE A-3 (cont'd)

SELECTION (MUSIC) - III

i

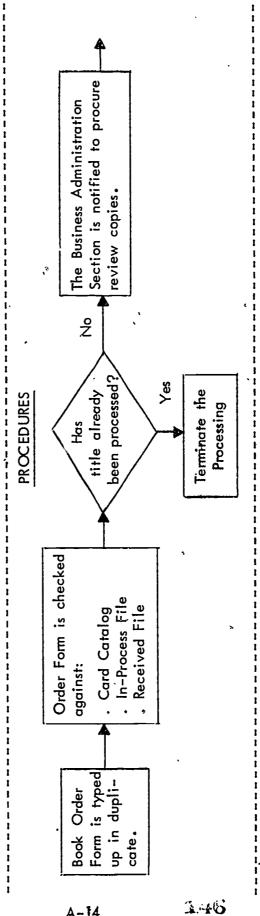
Book Order Form (LC73-40(Rev 2/73))

Data Elements:

Book is to be Ordered, and Special Instructions. Recammendation, Number of Pages, Number of Title, Author, Publisher, Date of Publication, LC Number, Source of Review, Originator of Copies Required, Cost, Dealer From Whom

Book Order Form

- The original is sent to the Business Administration Section.
 - The copy is filed in the in-process file in the Selection Section.



BOOKS

MATERIAL PROCUREMENT FIGURE A-4

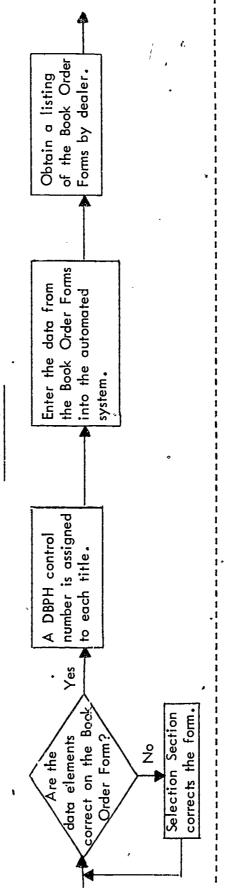
B

A-14

Book Order Form (original) the automated system. The data from this create a record in form is used to Book ,Order Form (original)? and a contral numbatched by dealer ber is assigned to The forms are each title. by the Business Adminreceived and checked The original copy is Book Order Form istration Section.

Listing
Printout of Book
Order Forms from
the autamated system.

PROCEDURES



A-15

147

BOOKS

Ų

FIGURE A-4 (cont'd)

MATERIAL PROCUREMENT - II

and forward it to the Selection Section for Stamp the order date on the original copy inclusion in the in-Book Order Form process file. Standard Form Letter (For the blanket To dealer To dealer Listing order)

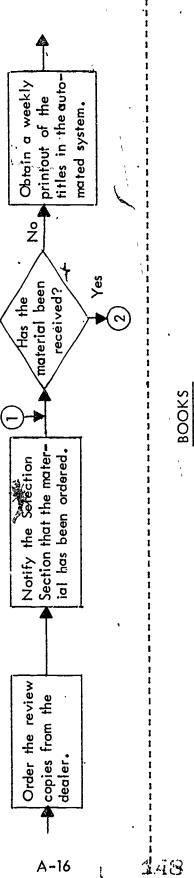
Author, Dealer, Date of Order, and

Status Code.

Contains: Title,

Weekly Printout

PROCEDURES



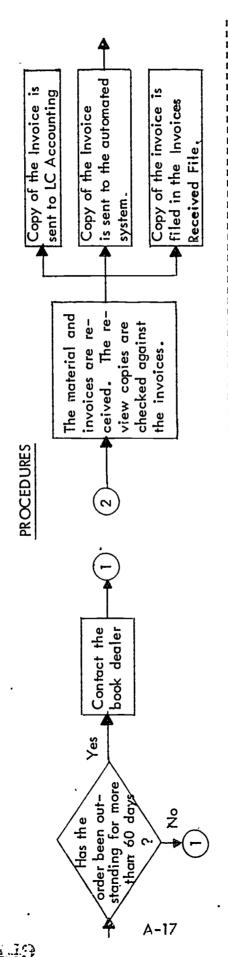
MATERIAL PROCUREMENT FIGURE A-4 (cont'd)



Standard invoice from the dyaler.

Invoice

- . To LC Accounting . To the Terminal
- . To the Invoices Received File.



BOOKS

The review copies are received by the Field Services Section which forwards them to the Business Administration Section.

Review copies are sent to the termination operator.

FIGURE A-4 (cont'd)

MATERIAL PROCUREMENT - IV

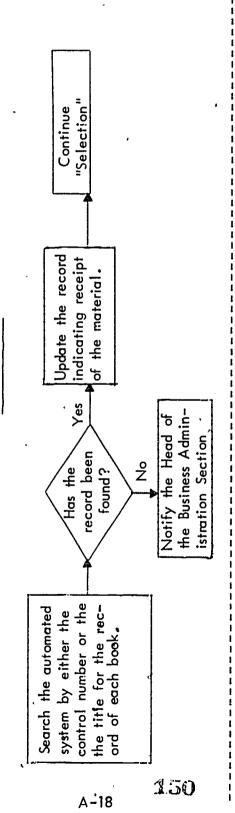
Book Order Form

Ø

Both copies are stamped with the date received.

- . The original is placed in the Received File.
- . The copy is placed in one of the review copies.

PROCEDURES



BOOKS

The print review copies are forwarded to the Selection Section.

FIGURE A-4 (contid)

MATERIAL PROCUREMENT" - V

ERIC Full faxt Provided by ERIC

The Music Section either submits a memo to the Business Administration Section to initiate the standard

"Material Procurement" process or purchases the print review copies from book stores directly.

FIGURE A-4 (cont'd)

MATERIAL PROCUREMENT (MUSIC)

Copyright Clearance Form (73-102 (Rev 8/74))

The form is generated cothe time the print review copies are received by the Business Administration Section and inserted into one of them.

Doto Elements: Title, DBPH Control #, Author, Publisher, Publicotion Dote, Edition, Copyright Stotement, ond Name of Copyright Holder.

FORMS

Four Port Snop-Out (pink) and Copyright Clearonce Form (73-102 (Rev 8/74))

Received from the Selection Section. LC128 (white & yellow)
Received from the network librories,

and public and private groups. 3×5 Request Form Received from the Music Section.

) and <u>LC128 (white & yellow)</u> (73-102

The request is checked agoinst the:

Υes

libraries, volunteer groups

request from either network

. Master Copyright

Follow-up file

PROCEDURES

A copyright eleoronce form is generated by the outomoted system for print books ordered by DBPH (Selection Section).

A-20 3.52

The copyright clerk receives notification of the request for copyright clearonce.

BOOKS

The review copies ore transferred from the Business Administration Section to the Selection Section.

FIGURE A-5

COPYRIGHT CLEARANCE - 1

'C128 (white & yellow)

C128 (white & yellow)
To the requester.

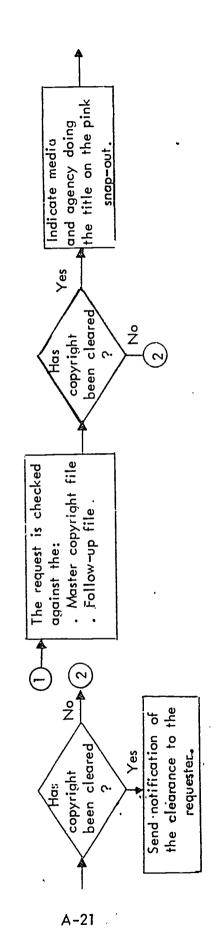
3 x 5 Request To Music Section.

Four-Part Snap-out (pink) and

Copyright Request Form

Four-Part Snap-out (pink)

PROCEDURES



151

BOOKS

FIGURE A-5 (cont'd)

COPYRIGHT CLEARANCE - 11

ERIC

*Full Text Provided by ERIC

FORMS

Four-Port Snop-Out (pink)

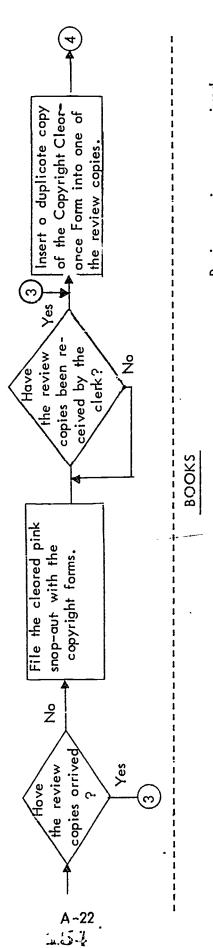
This is filed with the copyright clearonce form in the Master Copyright file

Copyright Cleorance Form (master)

A duplicate copy is inserted into one of the review copies.

Copyright Cleorance Form (unused) Discarded.

PROCEDURES .



Review copies ore received by the copyright clerk.

FIGURE A-5 (cont'd)

COPYRIGHT CLEARANCE - 111

Copyright Clearence Form (white & blue)

The white and blue portions are sent out to the holder(s) of the copyright. If there is more than one holder, or the request originated outside of DBPH or from the Music Section, extra forms are typed. (LC73-102 (Rev 8/73)).

Cover Letter

Agency Request Letter

Copyright Clearance Form (white & blue)

or the request originated outside of DBPH or from the Music Section, extra forms are typed. (LC73-102(Rev 8/73)).

Copyright Clearance Form (pink)

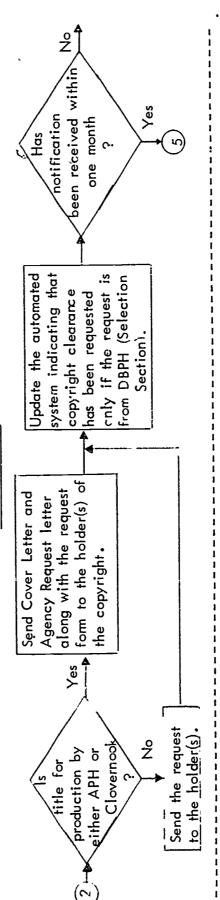
Four-Part Snap-Out (pink)

The form is sent to, and then returned from (filed in the follow-up file) the Business Administration Section, where the automated system is updated.

PROCEDURES

to the master copyright file.

To, the master copyright file.



BOCKS

FIGURE A-5 (cont'd)

COPYRIGHT CLEARANCE -- IV

Follow-up Letter

file are dated and initialed letter notice. The forms in the follow-up with the f

Ø

Copyright Clearance Form

The holder(s) of the copyright return the white portion and retain the blue portion.

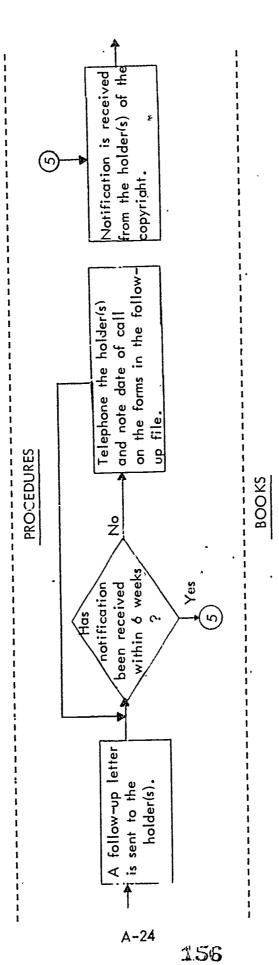


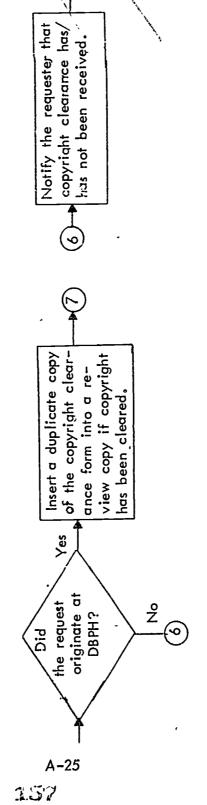
FIGURE A-5 (cont'd)

> | COPYRIGHT CLEARANCE LC 128 (white and yellow)

To the Requester.

 3×5 Request To the Music Section.

PROCEDURES



BOOKS

FIGURE A-5 (cont'd)

COPYRIGHT CLEARANCE - VI

ERIC Full Text Provided by ERIC

Copyright Clearance Form (white)
File in the Master Copyright File,
Copyright Clearance Forn (pink)
File for quarterly list,

FORMS

Four-Fart Snap-Out (pink) Used to update the automated system. Four-Part Snap-Out (yellow)
Use to update the monthly list of titles and file it in the received file.

Bock Order Form (copy)
Discard.

PROCEDURES

Update the monthly list of Ptitles cleared and purge the manual in-process file.

Update the automated system with the information as to whether copyright has/has not been cleared if the request originated at DBPH (Selection Section).

BOOKS

Forward the review copies to Cataloging if the title has not been cancelled.

FIGURE A-5 (cont'd)

COPYRIGHT CLEARANCE - VII

The Music Section seeks permission for "Copyright Clearance" in a variety of ways. Prior to October, 1973, a request to obtain blanket copyright permission for large print books was sent directly to the publisher, from the section. Presently all requests are forwarded to the copyright clearance clerk in the Selection Section for braille, recorded, and large print titles.

Some material is acquired commercially or from volunteer groups.

In these cases, the producer obtains the necessary copyright permission.

FIGURE A-5 (cont'd)

COPYRIGHT CLEARANCE (MUSIC)

Request for Price Quotation (two parts)

Data Elements: Heading (for Studio or Printing House) Distribution Code, Control Number, Author, Title, Publisher, Date of Publication, Special Instructions, and Suggested Related Titles with a Bibliography for Each.

Copyright Request Form (duplicate)

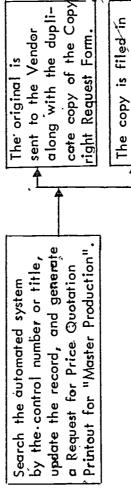
To the Vendor,

Production Control Folder

Data Elements: Control Number, Name of Vendor and Date Forwarded to the Vendor.

Contents: White Portion of the Four-Part Snap-Out Form and the Annotation Form (3×5) .

PROCEDURES



3.60

A-28

A control folder for each title is created.

the Production Control

folder.

BOOKS

The review copies are received by the terminal operator in the Business. Administration Section from Catalogina.

Review copies are forwarded to the Field
Services Section and sent
to the Vendor.

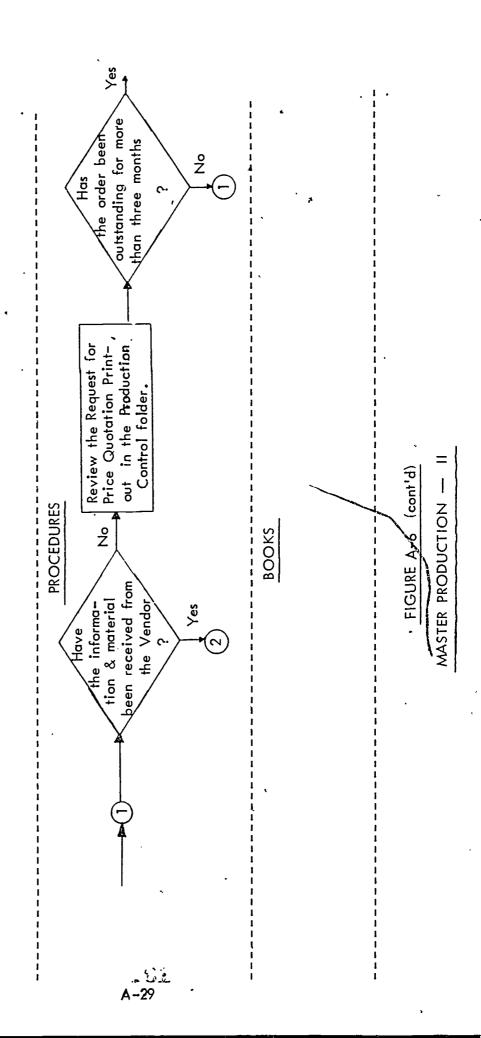
FIGURE A-6

MASTER PRODUCTION - 1

ERIC Full Taxt Provided by ERIC

FORMS

Request for Price Quotation Printouts



From the Vendor

Collation

Number of Volumes, Records

or Cassettes

Name of Narrator (if applicable)

Request for Price Quotation

Discard

PROCEDURES

collation, the number of cassettes, and the name copy of the kook; the of the narrator (if ap-The studio or printing volumes, records, or house returns a print

Contact the Studio

Printing House.

A-30

462

plicable).

Delete the Request for Price Quotation Form from the

Production Control Folder.

BOOKS

Vendor and forwarded to the Bus-A review copy is received by the Field Services Section from the iness Administration Section. FIGURE A-6 (cont'd)

MASTER PRODUCTION - III

Volunteer Production Printout

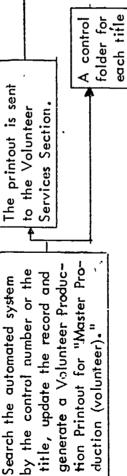
Data Elements: Heading (for Volunteer Services Section), Control Number, Author, Title, Publisher, Date of Publication, Special Instructions, and Suggested Related Titles with a Bibliography for Each.

Production Control Folder

Data Elements: Control Number, "Volunteer Production" Label, and Date forwarded to the Volunteer Services Section."

Contents: Four Rart Snap-Out Form (white), Annotation Form (3 \times 5) and Copyright Clearance Form (duplicate).

PROCEDURES



A-31

163

is created.

Yes

the title to be recorded

BOOKS

The review copies are received from cataloging by the terminal operator in the Business Administration Section.

The review copies are forwarded to the Volunteer Services Section.

FIGURE A-6 (cont'd)

MASTER PRODUCTION (VOLUNTEER) -- I

FCRMS

Authorization Invoice (five-part)

Author, Title, and Name and Address of the Braille Transcriber. Data elements:

3 x 5 Carc (Control Card)

Authorization Invoice Data elements: Name and Address of the Date the Material is sent out, Title and Braille Transcriber, and/or, Organization, Author.

Volunteer Product,ion Printout

was sent out is added and the form braille transcriber, and/or organizais returned to the Business Admintion, and the date the material The name and address of the istration Section,

Volunteer Production Printout

update the automated system. The new data is used to

Production information is returned to the terminal operator. **PROCEDURES** the Volunteer Services 🎝yellow copies are sent The pink, green, and The white and blue copies are filed in og the transcriber. Section. prepared for production. The title'is

-32 S-1

of the braille transcriber, and, or organization, and the date Update the automated system with the name and address the material was sent out

BOOKS

The print review copies are sent to the transcriber. FIGURE A-6 (cont'd)

MASTER PRODUCTION (VOLUNTEER)

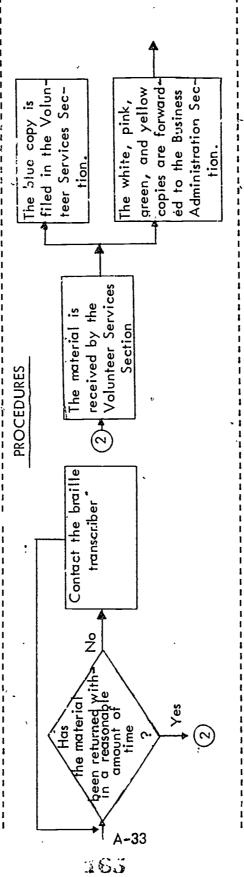
ERIC Full Text Provided by ERIC

FORMS

Letter
To the braille transcriber.

Authorization Invoice

Returned with the number of volumes of braille indicated on it by the transcriber.



BOOKS

One print review copy is returned along with the braille material to the Volunteer Services Section via the Field Services Section.

FIGURE A-6 (cont'd)

Authorization Invoice (five-part)

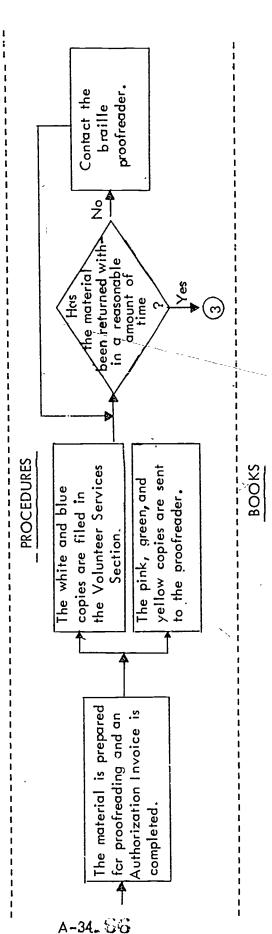
Data elements: Author, Title, and Name and Address of the Proof-reader.

3 x 5 Card (Control Card)
The name and address of the proof reader and/or organization, and the date sent are added to the card.

Authorization Invoice

To Volunter Services Section White and blue copies.

To Proofreader - Pink, green and yellow copies.



and the braille material are sent to the proofreader.

The print review copy

FIGURE A-6 (cont'd)

MASTER PRODUCTION (VOLUNITEER) - IV

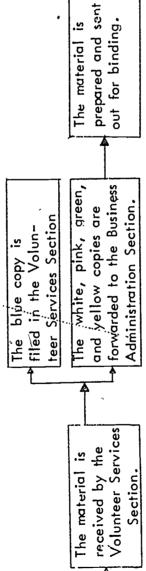
Authorization Invoice

Returned with the number of volumes of braille proofread and the number of corrections indicated by the proofreader.

3 x 5 · Card (Control Card)

The name of the bindery and the date the material was sent is placed on the card.

PROCEDURES



167

BOOKS

One print review copy is returned along with the braille material to the Volunteer Services Section via the Field Services Section.

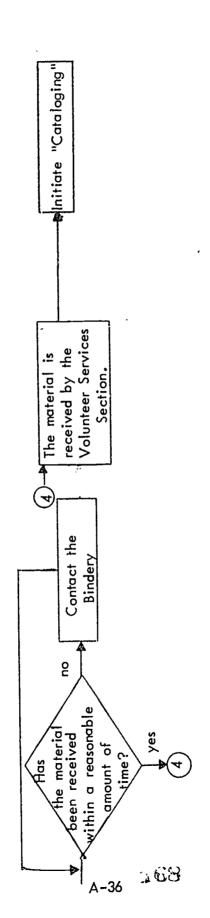
FIGURE A-6 (cont'd)

MASTER PRODUCTION (VOLUNTEER) - V

Letter

·To the Bindery

PROCEDURES



BOOKS

The review copy and the bound braille volumes are returned to the Volunteer Services Section.

The review copy and the braille material are forwarded to the Business Administration Section.

FIGURE A-6 (cont'd)

MASTER PRODUCTIONS (VOLUNTEER) - VI

ERIC

*Full Text Provided by ERIC

FORMS

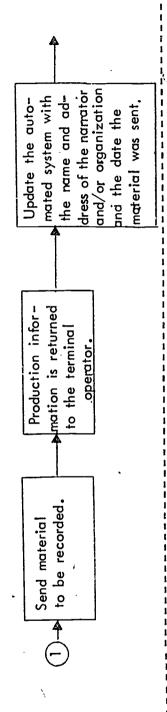
Control Form (two-part)

Data Elements: Title, Author, Control Number, RC/CBA, and Code for Volunteer Group/Individual. File These by both title and organization.

Volunteer Production Printout

Five-name and address of the narrator and/or organization, and the date the material was sent are added and the form is returned to the terminal aperator to update the automated system.

PROCEDURES



A-37 &Y

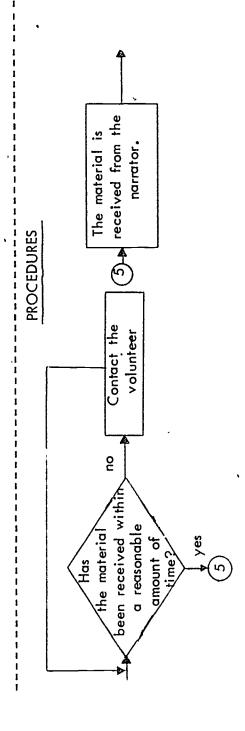
BOOKS

The print review copies are sent to a volunteer group/individual, via the Tape Productian Unit. FIGURE A-6 (cont'd)

MASTER PRODUCTION (VOLUNTEER) - VII

Control Form

Both copies are pulled. The or.ginal is placed in an in-process file. The copy is discarded.



BOOKS

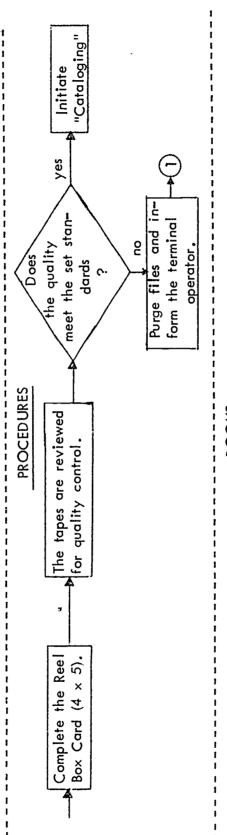
The print copies and the recorded material are returned to the Volunteer Services Section via the Field Services Section.

FIGURE A-6 (cont'd)

MASTER PRODUCTION (VOLUNTEER) - VIII

Reel Box Card (4 x 5)

Data elements: Title, Author, Control number, RC/CBA, Date Book Sent to Group/Individual, Code of Group/Name of Individual, Narrator, Monitor, Reviewer, and Number of Reels.



BOOKS

The material is forwarded to the Business Administration Section.

FIGURE A-6 (cont'd)

MASTER PRODUCTION (VOLUNTEER) - IX

Ø

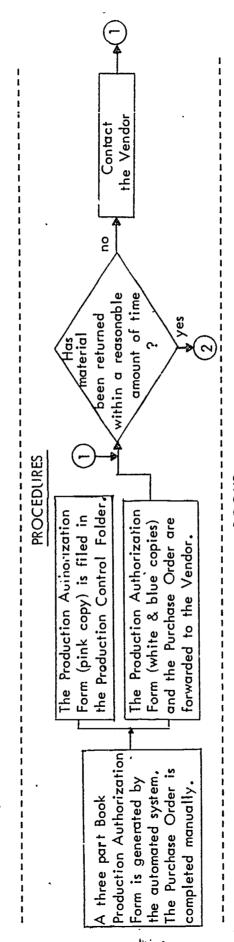
Book Production Authorization Form (three part)

Data Elements: Biblioaraphic Data, Number of Copies, Total Cost, and

Purchase Order Number.

Purchase Order

Standard Purchase Order



BOOKS

FIGURE A-7

MASS PRODUCTION - 1

ERIC

FORMS

Form (Pink) Invoice are received from the Vendor. An original and two copies Invoice

Production Authorization

From the Production Control Folder,

PROCEDURES

amined for accuracy and the control copy is ex-Authorization Form and The Invoice is checked against the Production completeness.

material) is received

from the studio or

printing house.

control copy of the The invoice and a

title (purchased

173

Contact the studio Printing House 2 (3) yes satisfactory the quality of the material

BOOKS

A control copy of the purchased material is received by Business Administration Section via the Field Services Section.

examined for quality The agntrol copy is control. FIGURE A-7. (cont'd)

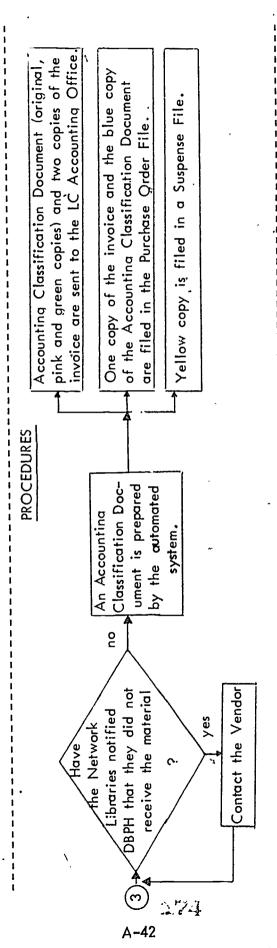
MASS PRODUCTION -

ERIC Full Text Provided by ERIC

FORMS

Accounting Classification Document (five-part)

Data Elements: Purchase Order Number, Amount Paid, and Name of Vendor.



BOOKS

FIGURE A-7 (cont'd)

MASS PRODUCTION - III

Memo

To the Business Administration Section from the Music Section.

To contractor (original)
To suspense file (copy)
in the Music Section.

Purchase Order

ation Shipping Notice or Section. Completion Card

To the Music Section

Shipping Notice

To Business Administration Section

PROCEDURES

A memo is sent to the
Business Administration
Section and the material is forwarded to the contractor.

Notification is the manufactorecived of the production.

complete no Notify the manufacturer

pdate files

"Cataloging"

and

Initiate

BOOKS

Print book to contractor

Manufactured Material to the Music Section via the Field Services Section.

FIGURE A-7. (cont'd)

MASS PRODUCTION, (MUSIC)

A-43

Four Part Snap-Out (White)

Located in the print review

copy

 5×7 Annotation Sheet

 5×7 Annotation Sheet Edit and add the oneliner.

Four Part Snap-Out (Blue)

Located in the cataloging in-process file

Four Part Snap-'Out (White),

Copyright Clearance Form (duplicate) and

5 x 7 Annotation Sheet Located in the print review books.

P ROCEDURES

Write the annotation consulting the review copy and white snap-out form.

A-44 2.75

Review and edit the annotation and write the one-liner.

Check for the presence of all forms and control numbers, and date the blue snap-out.

BOOKS

Review copies are received in Cataloging.

the Selection Section.

Review copies are in

FIGURE A-8

CATALOGING - 1

 5×7 Annotation Sheet

Used to create the annotation record.

Completion Natice

Data elements; Narrator (if applicable) and Collation.

Four Part Snap-Out (white) and Completion Notice

To Cataloging.

PROCEDURES

Enter the annotation into the automated system.

Assign a DBPH book number and request a MARC record from the automated system.

Search for an Se

BOOKS

Review copies are received by the Business Administration Section and sent out for "Master Production."

One review copy; is received by the Business Administration Section from "Master Production."

The review copy is received by Cataloging.

FIGURE A-8 (corttd)

CATALOGING - II

Manuseript Card

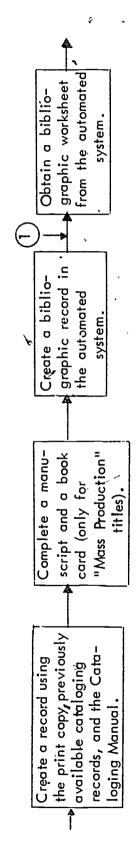
Data Elements: Author, Title, Imprint, Studio, DBPH Production Control #, DBPH Book #, and Annotation, Subject Headings, Added Entries, One Liner on the back,

Bibliographic Worksheet

Contains all bibliographic tags required by DBPH.

Book Card Data Elements: Author, Title, Annotation, Media, and Dewey Number.

PROCEDURES



BOO'KS

Cataloging if not already Print review copy to there.

> (cont'd) FIGURE A-8

CATALOGING - III

Bioliographic Worksheet

This is edited and then sent to the Business Administration Section to update the automated system.

PROCEDURES

Edit the worksheet using the print copy and the Cataloging Manual, and update the automated system.

Create a manuscript and a book card (for "Mass Production" titles only) if not already done.

A-47

179

Initiate "Card Generation"

BOOKS

FIGURE A-8 (cont'd)

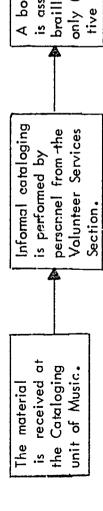
CATALOGING - IV

Þ

Preparation of Cards . Overprinting

Card To catalog

PROCEDURES



A book number is assigned to completed.

braille material only (consecutive order).

Notify Circulation

BOOKS

Material to shelf,

The print books are forwarded to the Cataloging Unit of Music.

FIGURE A-8 (cont'd)

CATALOGING (MUSIC)

180

ERIC Full Text Provided by ERIC

FOR MS

List of Control Numbers

This is submitted to the LC system operator for o botch run.

Catolog Cards

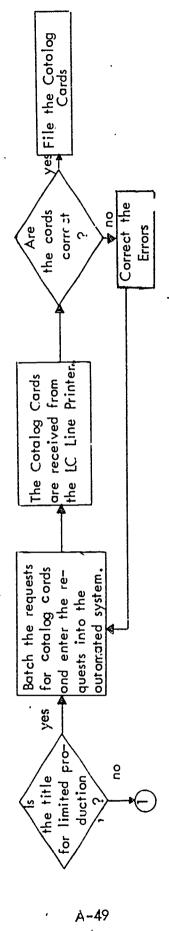
These ore printed on the LC Line Printer ond forwarded to Cataloging via the Field Services Section.

Cotolog Cards

Fijed in the Dictionary Cotolog.

P R OCEDURES

7 8 A



BOOKS

FIGURE A-9

CARD GENERATION - 1

ERIC ACHIEVE PROVIDED BY ERIC

FORMS

Monuscript Cords

Manuscript Cards

To DBPH

To GPO

Yo LC Cord Pivision

Monuscript Cords

To DBPH Proofs

PROCEDURES

the originol monuproofs and returns them olong with GPO prints the script cords. number and sends the verifies the control The Cord Division

cords to GPO.

in batch form from

A -50

script cards/week

receives 50 manu-

LC Cord Division

DBPH verifies proofs copies of the monuagoinst the original script cards.

the proofs correct

Edit the proofs

384

FIGURE A-9 (cont'd)

CARD GENERATION - II

FORMS Catalog Cards

Cards are filed in the Dictionary Catalog and put into Card Stock.

Catalog Carás

Cards are sent to LC Card Division and then but to the Network Libraries.

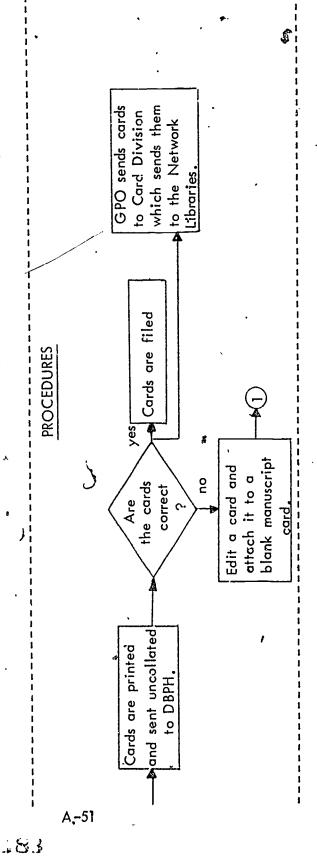


FIGURE A-9 (cont'd)

CARD GENERATION - III

Moterial Dist	DBPH receive	the volume o to each Net
Quotas	Refer to Figure 111-5.	Mailing Lists

In and Out Files Records Card Catalogs ribution Summary es information con work Library by of material sent

PROCEDURES

lists (for Regional and Subregional Libraries) Quotas and mailing are supplied to the studios and printing houses.

A-52

assigned number of reading and Subregional Libraries. materials to the Regional The studios and printing houses distribute the

circulate the material to the patrons. Regional and Subregional libraries

materia! via mail/ Readers receive

walk-in from either the Re-

gionals or Sub-

regionals.

BOOKS

Braille	Disc	Cassette	Open Reel
•	•	•	•

. Braille Disc Cassette Open Reel

Open Reel

Disc Cassette

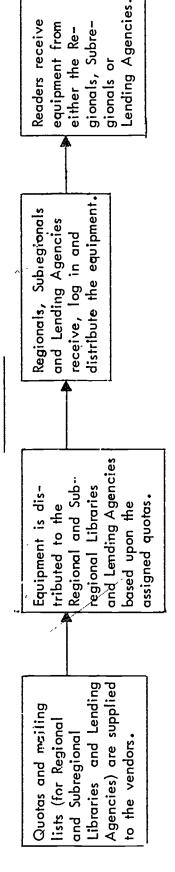
Braille

FIGURE A-10

DISTRIBUTION (READING MATERIAL)

on Recorded Data	. Serial Number	•	•		y model Address of Reader
Equipment Distribution	Summary	DBPH receives information	on the volume of equipment	sentito-each Network Library	or Leading Agency by model.
Quetas	Developed from surveys.	AA.: 1:	Maining Lisis		

PROCEDURE



A-53

BOOKS

. Talking Book Machines	. Cassette Players	. Accessories
. Talking Book Machines	. Cassette Players	 Accessories
Talking Book Machines	Cassette Players	Accessories

FIGURE A-10 (cont'd)

DISTRIBUTION (EQUIPMENT)

"Publication Activities" entails all procedures related to the development and production of DBPH material to be published. This function includes the writing, gathering, and/or editorial review of material for public information, book selection tools, and reference publications (directories, pamphlets, efc.). Also included is the development and finalization of DBPH periodicals (Talking Book Topics, Braille Book Review, etc.) and catalogs.

Ù

FIGURE A-1/1
PUBLICATION ACTIVITIES

ERIC Full float Provided by ERIC

This function contains procedures which coordinate the shelf list with the actual material on the shelf. Inventories of books lost, in bad repair, or otherwise off the shelf are performed, and the results serve as input to the "Selection" process. Gaps on the shelves and in the card catalog are also investigated.

F

FIGURE A-12 COLLECTION MAINTENANCE

This function involves the preparation of lists of titles concerning specific subjects available in special media for the blind and physically handicapped. An example is "Cookbooks: Braille and Recorded Media" (April, 1974). Within DBPH, the following sections currently perform this task: Special Services (short bibliographies on very specific subjects in special media), Selection (medium length bibliographies on special areas, to aid in collection development), Cataloging (extensive bibliographies such as a listing of all the "Western's" within the collection), and Reference (general purpose bibliographies on a wide range of subjects, not necessarily in any special media). The Selection Section is also responsible for the preparation of bibliographies for Talking Book

FIGURE A-13 PREPARATION OF BIBLIOGRAPHIES



DBPH has minimal contact with the readers it serves; most circulation is doen by the Regional and Subregional Libraries.

Currently, only the Music Section (refer to the following workflow) and the Special Services Section (See Figure III-19) are responsible for direct circulation to the patrons of DBPH.



FIGURE A-14
CIRCULATION

A-57

389



Letter

To DBPH

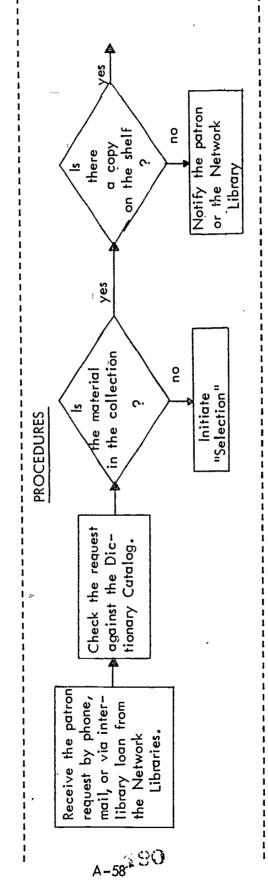
Interlibrary Loan Form

Letter

To the patron

Interlibrary Loan Form

To the Network Library.



BOOKS

FIGURE A-14 (cont'd)

MUSIC CIRCULATION - 1

Patron Card

Update and file.

it to the Network Library. arrecord of it and return Interlibrary Loan Form Complete the form, file

PROCEDURES

Form and send the material Update the Patron Card to the requestor.

A ~59

Receive the circulated material.

BOOKS

patron or the network library. The material is sent to the

The material is received via the Field Services Section, and shelved. FIGURE A-14 (cont'd)

MUSIC CIRCULATION

LC73-135 (12/73)

LC73-135 (12/73) (white & yellow)

Data Elements: Date Received; Name and Address of Library; Send to Library/Patron; Author, Title, or Subject; Media; Comments and Authorization; and Patrons Address (if applicable)

LC73-121b (Rev 12/73) (six-part)

Data Elements: Name of Library, DBPH' Book Number, Media, Date Initiated Date Material Sent, Reserve Status, and Name and Address of Recipient.

TWX and Telephone Request Form Transferred to LC73-121b., if a "numbered" request.

A-60

192

yes his a title request separate them by zine and foreign whether the resubject, maga-"rushes", and Date, count, title, author, language. determine quests are PROCEDURES 2 this a DBPH " numbered " yes request loan request is An Interlibrary received.

FIGURE A-15

INTERLIBRARY LOAN -

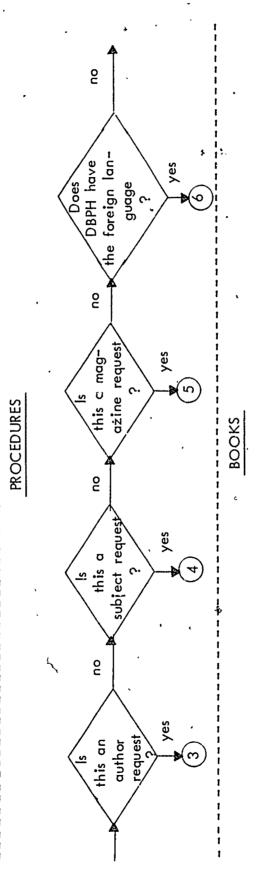


FIGURE A-15 (cont'd)

. INTERLIBRARY LOAN - II

LC73-135 (12/73)

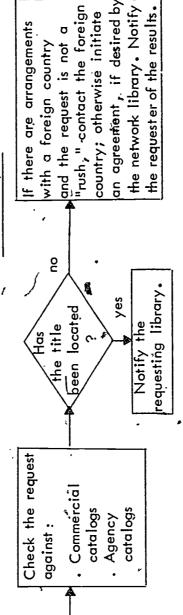
Send the yellow part (b) to the requesting library. File the white part (a), by month.

Letter . To the foreign country.

Letter

To the requester.

PROCEDURES



Title is received from a foreign .country.

BOOKS

The material is received via the Field Services Section from the foreign country

FIGURE A-15 (cont'd)

INTERLIBRARY LOAN - III

LC73-121b (Rev 12/73)

- Complete this form using LC73-135
- Discard parts a,b,d, and e. Attach part f to the material.
- Send part c to the requesting Library;

_C73-135 (12/73)

Attach part b to part c of .C73-121b (if applicable).

PROCEDURES

not a permanent loan. The material is returned to DBPH if send the material. requester and Notify the

country if not a perturned to the loaning The material is re∸ manent loan.

BOOKS

via the Field Services Section. The material is received forwarded to the requesting The material is library.

the Foreign Country via the Field Services Section The material is sent to

FIGURE A-15 (cont'd)

INTERLIBRARY LOAN - IV

A-63

ERIC

FORMS

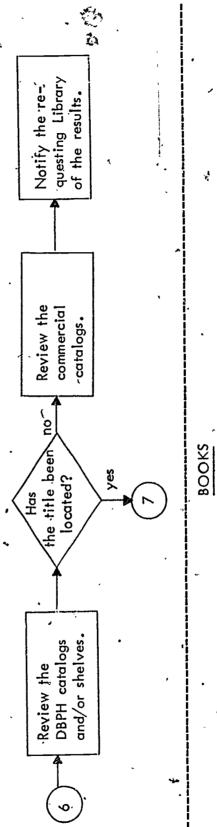
LC73-135 (12/73)

- · Date copies of the form.
- . File the white copy (a)by month.
- Send the yellow (b) copy to the requesting Library.

PROCEDURÉS

A-64

196



INTERLIBRARY LOAN - V FIGURE A-15 (cont'd)

LC73-135 (12/73)

- Date both copies of the form...
 File the white copy (a) by
 - month.
- . Send the yellow copy (b) to the requesting Library.

the titles: been located within Sort the requests by author and, if appropriate, search: Dictionary Catalog, Catalog-Selection Section, Copyright File, APH Central Catalog, RFB Catalog, Other Ageney ing In-Process File, Union Catalogs, and Commercial Catalog, 33 1/3 Catalog, Sources.

questing library of the results of the search. Notify the re-

DBPH?

Have

PROCEDURES

BOOKS

FIGURE A-15 (cont'd)

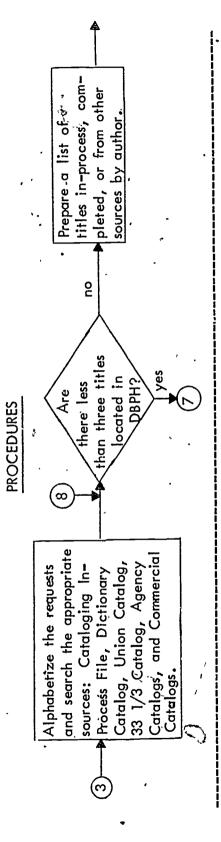
INTERLIBRARY LOAN - VI

ERIC FULL TEXT Provided by ERIC

FORMS

TITLE LIST

Data elements: Title
Author, Book or Order
Number, Publisher,
and Date of Publication.



BOOKS

FIGURE A-15 (cont'd) -

INTERLIBRARY LOAN - VII

TITLE LIST

LC73-135 (12/73)

LC73-135 (12/73)

To the requesting library LC73–135 (12/73)

- The white copy (a) is filled.
- The yellow copy (b)
 is attached to the Title list.

PROCEDURES

the Dictionary Catalog date received, search and find appropriate Sort the requests by and other sources, titles and authors.

Nòtify the

requesting Library.

author, and search the Union Catalog and Sort the requests, by the Cataloging In-Process file.

BOOKS

FIGURE A-15 (cont'd)

INTERLIBRARY LOAN - VIII

A-67 499

ERIC Full Text Provided by ERIC

FORMS

LC73-135 (12/73)

- The white copy (a) is filed, by month.
- The yellow copy (b) is sent to the requesting library.
- LC73-121b (Rev 12/73)
- Complete and discard parts a & b.

LC73-135 (12/73)

- File the white copy (a), by month.
- . File the yellow copy (b) in a pending file.

PROCEDURES

Alphabetime the requests by title and search the Reference Circulars and the Union List of Periodicals.

Notify the requesting library of the results.

For author, title, subject, magazine, and foreign language requests, complete LC73-121b and discard parts a & b.

BOOKS

FIGURE A-15 (cont'd)

INTERLIBRARY LOAN - IX

.

LC73-121b (Rev 12/73)

LC73-121b (Rev 12/73)

LC73-121b (Rev 12/173)⁴ Attach to the form letter.

Form Letter Send to the requesting library.

Sort the forms, **PROCEDURES** Media. Initial the Interlibrary Loan form with the Unit Code.

incomplete yes forms?

there any

Are

the request to the requesting to a form letter and send Date and staple the form library.

BOOKS

FIGURE A-15 (cont'd)

INTERLIBRARY LOAN - X

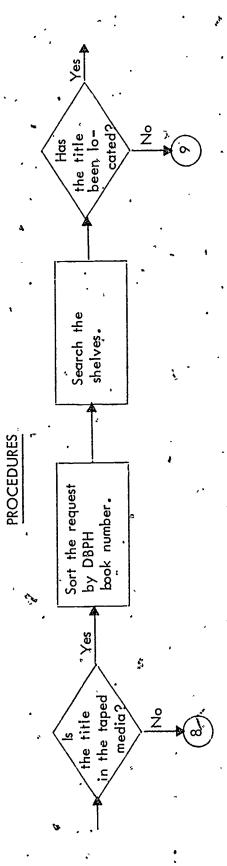
2139

ERIC Full Text Provided by ERIC

FORMS

LC73-12.1b (Rev 12/73)-

Forward the request to the warehouse.



A-70 202 BOOKS

FIGURE A-15 (cont'd)

INTERLIBRARY LOAN - XI

ERIC Full Text Provided by ERIC

FORMS

LC73-121b (Rev 12/73)

LC73-121b (Rev 12/73)

Record the date sent on all parts.

the tape material.

Forward the remaining biscard part Drants to the Library.

Service Section.

Service Section.

. Send to the Library Service Section.
Indicate reserve date on all parts.

Attach an address label to the material and send it to the requesting library.

Notify the requesting library that the material has been sent

of LC73-121b (if applicable

A-71

203

. Attach part B. to part C

<u>C73-135 (12/73)</u>

this title

be placed on

the reserve

list

no

(10)

BOOKS

Forward the tape material to the requesting library.

FIGURE A-15 (cont'd)

INTERLIBRARY LOAN-XII

LC73-121b (Rev.12/73) LC73-121b (Rev 12/73) Leave parts D,E, and F in the tape reserve file. LC73-121b (Rev 12/73) and F in the tape File parts D, E, Send part C to the library.

and place parts D,E, and F in the duplica-Order the requests by "Rush" or "Routine" tion box.

LC73-121b (Rev 12/73)

Stamp the duplica tion' date on dil parts.

LC73-135 (12/73)

reserve file.

Attach part B to part C of LČ73–121b (if applicable).

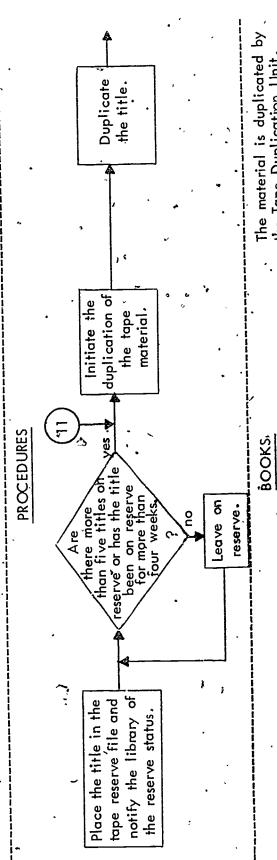


FIGURE : A-15 (cont'd)

the Tape Duplication Unit

INTERLIBRARY LOAN - XIII

LC73-121b (Rev 12/73)

LC73-121b (Rev 12/73).

- Attach part F to the duplicated material. EC73-121b (Rev 12/73)
- Send part D to the requesting library.
- Mark the date in the taping in process field.
- File part E, by month.

Return parts D and E to the library Services

Chit.

Send part C to the requesting library.

Attach part B to part C of LC73-121b (if applicable).

PROCEDURES

library that the material Notify the requesting has been sent out.

> Forward the duplicated material.

Notify the requesting library that the material will be duplicated and sent out.

BOOKS

to the library, vis the Field Send the duplicated material Services Section. FIGURE A-15 (contid)

INTERLIBRARY LOAN - XIV

ERIC

Full Text Provided by ERIC

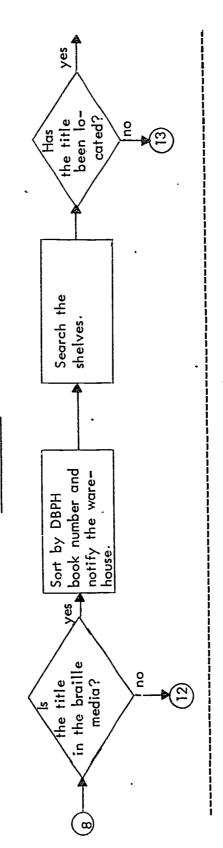
White

FORMS

LC73-121b (Rev 12/73)

Send to the warehouse.

PROCEDURES



BOOKS

FIGURE A-15 (cont'd)

INTERLIBRARY LOAN - XV

206

!

LC73-121b (Rev 12/73)

- Date all parts.
- Material.

 Address Cards

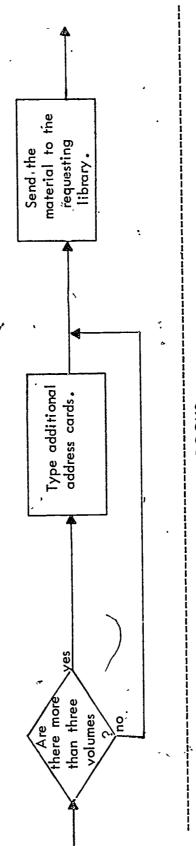
 Attach to the material

 (if applicable).

PROCEDURES

A-75

217



BOOKS

Forward the material to the requesting library via the Field Services Section.

FIGURE A-15 (cont'd)

INTERLIBRARY LOAN - XVI

ERIC Full Taxt Provided by ERIC

Send part C to the requesting library. Attach part B to part C of LC–121b (if applicable). File part E by month. LC73-121b (Rev 12/73) Discard part D. LC73-135 (12/73) Type up the card and file it in the "out" "BRA" Control Card **PROCEDURES** FORMS LC73-121b (Rev 12/73) parts to the Library (Services Section, Forward the remaining

Notify the requesting library that the material has been sent. "out" record for the title. BOOKS Create an the title a "BRA"

Ç

FIGURE A-15_(cont'd)

INTERLIBRARY LOAN - XVII

ERIC Full Text Provided by ERIC

Ą

LC73-121b (Rev 12/73)

parts to the Library Forward remaining Services Section.

LC73-121b (Rev 12/73)

Date all remaining parts

- Send part C to the requesting library.
- Discard parts D,E, and F.

LC73-121b (Rev 12/73)

Date all remaining

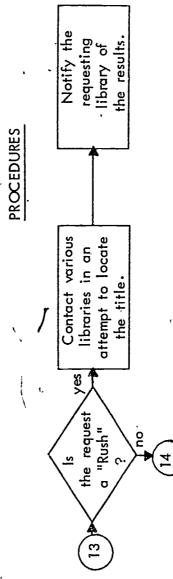
File parts D, E, and F in the Braille parts.

reserve file.

LC73-135 (12/73)

Attach part B to part C

of LC73-121b (if applicable).



Place the title in the Braille reserve file.

BOOKS

FIGURE A-15 (cont'd)

INTERLIBRARY LOAN - XVIII

LC73-121b (Rev 12/73)

Send part C to the requesting library.

LC73-135 (12/73)

Attach part B to part C of LC73-121b (if applicable).

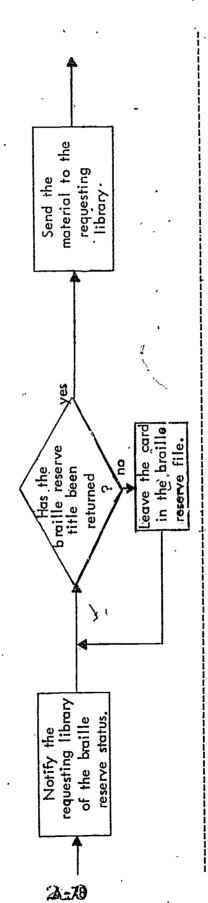
LC73-121b (Rev 12/73)

- . Date all parts.
- . Attach part F to the material.

Address Cards

Attach to the material (if applicable).

PROCEDURES



BOOKS

Forward the material to the requesting library via the Field Services Section.

FIGURE , A-15 (cont'd)

INTERLIBRARY LOAN - XIX

ERIC Arull tost Provided by ERIC

FORMS

"PRA" Control Card

LC73-121b (Rev 12/73)

Forward the remaining parts to the Library Services Section.

品盆建

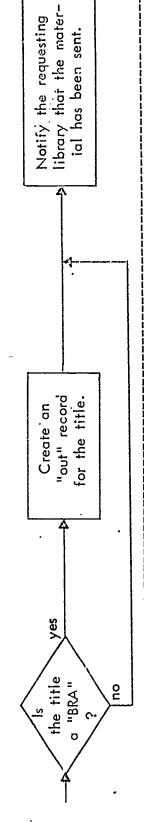
Type up the card and file it in the "out"

LC73-121b (Rev 12/73)

Send part D to the requesting in library.

File part E, by month.

PROCEDURES



воокѕ

FIGURE A-15 (cont'd)

<

INTERLIBRARY LOAN - XX

3x5 Control Card

Label the Card:
• EXCESS STOCK

(Permanent loan)

REGULAR STOCK

(Temporary loan)

PROCEDURES

Sort the TB, TBA,

33 1/3, magazine,
and foreign language
requests, by media
and DBPH book
number. Sort the manent or temporary loan.

212

A-80

Examine the shelves for the titles.

the title yes been lo-

BOOKS

FIGURE A-15 (cont'd)

INTERLIBRARY LOAN - XXI

ERIC AFUIT EAST PROVIDED BY ERIC

LC73-121b (Rev 12/73) File parts D, E, and F in the reserve Date all copies. LC73-121b (Reiv 12/73) . Date all copies. File parts D, E, and F. File part E, by month. LC73-121b (Rev 12/73) Send part C to the requesting library. Discard part D. LC73-121b (Rev 12/73) Date all remaining Attach part F to the material. parts.

part C of LC73-121b Send part C to the requesting Library. Attach part B to LC73-135 (12/73) (if applicable) Attach part B to part C of LC73–121b · Send part C to the requesting Library. LC73-135 (12/73) (if applicable).

in the Reserve List requesting library Place the title and notify the requesting library of the status Check with other Network ibraries and notify the "rush"? the request yes Notify the requesting, **PROCEDURES** material has been library that the Send the material to the requesting library.

Forward the material to the requesting library via the Field Services Section

FIGURE A-15 (cont'd)

BOOKS,

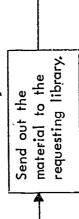
INTERLIBRARY LOAN - XXII

2/13

LC73-121b (Rev 12/73)

- Date all remaining parts.
- LC73-121b, (Rev 12/73)
- · 'Send part D to the requesting library.
- · File part E, by month.

PROCEDURES



requested material been re-

Notify the requesting library that the material has been sent.

BOOKS

Forward the material to the requesting library via the Field Services Section.

FIGURE A-15 (cont'd)

INTERLIBRARY LOAN - XXIII

Leave the title in the reserve list.

LC73-121b (Rev 12/73) or	Form Letter	LC73-121b (Rev 12/73)	LC73-,121b (Rev 12/73) LC73-121b (Rev 12/73)
Receive part b.	To the requester.	The green copy is	File the CANCEL
LC73-135 (12/73)	•	attached to the CANCEL notice.	notice and the green
Receive the yellow	L=		file, by month.
copy (b).		•	•

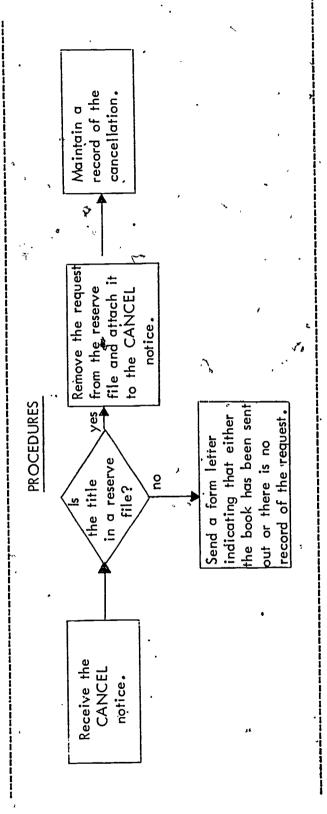


FIGURE A-15 (cont'd)

BOOKS

INTERLIBRARY LOAN (CANCELLATION)

ERIC Full Text Provided by ERIC

DBPH annually performs a two-phase survey operation to better utilize its material and resources. The regional libraries initially report those titles of which there are a large number of copies on hand. DBPH allocates some of these to its National Collection. The regional libraries are surveyed a second time to determine whether extra copies of available titles are required. Based upon these surveys, a redistribution effort is initiated and coordinated by DBPH, for the network, libraries.

In addition to the above effort, DBPH also disseminates a list of book numbers to the network libraries, requesting excess copies of the specified titles, as needed for the National Collection.

FIGURE A-15 (cont'd)

INTERLIBRARY LOAN (EXCESS MATERIAL DISTRIBUTION)



The "Special Services" function concerns the unique situations and requests of the readers served by the network. Currently handled by the Special Services Unit of the Division, this function has three areas of involvement: braille circulation, special requests, and service to U.S. citizens living in foreign countries. Braille books are circulated to the District of Columbia and three states whose Regional Libraries are presently not providing braille service. Hand copied braille is circulated to all states and to U.S. citizens in foreign countries. The workflow of the final area follows this summary.

Special requests are received from readers: for example, to locate volunteer groups for braille transcribing and to find material that DBPH does not presently have in its National Collection.

FIGURE A-16
SPECIAL SERVICES



FÖRMS

Iransfer Form and

Transfer Form

Reader Folder

To the patron. Contact Letter

> To Special Services or Network Library

Letter

To Special Services or Network Library

To Special Services or Network Library

PROCEDURES

A reader motifies either his intention to move. Special Services (returning to States) of (leaving States) or á Network Library

-86 218

Services recalls the equipfills out a Transfer Form. Network Library/Special ment and materials and

distributed, and cirwritten, equipment Contact letter is culation begun.

> Services sends Transfer Form and Reader Folder to Spe-

cial Services/Network

Network Library/Special

BOOKS AND EQUIPMENT

Talking Book Topics Braille Book Review

Recorded Books Braille Books

Recorded Books Braiile Books

Talking Book Machine

Cassette Player Accessories

Periodicals

Cassette Player

Accessories

Talking Book Machine

FIGURE A-16 (cont'd)

SPECIAL SERVICES (FOREIGN COUNTRIES).

This function involves the development of standards and guidelines for the growth and maintenance of the library network for the blind and physically handicapped. Aspects of this include determining location for new libraries, establishing and maintaining library policy, and developing new services to be performed by the network.

FIGURE A-17
NETWORK COORDINATION



This function involves the coordination of the various volunteer groups affiliated with the Division. This includes organizing narrators, monitors, reviewers, braillists, and proofreaders, and choosing suitable narrators for particular titles.

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FIGURE A-18
VOLUNTEER MOBILIZATION

'Reference" entails the development of the Division's collection of print materials concerning all aspects of blindness and physical handicaps, and the maintenance of the Division archives. The Reference Section is responsible for providing reference services to the DBPH staff, to the DBPH library network and, on a national basis, to the general public, including students, professionals, researchers, and organizations.

Statistics and other program information are collected and disseminated for use by DBPH staff and network participants. Reference circulars, bibliographies, accession lists, and other compilations of reference information, are prepared and distributed to interested individuals and to libraries and related organizations.

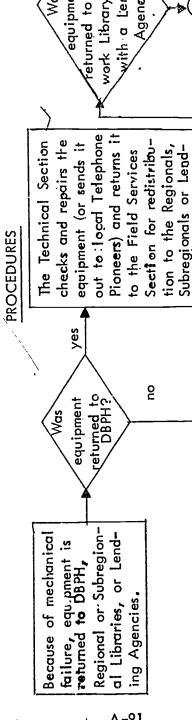
FIGURE A-19
REFERENCE



This function is the creation of exhibits and media releases.

These promotional materials are designed for use by the general public.

FIGURE A-20 PUBLIC INFORMATION PREPARATION



work Library affiliated eturned to a Netvith a Lending 2 Ageney? equipment

EQUIPMENT

ing Agencies.

- Talking Book Machines
 - Cassette Players
 - Accessories

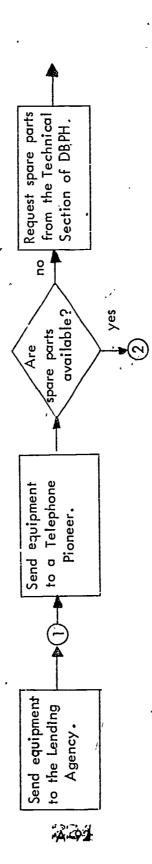
- Talking Book Machines
 - Cassette Players
 - Accessories

FIGURE A-21

EQUIPMENT MAINTENANCE - 1

Reguest Form

PROCEDURES



EQUIPMENT

- Talking Book Machines Cassette Players
 - - Accessories
- Talking Book Machines Cassette Players
- Accessories

FIGURE A-21 (cont'd)

EQUIPMENT MAINTENANCE - 11

PROCEDURES

Telephone Pioneer receives a supply of spare parts.

A-93 2:25

and sent to the Regional or Subreçonal Agency for redistribu-tion to the patrons. Equipment is repaired

GUIPMENT

Spare parts from the Technical Section.

- . Talking Book Machines . Cassette Player . Accessories

FIGURE A-21 (cont'd)

EQUIPMENT MAINTENANCE - III

FORMS

Equipment Distribution Summory

From the manufacturer, DBPH receives information on the volume of equipment sent to each Network Library or Lending Agency, by model.

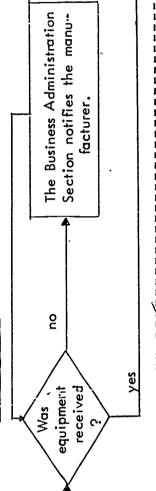
Notice From the Network

This is only sent if the equipment does not arrive.
Invoice From the Manufacturer Shaula be received by DBPH from the Network Libraries; contains a list of serial numbers of equipment received by the Library.

PROCEDURES

Manufacturer submits control information to DBPH when the equipment is sent to the Regional or Subregional: Libraries or Lending Agencies.

A-94 226



EQUIPMENT

. Talking Book Machines . . . Cassette Players

Talking Book Machines

Cassette Players Accessories

Accessories

FIGURE A-22

EQUIPMENT INVENTORY - I

FORMS

Recorded Data

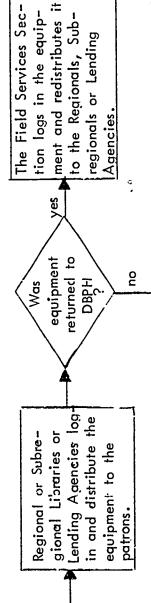
- . Serial Number . Model Number
- Name of Manufacturer
 - Name of Reader
 - Address of Reader

- Recorded Data
- Serial Number Model Number
- Name of Network Library or Lending Agency.

Recorded Data Serial Number

- . Model Number . Name of Reader
- . Address of Reader

PROCEDURES



A-95

Regional or Subregional libraries or Lending Agencies login equipment and redistribute it to the patrons.

EQ UIPMENT

- Talking Book Machines
 - Cassette Players
 - Accessories

- Talking Book Machines
 - Cassette Players
- Accessories

- Talking Book Machines
 - . Cassette Players
- . Accessories

FIGURE A-22 (cont'd)
EQUIPMENT INVENTORY - 11

Ļ

There is a continuous research and development effort by the Technical Section of DBPH. Specifications for the production of the equipment (talking book machines, cassette players, accessories, etc.) used by the patrons, are based on this work. Recently, a study was performed to determine future courses of action within this area (Study of Decision Factors in Planning DBPH Audio Services, QEI Report 4131, 1974). During the production process, a sample of the new equipment is obtained and tested for strict quality control. There is a general concern among the staff to provide new equipment to better serve the reader. Current advances in the State-of-the-Art include 8 1/3 RPM talking book machines, and 15/16 ips and four-track cassette players, which allow more information to be stored per record or cassette. This reduces the number of records and cassettes required for a book without drastically aftering the quality of the material.

/ FIGURE A-23
RESEARCH AND DEVELOPMENT

Equipment Specifications

PROCEDURES

after award of a contract, the manufacturer who, Specifications for new equipment are sent to begins production.

equipment are tested for at different times during quality control by the IDBPH Technical Section Several samples of the the production process.

quality satisfactory

equipment

plete production and begin "Bis-tribution" (Equip-Continue and con ment).

EQUIPMENT

Contact Manufacturer

- Talking Book Machines
 - Cassette Players Accessories

- Talking Book Machines
 - Cassette Players Accessories

- Talking Bock Machines Cassette Players
- Accessories

EQUIPMENT PRODUCTION FIGURE A-24.

APPENDIX B

STRUCTURED INTERVIEW SHEET

Appendix B shows the structured interview sheet used during site visits. The structured interview was designed to ensure that the same data would be collected in all the libraries visited and also, to make certain that all the areas of interest were covered within the time available. Responses were recorded on the sheets as well as on tape recorders.

DIVISION FOR THE BLIND AND PHYSICALLY HANDICAPPED



THE LIBRARY OF CONGRESS

WASHINGTON, D.C. 20542

Dannersk is Done	STRUCTURED INTERVIEW SHEET
Date: Principal Cor Participants: Interviewer:	Location: AREA CODE 202-882-55 Telephone No.
I. ACQUIS	SITIONS
A. Ge	neral ,
1)	What is your acquisition quota for 1974?
	Cassette Reel to Reel Braille Large Type/Print Hard Disc Flexible Disc
2)	From what sources do you receive your books and magazines?
	Books: DBPH in-house Volunteers Outside Volunteers Commercial Other (please specify)
	Periodicals: DBPH In-house Volunteers Outside Volunteers Outside Volunteers Commercial Other (please specify)
3)	What factors do you consider in selecting additional titles for your coilection other than those mass-produced by DBPH?
	Reader Request DBPH Publications Other Catalogs Docal Interest Daps in Existing Collections Other (please specify)
4)	What media do you get from etch source?
	DBPH: Cassette Reel Braille Large Type/Print Hard Disc Flexible Disc
	In-house Volunteers: Cassette Reel to Reel Braille Large Type/Print Hard Disc Flexible Disc
3	Outside Volunteers: Cassette Reel to Reel Braille Large Type/Print Hard Disc Flexible Disc
ì	Commercial: Cassette Reel to Reel Braille Large Type/Print Hard Disc Flexible Disc
,	•



В.	DBP	<u>н</u>
	1)	Do you consistently receive the number of copies from DBPH indicated in their quota?
		Cassette Braille Hard Disc Flexible Disc
	2)	Is there a delay between the time the first copies of a book arrive and the time when the last copies arrive? How long?
	3)	Approximately how many titles a year do you recommend for inclusion in the DBPH collection?
•		a) Who does this?
		☐ Librarian with Academic Degree ☐ Librarian trained in-house ☐ Technician ☐ Clerk
		b) What response do you get from DBPH (forms, acknowledgements, status reports, etc.)?
•		c) What response would you like to get?
	4)	What % of your acquisitions is DBPH-produced material?
c.	ln-	house Volunteers (if applicable)
	1)	What factors do you consider in selecting a title to be produced by your in-house production staff?
	. 2)	Do you have production capability for more than one medium? How do you decide which medium to use?
	3)	Do you keep masters of material produced by your in-house volunteers. If not, where are they kept?
	4)	Do you add all in-house produced material to your circulating collection? If not, what criteria are used to make this decision?
	5)	How do you obtain copyright clearance for in-house productions?
		What form is used? If the item will not circulate, is this indicated on the form?



			What standards do you use in accepting volunteer-produced material in relation to quality and coverage? Quality Coverage
	D.	Outs	side Volunteer Groups (if applicable)
		1)	When do you assign a title to be produced by an cutside group?
		2)	What media are produced?
		•	Cassette Reel to Reel Flexible Disc
			Why is a certain medium chosen?
	•	· 3)	Do you add all materials produced for you by outside groups to your circulating collection? If not, what criteria are used to make this decision?
•		4)	How do you obtain copyright clearance for such a production?
			What forms are used? Does the outside group obtain direct clearance? If an item does not circulate, is this indicated on the form?
,	, 4	5)	
		6)	Do you ever add unsolicited material to your collection?
	E	·	· · · · · · · · · · · · · · · · · · ·
•	Ε.		Po you hay commercially produced material?
•		1)	Do you buy commercially produced material? If so, what media and how many titles:
			Cassette # of titles Reel to Reel # of titles Braille # of titles Large Type/Print # of titles Hard Disc # of titles Flexible Disc # of titles
-		2)	What % of your acquisitions budget goes for this?



F	•	Oth	er					
		1)	Do you receive any If so, please specify		any othe	er source	s?	
Č	€.	Bibl	iographia Control					
		1)	For which of the fol of each title acquire		maintai	n a bíbl	iograph i	c record
		,	DBPH:	Cassette			Reel []	Braille Flexible Disc
		ı	In-house Volunteers:	☐ ८ ssette ☐ Large Type		Reel to Hard Di		Braille Flexible Disc
			<u>Outside Volunteers:</u>	☐ Cassette ☐ Large Type		Reelto	Reel 🔲	Braille Flexible Disc
			Commercial:	Cassette Large Type	/Print		Reel []	
		2)	Who prepares this re	ecord?		•		
			Cassette Reel to Reel Braille Large Type/Print Hard Disc Flexible Disc	Library Library Library Library Library Library		lunteer lunteer lunteer lunteer lunteer lunteer	Agency Agency Agency Agency	Jobber Jobber Jobber Jobber Jobber Jobber
ŀ	Ⅎ.	Con	nments					
		_						
				<u>. </u>		<u>-</u>	-	
					-			
			`			<u>-</u>		
							_	
							* ·	



DIVISION FOR THE BLIND AND PHYSICALLY HANDICAPPED



THE LIBRARY OF CONGRESS

WASHINGTON, D.C. 20342

STRUCTURED INTERVIEW SHEET

Date Princ Parti	e:	nts:	Location: Location: Telephone No.
	. D.D.C	\C.F.C.C	
II.		CESS	
	А.	Gen	
		1)	What standards do you use for cataloging? AACR Other (please specify)
		2)	Is your cataloging done in the regional library, by an organization of which the library is part, or by an outside organization?
		3)	What cataloging capability do you have in-house? Catalogers trained in school No catalogers Catalogers
,		4)	What review or proofreading procedures do you use?
		5)	How are your bibliographic entries stored? Card Catalog Printed (bound) Catalog Magnetic Tape (Is this in MARC format? Other (please specify)
	В.	DBF	PH Material
		1)	Do the catalog cards from DBPH arrive before, after, or with the books?
		2)	Is there any bibliographic information you need that does not appear on these caras? How do you get this information?
			What changes would you recommend for DBPH cards?



c.	Loc	ally Produced Items in your Collection
	1)	Do you catalog the volunteer-produced items in your collection?
D.	Oth	ner Collections
	1)	Do you maintain catalogs of material produced by volunteers for a organization other than your library? (please specify) If so, do you have physical control of this material?
		How?
Ε.	Con	nme nts
		`
		Ф
	/	
•		
		•
		
		•
		•





THE LIBRARY O' CONGRESS

WASHINGTO A.C. 20342

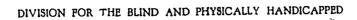
	STRUCTURED INTERVIEW SHEET
Reference Departme Date: Principal Conta Participants: Interviewer:	
III. CIRCULAT	
A. Gene	ral
1) \	Nalk through the circulation procedures used for books and/cr periodicals for each of the following media:
	Cassette Reel to Reel Braille Large Type/Print Hard Disc Flexible Disc
,	A rough chart will be prepared by SAI on site.
B. Reade	er Records
	Do you keep a reader profile?
	Personal Data (Age, Social Security Number, Religion, Race, etc.) (please specify)
	Equipment (please specify) General Interests (please specify) Record of Activity (what has been read, what is being read, specific requests for the future, etc.) (please specify)
2) 1	How do you organize and store this material?
3)	Do you have separate files for each medium used?
4) , !	How do you handle records for problem readers, heavy readers and other special groups?
5)	Do you maintain a separate mailing list? If so, please specify,



c.	Met	hod of Circulation
	1)	What circulation method do you use?
		Turnabout (book in/book out) Calendar (weekly, monthly, etc.) Requests only Combinations of these Other (please specify)
	2)	Do you deviate from your circulation method for special groups? If so, under what circumstances and how?
D.	Req	uests p
,	1),	What types of requests do you receive?
	•	by Author by Subject by Title by Narrator Other (please specify)
		Rank in order of frequency.
E	Spe	cial Situations
	1)	Do you always send reminders to readers to return material after a certain period of time? How long is this period? Under what circumstances? If the title is in heavy demand Upon a specific request for the book Other (please specify)
•	2)	Do you solicit a new list of requests if the reader's present list is getting low?
	3)	What special attention is given to problem readers, heavy readers, etc.?
F.	Res	erves
	1)	Do you keep reserve lists for any of the following media?
		Cassette Reel to Reel Braille Large Type/Print Hard Disc Flexible Disc
	2)	If so, how are these lists kept?
ı		What information appears on them?
	3)	Do you use them to generate inter-library loan requests?



9	G.	[nte	er-library Loan
*7	◡.	•	
	· ·	1)	Cutline your procedure for inter-library loans
		2)	What organizations do you contact?
	•	3)	In whot order?
	i.	4)	Do you ever go outside the network for inter-library loans? How?
	Н.	<u>Co</u>	omments .
! !			
	*	_	•
		. —	,
		_	
		_	
		,	
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¥ 1		_	
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		_	



THE LIBRARY OF CONGRESS WASHINGTON, D.C. 20142

STRUCTURED INTERVIEW SHEET	1291 Taylor Street NW
Reference Department	Area Code 202-882-5500
Date: Location:	
Principal Contact:	
Participants:	
interviewer,	
IV. ABOUT YOUR SUBREGIONALS	
1. Do you have subregionals? How How many readers each?	many?
2. Does any subregional perform any functions for b handicapped readers other than their own?	lind and physically
What reporting do they give you concerning this	
3.\ Does your catalog reflect subregional collections	?Completely?
4. Comments	





THE LIBRARY OF CONGRESS

WASHINGTON, D.C. 20542

REFERENCE DEPARTMENT

STRUCTURED INTERVIEW SHEET

1291 TAYLOR STREET NW. AREA CODE 202-882-5500

Date:	Contact: Telephone No.
Participan	
Interviewe	r:
ν. <u>Q</u> U	ESTIONS FOR SUBREGIONAL REPRESENTATIVES
1.	Is there anything in your collection which is not reflected in the Regional's Catalog? in the Union Catalog?
~2.	Are your circulation procedures different from those presented by the Regional Library? If so, in what way?
3.	What direct interaction does the Regional Library have with your readership?
4	What direct interaction do you have with DBPH?
5.	What information do you report to the Regionals concerning (a) inventory control, (b) bibliographic control, (c) interlibrary loan?
-	
6.	How do you report this data?
7.	Comments
<u> </u>	



241

DIVISION FOR THE BLIND AND PHYSICALLY HANDICAPPED



THE LIBRARY OF CONGRESS

WASHINGTON, D.C. 20542

REPERENCE DEPARTMENT

STRUCTURED INTERVIEW SHEET

1291 TAYLOR STREET NW.
AREA CODE 202-882-5500

Date: Location: Telephone No
Participants: Interviewer:
VI. UNION CATALOG
Do you report the bibliographic information concerning your local collection to the Union Catalog at DBPH? What forms do you use?
2. Are all titles reported? Compared to the state of the sta
3. Do you indicate whether copyright has been cleared?
4. When do you report bibliographic information to the Union Catalog? at point of selectionupon completion of production other (please specify)
5. Do you report something as withdrawn? Do you indicate why (non-return, damage, weeding)? Do you withdraw materials temporarily?
6. What bibliographic information would you like to see in the Union Catalog? I title author subject heading LC number annotation imprint DBPH number content notes collation narrator producing agency reissues Deweyno. I lending policy other (please specify)
7. By whot data elements do you want to organize the Union Catalog?
8. How would you like to access the information in the Union Catalog once it is automated? (media and search keys to be used)
9. Comments



242

DIVISION FOR THE BLIND AND PHYSICALLY HANDICAPPED



THE LIBRARY OF CONGRESS

WASHINGTON, D.C. 20342

STRUCTURED INTERVIEW SHEET

Leference Departmi Date:	Location: 1291 Taylor Street NV Area Code 202-882-55
Principal Cont	T Is have No.
Participants:	
Interviewer:	
·	
VIII LIDDAM	AUTOMATION DESCRIT AND SUTUPE
VII. LIBRARY	AUTOMATION - PRESENT AND FUTURE
	ent System .
. 1)	Are any library functions automated? If yes, please describe:
	(a) applications
	(b) hardware
	(c) software
	(d) telecommunications (TWX, MTST with dial-up capability, etc.)
	(e) data base name and record layout
	(f) Are there records in MARC format? What are they?
	···
	(g) conversion method (keypunch, OCR, etc.)
	(h) data capture method (worksheefs, forms, badges, etc.)
	(i) support: in-house systems staff programmers (in-house)
	other (please specify)
	(i) staff or programmers available from a larger or sister organiza
	tion called: (k) size of budget for automation: staff % equipment %
	(k) size of budget for automation: statt equipment
	(1) specific problems in automation, if any
	· · · · · · · · · · · · · · · · · · ·
	(m) What is your implementation schedule (planned and actual)?
2)	What services can DBPH provide to supplement or replace the present
	in-house system?



B-14

		3)	What types of output do you think should be made available to DBPH?
			How can you provide each type of output? (media, frequency and coverage)
		4)	What type of input do you need from DBPH?
			How do you want to receive the information? (media, frequency and coverage)
	В.	Fut	ure System
		1)	Are there any specific plans far automatian in the future?
			Application Implementation Schedule Budget
		2)	What services can DBPH provide to supplement or replace what is now being planned or considered as a part of the automation program?
		3)	How do you plan to interface with the DBPH automation program?
		4)	How do you plan to acquire the facility needed to support the automation activities?
	c	Con	mments
)	.		
			•
			•



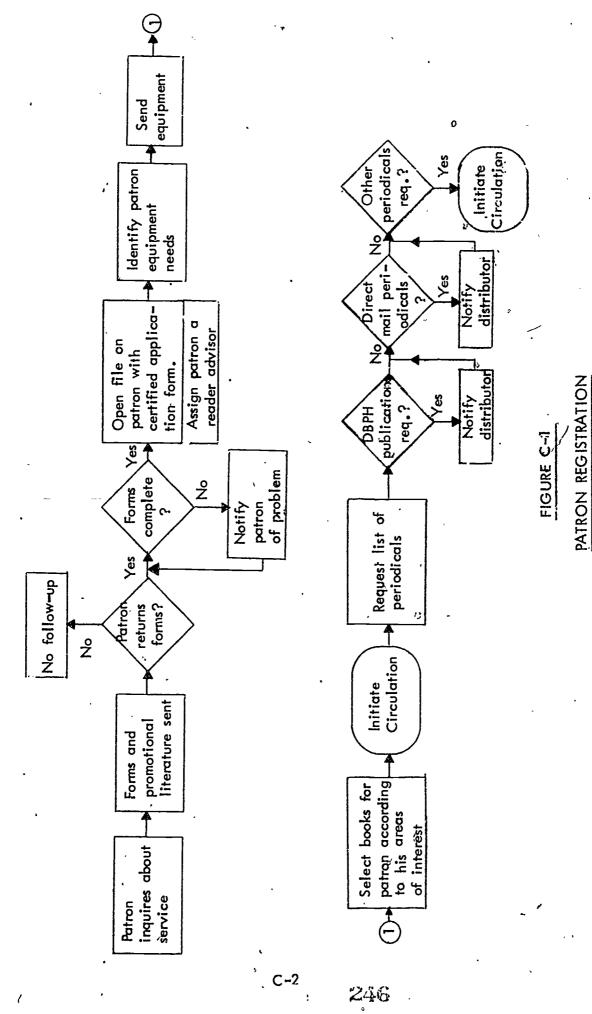
APPENDIX C

NETWORK FUNCTIONAL FLOWS

The following flow charts represent a generalized pattern of activities in a regional library.

They are not to be taken as a model for regional/subregional library development nor do they depict specific procedures for each regional/subregional library. It is expected that each library would differ in detail from the pattern described.





ERIC*

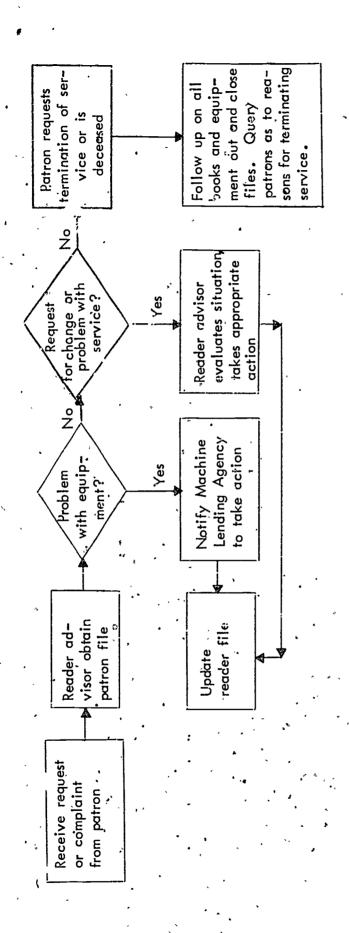


FIGURE C-2

PATRON ASSISTANCE

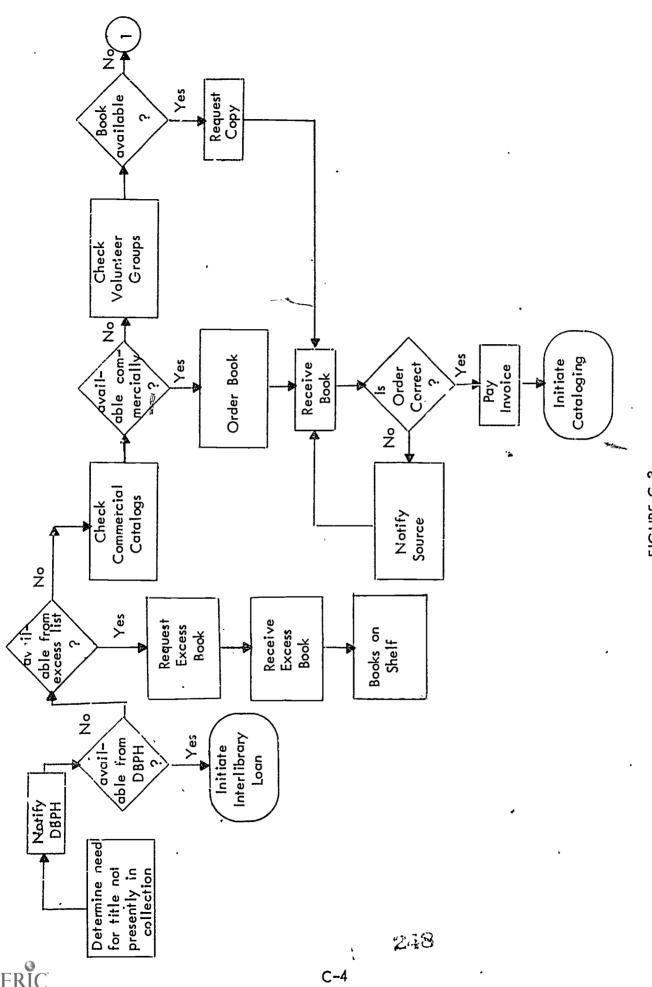


FIGURE C-3

SOLICITED ACQUISITION

ERIC Full Text Provided by ERIC

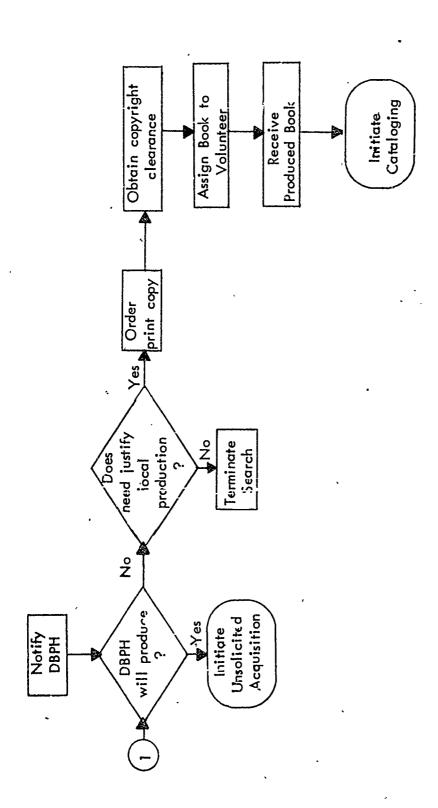


FIGURE C-3 (cont'd)

SOLICITION ACQUISITION

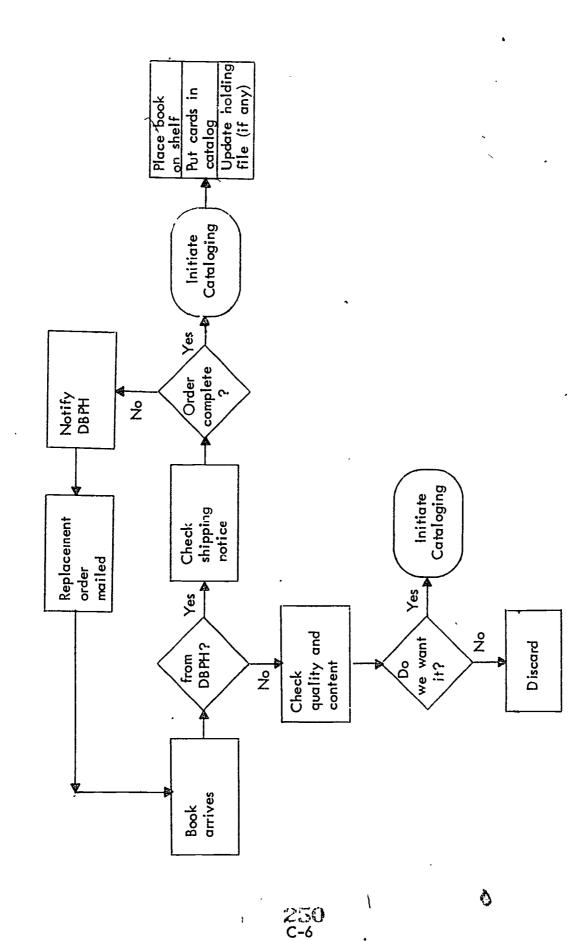


FIGURE C-4
UNSOLICITED ACQUISITION

ERIC Full Text Provided by ERIC

- F

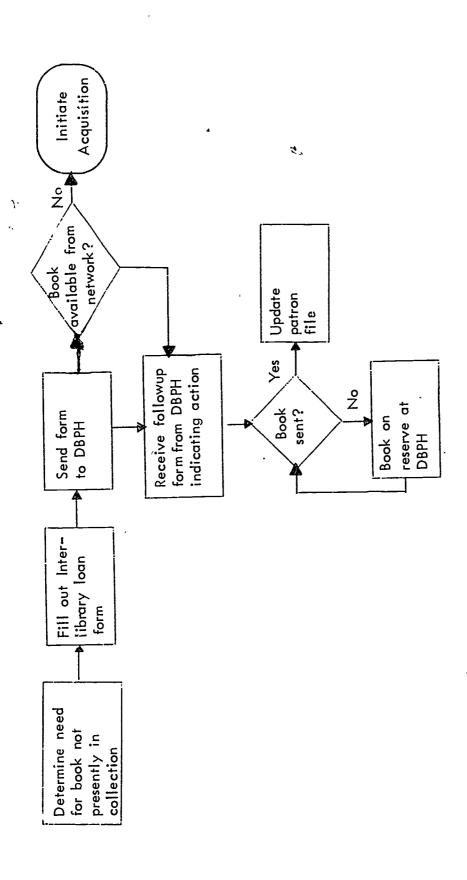


FIGURE C-5 INTERLIBRARY LOAN

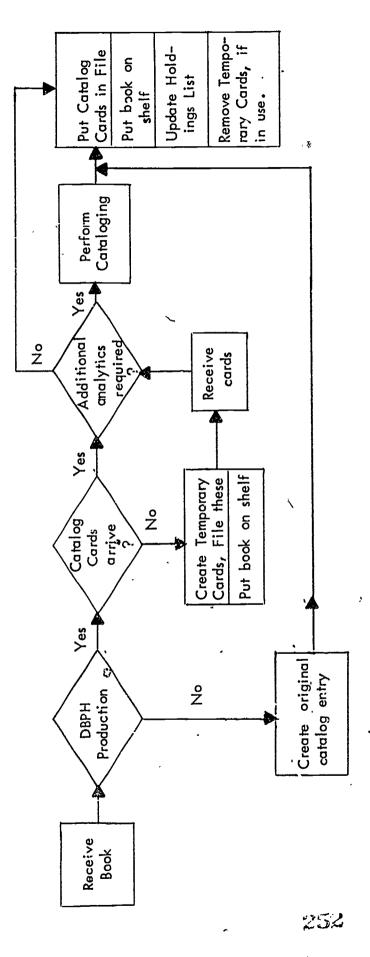


FIGURE C-6 CATALOGING

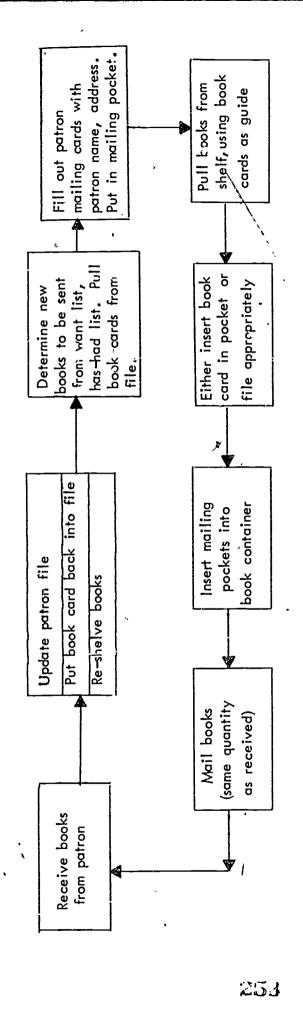


FIGURE C-7

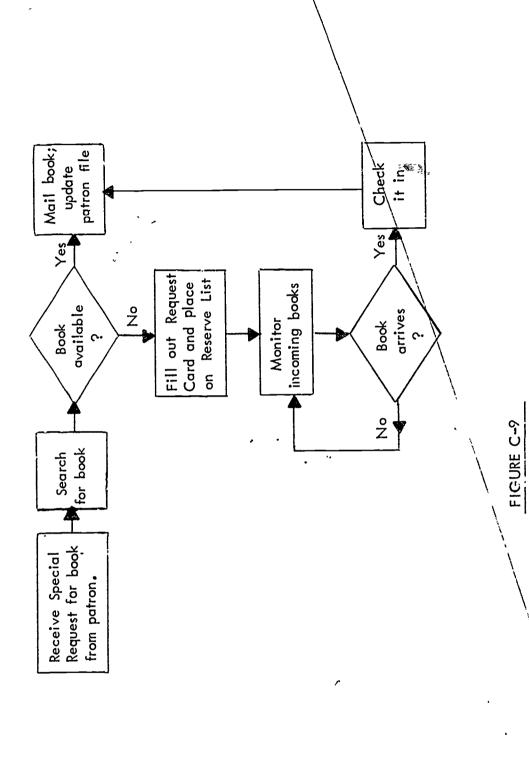
CIRCULATION (TURINABOUT)

ERIC Full feat Provided by ERIC

Mail Books When proper date arrives, select books for patron using Wanf List. Assign time cycle and quantity parameters to Patron.

FIGURE C-8

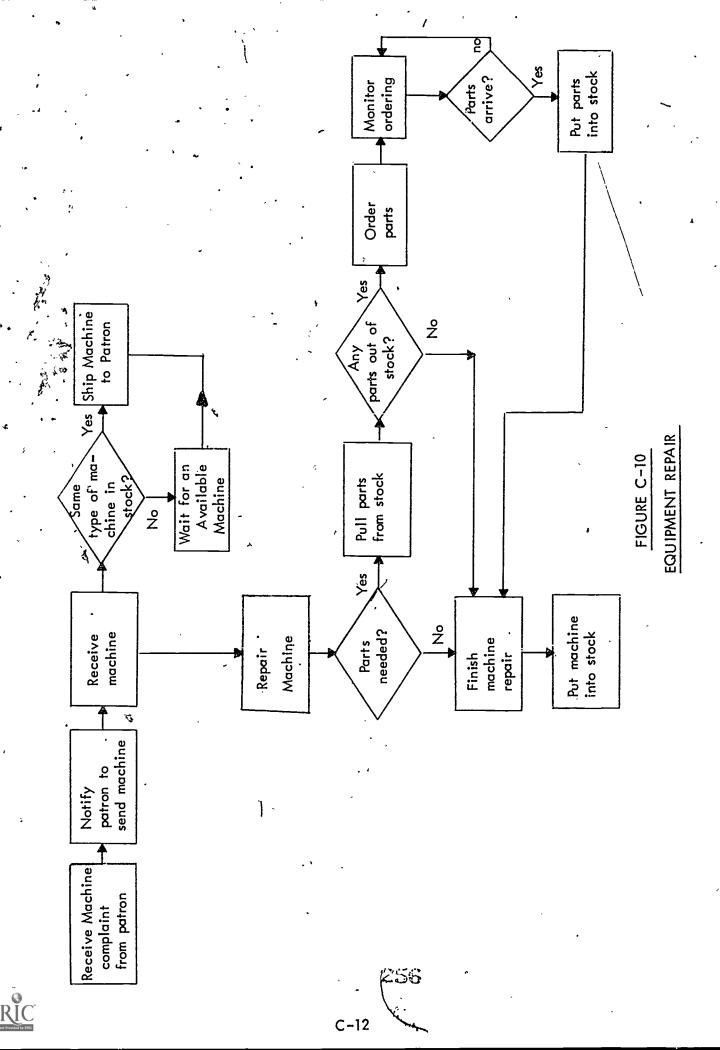
CALENDAR CIRCULATION



SPECIAL REQUEST CIRCULATION

· 4 -

253



APPENDIX D

BOOK AND MICROFICHE CATALOG COSTS

In order to determine the feasibility of producing a Union Catalog, Union Catalog Monthly updates, and monthly updates of the in-process file in print and/or microfiche, calculations were completed to determine the size of the catalog and/or file and the cost of producing them.

- UNION CATALOG
- PRINT VERSION

See charts on Schedule Print Catalogs (D-2 through D-5).

INITIAL WORKING DOCUMENT

Step 1. Ascertaining the number of entries in the document was the first step in determining the size and cost of the first working document produced by the bibliographic system.

No. of Entries -- 1st Working Document = 12,000 mass produced items.

As of June 1974 (the start of the Recataloging Project) there were 9,389 rumbers in the verified shelf list.

TB 1-4815	=	4815 book numbers
RD 6000-7152	= , 4	1153 book numbers
CB 1-970	=	970 book numbers
BR 1-2451	=	2451 book numbers
	Total	9389 book numbers

Due to the lag between cataloging and final production, gaps of from 1 to 46 numbers were present in the more recent sections of the series. These gaps were not considered significant in the total estimate because a considerable number of containers (i.e., book numbers) having two or more titles had been cataloged under only one title, making any additional titles under that book number inaccessable. Consequently, new full and unique entries were to be made for these titles (per the Cataloging Manual, accepted by Ad hoc Cataloging Committee 8/14/74). It was estimated that a minimum



SCHEDULE PRINT CATALOGS

Title	Last Entry Date	Date Issued	. Charged To	Contents	Total Costs
Working Document	May 31, 1975	Dec. 1975	Fiscal Year 1976	DBPH Retrospective Mass Produced Titles = 12,000	\$ 26,250
First Union Cataloa	Dec. 31, 1975	July 1976	Fiscal Year 1976	DBPH Retrospective Mass Produced Titles = 12,000	\$ 80,000
,				DBPH Retrospective Limited Production Titles = 21,815 DBPH Mass and Limited Production Titles complet-	
				ed after June $19/4 = 2,632$ Grand Total = $36,447$	
				Less dupli- cates 4,010	
				Actual main 32,437	
				Grand Total Fiscal Year 1976	\$106,250



Ş

SCHEDULE PRINT CATALOGS

ı——					
Total Casts	\$192,000		,		\$192,000
Cantents	Actual main entries fram the First Unian Cafalog = 32,438	DBPH Mass and Limited Productian Titles Issued Between Jan. 2, 1976 and Dec. 31, 1976 = 2,550	Titles from the regional library network = 49,051 Titles from affiliated Agencies (APH-IMRC and RFB) = 55,325	Grand Tatal = 139,364 Less dupli- cates Actual main entry 134,347	Grand Total Fiscal Year, 1977
Charged Ta	Fiscal Year 1977			•	
Date Issued	J ulỳ 1977		•		
Last Entry Date	Dec. 31, 1976		•		
Title	Secand Union Catalag				



SCHEDULE PRINT CATALOGS

	· •	- •	
Total Costs	\$256,000		\$256,000
Contents	Actual main entries from the Second Union Catalog = 134,347 DBPH Mass and Limited Production titles Issued Between Jan. 2, 1977 and Dec. 31, 1977 = 2,835 Titles from the regional library network = 1,500 Titles from 32 affiliated agencies = 52,500	Grand, Totel = 191, 182	Grand Total Fiscal 'Year 1978
Charged To	Fiscal Year 1978	,	·
Date Issued	1978 Ylor		
Last Entry, Date	.Dec. 31, 1977	0	
11 the	Third Union Catalog		

of 1,000 book numbers concealed at least one title. Shelf-st sying revealed that early talking books (1-1000) and all children's recordings (approx. 500) were prime candidates for additional entries.

On this basis, it was projected that an additional 1500-2500 titles would have to have entries developed for them, bringing the total number of potential unique entries to 11888. This figure was rounded off to 12000.

Step 2. The following calculations represent the number of index entries in the Author/Title Sort, Subject Heading Index, Narrator Index, DBPH Book Number Index, and Dewey Number Index.

Author/Title Sort = 11724 Title Index Entries

Based on a random survey of 400 items in the collections of mass produced books, .023% of the entries could be title main entries.

12000 Number of Main Entries

x.023 % of title Main Entries

776,000 Number of title Main Entries

12000 Number of Main Entries
276 Number of Title Main Entries
11724 Number of Title Index Entries

Subject Heading Index = 62,400 Index Entries

Based on a random survey of 400 items in the collection of mass produced books, it was found that there should be an average of 5.18 subject headings per title.

12000 Number of Main Entries
 x 5.2 Average Number of Subject Headings Title
 Number of Entries in the Subject Heading Index

DBPH Book Number Index = 9,389 Index Entries

The number of DBPH book numbers in the first working document will equal the number of unique book numbers assign d to titles prior to June 1974. As was pointed out previously, the number of book numbers will not equal the number of main entries because one book number may be assigned to a container holding multiple titles.

Number of Unique Book Numbers Assigned as of June 1974 = 9,389 Narrator Index = 9,120 Index Entries



Again, based on a random survey of 400 mass produced titles, it was calculated that there will be .76 narrators per title (304 narrators \div 400 entries = .76 narrators per title).

12000 Number of Main Entries

x.76 Number of Narrators/Title
9120.00 Number of Entries in Narrator Index

Dewey Number Index = 12,000 Index Entries

There should be at least one Dewey Number for each main entry.

12000 Number of Main Entries
 x 1 Number of Dewey Numbers per Main Entry
 12000 Number of Entries in Dewey Number Index

Author/sitle Sort = 11,724 Title Index Entries
Subject Heading Index = 62,400 Index Entries
DBPH Book Number Index = 9,389 Index Entries
Narrator Index = 9,120 Index Entries
Dewey Number Index = 12,000 Index Entries

Step 3. After determining the number of main entries and index entries, it was necessary to ascertain the total number of characters in the average main entry and number of characters in the various elements in the index entries. With one exception this was done for each count by selecting a random group of approximately 400 mass produced entries completed prior to June 1974 and counting the number of characters in the appropriate section(s). (Conclusions drawn from this statistical sample are 95% reliable plus or minus 2 standard deviations).

Average Characters per Main Entry = 546.29

546.29 average number of charcters/entries
401 219062 total charcters in all entries
random
entries

In order to derive the number of characters in each type of index entry (title, subject heading, DBPH book number, narrator, and Dewey number) the following calculations were completed:

A rerage Characters per book number = 6.63



6.63 average characters/book number

400 26405 total characters in book numbers entries from random survey

Average characters per full author statement and name only =

22.13 characters per statement (main entry) 16.84 characters per name (index entry)

22.13 average characters per author statement

390 8629 total characters in complete author statements random entries

16.84 average characters per author name

395 6652 total characters in author names random entries

Average characters per short and full title =

32.87 characters per full title (main entry)
21.01 characters per short title (index entry)

402 13215 total characters in full titles random entries

21.01 average characters per short title
408 8571 total characters in short titles
random
entries

Average characters per subject heading = 28

This figure was supplied by Ms. Susan Beibel, Catalog Control Specialist, Technical Processing Research Office, rether than calculating it from the random survey of entries. The information was taken from an early statistical analysis of the first volume of the MARC Monographs tape (English language entries). The analysis was done in order to determine the length of fields and was based on the communications format. It included embedded subfield codes.

Average characters per Dewey number = 7.18



7.18 average characters per Dewey number 271 1945 total characters in the Dewey numbers random entries

* Average characters per narrator statement = 32

16.84 average characters per narrator name
395 6652 total characters in narrator names
random
entries

17 average characters per narrator name

+15 characters per punctuation, spaces, producer, and word narrator

32 average characters per narrator statement

SUMMARY

Average characters per main entry = 546.29

Average characters per book number = 6.63

Average characters per full author statement and name alone = 22.13 characters per full statement (main entry 16.84 characters per author name (index entry)

1

Average characters per short and full title = 32.87 characters per full title (main entry)

21.01 characters per short title (index entry)

Average characters per subject heading = 28

Average characters per Dewey number = 7.18

Average characters per narrator statement = 32

Step 4. Having arrived at the number of entries in the working document and the number of characters in relevant portions of the entry, it was possible to calculate the number of pages and volumes required for recatalog. Preliminary information was also gathered from Mary Kay Daniels, Library Information Systems Specialist, Catalog Distribution Services, concerning the number of characters per line and lines per page, assuming a 3 column page in 6 point type (45 characters per line; 83 lines per page).



261

Number of characters per average complete main entry as formatted on the page = 639 characters

Average characters/main entry	=	546
Spaces between book number and author	=	3
Indention on title line	=	15
Indention on second line of title	=	10
Blank line between title paragraph and collation	=	45
Indention on collation line	=	5
Indention on first line of annotation	=	5 ,
Indention on first line of contents	=	5 /
Indention on first line of subject headings	æ	+ 5
Total characters per main entry	=	639

Number of characters per average index entry in the author/Title sort = 50

Number of characters per average entry in the Subject Heading Index = 78

Number of characters per average entry in the DBPH Book Number Index = 50

Number of characters per average entry in the Narrator Index = 82

Average characters per narrator statement = 32

Average characters per author name = 17

Average characters per short title = 21

Average characters per book number = 7

Indention = +5

Number of characters per average entry in the Dewey Number Index = 57

Average characters per Dewey number = 7
Average characters per author name = 17
Average characters per short title = 21
Average characters per book number = 7
Indention = +5

SUMMARY

Number of characters per average complete main entry as formatted on the page = 639

Number of characters per average index entry in the Author/Title sort = 50 Number of characters per average entry in the Subject Heading Index = 78 Number of characters per average entry in DBPH Book Number Index = 50 Number of characters per average entry in the Narrator Index = 82 Number of characters per average entry in the Dewey Number Index = 57

Number of lines required for the complete main entry = 16

14.2 lines per complete main entry
45 1639 total characters in complete main entry
characters
per line

- 14 lines per complete main entry
- +.2 between entries
- 16 lines total

Number of lines required for title index entries in Author/Title sort = 4



Formatted entry:

21 character title = 1st line

29 characters in remaining portions of index entry = 2nd line

Total = 2 lines

2 lines per index entry

+2 lines between entries

4 lines total

Number of lines required for entries in Subject Heading Index = 5

Formatted entry:

28 character subject heading = 1st line

50 characters in remaining portions of index etnry = 2nd and 3rd lines

Total = 3 lines

3 lines per index entry

+2 lines between entries

5 lines total

Number of lines required for entries in DBPH Book Number Index = 4

Formatted entry:

7 character book number = 1st line

43 characters in remaining portion of index entry = 2nd lines

Total = 2 lines

2 lines per index entry

+2 lines between entries

4 lines total

Number of lines required for entries in the Narrator Index = 5

Formatted entry:

32 character narrator statement = 1st line

50 characters in remaining portions of index entry = 2nd and 3rd lines

Total = 3 lines

3 lines per index entry +2 lines between entries

5 lines total

Number of lines required for entrics in the Dewey Number Index = 5

Formatted entry:

7 character Dewey number = 1st line

50 characters in remaining portions of index entry = 2nd and 3rd line

Total = 3 lines

3 lines per index entry

+2 lines between entries

5 lines total

SUMMARY

Number of lines required for the complete main entry = 16

Number of lines required for title index entries in the Author/Title sort = 4

Number of lines required for entries in the Subject Heading Index = 5

Number of lines required for entries in the DBPH Book Number Index = 4

Number of lines required for entries in the Narrator Index = 5

Number of lines required for entries in the Dewey Number Index = 5

Number of main entries per page = 15

5.19 entries per column

16 83 lines per column

lines per main entry

5 main entries per column

x3 columns per page column

15 main entries per page

Number of title index entries per page = 60

20.75 entries per column

4 83 lines per column

lines per title index entry

268



20 title entries per column

x3 columns per page

60 title index entries per page

Number of subject index entries per page = 48

16.6 entries per column

5 83 lines per column

lines per subject heading entry

16 subject entries per column

x3 columns per page

48 subject index entries per page

Number of DBPH book number index entries per page = 60

20.75 entries per column

4 83 lines per column

lines per book number entry

20 book number entries per column

x3 columns per page

60 book number entries per page

Number of narrator index entries per page = 48

16.6 entries per column

5 83 lines per column

lines\
per narrator
entry

16 narrator entries per column

x3 columns per page

48 narrator entries per page

Number of Dewey number index entries per page = 48

16.6 entries per column

5 83 lines per column

lines per Dewey number entry

16 Dewey number entries per column

x3 columns per page

48 Dewey number entries per page

SUMMARY

Number of main entries per page	•	=	15
Number of title index entries per page		=	60
Number of subject index entries per page		=	48
Number of DBPH book number index entries per page		=	.60
Number of narrator index entries per page		=	48
Number of Dewey number index entries per page		=	48

Number of pages in the Author/Title (Main Entry/T 'a) sort = 996

800 pages for main entries

195.4 pages for title index

15 12000 main entries 60/11724 title index entries

main entries

entries

title

per page per page

800 pages for main entries

+196 pages for title index entries

996 total pages in Author/Title sort

Number of pages in the Subject Heading Index = 1300

1300 pages for subject index entries

48/62400 subject index entries

subject

èntries per page

Number of pages in the DBPH book Number Index = 156.48

156.48 pages for DBPH book number index entries

60/9389 DBPH book number entries

DBPH\ book

number

index entries per page

270



Number of pages in the Narrator Index = 190

190 pages for narrator index entries
48 9120 narrator index entries

narrator index entries per pag.

Number of pages in the Dewey Number Index = 250

250 pages for Dewey number index entries
48 12000 Dewey number entries
Dewey index
entries per
page

Total number of pages in the 4 indices = 1897

1300 pages for subject index entries

157 pages for DBPH book number index entries

190 pages for narrator index entries

+250 pages for Dewey number index entries

1897 Total pages for 4 indices

SUMMARY

Number of pages in the Author/Title (Main Entry/Title) sort = 996 Total number of pages in the 4 indices = 1897

The optimum size for a volume of a catalog is from 500 to 1000 pages; therefore, it was estimated that the first working document would require three volumes:

Volume 1 = 996 page Author Title Sort Volumes 2 and 3 = 1897 page sort of 4 Indices

Step 5. Given a three volume catalog, the next step was to determine the number of copies of the catalog required and the cost to produce it in the quantity desired. Since the initial working document may be used for many purposes such as shelf surveys, demonstration, evaluation, etc., it was decided that 1000 copies would be needed. The proposed distribution of the copies is as follows:



272

1	·	
DBPH		61
	3	
Office of the Chief	4	
Project Coordination Office Office Services	. 1	
Publication Services	, . 2	
Building Services	·	
Materials Development Office	2	
Collection Development Section	6	
Processing Section	6	
Production Section	. 3	
Technical Section	1	·
Network Development Office	2	
Reference Section	5、	
Music Section	5. 2	
Volunteer Training Section	, 1	^
Volunteer Utilization Section	1	
Network Services Section	1	
Resources Coordination Unit	5	
Circulation and Collection Mainter	nance Unit 5	
Retrospective Cataloging Project	10	
Multi-state Centers		20
Florida	10	
Utah	10	
O lan		
Regional Libraries		
An average of 8 per Library x 54	=	432
Subregional Libraries		
An average of 4 per Library × 102	· ? =	408
<u>Other</u>		79
Major Affiliated Agencies	20	
Replacement Copies		
DBPH	20	
Network Libraries,	20	
Miscellaneous \	. 19	•
	Grand Total ごとと	1000



Base prices to print a catalog as quoted by Ms. Jones, of the Office of the Director of Printing and Publications, Government Printing Office are \$8,000 to produce 500 copies of 1 (700-1000 page) print volume plus \$1.50 per copy for each additional copy. Therefore, the initial 3 volume working document would cost:

Cost of 500 copies of 1 volume * Each additional copy (\$1.50 x 500) Total cost for 1000 copies of 1 volume	=	\$ 8,000 750 \$ 8,750
Cost of 1000 copies of 1 volume Number of volumes Total cost for 1000 copies of 3 volumes		\$ 8,750 x 3 \$26,250

SUMMARY

It was determined that 1000 copies of the 3 volume initial working document would be needed. The cost for the required number of copies of these three volumes should be \$26,250.

FIRST UNION CATALOG

It is estimated that the first Union Catalog should be issued in July of 1976. It will be greatly expanded over the first working document and should include a new format for the main entry (see Chapter 4, page 59). Most calculations used to determine the cost of this first Union Catalog are identical to those described for the first working document; and, therefore, only the results will be given. However, where variations occur they will be indicated.

Step 1. The number of main entries in the first Union Catalog was determined by counting the number of individual DBPH numbers that will be input in the time span allowed and adding the number of main entries in the first working document. The numbers represented are covered in the chart (page 2) preceding the calculations for the print catalog.

Number of items in the first Union Catalog = 36,447

Since it was known that multiple versions of the same item existed within the DBPH collection, a random survey of 5% (6 drawers) of the dictionary card catalog was done. This survey determined that 11% of the entries will be duplicates. Therefore, the total number or possible items in the catalog was reduced by the percentage of duplicates.

2173



Υ.,

36,447 Total number of possible items x .11 Percentage of duplication 4,009.17

36,447.00 Total number of possible items
-4,009.17 Number of duplicate items
32,437.83 Number of main entries

SUMMARY

Number of main entries in the first Union Catalog = 32,437,83.

Step 2. The following are the results of calculations to determine the number of items in the Author/Title sort and 4 indices.

Author/Title Sort = 31,692 title index entries (See method of calculation page 7)

Subject Heading Index = 168,029 (See method of calculation page 7)

DBPH Book Number Index = 36,447

1.12358 Number of book numbers per main entry
32,438 36,447 total number of book numbers
Number of
main entries

32,438 Number of main entries
x 1.12358 Number of book numbers per main entry
36,446.688 Number of entries in DBPH Book Number Index

Narrator Index = 19,736

17,736 Total book numbers in recorded media +2,000 Projected number of concealed titles 19,736 Total numbers of entries with narrators

.5415 Number of narrators per title
36,447 19,736 Total entries with narrators
Total number :
of book numbers

117-1



36,447 Total number of book numbers x5,415 Number of narrators per title

19,736.05 Number of e-1. in Narrator Index

Dewey Number Index = 32,438 (See method of calculation page 8)

SUMMARY

Author/Title Sort - 31,692 Title Index Entries
Subject Heading Index = 168,029 Index Entries
DBPH Book Number Index = 36,447 Index Entries
Narrator Index = 19,736 Index Entries
Dewey Number index = 32,438 Index Entries

Step 3. Since most of the character counts for significant portions of the main entry should remain the same, these items were not recalculated. Two entities (main entry and DBPH book number) did vary, however, and these were recalculated.

Average characters per main entry = 676

546.00 Average number of characters per entry in first working document

-29,44 Average number of characters per collation statement

516.56 Average number of characters per partial entry

15.00 Number of characters allowed for holdings code

26.44* Average characters in collation statement

+12.00 Maximum characters allowed for book number

43.44 Characters per holding statement

1.12 Holdings starements per main entry

32,437.83 36,447 Total (unique) items held

Total

main entries

43.44 Average characters per holdings statement

+1.12 Holdings statements per main entry

48.65 Total characters for holdings statements for each entry

* Number of characters allowed for the holdings code has been reduced from 29.44 to 26.44 because of further abbreviation of terms in the first Union Catalog over the first working document (e.g., v. for vols., c. for cass.)



517 Average number of characters per partial main entry

49 Total characters for holdings statements for each entry

110 Blank lines and indentions

676 Characters per main entry

Average characters per book number = 6.4

6.43 Average Number of characters per book number 32,683 210286 Total number of characters in all book numbers Actual number of book numbers

Average characters per full author statement and name alone =

22.13 characters per statement (main entry)
16.84 characters per name (index entry)
(See method of calculation page 7)

Average characters per short and full title =

32.87 characters per full 1 tle (main entry)
21.01 characters per short title (index entry)
(See method of calculation page 7)

Average characters per subject heading = 28

(See method of calculation page 7)

Average characters per Dewey number = 7.18

(See method of calculation page 8)

Average characters per narrator statement = 32

(See method of calculation page 8)

SUMMARY

Average characters per main entry = 676
Average characters per book number = 6.4
Average characters per full author statement and name alone =

22.13 characters per full statement (main entry) 16.84 characters per name (index entry)

Average characters per short and full title =

32.87 characters per full title (main entry)
21.01 characters per short title (index entry)

Average characters per subject heading = 28

Average characters per Dewey number = 7.1c

Average characters per narrator statement = 32

Step 4. Given the number of entries in the first Union Catalog and the number of characters in significant portions of the entry, it was possible to derive the number of pages and volumes involved. Once again information and methods of calculation are not reiterated unless they are unique.

Number of characters per average complete main entry as formatted on the page = 676 characters

Average number of characters per partial main entry Indention of title line	= = =	517 5 45
Blank line between title paragraph and annotation Indention of first line of the annotation	=	5
Indention of first line contents notes	=	5
Indention of first line of subject headings	=	5
Blank line between end of main entry and holding statement(s)	=	45
Characters per holding statements	=	49
Total characters per main entry +	=	676
Number of characters per average index entry in the Author/Title sort (See method of calculation page	= ,	51
Number of characters per average entry in the Subject Heading Index (See method of calculation page 9)	=	79
Number of characters per average entry in the DBPH Book Number Index (See method of calculation page 9)	=	51
Number of chara is per average entry in the Narrator Index (See method of calculation page 10)	=	83
Number of characters per average entry in the Dewey Number Index (See method of calculation page 10)	=	58



SUMMARY

Number of characters per average complete main entry as formatted		
on the page	=	676
Number of characters per average index entry in the Author/Title sort	=	51
Number of characters per average entry in the Subject Heading Inde.c	=	79
Number of characters per average entry in the DBPH Book Number Index	=	51
Number of characters per average entry in the Narrator Index	=	83
Number of characters per average entry in the Dewey Number Index	=	58
SUMMARY		
Number of lines required for the complete main entry	=	1.7
Number of lines required for title index entries in Author/Title sort	=	4
Number of lines required for entries in Subject Heading Index	=	
Number of tines required for entries in DBPH Book Number Index	=	5 4
Number of lines required for entries in the Narrator Index	=	5
Number of lines required for entries in the Dewey Number Index	=	5
(See method of calculation for the above pages 10–12)		
SUMMARY		
Number of main entries per page	=	12
Att the office of the first of	=	60
Number of subject index entries per page	=	48
Number of DBPH book number index entries per page	=	60
Number of narrator index entries per page	=	48
Number of Dewey number index entries per page	=	48
(See method of calculation for the above pages 12-14)		
SUMMARY		
Number of pages in the Author/Title (Main Entry/Title) sort	==	3,233
Total number of pages in the 4 indices	=	5, 196
(See method of calculation for the above pages 14-15)		
SUMMARY		
Total number of volumes for the first Union Catalog .	=	10
·		
Author/Title Volumes = 4 Index Volumes = 6		
(See text page 19 concerning optimum pages per volume)		



Step 5. Since the original need for providing multiple copies of the print catalog should be altered somewhat by the suggestions made concerning the first working document and since the cost of the product will escalate rapidly as the number of volumes increases, only 500 copies of the first Union Catalog will be provided. The distribution pattern is:

DBPH		42
Office of the Chief	2	
Project Coordination Office	2	
Office Services	0	,
Publication Services	2	
Building Services	0	
Materials Development Office	2	
Collection Development Section	6	
Processing Section	6	
Froduction Section	3	
Technical Section	0	
Network Development Office	· 2	
Reference Section	· 2 ? 2	
Music Section	2	
Volunteer Training Section	0	
Volunteer Utilization Section	1	
Network Services Section	1	
kasources Coordination Unit	_# 5 5	
Circulation and Collection Maintenance Unit	5	
Multi-state Centers		8
8		
Florida	4 4	
Utah	4	
Regional Libraries		
An average of 4 per Library \times 54 =		216
Subregional Libraries		
An average of 2 per Library x 102 =		204
<u>Other</u>		
Replacement Copies and Miscellaneous		30
Grand Total		500



SUMMARY

To print 500 copies of a 10 volume cotalog, it should cost \$80,000. (See method of colculation page 17).

SECOND UNION CATALOG

Although the number of entries in the Second Union Cotalog will increose significantly over the First Union Cotalog, the format should remain the same. Once again, most calculations are identical in method to those completed for the First Union Catalog; and, thus, unless a variation occurs, only results are given.

Step 1. To orrive of the number of main entries in the Second Union Catalog, the number of entries in the First Union Catalog was accepted as the base (32,438). To this figure was added 2,550 mass and limited production titles prepared by DBPH. Since the year covered by the catalog represents a colendar year while the book quotes are fixed on the basis of a fiscal year, the annual DBPH production in the Second Union Catalog was colculated to be 2,550.

3/4 of Fiscol Year 1976 x 2,500 Titles = 1875 FY1976 Titles

1/4 of Fiscol Yeor 1977 x 2,700 Titles = 675 FY1977 Titles

1,875 FY1976 Titles + 675 FY1977 Titles 2,550 Total DBPH Titles

The second Union Cotalog will also include titles from network 'ibraries and two offiliated agencies. In the survey of regional libraries conducted in the course of this study, a question was asked concerning the percentage on non-DBPH produced material in each library's collection. Answers ranged from estimates of 1% to 50% non-DBPH material. In the professional judgement of responsible members of the DBPH staff, 3% is probably a more accurate representation of the non-DBPH material. Therefore, using this percentage and the total number of DBPH mass produced and open real tape titles, the following colculations were performed to arrive at the number of non-DBPH network titles.

18,947 Total DBPH mass produced and open reel tape titles

x .03 % of non-DBPH titles in each regional library

568.41 Number of non-DBPH titles per librory

568 Number of non-DBPH titles per library

x53 Number of regional libraries (excluding lowa)

30, 104 Number of non-DBPH titles in 53 regional libraries

The lowa regional library estimated that 50% of their collection consists of non-DBPH items. Since the lowa collection of limited production material is extensive, this figure was accepted as valid; therefore, an additional 18,947 titles should be added to the total of non-DBPH material in regional library collections.

30,104 Number of non-DBPH titles in 53 regional libraries
+18,947 Non-DBPH titles in lowa's collection

Total non-DBPH titles in regional libraries collections

To derive the number of potential entries from the two major affiliated agencies, the American Printing House for the Blind, Instructional Materials Reference Center (APH - IMRC), and Recordings for the Blind (RFB), which will probably be included first, both APH - IMRC and RFB were contacted. KFB indicated that their collection as of December 1976 will probably consist of 35,500 titles all of which are reported to APH - IMRC.

31,000 Size of present collection +4,500 Additions per year 35,500 Total collection as of December 1976

Mr. Carl Lappin of APH-IMRC indicated that they will have a registry of 50,000 titles by December 1976 including RFB titles.

40,000 Size of present collection: +10,000 Additions per year 50,000 Total collections as of December 1976

Although RFB does report all of its titles to APH-IMRC, approximately 10% to 15% of the titles are not texts; and, consequently, they are not included in the APH-IMRC registry.

35,500 Total RFB collection as of December 1976 × .15 Percentage of non-text material 5,325 Number of non-texts in RFB collection

50,000 APH-IMRC collection (including RFB texts)

+5,325 RFB non-textual material

55,325 Size of total collection from APH-IMRC and RFB as of December 1976

Based on a comparison of every 20th page of the RFB catalog against the DBPH existing dictionary catalog, there could be a .036% duplication of items. Consequently, the total collection less duplicates would consist of 134,347 items.



139,364 Total possible entries in 2nd Union Catalog

× .036

5,017 Number of duplicates

139,364 Total possible entries in 2nd Union Catalog

- 5,017 Possible duplicates

134,347 Titles in the 2nd Union Catalog

SUMMARY

Number of main entries in the second Union Catalog = 134,347

Step 2. Calculations to determine the number of items in the Author/Title sort and 4 indices produced the following results.

Author/Title Sort = 131,237 title index entries (See method of calculation 'page 7) Subject Heading Index = 315,045 index entries

> 34,988 Number of DBPH produced titles x 5.18 Average number of subject headings per title 181,237.84 Number of entries in subject heading index

49,051 Number of Network produced titles x 1.6* Average number of subject headings per title 78,481.6 Number of entries in subject heading index

55,325 Number of APH-IMRC and RFB titles

x 1 Average number of subject headings per title

55,325

181,238 Number of DBPH entries in index
78,482 Number of Network entries in index
+55,325 Number of APH-IMRC and RFB entries in index
Total number of entries in subject heading index

DBPH Book Number Index = 34,988

* Ms. Beibel, Catalog Contral Specialist, Technical Processing Research Office, said that a 1973 survey showed an average of 1.6 subject headings per L.C. cataloged title. Since many network libraries may not be cataloging material, the MARC record may have to be used. Therefore, the LC figure should be valid.



Since duplication of titles under different book numbers (ratio of book numbers to books) would probably decrease as the DBPH collection is put under tighter control, the figure used as the average number of book numbers per item has been reduced from 1.12 to 1.

34,988 Number of DBPH produced titles

x 1 Number of book numbers/items

34,988 Number of entries in the DBPH Book Number Index

Narrator Index = 19,243

Existing APH-IMRC and RFB catalogs do not include narrator nor do the registration cards submitted by DBPH network libraries. Therefore, only DBPH narrators were calculated.

17,736 Total book numbers in recorded media from the previous catalog

+1,700 Total book numbers in recorded media from portion of FY1976 and FY1977 titles included in this catalog.*

19,436 Total book numbers for recorded media

.55 narrators/title

34,988 19,436 Total book numbers for recorded media Total DBPH main entries

34,988 Total DBPH main entries

x .55
narrator/title
19,243.4 Entries in Narrator Index

Dewey Number Index = 119,539

APH-IMRC does not give Dewey Numbers for its titles; and, therefore, calculations were not made for their titles.

34,988 Number of DBPH produced titles
x 1 Average number of Dewey Numbers per title

34,983 Number of entries in the Dewey Number Index

49,051 Number of network produced titles

x 1 Average number of Dewey Numbers per title

49,051 Number of entries in Dewey Number Index

* According to Mona Werner, Head, Collection Development Section, approximately 1/3 of the titles produced each year are in braille.

35,500 Number of RFB produced titles

x 1 Average number of Dewey Numbers per title

35,500 Number of entries in Dewey Number Index

34,988 Number of DBPH entries in index

49,051 Number of Network entries in index

+35,500 Number of RFB entries in index

Total number of entries in Dewey Number Index

SUMMARY

	-	
Author/Title Sort	=	131,237 title index entries
Subject Heading Index	=	315,045 index entries
DBPH Book Number Index	=	34,988 index entries
Narrator Index	=	19,243 index entries
Dewey Number Index	=	119,539 index entries

Step 3. Again, most of the character counts involved in figuring the Second Union Catalog will remain the same; therefore, these figures were not recalculated. The only two which vary are the main entry and the book number.

Average characters per DBPH main entry as formatted on the page = 676 (See method of calculation page 17)

Average characters per non-DBPH main entry as formatted on the page = 483

676 Characters per DBPH main entry

-193 Average number of characters in annotation

483 Number of characters in non-DBPH main entry as formatted on the page

Average characters per book number = 9.48

9.48 Average number of characters per book number
119,784 1135211 Total number of characters in all book numbers
Actual
number of
book numbers

Average characters per full author statement and name alone =

22.13 characters per statement (main entry)
16.84 characters per name (index entry)

(See method of calculation page 7)



Average characters per short and full title =

32.87 characters per full title (main entry)
21.01 characters per short title (index entry)

(See method of calculation page 10)

Average characters per subject heading ' = 28 (See method of calculation page 8)

Average characters per Dewey number = 7.18 (See method of calculation page 8)

Average characters per narrator statement = '32 (See method of calculation page 8)

SUMMARY

Average characters per DBPH main entry as formatted on the page = 676

Average characters per non-DBPH main entry as formatted on the page = 483

Average characters per book number = 9.48

Average characters per full author statement and name alone =

22.13 characters per full statement (main entry)

16.84 characters per name (index entry)

Average characters per short and full title =

32.87 characters per full title (main entry)

21.01 characters per short title (index entry)

Average characters per subject heading = 28

Average characters per Dewey number = 7.18

Average characters per narrator statement = '32

Step 4. The number of pages and volumes in the Second Union Catalog was calculated based on the information presented in Steps 1, 2 and 3.



SUMMARY

Number of characters per average complete DBPH main entry as formatted for the page	=	676
Number of characters per average complete non-DBPH main entry		
as formatted for the page	=	483
Number of characters per average index entry in Author/Title sort Number of characters per average index entry in the Subject	=	52
Heading Index	=	80
Number of characters per average index entry in the DBPH Book' Number Index	=	52
Number of characters per average index entry in the Narrator		
Index	==	84
Number of characters per average index entry in the Dewey		
Number Index	=	59
(See method of calculation for the above pages 8-10)		
SUMMARY		
Number of lines required for the complete DBPH main entry	=	1.7
Number of lines, required for the complete non-DBPH main entry	==	12
Number of lines required for title index entries in Author/Title sort	=	4
Number of lines required for entries in Subject Heading Index	=	5
Number of lines required for entries in DBPH Book Number Index	=	4
Number of lines required for entries in the Narrator Index	=	5
Number of lines required for entries in the Dewey Number Index	==	5
(See method of calculation for the above, pages 10-12)		
SUMMARY		
Number of DBPH main entries per page	=	12
Number of non-DBPH main entries per page	=	18
Number of title index entries per page	=	60
Number of subject index entries per page	=	48 .
Number of DBPH book number index entries per page	=	60
Number of narrator index entries per page.	=	48
Number of Dewey number index entries per page	=	48
(See method of calculation for the above, pages 12-14)		

SUMMARY

Number of pages in the Author/Title sort = 10,623

286

D-30



2915.56 pages for DBPH main entries
12 34,988 DBPH main entries

DBPH entries per page

5519.94 pages for non-DBPH main entries 18 199.359 non-DBPH main entries

Non-DBPH entries per page

> 2,916 Pages for DBPH main entries +5,520 Pages for non-DBPH main entries 8,436 Total pages for main entries

2187.28 pages for title index entries
60 131,237 title index entries
Title index
entries per
page

8,436 Pages for main entries +2,187 Pages for title index entries 10,623 Total pages for Author/Title sort

Total number of pages in the 4 indices = 10,107 (See method of calculation, page 14–15)

SUMMARY

Total number of volumes for the second Union Catalog = 24

Author/Title Volumes = 12 Index Volumes = 12 (See method of calculation, page 15)

Step 5. Again, it is estimated that 500 sets of the catalog will be equired. Subject to adjustments based on experience, the distribution will remain exactly as specified for the first Union Catalog. (See page 23 for distribution)



SUMMARY

To print 500 sets of the Second Union Catalog should cost \$192,000. (See page 17 for method of calculation).

THIRD UNION CATALOG

As in the Second Union Catalog the number of entries will increase substantially but the catalog format will remain intact. Calculations completed in the process of arriving at the final costs will be cited, as before, only if they vary in some way from previous methods.

Step 1. The number of main entries calculated for the Second Union Catalog was taken as the primary figure for calculating the Third Union Catalog (134,347). To this was added DBPH mass and limited production titles for the calendar year 1977 (2835). As the next step the 1500 estimated additions from the network were added.*

Finally, since the Third Union Catalog should begin including items from other affiliated agencies besides APH-IMRC and RFB, an additional 52,500 titles were added. APH-IMRC and RFB would contribute 10,450 of these titles while 30 other organizations would send in 42,050 titles. In order to obtain this estimate of 42,050 titles, the number of items in the catalogs of 25 groups were calculated and an additional 5 producers were called for their estimated production. Although this figure includes some texts that would be reported to APH-IMRC as well as some duplication, the figure is probably relatively accurate since other groups were not surveyed. Therefore, the make-up of the catalog would be as follows:

134,347 2nd Union Catalog
2,835 DBPH mass and limited title production
1,500 Network title production
+52,500 Affiliated agency title production
191,182 Grand Total

SUMMARY

Number of main entries in the third Union Catalog = 191, 182

- Step?. The following are the results of calculations of the number of items in the Author, title sort and 4 indices.
- * 1,326 copyrights were cleared for non-DBPH groups and/or libraries between April 1974 and March 1975. Since it is not possible to tell at this point how many of those clearances represented library requests, how many were actually completed, and how much growth in output can be anticipated, the figure of 1,500 was used in order to allow a generous margin for hidden material.



SUMMARY

186,785 title index entries Author/Title Sort 384,630 index entries Subject Heading Index 37,823 index entries DBPH Bock Number Index 21,181 index entries Narrator Index 170,424 index entries Dewey Number Index (See method of calculation for the above on pages 5-6, 16)

Step 3. The character counts completed for the first Union Catalog were accepted as the basis of calculation for the Third Union Catalog with the exceptions of the average number of characters for the book number. This figure was recalculated.

· · · · · · · · · · · · · · · · · · ·		
<u>SUMMARY</u>	,	•
Average characters per DBPH main entry as formatted on the page Average characters per non-DBPH main entry as formatted on the page Average characters per book number Average characters per full author statement and name alone	= = =	676 483 10
22.13 characters per full statement (main entry) 16.84 characters per name (index entry)		•
Average characters per short and full title	= ,	
32.87 characters per full title (main entry) 21.01 characters per short, title (index entry)	•	- ,
Average characters per subject heading Average characters per Dewey number Average characters per narrator statement (See method of calculation for the above on pages 6-9, 20)	<u>=</u> =	28 7•18 32
C: A Decay of information for summarized and the total entries	s calc	11=

Step 4. Based on the information just summarized and the total entries calculated, the number of pages and volumes in the Third Union Catalog was derived.

SUMMARY

Number of characters per average complete DBPH main entry as formatted on the page	=	676
Number of characters, per average complete non-DBPH main entry	_	483
as formatted on the page	_	
Number of characters per average index entry in the Author/Title sort	=	53

	, wat		
	Number of characters per average index entry in the Subject Heading		
3	Index	=	53
	Number of characters per average index entry in the Narrator Index	=	85
	Number of characters per average index entry in the Dewey Number Index	=	60
	(See method of calculation for the above on pages 8-10)		,
	CI II ALAA DA		4
	SUMMARY		,
	Number of lines required for the complete DBPH main entry	= -	17
	Number of lines required for the complete non-DBPH main entry	=	12
	Number of lines required for title index entries in the Author/Title sort	=	4.
,	Number of lines required for entries in the Subject Heading Index	, =	12 ; 4 ; 5 ;4
	Number of lines required tor entries in the DBPH Book Number Index	. 2	
	Number of lines required for entries in the Narrator Index	=	5 5
	Number of lines required for entries in the Dewey Number Index	= 1	5
	(See method of calculation for the above on pages 10-12)	. '	£
	SUMMARY *	•	
	SOMMAKI		-
	Number of DBPH main entries per page	·= .;	12
	Number of non-DBPH main entries per page	=	18
	Number of title index entries per page	=	60
	Number of subject index entries per page	=	48
	Number of DBPH book number index entries per page	=-	60
_	Number of narrator index entries, per page	÷	48
	Number of Dewey number index entries per page	= '	48
	(See method of calculation for the above on pages 12-14)'		
	SUMMARY		
	Number of pages in the Author/Title sort	=14,	785
	Total number of pages in the 4 indices	=12,	
	(See method of calculation for the above on page 30)	127	, , ,
	(coo memor or carrotten to the above on page co)		
	SUMMARY		
	Total number of volumes for the Second Union Catalog	=	3,2
	A d /mad A/ I	_	1 **7
	Author/Title Volumes	= .	1/
	Index Volumes	=	15
	(See method of calculation for the above on page 15)		



Step 5. The total cost of the Third Union Catalog was figured on the basis of production of 500 sets. The distribution of these sets, again subject to necessary adjustments, would be the same as that for the First Union Catalog. (See page 23 for distribution).

SUMMARY

It should cost \$256,000 to produce 500 sets of the Third Union Catalog. (See page 17 for method of calculation)

MICROFORM PRODUCTS

In addition to providing a print version of the Union Catalog, it is recommended that a microform version be produced. Furthermore, monthly microform updates of the in-process file should also be prepared. In order to judge whether a microfiche or a microfilm version of these products is preferable, the advantages and disadvantages of each form were considered.

MICROFICHE vs. MICROFILM

A. Microfiche

1. Advantages:

- a. Microfiche can be easily and inexpensively duplicated allowing replacement of missing or damaged items by DBPH and/or the multi-state centers. This could be done on relatively inexpensive equipment.
- b. Microfiche can be mailed in regular correspondence envelopes by first class mail in order to increase the probability of prompt delivery.
- c. Microfiche requires less storage space than microfilm.
- d. It is easier to refer from indices to main body on microfiche in cases where the size of the product would exceed 1 role of film.
- e. Compared to microfilm readers, microfiche readers are inexpensive and portable.

2. Disadvantages:

- a. Microfiche holds fewer frames than microfilm.
- b. Microfiche is easier to misplace or misfile.



D-35

B. Microfilm

1. Advantages:

a. Microfilm is easier to scan since it holds nearly 1,000 images.

2

b. Since the Union Catalog would require fewer rolls of film than fighe cards, microfilm would be easier to store and lable.

Disadvantages:

- a. Loading and unloading of microfilm and scanning for a specific frame is cumbersome. This is especially true where main body and indices require referral from reel to reel.
- b. Microfilm readers cost a good deal more than microfiche readers.

MICROFICHE VS. MICROFILM READERS

In order to illustrate the qualities required in a microfiche or microfilm reader and the resultant costs, the following specifications and prices were obtained.

A. Microfiche

1'. Requirements

- a. Large reading screen.
 - b. Accurate frame finder
 - c. Quality lens system.
 - d. Portability
 - e. Even distribution of light

2. Examples

Manufacturers

- a. Washington Scientific Corp.
- b. Realist Corporation
- c. Bell and Howell, Inc.
- d. Microbra Corporation

Model Series

Mini-Cat Vantage Briefcase Escort

29%

3. Cost

Average cost of microfiche reader in quality desired = \$140.

a. Cost for DBPH

Average cost of reader Minimum DBPH requirements	\$ 140 • x 40
Total cost	\$5,600

b. Cost for Network

Average cost of reader	t	\$ 140
Minimum network needs		×106
(1 per Library)		
Total cost		\$14,840
		400 140
Total overall cost		\$20,440

B. Microfilm

1. Requirements

- a. Large reading screen
- b. Motorized drive
- c. Movable glass flats
- d. Quality lens system
- e. Even distribution of light

2. Examples

Manufacturers .	<i>b</i> ,	Model Series
a. 3M Company	: '	400M
b. Xerox Corporation		1212
c. Information Design	•	ID-201
d. Eastman Kodak		Recordak 310A

3. Cost

Average cost of the microfilm reader in the quality defired = \$1,000

a. Cost for DBPH

A verage cost of reader \$1,000

Minimum DBPH requirements × 40

Total cost \$40,000

b. Cost for Network

Total overall cost \$146,000

RECOMMENDED MICROFORM

It is recommended that DBPH choose microfiche for their bibliographic products for the following reasons:

- 1. The size of the Union Catalog and its divisions into 5 inter-related segments would make searching for a bibliographic record more difficult by film than by fiche.
- 2. It is easy and fairly inexpensive to duplicate fiche in case of loss or damage.
- 3. The cost for an adequate quality microfilm reader is significantly greater than that for a microfiche reader.

REDUCTION RATIOS

Having decided to use microfiche, 3 reduction ratios for the fiche are possible, 42x, 48x, and 24x. The reduction ratio determines how many times the page image is reduced and is inversely proportional to resolution when the image is blown back on the reader screen. There is no substantial difference in cost for masters or copies between the various reduction ratios. The following table provides a summary of the most common microfiche formats for letters size (8-1/2 x 11") and computer paper (11 x 14"):





Arranged	, •			No. of	Frames
For	Reduction	Columns	Rows	8-1/2 × 11	
8-1/2 x 11"	24X	14	7.	98	49*\
11 × 14"	, 24X	9 🔻	7	63 ' , `	63
8-1/2 × 11"	42X	25	13	3,25	· 156*
, 11 × 14"	42X	16	13	208	208
8-1/2 × 11"	48X	28	15	420,	210*
11 × 14"	48X	18	15	270	270.

^{*}A single image occupies two frames

A. 42X Reduction Ratio

1. Advantages

- a. There are 325 frames or letter size pages and 208 frames or computer, printout pages per fiche.
- b. 42X is the current commercial standard for COM production accepted by the National Microfilm Association.
- c. Loss of resolution can be easily overcome with a good lens system.
- Standard microfiche readers can be used for 42X with only slight modification of the lens system normally provided.

2. Disadvantages

- a. This resolution, could cause eye strain depending on the quality of the reader used.
- b. Libraries that presently own equipment with a 24X lens would have to purchase a 42X lens.





B. 48X Reduction Ratio (Experimental)

1: Advantages

- a. There are 420 frames or letter size pages and 270 frames or computer size pages per fiche.
- b. The significant increase in frames per fiche reduces the number of fiche needed and, therefore, the overall cost.

2. Disadvantages

- a. This resolution could cause eye strain due to lack of quality control and resolution.
- Reduction of the print type to this small a size will necessitate a larger point size typeface; and therefore, additional programming and Videocomp processing.
 - c. There are fewer readers capable of blowing back 48% microfiche into a readable format.
 - d. There are no overall industry standards for 48X. GPO is still experimenting with this reduction ratio without achieving satisfactory results as yet.

C. 24X Reduction Ratio

1. Advantages

- a. 24X is the current commercial and government standard for planetary camera production of microfiche.
- b. This has the highest resolution of the reduction ratios; and, therefore, eye strain is minimized.
- c. Almost all microfiche readers have 24X lens as standard equipment.
- d. The Library of Congress could purchase an inexpensive planetary camera to process its own microfiche masters.

2. Disadvantages

- a. There are only 98 frames of letter size pages and 63 frames or computer size pages per fiche.
- b. This reduction ratio holds so few frames per fiche that the quantity would become inconvenient to store.
- c. The great number of fiche would make searching for bibliographic records very cumbersome.
- d. The cost for production at 24X would be greater than at any other reduction ratio.



RECOMMENDED REDUCTION RATIO

42% reduction ratio is recommended for these reasons:

- 1. The large number of frames per fiche reduces the total number of fiche required and, therefore, the necessary storage.
- 2. The large number of frames per fiche reduces duplicating costs.
- 3. 42X is rapidly replacing 24X as the commercial and government standard.
- 4. If a library presently has a reader with a removable lens for 24X microfiche, a 42X can be purchased and the reader used without any other modification.

UNION CATALOG

MICROFICHE VERSION

In order to determine the number of fiche required for the Union Catalog and the cost of this product, Remac Information Corporation, a leading microform service bureau, was consulted. Since the three (3) columns, 6-point type size pages produced from the Videocomp for the print catalog could not be blown up on a screen at 42X with sufficient resolution, it will be necessary to go through a second run on the Videocomp in order to produce 8-1/2 x 11-inch pages in 2 columns and 8-point type. These pages can then be filmed at 42X on the Documate II camera, which is available through several local service bureaus. According to Remac Information Corporation this will increase the number of pages required for each catalog by an eximately 17 percent. The steps following the charts were completed in order to calculate what this would do to the size and cost of the microfiche Union Catalog.

SCHEDULE -- UNION CATALOG

ERIC

Full Text Provided by ERIC

MICROFICHE VERSION

ı —						
Total Cost	\$ 2,170	· ·		,	•	\$ 2,170
Contents	DBPH retrospective mass produced titles = 12,000.	DBPH retrospective limited production tiffes = 21,815	DBPH mass and limited production titles completed after June 1974 = 2,632	Grand Total 36,447 Less duplicates 4,010	Actual main. 32,437 entries	Grand Total Fiscal Year 1976 \$ 2,170
Charged To	Fiscal Year 1976	· ***			* 0	٥
Date Issued	· .May_1976		٠. ن	1	, .	,
Last Entry Date	Dec. 31, 1975			v	,	
Tifle	First Union Catalog	· · · · · · · · · · · · · · · · · · ·		•		••

SCHEDULE -- UNION CATALOG

MICROFICHE VERSION

	_			<u> </u>			
Total Cost	\$ 6,536			٠.	,	,	\$ 6,536
Contents	Actual -main entries from the First Union Catalog = 32,438	DBPH mass and limited production titles issued between January 2, 1976, and December 31, 1976 = 2,550	Titles from the regional library network = $49,051$	Titles from affiliated agencies (APH-IMRC and RFP) = 55,325 %	Grand Total 139,364 Less duplicates 5,017	Actual main 32,437 entries	Grand Total Fiscal Year 1977
Charged To	, Fiscal Year 1977		ি 'ঠ				
Date Issued	May 1977'	· .		•			
Last Entry Date	Second Union Dec. 31, 1976 Catalog		~				•
Title	Second Union Catalog	•)	,		

SCHEDULE -- UNION CATALOG

MICROFICHE VERSION

Title	Last Entry Date	Date Issued	Charged To	Contents	Total Cost.
ion	Dec. 31, 1977		Fiscal Year 1978	Actual main entries from	\$ 8,600
Catalog				Catalog = 134,347	ಀ
	` .			DBPH mass and limited production titles issued be-	
	•		`\	fween January 2, 1977, and December 31, 1977 = 2,835	٠,
	,			Titles from the regional library network = 1,500	
				Titles from 32 affiliated agencies = 52,500	· _
•	,			Grand Total 191, 182	
			,	Grand Total Fiscal Year 1978	છ _્ ં. \$

Step 1.

The first figure derived in calculating the cost of the catalog was the number of pages and hence fiche required for the annual version. A 17 percent increase in the page count was calculated using the base figures arrived at for the print Union Catalog. A microfiche version of the first working document will not be provided; therefore, no calculations were completed for it.

Document Title	<u>C</u>	Calculations_
First Union Catalog	3,233 X .17 549.61	Pages in print author/title sort Percentage of page count increase Increase in page count
•	3,233 + 550 3,783	Pages in print author/title sort Increase in page count Pages in microfiche author/title sort
	5, 196 X .17 883.32	Pages in print indices Percentage of page count increase Increase in page count
r ar a	5,196 + 883 6,079	Pages in print indices Increase in page count Pages in microfiche indices
Second Union Catalog	10,623 X .17 1,805.91	Pages in print author/title sort Percentage of page count increase Increase in page count
· ·	10,623 +1,806 12,429	Pages in print author/title sort Increase in page count Pages in microfiche author/title sort
· ·	10,107 X .17 1,718.19	Pages in print indices Percentage of page count increase Increase in page count
•	10,107 +1,718 11,825	Pages in print indices Increase in page count Pages in microfiche indices



Step 1 (cont'd)

Third Union Catalog	X .17	Pages in print author/title sort Percentage of page count increase Increase in page count
• ,	14,785 +2,513 17,298	Pages in print author/title sort Increase in page count Pages in microfiche author/title sort
,	X .17	Pages in print indices Percentage of page count increase Increase in page count
•	12,711 +2,161 ,14,872	Pages in print indices Increase in page increase Pages in microfiche indices

SUMMARY

First Union Catalog

Pages in microfiche author/title sort = 3,783 Pages in microfiche indices = 6,079

Second Union Catalog

Pages in microfiche author/title sort = 12,429 Pages in microfiche indices = 11,825

Third Union Catalog

Pages in microfiche author/title sort = 17,298 Pages in microfiche indices = 14,872

As stated previsously, the industry COM standard permits 325 letter size pages per fiche at 42 X allowing for appropriate headers. Therefore, each catalog would require the following number of fiche.





Step 1 (cont'd)

Document Title

First Union Catalog

Calculations

11.64 Fiche for author/title sort 325/3,783 Pages for author/title sorts pages/fiche

18.70 Fiche for indices 325/6,079 Pages for indices pages/fiche

Second Union Catalog

38.24 Fiche for author/title sort 325/12,429 Pages for author/title sort pages/fiche

36.381 Fiche for indices 325/11,825 Pages for indices pages/fiche

Third Union Catalog

53.22 Fiche for author/title sort 325/17,298 Pages for author/title sort pages/fiche

45.76 Fiche for indices 325/14,872 Pages for indices pages/fiche

SUMMARY

First Union Catalog

Fiche for author/title sort = 12. Fiche for indices = 19

Second Union Catalog

Fiche for author/title sort = 39
Fiche for indices = 37
Total = 76

Third Union Catalog

Fiche for author/title sort = 54
Fiche for indices = 46
Total = 100

S. .

Step 2.

DBPH

Having determined the number of fiche required for each catalog, the cost of each can be derived. According to Remac Information Corporation cost for microfiche production varies from company to company, but a \$16.00 per fiche charge for production of the master and a 12¢ (1,000 copies) to 14¢ (500 copies) per fiche charge for production of a copy would be an average commercial cost. In addition, most commercial producers would provide working masters at their own expense. Given these figures, the cost of the catalog was determined. It was assumed that there would be 500 copies with a distribution as follows; however, the cost for 1,000 copies was also calculated. The annual version of the catalog in microfiche has potential for distribution outside of the network as well as in multi-copies within it. Therefore, should funds permit, 1,000 copies would be desirable. The number of copies and issue data could change depending on input from users.

<i>D D</i> ,	, ,		*
	Office of the Chief Project Coordination Office Office Services Publication Services Building Services Materials Development Office Collection Development Section Processing Section Production Section Technical Section Network Development Office Reference Music Volunteer Training Section Volunteer Utilization Section Network Services Section Resources Coordination Unit Circulation and Collection Mainter	2 4 1 0 2 6 6 4 1 2 2 1 0 1	
Multi	state Centers (5 each)		10
Regio	nal Libraries (4 X 54)		216
Subre	gional Libraries (2 X 102)		204
Reser	ve	• .	30
	<u>Total</u>	<u>.</u>	500
	•		•

40

500 COPIES

Document Title	Calculations
First Union Catalog	31 Total number of fiche X 16 Cost per moster \$496 Cost for masters
· ·	31 Total number of fiche X .14 Cost per copy . \$4.34 Cost tor 1 copy
, , , , , , , , , , , , , , , , , , ,	\$ 4.34 Cost for 1 copy X 500 Number of copies \$2,170 Cost for 500 copies
•	496 Cost for masters +2,170 Cost for 500 masters \$2,666 Total cost
Second Union Catalog	76 Total number of fiche X 16 Cost per master \$1,216 Cost for masters
	76 Total number of fiche X .14 Cost per copy \$10.64 Cost for 1 copy
	10.64 Cost for 1 copy X 500 Number of copies \$5,320 Cost for 500 copies
•	1,216 Cost for masters +5,320 Cost for 500 copies \$6,536 Total Cost
Third Union Catalog	100 Total number of fiche X 16 Cost per master \$1,600 Cost for masters



* 500 COPIES (cont'd)

Document Title	Calculations		
Third Union Catalog (cont'd)	· <u>X 500</u>	Total number of fiche Cost per copy Cost for one copy Cost for 1 copy Number of copies Cost for 500 copies	
, · · · · · · · · · · · · · · · · · · ·	1,600 +7,000 \$8,600	Cost for masters Cost for 500 copies Total cost	

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1000 COPIES

		•
Document Title	-	Calculations
First Union Catalog	31 X 16 \$496	Total number of fiche Cost per master Cost for masters
` . *	31 X .12 \$3.72	Total number of fiche Cost per copy Cost for 1 copy
· •	3.72 X1,000 \$3,720	Number of copies
		Cost for masters Cost for 1,000 copies Total Cost
Second Union Catalog	76 X 16 \$1,216	
	76 X .12 \$9.12	Total number of fiche Cost per copy Cost for 1 copy
	X1,000	Cost for 1 copy Number of copies Cost for 1,000 copies
f ·	+ 9,120	Cost for masters Cost for 1,000 copies Total Cost
Third Union Catalog	X. 16	Total number of fiche Cost per master Cost for masters
	X.12.	Total number of fiche Cost per copy Cost for 1 copy



1000 COPIES (cont'd)

Document Title	. <u>Cal</u>	culations
Third Union Catalog (cont'd)	12	Cost for 1 copy
, ,	X 1,000	Number of copies Cost for 1,000 copies
*	\$ 12,000	Cost for 1,000 copies
	1,600	Cost for masters
•	+12,000	Cost for 1,000 copies
	\$13,600	Total 'cost
<u>u</u>		

SUMMARY

	•	•
First	Union Catalog	
	500 copies 1,000 copies	\$ 2,170 4,216
Seco	and Union Catalog	, ·
	500 copies 1,000 copies	\$ 6,536 \$10,336
Thire	d Union Catalog	
•	500 copies 1,000 copies	\$ 8,600 \$13,600



UNION CATALOG MONTHLY UPDATES MICROFICHE

In addition to providing the annual version of the Union Catalog on microfiche, it is recommended that DBPH provide monthly updates on microfiche. These updates should include all titles added since production of the previous Union Catalog and should cumulate monthly. The format would be identical to that of the Union Catalog with 4 indices in addition to the Author/Title sort. Entries for each sort and index should be interfiled with items from previous months. There should be 12 cumulations produced each year until such time as the entire annual Union Catalog can be cumulated, produced, and distributed within a month of the eleventh monthly cumulation. See charts on Union Catalog Monthly Updates, Microfiche (D-55 through D-57).

The following steps were completed to arrive at the cost of this production:

Step 1.

In order to determine the cost of the monthly updates to the Union Catalog, it was first necessary to arrive at the number of items added each month, the number of pages required for the items, and the number of fiche required for the pages. Basic information concerning the number of titles was obtained from the Selection Section, DBPH, assuming a start date of January, 1977.

The current production projections for DBPH are as follows:

Fiscal Year	Projected DBPH Production
19 <i>7</i> 7	2,700
1978	3,240

New additions to the collections of the network libraries and two affiliated agencies (APH-IMRC and RFP) should also be included in the monthly updates at this point. According to the Selections Section, they received 1,326 copyright requests from the network between April 1974 and March 1975. In order to allow for growth and to cover the 1% of titles for which clearances are requested but not granted, the figure for the network was increased to 1,500 items. According to APH-IMRC, they add approximately 10,000 titles per year of which 4,050 titles are texts from RFB. In addition RFP would contribute 450 titles that are not texts. Thus, total non-DBPH additions are as follows:

Fiscal Year		١	Projected non-DBPH Production		
1977			1,500	Network Titles	
	,		10,000	APH-IMRC Titles	.1
•			+ 450	RFB Titles	,
			\$11,950	Annual Additions	



UNION CATALOG - MONTHLY UPDATES

MICROFICHE

Month Last Entry Issue Date Charged To Number of Entries Cost Updates - January Last working day Second week of the month Fiscal Year 1977 1221 Titles on 1 Fiche of the month \$ 86 Updates - February Same as above Same as above Fiscal Year 1977 2442 Titles on 2 Fiche of the strange			,				
Last working day Second week. Fiscal Year 1977 1221 Titles on 1 Fiche of the month	·	Month	· Ļast Entry Date	Issue Date	Chargéd To	Number of Entries and Fiche	Cost
Same as above Same as above Fiscal Year 1977 2442 Titles on 2 Fiche Same as above Same as above Fiscal Year 1977 3663 Titles on 2 Fiche Same as above Same as above Fiscal Year 1977 4884 Titles on 3 Fiche Same as above Same as above Fiscal Year 1977 6105 Titles on 4 Fiche Same as above Same as above Fiscal Year 1977 7326 Titles on 4 Fiche		Updates – January 1977	Last working day of the month	Second week . of the month	Fiscal Year 1977	1221 Titles on 1 Fiche	\$ 86
Same as above Same as above Fiscal Year 1977 3663 Titles on 2 Fiche Same as above Fiscal Year 1977 4884 Titles on 3 Fiche Same as above Fiscal Year 1977 6105 Titles on 4 Fiche Same as above Fiscal Year 1977 7326 Titles on 4 Fiche		Updates - February	Same as above	Same as above	Fiscal ^{®N} year 1977	2442 Titles on 2 Fiche	\$172
Same as above Same as above Fiscal Year 1977 4884 Titles on 3 Fiche Same as above Fiscal Year 1977 6105 Titles on 4 Fiche Same as above Fiscal Year 1977 7326 Titles on 4 Fiche		Updates - March 1977	Same as above	Same as above		3663 Titles on 2 Fiche	\$17.2
Same as above Same as above Fiscal Year 1977 6105 Titles on 4 Fiche Same as above Same as above Fiscal Year 1977 7326 Titles on 4 Fiche		Updates - April 1977	Same as above	Same as above	Fiscal Year 1977	4884 Titles on 3 Fiche	\$258
Same as above Same as above Fiscal Year 1977 7326 Titles on 4 Fiche	•	Updates - May ? 1977	Same as above	Same as above	Fiscal Year 1977	6105 Titles on 4 Fiche	\$344
		Updates - June 1977	Same as above	Same as above	Fiscal Year 1977	7326 Titles on 4 Fiche	\$344

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UNION CATALOG - MONTHLY UPDATES MICROFICHE (cont'd)

· Month	Last Entry Date	Issue Date	Charged To	Number of Entries and Fiche	Cost
Updates – July . 1977	Last working day of the month	· Second week of the month	Fiscal Year 1977	8547 Titles on 5 Fiche	\$430
Updates - August 1977	Samė as above	Same as above	Fiscal Year 1977	9768 Titles on 5 Fiche	\$430
Updates - September 1977	Same as above	Same as above	Fiscal Year 1977	10989 Titles on 6 Fiche	\$516
			,	Grand Total Fiscal Year 1977	\$2752
A					

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UNION CATALOG - MONTHLY UPDATES

MICROFICHE (cont'd)

				
	\$602	\$602	. 889\$	\$1892
	12255 Titles on 7 Fiche	13521 Titles on 7 Fiche	14787 Titles on 8, Fiche	Partial Total Fiscal Year 1978
	Fiscal Year 1978	Fiscal Year 1978	Fiscal Year 1978	·
	Same as above	Same as above	Same as above	
	Same as above	Same as above	Same as above	g
	Updates - October 1977	Updates - November 1977	Updates - December.	
ļ			. , . 	

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D-57

313

Fiscal Year

1978

Projected non-DBPH Production

1,500 Network Titles
10,000 APH-IMRC Titles
+ 450 RFB Titles
\$11,950

To ascertain the number of titles that should be added during the calendar year 1977, the following calculations were completed:

January 1977 to December 1977 Fiscal Years 1977, 1978

> DBPH Production Calendar Year 1977

> > 2,700 DBPH production, Fiscal 1977 X.75 % of production included

2,025 Number of Fiscal 1977 titles included

3,240 DBPH production, Fiscal 1978

X.25 % of production included:

810 Number of Fiscal 1978 titles included

Non-DBPH Production Calendar Year 1977

11,950 Non-DBPH production, Fiscal 1977

X .75 % of production included

8,962.5 Number of Fiscal 1977 titles included

225 Production per month
9 2,025 DBPH Production Fiscal 1977

Number of months included

995.88 Production per month
9 8,963 Non-DBPH Production Fiscal 1977

Number of months included

270 Production per month
3 810 DBPH Production Fiscal 1978

Number of months included

996 Production per month

3 2,988 Non-DBPH Production Fiscal 1978

Number of months included

Number of Main Entries

Fiscal Year	Month	Calculations
1977	January .	225 DBPH main entries 996 Non-DBPH main entries
.•	February	225 January DBPH main entries +225 Additions 450 DBPH main entries
• •	•	996 January non-DBPH main entries +996 Additions 1,992 Non-DBPH main entries
	March .	1,992 February non-DBPH main entries + 996 Additions 3,984 Non-DBPH main entries
	May	900 April DBPH main entries +225 Additions 1,125 DBPH main entries
	&	3,984 April non-DBPH main entries +996 Additions 4,980 Non-DBPH main entries
	June	1,125 May DBPH main entries + 225 Additions 1,350 DBPH main entries
•	•	4,980 May non-DBPH main entries +996 Additions 5,976 Non-DBPH main entries
•	July	1,350 June DBPH main entries +225 Additions 1,575 DBPH main entries
		5,976 June non-DBPH main entries +996 Additions 6,972 Non-DBPH main entries

iscal Year	Month	Calculations
1977 (cont'd)	August	1,575 July DBPH main entries
		+225 Additions
	· · · · · · · · · · · · · · · · · · ·	1,800 DBPH main entries
	•	6,972 July non-DBPH main entries
		+996 Additions
		7,968 Non-DBPH main entries
	September	1,800 Augüst DBPH main entries
		+225 Additions
	•	2,025 DBPH main entries
		7,968 August non-DBPH main entries
		+996 Additions
		8,964 Non-DBPH main entries
1978	October	2,025 September DBPH main entries
		+270 Additions
•		2,295 DBPH main entries
		8,964 September non-DBPH main entries
•		+996 Additions
		9,960 Non-DBPH main entries
	November .	2,295 October DBPH main entries
		+270 Additions
		2,565 DBPH main entries
		9,960 October non-DBPH main entries
		+996 Additions
	·	10,956' Non-DBPH main entries
	December '	2,565 November DBPH main entries
		+270 Additions
•		2,835 DBPH main entries
¢.	•	10,956 November non-DBPH main entries
		+996 Additions
•	*	11,952 Non-DBPH/main entries



1 SUMMARY

Number of main DBPH '	entries, January:	4	
Non-DBPH			Total 1,221
	entries, February:	•	•
DBPH	450	, '	
Non-DBPH	1,992		Total 2,442
Number of main			
DBPH	. 675 ~		
Non-DBPH	2,988		Total 3,663
Number of main	entries, April:		
DBPH	900		
Non-DBPH	3,984		Total 4,884
Number of main	entries, May:		
DBPH-	1,125		
Non-DBPH	4,980		Total 6, 105
Number of main	entries, June:		
ĎВРН	1,350		
Non-DBP H	5,976	•	Total 7,326
Number of main		,	•
DBPH	1 ,57 5		
Non-DBPH	6,972		Total 8,547
Number of main	entries, August:		
DBPH	1,800		7
Non-DBPH	7,968	•	Total 9,768
	entries, September:		•
DBPH	2,02 5		
Non-DBPH	8,964	,	Total 10,989
	entries, October:		•
DBPH	2,29 5		_
Non-DBP F	9,960		Total 12,255



Number of main entries, November:

DBPH 2,565 Non-DBPH 10,956

Total 13,521

Number of main entries, December.

DBPH 2,835 Non-DBPH 11,952

Total 14,787

NUMBER OF INDEX ENTRIES

TITLE INDEX

Fiscal Year	Month	Calcula	tions
1977	January	1,221 ×.023 28.083	Total entries % of title main entries Number of title main entries
	,	1,221 - 28 1,193	Total entries Number of title main entries Number of title index entries
•	February	2,442 ×.023 56.166	Total entries % of title main entries Number of title main entries
•		- 56	Total entries Number of title main entries Number of title index entries
	March		Total entries % of title main entries Number of title main entries
1			Total entries Number of title main entries Number of title index entries
	April	x.023	Total entries % of title main entries Number of title main entries

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Fiscal Year	Month	Calculations	
1977 (cont'd)		- 112	Total entries Number of title main entries Number of title index entries
	May	×.023	Total entries % of title main entries Number of title main entries
		- 140	Total entries Number of title main entries Number of title index entries
	June	×.023	Total entries % of title main entries Number of title main entries
•	•	- 168	Total entries Number of title main entries Number of title index entries
	July	×.023	Total entries % of title main entries Number of title main entries
	`\		Total entries Number of title main entries Number of title index entries
	August	×.023	Total entries % of title main entries Number of title main entries
	•		Total entries Number of title main entries Number of title index entries
	September	×.023	Total entries % of title main entries Number of title main entries
		- 253	Total entries Number of title main entries Number of title index entries

Fiscal Year	Month	Calculations	
1978	October	12,225 Total entries ×.023 % of title main entries 281.865 Number of title main entries	
•		12,225. Total entries - 282 Number of title main entries 11,973 Number of title index entries	
•	November	13,521 Total entries x.023 % of title main entries 310.983 Number of title main entries	
		13,521 Total entries - 311 Number of title main entries Number of title index entries	
	December	14,787 Total entries x.023 % of title main entries 340.101 Number of title main entries	
		14,787 Total entries - 340 Number of title main entries 14,447 Number of title index entries	

SUMMARY

Number of title index entries in the Author/Title sort:

January	1,193	Entries
February	2,886	
March	3,579	
April	4,772	
May	5,965	
June	7,158	
July	8,350	
August	9,543	
September	10,736	
October	11,973	•
November	13,210	
December	14,447	_

SUBJECT HEADING INDEX

Fiscal Year	Month	Calculations	
1977	January	· 225 ×5.18* 1,165.5	Subject headings per title
•		125 ×1.6* 200	Network main entries Subject headings per title Network Subject Index entries
	•	871 <u>× 1</u> * 871	Agency main entries Subject headings per title Agency Subject Index entries
· .		1,166 200 + 871 2,237	•
	February	450 ×5.18 2,331	DBPH main entries Subject headings per title DBPH subject headings per title
•		250 ×1.6 400	Network main entries Subject headings per title Network Subject Indèx entries
		1,742 x 1 1,742	Subject headings per title
٠ .		2,331 400 +1,742 4,473	DBPH Subject Index entries Network Subject Index entries Agency Subject Index entries Total entries

*Please see pages 7. and 26 for a description of how these figures were arrived at.

		•
Fiscal Year	Month	Calculcations
1977 (cont'd)	March .	675 DBPH main entries x5.18 Subject headings per title 3,496.5 DBPH Subject Index entries
ij		375 Network main entries x1.6 Subject headings per title 600 Network Subject Index entries
,		2,613 Agency main entries x 1 Subject headings per title 2,613 Agency Subject Index entries
	,	3,497 DBPH Subject Index entries 600 Network Subject Index entries +2,613 Agency Subject Index entries 6,710 Total entries
	April	900 DBPH main entries x5.18 Subject headings per title 4,662 DBPH Subject Index entries
,		500 Network main entries x1.6 Subject headings per title 800 Network Subject Index entries
		3,484 Agency main entries x 1 Subject headings per title 3,484 Agency Subject Index entries
J	,	4,662 DBPH Subject Index entries 800 Network Subject Index entries +3,484 Agency Subject Index entries 8,946 Total entries
, *	May	1,125 DBPH main entries x5.18 Subject headings per title 5,827.5 DBPH Subject Index entries
,		625 Network main entries x1.6 Subject headings per title 1,000 Network Subject index entries
		4,355 Agency main entries x 1 Subject headings per title 4,355 Agency Subject Index entries

Fiscal Year	Month		<u>Calculaations</u>
1977 (confd)	•	5,828 1,000 +4,355 11,183	DBPH Subject Index entries Network Subject Index entries Agency Subject Index entries Total entries
	June (1,350 ×5.18 6,993	DBPH main entries Subject headings per title DBPH Subject Index entries
		750 ×1.6 1,200	Network main entries Subject headings per title Network Subject Index entries
	``	5,226 x 1 5,226	Agency main entries Subject headings per title Agency Subject Index entries
		6,993 1,200 +5,226 13,419	DBPH Subject Index entries Network Subject Index entries Agency Subject Index entries Total entries
	July	1,575 ×5.18 8,158.5	DBPH main entries Subject headings per title DBPH Subject Index entries
		875 ×1.6 1,400	
			Agency main entries Subject headings per title Agency Subject Index entries
•		8,159 1,400 +8,097 15,656	Network Subject Index entries
1	August	1,800 ×5.18 9,324	DBPH main entries Subject headings per title DBPH Subject Index entries

Fiscal Year	Month		Calculcations
1977 (cont'd)		1,000 ×1.6 1,600	Subject headings per title
	·	× 1	Agency main entries Subject headings per title Agency Subject Index entries
۰		9,324 1,600 +6,968 17,892	Network Subject Index entries Agency Subject Index entries
*	September	2,025 ×5.18, 10,489.5	Subject headings per title
		x1.6 1,800	
		7,839 x 1 7,839	
1		10,490 1,800 +7,839 20,129	Natwork Subject Index entries
1978 .	October .	2,295 ×5.18 11,888.1	, , ,
		1,250 ×1.6 2,000	Subject headings per title
			Agency main entries Subject headings per title Agency Subject Index entries



	1	
Month .		Calculcations
garan (11,888 2,000 +8,710 22,598	DBPH Subject Index entries Network Subject Index entries Agency Subject Index entries Total entries
November	2,565 ×5.18 13,286.7	DBPH main entries Subject headings per title DBPH Subject Index entries
	1,375 ×1.6 2,200	Network main entries Subject headings per title Network Subject Index entries
		Agency main entries Subject headings per title Agency Subject Index entries
•	13,287 2,200 +9,581 25,068	DBPH Subject Index entries Network Subject Index entries Agency Subject Index entries Total entries
December	2,835 ×5.18 14,685.3	DBPH main entries Subject headings per life DBPH Subject Index entries
	1,500 ×1.6 2,400	
	10,452 × 1 10,452	Agency main entries Subject headings per title Agency Subject Index, entries
	14,685 2,400 +10,452 27,537	Network Subject Index entries Agency Subject Index entries

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Fiscal Year

1978 (cont'd)

SUMMARY

Number of Subject Index entries:

January	.2 , 237
February	4,47.5
March	6,710
April	8,946
May	11, 183
June	13,419
July	15,656
A ug us t	17,892
September	20, 129
October	22,598
November	25, 968
December	27,537

DBPH BOOK NUMBER INDEX

Fiscal Year	- Month	Calculations
1977	January *	225 DBPH main entries x 1 Book numbers per item 225 Total entries
-	February	450 DBPH main entries x 1 Book numbers per item 450 Total entries
	March	675 DBPH main entries x 1 Book numbers per item 675 Total entries
•	April .	900 DBPH main entries x 1 Book numbers per item 900 Total entries
	May	1,125 DBPH main entries x 1 Book numbers per item 1,125 Total entries



Fiscal Year	Month	•	Calculcations
1977 (cont'd)	June .	1,350 × 1 1,350	
	July	1,575 × 1 1,575	
, in the second	August	1,800 × 1 1,800	DBPH main entries Book numbers per item Total entries
	September	$2,025$ $\times 1$ $2,025$	Book numbers per item.
1978	October	$\frac{2,295}{\times 1}$ $\frac{1}{2,295}$	Book numbers per item
•	November	$\frac{2,565}{\times 1}$	and the second
	December	2,835 × 1 2,835	DRPH main entries Book numbers per item Total entries

SUMMARY

Number of DBPH Book Number Index entries:

January	22 5
February	450
March	. 675
April	900
May	1,125
June	1,350
July	1,575
August	1,800
September	2,025
October	2,295
November	2,565
December	2 835



NARRATOR INDEX

Fiscal Year	Month	Calcula	tions
1977	January	225 ×.66 148.5	DBPH main entries Narrators per title Total entries
	February	450 ×.66 297	DBPH main entries Narrators per title Total entries
·	March	675 ×.66 445.5	
	April .	900 ×.66 594	DBPH main entries Narrators per title. Total entries
	May	1,125 ×.66 742.5	DBPH main entries Narrators per title Total entries
•	June	1,350 ×.66 891	DBPH main entries Narrators per title Total entries
	July	1,575 ×.66 1,039.5	DBPH main entries Narrators per title Total entries
	August	1,800 ×.66 1,188	DBPH main entries Narrators per title Total entries
	September	2,025 x.66 1,336:5	DBPH main entries Narrators per title Total entries

Fiscal Year	Month		Calculcations
1978	October .	x.66	DBPH main entries Narrators per title Total entries
,	November	ו66	DBPH main entries Narrators per title Total entries
¢ -	December	x.66 1,871.1 (See meth	DBPH main entries Natrator per title Total entries nod of calculating narrators e, page 27)

SUMMARY

Number of Narrator Index entries:

January	149
February	297
March	446
April	594
May	743
June	- 891
July	1,040
August	1, 188
September	1,337
October	1,515
November	1,693
December	1,871

DEWEY NUMBER INDEX

The main entry figure used has been reduced by APH-IMRC's monthly production since they do not list Dewey numbers.

Fiscal Year	Month	Calculations
1977	Januářy	388 Total main entries × 1 Dewey numbers per title 388 Total entries



Fiscai Year	Month	Calculcations
1977 (cont'd)	February	1,609 Total main entries x .1 Dewey numbers per title 1,609 Total entries
	March	2,830 Total main entries x 1 Dewey numbers per title 2,830 Total entries *
ı	April	4, 1 Total main entries x 1 Dewey numbers per title 4,051 Total entries
,	May	5,272 Total main entries x 1 Dewey numbers per title 5,272 Total entries
	June	6,493 Total main entries x 1 Dewey numbers per title 6,493 Total entries
	July	7,714 Total main entries x 1 Dewey numbers per title 7,714 Total entries
1	August	8,935 Total main entries x 1 Dewey numbers per title 8,935 Total entries
!	September	10,156 Total main entries x 1 Dewey numbers per title 10,156 Total entries
1978	October	11,422 Total main entries x 1 Dewey numbers per title 11,422 Total entries
	November	12,688 Total main entries x 1 Dewey numbers per title 12,688 Total entries
	December	13,954 Total main entries x 1 Dewey numbers per title 13,954 Total entries
		•

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SUMMARY

Number of Dewey Number Index entries:

January	388
February	1,609
March	2,830
April	4,051
May	5,272
June	6,49,3
July	7,714
August	8,935
September	10,156
October	11,422
November	12,688
December	13,954

Since the items just calculated will eventually become part of the Third Union Catalog, per page entry counts for each type of entry were taken from calculations for the print edition of the Third Union Catalog. Using these figures the following total page counts were derived:

MAIN-ENTRIES

Fiscal Year	Month	Calculations
1977	January	18.75 Pages for DBPH entries
		DBPH main
		entries per page
		55.33 Pages for non-DBPH entries
	•	18 996 Non-DBPH main entries
		nun-DBPH main
•		entries per page
	*	37.5 Pages for DBPH entries
	February	12 450 DBPH main entries
		DBPH main
		entries per page

331

.D-75



Calculations Fiscal Year Month 1977 February 110.66 Pages far nan-DBPH entries 18 1992 Non-DBPH main entries (cont'd) (cant'd) nan-DBPH main entries per page 56.25 Pages for DBPH entries 12 675 DBPH main entries March DBPH main entries per page 166 Pages far non-DPPH entries 18 2988 Non-DBPH main entries non-DBPH main entries per page 75 Pages for DBPH entries 12 900 DBPH main entries April DBPH main entries per page 221.33 Pages for non-DBPH entries 18 3984 Non-DBPH main entries non-DBPH main entries per page 93.75 Pages for DBPH entries 12 1125 DBPH main entries May DBPH main entries per page 276.66 Pages for non-DBPH entries. 18 4980 Non-DBPH main entries non-DBPH main entries per page 112.5 Pages for DBPH entries

232

DBPH main . entries per page

12 1350 DBPH main entries

June

Fiscal Year	Month *	Calculations
1977 (cont'd)	June (cont'd)	332 Pages for non-DBPH entries 18 5976 Non-DBPH main entries non-DBPH main entries per page
	July	131.25 Pages for DBPH entries 12 1575 DBPH main entries DBPH main entries per page
	,	387.33 Pages for non-DBPH entries 18 6972 Non-DBPH main entries non-DBPH main entries per page
3 . — 1	August	150 Pages for DBPH entries 12 1800 DBPH main entries DBPH main entries per page
		442.66 Pages for non-DBPH entries 18 7968 Non-DBPH main entries non-DBPH main entries per page
· ·	September	168.75 Pages for DBPH entries 12 2025 DBPH main entries DBPH main entries per page
	,	498 Pages for non-DBPH entries 18 8964 Non-DBPH main entries non-DEPH main entries per page
<i>)</i> 1978 ·	October	191.25 Pages for DBPH entries 12 2295 DBPH main entries DBPH main entries per page



Fiscal Year

Month

Calculations

October
(cont'd)

October
(cont'd)

18 9960 Non-DBPH main entries
non-DBPH main
entries per page

November,

213.75 Pages for DBPH entries

12 2565 DBPH main entries

DBPH main entries per page

608.66 Pages for non-DBPH entries
18 10956 Non-DBPH main entries
non-DBPH main
entries per page

December

236.25 Pages for DBPH entries

1212835 DBPH main entries
DBPH main

DBPH main entries per page

664 Pages for non-DBPH entries
18 11952 Non-DBPH main entries
non-DBPH main
entries per page

SUMMARY

Pages required for main entries:

January	DBPH Non-DBPH	19 56	Total 75
February	DBPH Non-DBPH	38 111	Total 149
March ·	DBPH Non-DBPH	<i>57</i> 166	Total 223
April	DBPH ∖∝Non ~ DBPH	75 22 2	Total 297

334

D-78



•	May	DBPH Non-DBPH	94 277	Total 371
•	June	DBPH Non-DBPH	113 332	Total 445
	July	DBPH	132	,0,0,
		Non-DBPH	388	Total 520
	August	DBPH Non-DBPH	150 443	Total 593
	September	DBPH	169	
	ocpromoor.	Non-DBPH	498	Total 667
	October	DBPH Non-DBPH	192 554	Total 746
	November	DBPH	214	
		Non-DBPH	609	Total 823
	December	DBPH	237	
		Non-DBPH	664	Total 901

TITLE ENTRIES

iscal Year	Month	Calculations
1977,	January	19.88 Pages 60 1193 Title Index entries Title index
		entries per pagê
,	February	39.76 Pages 60 2386 Title Index entries Title index entries per page
•	March	59.65 Pages 60 3579 Title Index entries Title index entries per page



Fiscal Year	Month	Calculations
1977 (cont'd)	April	79.53 Pages 60 4772 Title Index entries Title index entries per page
;	May `	99.41 Pages 60 5965 Title Index entries Title index entries per page
	June	119.3 Pages 60 7158 Title Index entries Title index entries per page
•	July	
	August	159.05 Pages 60 9543 Title Index entries Title index entries per page
	September	178.93 Pages 60 10736 Title Index entries Title index entries per page
1978	October	199.55 Pages 60 11973 Title Index entries Title index entries per page
	November	220.16 Pages 60 13210 Title Index entries Title index entries per page

Fiscal 'Year

Month

Calculations

1978 (cont'd) December

240.78 Pages 60 14447 Title Index entries

Title index entries per page

SUMMARY

Pages required for title index entries:

20
40
60
80
100
120
140
160
1 <i>7</i> 9
200
221
241

SUMMARY

Total pages required for Author/Title sort:

January		95
February		189
March		283
April		377
May		471
June		56 5
July		660
August		753
September		846
October		946
November	7	1,044
December	J	1,142



SUBJECT HEADING INDEX

•		•
Fiscal Year	Month	Calculations
1977	January	46.60 Pages
	·	48 2237 Total entries
		Entries
		· per page
• •	•	93.18 Pages
A.	February	48 4473 Total entries
•	3	Entries
,		per page
		139.79 Pages
	March	48 6710 Total entries
. **		Entries
		per page
•		186.37 Pages
	April	48 8946 Total entries
-		Entries
•		per page
•		232.97 Pages
	14	48 11783 Total entries
•	May	Entries
	-	₹ per page
		•
•		279.56 Pages
	June	48 13419 Total entries
•		Entries
		per page
		326.16 Pages
Y	July	48 15656 Total entries
	·	Entries
		per page
,		372.75 Pages
•	August	48 17892 Total entries
x		Entries ·
•	•	per page
•		43 C #3

Fiscal Year	Month	<u>Calculations</u>
1977 (cont'd)	September ′	419.35 Pages 48 20129 Total entries Entries per page
1978	October	470.79 Pages 48 22598 Total entries Entries per page
	November	522.25 Pages 48 25068 Total entries Entries per page
	December	573.68 Pages 48 27537 Total entries Entries per page

SUMMARY

Pages required for Subject Heading Index:

	•
	47
۰	94
	140
	187
	233
	280
	327
	373
	420
	471
	523
	574,
	•

DBPH Book Number Index

Fiscal Year	Month	Calculations.
1977	January	3.75 Pages 60 225 Total entries
		Entries
		per page
		. 7 E D
	February	7.5 Pages 60 450 Total entries
·		Entries
	•	per page
	March	11.25 Pages
_	77(0) 011	60 675 Total entries
		Entries
		per page
	A •1	15 Pages
	April	60 900 Total entries
		Entries
	·	per page
		1
Ser.	May	18.75 Pages 60 1125 Total entries
· · · · · · · · · · · · · · · · · · ·		Entries
•	,	per page
	• ,	22.5 Pages
	June	60 1350 Total entries
		Entries
		per j page
	July	26.25 Pages 60 1575 Total entries
		Entries
		per page.
		ho: 6-30.
	August	30 Pages
		60 1800 Total entries
	;	Entries
		per page

DBPH Book Number Index

Fiscal Year Month 33.75 Pages September 1977 60 2025 Total entries 'Entries per page · 38.25 Pages 1978 October 60 2295 Total entries **Entries** per page 47.25 Pages November 60 2835 Total entries **Entries** per page 47.25 Pages December. 60 2835 Total entries **Entries** per page

Summary

Pages required for DBPH Book Number Index:

January .	4
February	8
March	/12
April	15
May	19
June	23
July	27
August	30
September	. 34
October	39
November	43
December -	48
_	

Narrator Index

Fiscal Year 1977 Month January Calculations
3.10 Pages
48 149 Total entries
tries

; Entries , per page

3.12 D-85



Narrator Index

Fiscal Year 1977	Month February	Calculations 6.18 Pages 48 297 Total entries Entries per page
	March ,	9.29 Pages 48 446 Total entries Entries per page
	April	12.37 Pages 48 594 Total entries Entries per page
	May ·	15.47 Pages 481743 Total entries Entries per page
	June ,	18.56 Pages 48 891 Total entries Entries per page
•	July	21.66 Pages 48 1040 Total entries Entries per page
, • •	August	24.75 Pages 48 1188 Total entries Entries per page
	September	27.85 Pages 48 1337 Total entries Entries per page

ERIC

34%

Calculations Fiscal Year Month 31.56 Pages 1978 October. 48 1515 Total entries **Entries** per page 35.27 Pages November 48 1695 Total entries Entries per page 38.97 Pages 48 1871 Total entries December Entries per page

Summary

Page: required for Narrator Index:

January .	4
February	7
March	10
April` ·	13
May	16
June	19
July	22
August	25
September	28
October	32
November	36
December	*39

Dewey Number Index

Fiscal Year

1977

Month

January

8.08 Pages

48 [388 Total entries
Entries
per page



Fiscal Year	Month	Calculations
1977 (cont'd)	February	33.52 Pages 48 1609 Total entries Entries per page
,	March	58.95 Pages 48 2830 Total entries Entries per page
	April	84.39 Pages 48 4051 Total entries Entries per page
	, May	109.83 Pages 48 5272 Total entries Entries per page
•	June	135,27 Pages 48 <mark>6493 T</mark> otal entries Entries per page
· ·	Julv	160.70 Pages 48 7714 Total entries Entries per page
*	August	186.14 Pages 48 8935 Total entries Entries per page
•	September	211.58 Pages 48 110156 Total entries Entries per page

ERIC Front Boat Provided by ERIC

Fiscal Year	Month	Calculations
1978	October	237.95 Pages 48 11422 Total entries Entries per page
i.	November	264.33 Pages 48 12688 Total entries Entries per page
•	December	290.70 Pages 48 13954 Total entries Entries per page

Summary

Pages required for Dewey Number Index:

January	9
February	34
March	59
April	85
May	110
June	136
July	161
August	187
September	212
October	238
November	265
December	291

Summary

Total pages per month:

January	64
February	143
March	221
April ,	300
May (378
June	458
July	537
August	615
September	694
October	780
November	867
December	952

Summary

Total pages per month:

¥./	
January	159
February	332
March	504
April	677
May	849
June	1023
July	1197
August	1368
September	1540
October	1726
November	1911
December	2094

As stated when describing calculations of the microfiche version of the Union Catalog, it will be necessary to change the type size and the page format in order to film the catalog with sufficient resolution. This should result in a 17% increase in the page count. Thus, the total page count per month should be:

<u>Fiscal Year</u> 1977	<u>Month</u> January	Calculations 159 Pages per month x .17 % of increase 27.03 Increase in pages
		159 Pages per month + 27 Increase in pages 186 Total pages
	February (332 Pages per month × .17 % of increase 56.44 Increase in pages
		332 Pages per month + 56 Increase in pages 388 Total pages
	March	504 Pages per month x .17 % of increase 85.68 Increase in pages
		504 Pages per month + 86 Increase in pages 590 Total pages
1	April	677 Pages per month x .17 % of increase 115.09 Increase in pages
		677 Pages per month + 115 Increase in pages 792 Total pages
	May	949 Pages per month × .17 % of increase 144.33 Increase in pages
5		849 Pages per month + 144 Increase in pages 993 Total pages



Fiscal Year	Month *	Calculcations
1977	June	1023 Pages per month x .17 % of increase 173.91 Increase in pages
		1023 Pages per month + 174 Increase in pages 1197 Total pages
	July	1197 Pages per month × .17 % of increase 203.49 Increase in pages
·		1197 Pages per month + 203 Increase in pages 1400 Total pages
•	August	1368 Pages per month x .17 % of increase 232.56 Increase in pages
4		1368 Pages per month + 233 Increase in pages 1601 Total pages
•	^ September	7540 Pages per month × .17 % of increase 261.8 Increase in pages
0		1540 Pages per month + 262 Increase in pages 1802 Total pages
1978	October	1726 Pages per month x .17 % of increase 273.42 Increase in pages
		1726 Pages per month + 293 Increase in pages 2019 Total pages
	November	1911 Pages per month x .17 % of increase 324.87 Increase in pages
	· • •	3.3

Fiscal Year	Month	Calculations
1978	November	1911 Pages per month + 325 Increase in pages 2236 Total pages
	December	2094 Pages per month x .17 % of increase 355.98 Increase in pages
,	Summary	2094 Pages per month + 356 Increase in pages 2450 Total pages

Final total pages per month:

January	186
February	388
March	590
April	792
May	993
June	1197
July	1400
August	1601
September	1802
October	2019
November	2236
December	2450

According to industry COM standards, there are 325 frames or pages per fiche. Consequently, the monthly fiche requirement would be:

Fiscal Year	<u>Month</u>	<u>Calculations</u>
		.57 Fiche per month
1977	January	325/186 Total pages
		Frames
		per fiche
,		1.19 Fiche per month
	February	325/388 Total pages
	•	Frames
	,	per fiche



Fiscol Yeor	Month	Colculcotions
1977	Morch	1.81 Fiche per month 325/590 Total Pages Fromes per fiche
	April	2.43 Fiche per month 325/792 Total pages Frames per fiche
•	May	3.05 Fiche per month 325/993 Total pages Fromes per fiche
-	June	3.68 Fiche per month 325/1197 Total pages Frames per fiche
	July	4.30 Fiche per month 325/1400 Total pages Frames per fiche
	August	4.92 Fiche per month 325/1601 Total pages Frames per fiche
	September	5.54 Fiche per month 325/1802 Totol pages Fromes per fiche
1978	October	6.21 Fiche per month 325/2019 Total pages Frames per fiche
	November	6.88 Fiche per month 325/2236 Total pages Frames per fiche
	<i>a</i> .	350

O



Month
Calculations

7.53 Fiche per month
325/2450 Total pages
Frames
per fiche

Summary

Number of fiche per month:

January		1
February		2
March		2
April		3
May		4
June		4
July		5
August		5
September	(6
October	ł	7
November		7,
December		8
	•	

Step 2. Having found the number of fiche per month, the cost of each monthly update can be calculated. Costs for both 500 and 1000 copies were calculated.

500 Copies

Fiscal Year Month
1977 January

Calculations
1 Total number of fiche

x 16 Cost per master

\$ 16 Cost for masters

1 Total number of fiche

x.14 Cost per copy

\$.14 Cost for 1 copy

.14 Cost for 1 copy ×500 Number of copies \$ 70 Cost for 500 copies

بالكاف أرّ.

Fiscal Year	Month	Calculations
1977 (cont'd)		16 Cost for masters + 70 Cost for 500 copies \$ 86 Total Cost
	February	2 Total number of fiche x 16 Cost per master \$ 32 Cost for masters
		2 Total number of fiche x.14 Cost per copy \$.28 Cost for 1 copy
	•	.28 Cost for 1 copy x500 Number of copies \$140 Cost for 500 copies
	<i>;</i>	32 Cost for masters +140 Cost for 500 copies \$172 Total cost
•	March	2 Total number of fiche x 16 Cost per master \$ 32 Cost for masters
	•	2. Total number of fiche x.14 Cost per copy \$.28 Cost for 1 copy
રું		.28 Cost for 1 copy x500 Number of copies \$140 Cost for 500 copies
		32 Cost for masters +140 Cost for 500 copies \$172 Total cost
	April	3 Total number of fiche × 16 Cost per master \$ 48 Cost for masters,
•		3 Total number of fiche x.14 Cost per copy \$.42 Cost for 1 copy

Fiscal Yeor	Month .	Cale	culations
1977 (cont'd)		×500	Cost for 1 copy Number of copies Cost for 500 copies
		48 ° +210	Cost for masters Cost for 500 masters Total Cost
	May	× 16	Total number of fiche Cost per master Cost for masters
		x.14	Total number of fiche Cost per copy Cost for 1 copy
		×500	Cost for 1 copy Number of copies Cost for 500 copies
		+280	Cost for masters Cost for 500 cópies ~ Total Cost
	June	x 16	Total number of fiche Cost per master Cost for masters
		x.14	Total number of fiche Cost per copy Cost for I copy
	•	×500	Cost for 1 copy Number of copies Cost for 500 copies
		+280	Cost for masters Cost for 500 copies Total cost

Fiscal Year	Month	Cal	culations
1977 (cont'd)	July	x 16	Total number of fiche Cost per master Cost per master
	•	x.14	Total number of fiche Cost per copy Cost for 1 copy
		×500	Cost for 1 copy Number of copies Cost for 500 copies
		+350	Cost for masters Cost for 500 copies Total Cost
	August ,	x 16	Total number of fiche Cost per master Cost for masters
		x.14	Total number of fiche Cost per copy Cost for 1 copy
		×500	Cost for 1 copy Number of copies Cost for 500 copies
		+350	Cost for masters Cost for 500 copies Total Cost
,	September	x 16	Total number of fiche Cost per master Çost for masters
		x.14	Total number of fiche Cost per copy Cost for 1 copy

Fiscol Year	Month	Colculations
1977 (cont'd)	كسسر	.84 Cost for 1 copy x500 Number of copies \$420 Cost for 500 copies
•	•	96 Cost for mosters +420 Cost for 500 copies \$516 Total Cost
19 7 8 .	October	7 Total number of fiche × 16 Cost per moster \$112 Cost for mosters
•	,	7 Total number of fiche x.14 Cost per copy 5.98 Cost for 1 copy
		.98 Cost for 1 copy ×500 Number of copies \$490 Cost for 500 copies
	,	112 Cost for mosters +490 Cost for 500 copies \$602 Total cost
	November `	7 Total number of fiche x 16 Cost per moster \$112 Cost for mosters
		7 Total number of fiche x.14 Cost per copy \$.98 Cost for 1 copy
	, , , ,	.98 Cost for 1 copy x500 Number of copies \$490 Cost for 500 copies
		112 Cost for mosters +490 Cost for 500 copies \$602 Total Cost
	Dècember	8 Total number of fiche x 16 Cost per muster \$128 Cost for mosters .

Fiscal Year	Month	Calculations
1978 (cont'd)	-	8 Total number of fiche ×.14 Cost per copy \$1.12 Cost for 1 copy
•		x500 Number of copies \$560 Cost for 500 copies
		128 Cost for masters +560 Cost for 500 copies \$688 Total Cost

1000 Copies

	1000 Cop	ores	•
Fiscal Year	Month		Calculations
1977	January	× 16	Total number of fiche Cost per master Cost for masters,
			Total number of fiche Cost per copy Cost for 1 copy
		×1000	Cost for 1 copy Number of copies Cost for 1000 copies
	February	' × 16	Total number of fiche Cost per master Cost for masters
		′ ×.12	Total number of fiche Cost per copy Cost for 1 copy
	. •	×1000	Cost for 1 copy Number of copies Cost for 1000 copies
٠	,		Cost for masters Cost for 1000 copies Total Cost



Fiscol Ye.,	Month	Calculotions
1977 (cont'd)	Morch	2 Total number of fiche x 16 Cost per moster \$ 32 Cost for masters
		2 Total number of fiche x.12 Cast per copy \$.24 (as) for 1 copy
,		.24 Cost for 1 copy x1000 Number of copies \$ 240 Cost for 1000 copies
	· · · · · · · · · · · · · · · · · · ·	32 Cost for mosters +240 Cost for 1000 copies \$272 Total cost
	April	3 Total number of fiche x 16 Cost per moster \$ 48 Cost for masters
	,	3 Total number of fiche x.12 Cost per copy \$.36 Cost for 1 copy
		 .36 Cost for 1 copy x1000 Number of copies \$ 360 Cost for 1000 copies
		48 Cost for moster +360 Cost for 1000 copies \$408 Total cost
	Moy	4 Total number of fiche x 16 Cost per moster 64 Cost for mosters
		4 Total number of fiche x.12 Cost per copy \$.48 Cost for 1 copy
		.48 Cost for 1 copy x1000 Number of copies \$ 480 Cost for 1000 copies



Fiscal Year	Month	Calculations
1977 (cont'd)		64 Cost for masters +480 Cost for 1000 copies \$544 Total cost
	June	4 Total number of fiche x 16 Cost per master \$ 64 Cost for masters
		4 Total number of fiche x.12 Cost per copy \$.48 Cost for 1 copy
		.48 Cost for 1 copy ×1000 Number of copies \$ 480 Cost for 1000 copies
·		64 Cost for masters +480 Cost for 1000 copies \$544 Total cost
•	July	5 Total number of fiche x 16 Cost per master \$ 80 Costs for masters
•		5 Total number of fiche ×.12 Cost per copy \$.60 Cost for 1 copy
,		.60 Cost for 1 copy ×1000 Number of copies \$ 600 Cost for 1000 copies
		80 Cost for masters +600 Cost for 1000 copies \$680 Total cost
	August	5 Total number of fiches x 16 Cost per master \$ 80 Cost for masters
		5 Total number of fiche x.12 Cost per copy \$.60 Cost for 1 copy

Fiscal Year	Month	Colculations	
1977 (cont'd)		.60 Cost for 1 copy x1000 Number of copies \$ 600 Cost for 1000 copies	
		80 Cost for mosters +600 Cost for 1000 copies \$680 Total cost	
	September	6 Total number of fich x 16 Cost per master \$ 96 Cost for masters	е
` ·	•	6 Total number of fich x.12 Cost per copy \$.72 Cost for 1 copy	е
		.72 Cost for 1 copy x1000 Number of copies \$ 720 Cost for 1000 copies	
		96 Cost for masters +720 Cost for 1000 copies \$816 Total cost	
1978	October	7 Total number of fich x 16 Cost per master \$112 Cost for masters	е
		7 Total number of fich x.12 Cost per copy \$.84 Cost for 1 copy	е
		.84 Cost for 1 copy x1000 Number of copies \$ 840, Cost for 1000 copies	
		112 Cost for masters +840 Cost for 1000 copies \$952 Total cost	





Fiscal Year	Month	Calculations
1978 (cont'd)	November	7 Total number of fiche x 16 Cost per master \$112 Cost for masters
		7 Total number of fiche x.12 Cost per copy \$.84 Cost for 1 copy
		.84 Cost for 1 copy x1000 Number of copies \$ 840 Cost for 1000 copies
		112 Cost for masters +840 Cost for 1000 copies \$952 Total cost
:	December	8 Total number of fiche x 16 Cost per master \$128 Cost for masters
1		8 Total number of fiche x.12 Cost per copy \$.96 Cost for 1 copy
	· ·	 .96 Cost for 1 copy x1000 Number of copies \$ 960 Cost for 1000 copies
		128 Cost for masters +960 Cost for 1000 copies \$1088 Total cost

0

Summary

Cost of monthly updates of the Union Catalog:

January 1977	500 copies	\$ 86
,	1000 copies	\$ 136
February	500 copies	\$ 172
,	1000 copies	\$ 272
March	500 copies	\$ 172
	1000 copies	\$ 272
April	500 copies	\$ 258
•	1000 copies	\$ 408
May	500 copies	\$ 344
•	1000 copies	. \$ 544
June	500 copies	\$ 344
	1000 copies	
July	500 copies	\$ 544 \$ 430
	1000 copies	
August	500 copies	\$ 680 \$ 430 \$ 680 \$ 516 \$ 816
•	1000 copies	\$ 680
September	500 copies	\$ 516
	1000 copies	\$ 816
October	500 copies	\$ 602
	1000 copies	\$ 952
November	500 copies	\$ 602
•	1000 copies	\$ 952
December	500 copies	\$ 688
	1000 copies	\$1.088

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LIBRARY UNION MONTHLY PRODUCTION (WMP)

In addition to providing a print and microfiche version of the Union Catalog along with its monthly updates, a microfiche version of the in-process file should be provided. A description of its contents is given on page IV-51 of Chapter 4. To insure the timeliness of the information generated it should be issued monthly on COM. Calculations were started with July 1976 since the anticipated date of completion of the in-process subsystem is that month and year. In order to calculate its size and the cost of production, the following steps were completed. See chart on Schedule – LUMP, Microfiche (D-107 through D-110).

Step 1. In order to ascertain the size of the file, actual and projected copyright clearance figures were obtained from the Selections Section of DBPH. It was estimated that DBPH would attempt to clear 300 more copyrights per year than the actual expected production in order to allow for possible rejections and/or delays.

Fiscal Year	Projected DBPH Production	Projected Copyright Requests
1976	2500	2800
1977	2700	3000
1978	3240	3540

In addition, starting in the first year of production network copyright requests should also be included in the list. An estimate of 1500 non-DBPH copyright requests has been used to project the size of LUMP. The Selections Section of DBPH indicated that they cleared 1326 copyrights between April 1974 and March 1975. In order to allow for some growth and to cover the 1% of the titles for which clearance is requested but not granted, the figure was increased to 1500. Using these base figures, the following calculations were performed:

July 1976 to December 1976 Fiscal Years 1976, 1977

2800 Projected DBPH Copyright Requests x.25% of Fiscal Year Requests Included

700 DBPH Clearances Requested - Fiscal 1976

;



262

SCHEDULE - LUMP

MICROFICHE

Cost	\$81.84	\$81.84	e \$81.84	\$245,52
Number of Entries and Fiche	358 Titles on 1 Fiche	716 Titles on 1 Fiche	1074 Titles on 1 Fiche	Grand Total Fiscal Year 1976
Charged To	Fiscal Year 1976	Fiscal Year 1976	Fiscal Year 1976	
Issue Date	Third week of the month	Same as above	Same as above	
Last Entry Date	Last working day of the month	Same as above	Same as above	
Month	LUMP - July 1976	LUMP - August 1976	11JMP - September 1976	

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SCHEDULE - LUMP
MICROFICHE (cont'd)

Month	Last Entry Date	Issue Date	Charged To	Number of Entries and Fiche	Cost
LUMP - October 1976	Same as above	Same as above	Fiscal Year 1977	1449 Titles on 1 Fiche	\$81.84
LUMP - November 1976	Same as above	Same as above	Fiscal Year 1977	1824 Titles on 1 Fiche	\$81.84
LUMP - December 1976	Last working day of the month	Third week of the month	Fiscal Year 1977	2199 Titles on 1 Fiche	\$81.84
LUMP - January 1977	Same as above	Same as above	Fiscal Yes 1977	2574 Titles on 1 Fiche	\$81.84
LUMP - February 1977	Same as above	Same as above	Fiscal Year 1977	2949 Titles on 2 Fiche	\$163.68
LUMP - March 1977	Same as above	Same as above	Fiscal Year 1977	3324 Titles on 2 Fiche	\$163.68

SCHEDULE - LUMP

MICROFICHE (cont'd)

		i -		1	1		,
Cost	\$163,68	89' 89' \$	\$163.68	\$163.68	\$163.68	\$245.52	\$1718.64
Number of Entries and Fiche	3699 Titles on 2 Fiche	4074 Titles on 2 Fiche	4449 Titles on 2 Fiche	4824 Titles on 2 Fiche	5199 Titles on 2 Fiche	5574 Titles on 3 Fiche	Grand Total for Fiscal Year 1977
Charged To	Fiscal Year 1977	Fiscal Year 1977	Fiscal Year 1977	Fiscal Year 1977	Fiscal Year 1977	Fiscal Year 1977	
Issue Date	Same as above	Same as above	Third week of the month	Same as above	Same as above	Same as above	
Last Entry Date	Same as above	Same as above	Last working day of the month	Same as above	Same as above	Same as above	
Month	LUMP - April 1977	LUMP - May 1977	LUMP - June 1977	LUMP - July 1977	LUMP - August 1977	LUMP - September 1977	
			D-109		-		[
		,)		+	- ; '		•



SCHEDULE - LUMP MICROFICHE (cont'd)

	.52	.52	.52	38
Cost	\$245.52	\$245.52	\$245.52	\$736.56
Number of Entries and Fiche	5994 Titles on 3 Fiche	6414 Titles on 3 Fiche	6834 Titles on 3 Fiche	Partial Total Fiscal Year 1978 `
	\			
Charged To	Fiscal Year 1978	Fiscal Year 1978	Fiscal Year 1978	
Issue Date	Same as above	Same as above	Same as above	
Last Entry Date	Same as above	Same as above	Same as above	
Month	LUMP - October 1977	LUMP - November 1977	LUMP - December 1977	

3000 Projected DBPH Copyright Requests

×.25 %of Fiscal Year Requests Included

750 DBPH Clearances Requested - Fiscal 1977

1500 Projected non-DBPH Copyright Requests x.50 % of Fiscal Year Requests Included

750 Non-DBPH Clearances Requested - Fiscal Year 1976

and 1977

233.3333 DBPH Copyright Requests per month
3 700 DBPH Clearances Requested - Fiscal 1976
Number of
months in DBPH Fiscal 1976
Included in 1st LUMP

250 DBPH Copyright Requests per month
3 1750 DBPH Clearances Requested - Fiscal 1977
Number of
months in DBPH Fiscal 1977
Included in 1st LUMP

125 Non-DBPH Copyright Requests per month
3 1750 Non-DBPH Clearances Requested - Fiscal 1976 and 1977
Number of
months in non-DBPH Year
Included in 1st LUMP

		Fiscal	1976 Extended		
	July 1976		August 1976	Se	ptember 1976
233 +125 358	DBPH Requests Non-DBPH Requests Requests per month	358 233 +125 716	Requests per month DBPH Requests Non-DBPH Requests Requests per month	716 233 +125 1074	Requests per month DBPH Requests Non-DBPH Requests Requests per month
	October 1976		November 1976	D	ecember 1976
1074 250 +125 1449	Requests per month DBPH Requests Non-DBPH Requests Requests per month	1449 250 +125 1824	Requests per month DBPH Requests Non-DBPH Requests Requests per month	1824 250 +125 2199	Requests per month DBPH Requests Non-DBPH Requests Requests per month





January 1977 to December 1977 Fiscal Years 1977, 1978

3000 Projected DBPH Copyright Requests
x.75 % of Fiscal Year Requests Included
2250 DBPH Clearance Requested - Fiscal 1977

3540 Projected DBPH Copyright Requests
x.25 % of Fiscal Year Requests Included
885 DBPH Clearances Requested - Fiscal 1978

250 DBPH Copyright Requests per month 9 (2250 Clearances Requested - Fiscal 1977 Number of months in DBPH Fiscal 1977 Included in 2nd LUMP

295 DBPH Copyright Requests per month
3 (885 DBPH Clearances Requested - Fiscal 1978
Number of
months in DBPH Fiscal 1978
Included in 2nd LUM?

125 Copyright Requests per month
12 / 1500 Clearances Requested - Fiscal 1977 and 1978
Number of
months in non-DBPH year
Included in 2nd LUMP

Fiscal 1977

1	January 1977	_Fe	ebruary 1977		<u>March 1977</u>
250 +125	Titles from 1976 DBPH Requests Non-DBPH Requests Requests per month	250 +125	Requests per month DBPH Requests Non-DBPH Requests Requests per month	250 +125	Requests per month DBPH Requests Non-DBPH Requests Requests per month



		F i:	scal 19//		-cong
	April 1977		May 1977	<u> </u>	une 1977
3324 250 +125 3699	Requests per month DBPH Requests Non-DBPH Requests Requests per month	3699 250 +125 4074	Requests per month DBPH Requests Non-DBPH Requests Requests per month	4074 250 +125 4449	Requests per month DBPH Requests Non-DBPH Requests Requests per month
		Fi	scal 1977		
	July 1977		August 1977	<u>S</u>	eptember 1977
4449 250 +125 4824	Requests per month DBPH Requests Non-DBPH Requests Requests per month	4824 250 +125 5199	Requests per month DBPH Requests Non-DBPH Requests Requests per month	5199 250 +125 5574	Requests per month DBPH Requests Non-DBPH Requests Requests per month

Fiscal 1978

	October 1977	1	lovember 1977		ecember 1977
295 +125	Requests per month DBPH Requests Non-DBPH Requests Requests per month	295 +125	Requests per month DBPH Requests Non-DBPH Requests Requests per month	295 +125	Requests per month DBPH Requests Non-DBPH Requests Requests per month

SUMMAPY

Estimated size of the LUMP file:

Calendar Year	Month	Projected Copyright Requests
1976	July	358 titles
	August	716 titles
	September	1074 titles
	October	1449 titles
	November	1824 tifles
	December	2199 titles



Calendar year	* Month	Projected Copyright Requests
1977	January	· 2574 titles
•	February `	2949 titles
•	March	3324 titles
•	April	3699 titles
	May	4074 titles
	June	· 4449 tit.les ,
•	July	4824 titles
	Augusṭ	5199 titles
	September	5574 titles
	October	5994 titles
	November	6414 titles
\ _"	December	. 6834 titles

Step 2. The second prerequisite to deriving the cost of producing LUMP was determining the number of lines each entry would take. The entry will consist of 7 elements: author, title, publisher, copyright date, status code(s), date(s) of status, and DBPH control number. A variable length field with a maximum character count or, where possible, a fixed length field was set for each element with the total adding up to a 132 character line. The length per field is as follows:

<u>Field</u>	<u>Length</u>		Blank Spaces
Author	24	•	5
.Title	34.		5
Publisher	16.		5
Copyright Date	4		5
Status Code	10	•	5
Date of Status	5		5
DBPH Control Number	9		
Total	102	+	30
Grand Total		132	

Since it is possible that a title could be in more than 1 status at a time, 3 lines were allowed per item. Most entries should require only one line, some may require two, and a few could require three; however, by figuring three lines per title the majority of cases should be covered.

Finally, since an entry should be listed by both author and title, it was necessary to double the number of lines required for the monthly LUMP. Although there may be some items with no author, and although there may be some items with no author, and although the entries will have this characteristic based on the survey of 400 titles completed prior to calculate the Union Catalog. This figure will not be significant until the eighth month of production, but it has been calculated for each month anyway.

Given the information above, the following calculations provide the total lines for LUMP each month:

Fiscal Year	Month	-	Calculations
1976 Extended	July	358 ×.023 8.234	Entries % of title only entries Number of title only entries
		358 - 8 350	Entries Number of title only entries Number of author entries
7		350 × 3 1050	Number of author entries Number of lines per entry Number of lines for authors
	. ,	358 × 3 1074	Number of title entries Number of lines per entry Number of lines for title
•		1050 +1074 2124	Number of lines for authors Number of lines for titles Total Number of lines
	August	716 ×.023 16.468	Entries % of title only entries Number of title only entries
		716 - 16 700	Entries % of title only entries Number of author entries
i		700 · <u>× 3</u> · 2100	Number of author entries Number of lines per entry Number of author entries

Fiscal Year	Month		Calculations
1976 (cont'd)		716 × 3 2148	Number of title entries Number of lines per entry Number of lines for titles
		2100 +214° 4248	Number of lines for authors Number of lines for titles Total number of lines
	September	1074 ×.023 24.702	Entries % of title only entries Number of title only entries
		- 25 1049	Entries Number of title only entries Number of author entries
		1049 × 3 3147	Number of author entries Number of lines per entry Jumber of lines for authors
		1074 × 3 · 3222	Number of title entries Number of lines per entry Number of lines for titles
		3147 +3222 3369	Number of lines for authors Number of lines for titles Total number of lines
1977 \$\displaystyle{\beta}\$	October	1449 ×.023 33.327	Entries % of title only entries Number of title only entries
		1449 - 33 1416	Entries Number of title only entries Number of author entries
,		1416 × 3 4248	Number of author entries Number of lines per entry Number of lines for authors

Fiscal Year	Month		Calculations
1977 (cont'd) .	,	1449 × 3 4347	Number of title entries No ber of lines per entry Number of lines for titles
	,	4248 +4347 8595 ~	Number of lines for authors Number of lines for titles Total number of lines
	November .	1824 ×.023 41.952	Entries % of title only entries Number of title only entries
		1824 - 42 1782	Entries Number of title only entries Number of author entries
		1782 × 3 5346	Number of author entries Number of lines per entry Number of lines for authors
,		1824 × 3 5472	Number of title entries Number of lines per entry Number of lines for titles
	Ê	5346 +5472 10818	Number of lines for authors Number of lines for titles Total number of lines
•	December	2199 ×.023 50.577	Entries % of title only entries Number of title only entries
	, **	2199 - 51 7 * 8	Entries Number of title only entries Number of author entries
		2148 × 3 6444	Number of author entries Number of lines per entry Number of lines for authors



Fiscal Year	Month		Calculations
1977 (cont'd)		2199	Number of title entries
,,,, (co c)		× 3	Number of lines per entry
		6597	Number of lines for titles
	•	6444	Number of lines for authors
	•	+6597	Number of lines for titles
		13194	Total number of lines
	January	2574	Entries
		×.023	% of title only entries
		59,202	Number of title only entries
		2574	Entries
		- 59	Number of title only entries
		2515	Number of author entries
		2515	Number of author entries
		· × 3	Number of lines per entry
		7545	Number of lines for authors
		2575	Number of title entries
		× 3	Number of lines per entry
		7722	Number of lines for titles
		7545	Number of lines for authors
•		+7722	Number of lines for titles
		15267	Total number of lines
>	February	2949	Entries
	•	×.023	% of title only entries
		67.827	Number of title only entries
		2949	Entries
	**	- 68	Number of title only entries
		2881	Number of author entries
	•	2881	Number of author entries
1		x ³	Number of lines per entry
ř		8643	Number of lines for authors

Fiscal Year	Month		Calculations
1977 (cont'd)		2949 × 3 8847	Number of title entries Number of lines per entry Number of lines for titles
		8643 +8847 17490	Number of lines for authors Number of lines for titles Total number of lines
ı	March	3324 ×.023 76.452	Entries % of title only entries Number of title only entries
		3324 - 76 3248	Entries Number of title only entries Number of author entries
		3248 × 3 9744	Number of author entries Number of lines per entry Number of lines for authors
		3324 × 3 9972	Number of title entries Number of lines per entry Number of lines for titles
		9744 +9 9 72 19716	Number of lines for authors Number of lines for titles Total number of lines
	April	3699 ×.023 85.077	Entries % of title only entries Number of title only entries
		3699 - 85 3614	Entries Number of title only entries Number of author entries
		3614 × 3 10842	Number of author entries Number of lines per entry Number of lines for authors



Fiscal Year	Month		Calculations
1977 (cont'd)	_é '	3699 × 3 11097	Number of title entries Number of lines per entry Number of lines for titles
		10842 +11097 21939	Number of lines for authors Number of lines for titles Total number of lines,
	May	4074 ×.023 93.702	Entries % of title only entries Number of title only entries
	ı	4074 - 94 3980	Entries Number of title only entries Number of author entries
		3980 × 3 11940	Number of author entries Number of lines per entry Number of lines for authors
·		4074 × 3 12222	Number of title entries Number of lines per entry Number of lines for titles
		11940 +12222 24162	Number of lines for authors Number of lines for titles Total number of lines
	June	4449 ×.023 102.327	Entries % of title only entries Number of title only entries
		4449 -102 4347	Entries Number of title only entries Number of author entries
		4347 × 3 T3041	Number of author entries Number of lines per entry Number of lines for authors
		4449 × 3 13347	Number of title entries Number of lines per entry

	,		
Fiscal Year	<u>Month</u>	<u>Cc</u>	Iculations
1977 (cont'd)		13041 +13347 26388	
	July	4824 × .023 110.952	
	ı	4824 - 111 4713	Entries Number of title only entries Number of author entries
		4713 × 3 14139	Number of lines per entry
		4824 × 3 14472	Number of title entries Number of lines per entry Number of lines for titles
	•	14139 +14472 28611	Number of lines for authors Number of lines for title Total number of lines
•	August		Entries % of title only entries Number of title only entries
		5199 - 120 5079	Number of title only entries
		5079 × 3 15237	Number of author entries Number of lines per entry Number of lines for author
		5199 × 3 15597	Number of title entries Number of lines per entry Number of lines for titles

Fiscal Year	Month		Calculations
1977 (cont'd)		15237 +15597 30834	Number of lines for author Number of lines for titles Total number of lines
	September	5574 × .023 128.202	Entries % of title only entries Number of title only entries
		5574 - 128 5446	Entries Number of title only entries Number of author entries
\		5446 × 3 16338	Number of author entries Number of lines per entry Number of lines per author
		5574 × 3 16722	<u> </u>
		16338 +16722 33060	Number of lines for authors Number of lines for titles Total number of lines
1978	October	5994 × .023 137.862	Entries % of title only entries Number of title only entries
		5994 - 138 5856	Entries Number of title only entries Number of authors entries
			Number of titles entries Number of lines per entry Number of lines for titles
		17568 +17982 35550	

Fiscal Year	Month		Calculation
1978 (cont'd)	November	× .023	Entries % of title only entries Number of title only entries
		6414 - 148 6266	
	·	x 3	Number of author entries Number of lines per entry Number of lines for authors
		x 3	Number of title entries Number of lines per entry Number of lines for titles
		+19242	Number of lines for authors Number of lines for titles Total number of lines
	December		Entries % of title only entries Number of title only entries
			Entries Number of title only entries Number of author entries
		6677 × 3 20031	Number of author entries Number of lines per entry Number of lines for authors
•		6834 × 3 20502	Number of title entries Number of lines per entry Number of lines for titles
		20031 +20502 40533	Number of lines for authors Number of lines for titles Total number of lines

.:79

SUMMARY

The number of lines in each month of LUMP are as follows:

Calendar Year	Month	No. of Lines
· 1978	July	2,124
	August	4,248
	September	6,369
	October	8,595
	November	10,818
	December	13,194
1977	January	15,267
,,,,,	February	17,490
	March	19,716
	April	21,939
	May	24,162
	June	26,388
	July	28,661
	August	30,834
	- September	33,060
	October	35,550
	November	38,040
	December '	40,533

Step 3. Given the number of lines, the number of fiche for LUMP can be determined. There are a total of 80 useable lines per computer page (frame). In the case of LUMP, 5 of those lines will be used for header and page number, column headings and blank lines, thus, leaving only 75 lines for entries. Based on this information the following calculations were computed:

Fiscal Year	Month	Calculation
1976 extended	July	28.32 Number of frames 75 2124 Total lines lines per frame
·	August	56.64 Number of frames 75 4248 Total lines lines per lines



•		
Fiscal Year	Month	Calculation
1976 (cont'd)	September	84.92 Number of frames 75 6369 Total lines lines per frame
1977	October	114.6 Number of frames 75 8595 Total lines lines per frame
	November	144.24 Number of frames 75 10818 Total lines lines per frame
	December	175.92 Number of frames 75 13194 Total lines lines per frame
	January	203.56 Number of frames 75 15267 Total lines lines per frame
	February	233.2 Number of frames 75 17490 Total lines lines per frame
,	March	262.88 Number of frames 75 19716 Total lines lines per, frame
•	April	292.52 Number of frames 75 21939 Total lines lines per frame

Caiculations Month Fiscal Year 322.16 Number of frames 1977 (cont'd) May 75 24162 Total lines lines per frame 351.84 Number of frames June 75 26388 Total lines lines per frame 381.48 Number of frames July 75 28611 Total lines lines per frame 411.12 Number of frames_ August 75 30834 Total lines lines per frame 440.8 Number of frames September 75 33060 Total lines lines per frame 474 Number of frames October 1978 75 35550 Total lines lines per frame 507.2 Number of frames November 75 38040 Total lines lines per frame 540.44 Number of frames December 75 40533 Total lines lines

per frame

SUMMARY

Galendar Year	Month	No. of Frames
1976	July	29
1,,,,	August	57
	September	85
	October	115
	November	145
•	December-	176
1977	January	204
	February	234
	March	263
	April	293
	May	323
	June	352
	July	382
	August `	412
	September	44 1
	October	474
	November	508
	December	541

The industry COM standard for 42X reduction ratio is 208 frames per fiche. Thus, the follo, ing calculations show the number of fiche for each edition of LUMP.

Fiscal Year	Month	Calculations
1976 extended	July	0.13 Fiche 208 29 Frames of LUMP frames per fiche
	August	.27 Fiche 208 57 Frames of LUMP frames per fiche
•	September	.40 Fiche 208 85 Frames of LUMP frames per fiche



Fiscal Year	Month	Calculations
1977	October	.55 Fiche 208 115 Frames of LUMP frames per fiche
•	November	.69 Fiche 208 145 Frames of LUMP frames per fiche
•	· December .	.84 Fiche 208 176 Frames of LUMP frames per fiche
;	January	.98 Fiche 208 204 Frames for LUMP frames per fiche
	February	1.12 Fiche 208 234 Frames for LUMP frames per fiche
	March	1.26 Fiche 208 263 Frames for LUMP frames per fiche
	Àpril	1.40 208 293 Frames for LUMP frames per fiche
-	May	1.55 Fiche 208 323 Frames for LUMP frames per fiche

Month Fiscal Year 1.69 Fiche. 1977 (cont'd) June 208 352 Frames for LUMP frames per fiche 1.83 Fiche July 208 352 Frames for LUMP frames per fiche 1.98 Fiche August 208 412 Frames for LUMP frames per fiche 2.12 Fiche September 208 441 Frames for LUMP frames per fiche 2.27 Fiche October 1978 208 474 Frames for LUMP frames per fiche . ^ 2.44 Fiche * Novembei 208 508 Frames for LUMP frames per fiche 2.6 Fiche December 208 541 Frames for LUMP frames per fiche

SUMMARY

Calendar Year	Month	No. of Fiche
1976 °	July	1
•,,,,	August	1
	September	1
	October	1
	November	1 .
	December	1
1977	January	, 1
1,,,,	February	2
	March	2
	April	2
	May .	2
	June	2
	July	2
	August	2
	September	3
,	October	3
•	November	3
*	December	3

Step 4. Having derived the number of fiche needed each month for LUMP, the cost per month can be calculated based on figures supplied by Basil Doudnikoff, President of Dataflow Corporation. Production of the fiche master should cost .03c per frame.

.0004 Cost per line × 80 Number of lines per page \$.032 Cost per frame

Therefore, one master fiche would cost \$6.24.

208 Number of frames per fiche

×.03 Cost per frame

56.24 Cost per fiche

In addition, it will cost \$.30 per fiche to produce a working master and \$.15 per fiche to produce a copy of the masters.

Assuming the following distribution of 500 copies, the cost of LUMP can be calculated.

· ·	Ĺ	•	40 ર
DBPH ·		2 .	
Office of the Chief	•	4	
Project Coordination Office		1	٠, ٠
Office Services		i	,
Publications Services		O	
Building Services		2	
Materials Development Office	1	; 2 6	
Collection Development Office		6	
Processing Section	* *	4	
Production Section			
Technical Section		2 .	
Network Development Office		2 .	
Reference		1 ,	
Music	,	1	
Volunteer Utilization Section		. 0-	
Volunteer Training Section	•		•
Network Services Section		! 5	
Resources Coordination Unit		3	
 Circulation and Collection 		1	
Maintenance Unit		I	· 10
Multi-state Centers (5 each)		\$	
Regional Libraries (4 X 54)	•		216 204
Subregional Libraries (2 X 102)	•		30
Reserve			
	To	tal	500

Both the format and the issue agre of LUMP could change, depending on the input from these users.

Thus, the monthly cost for LUMP would be as follows:

_			To the second of
	Fiscal Year	Month	Calculations
`	1976	July	\$6.24 Cost per master fiche x 1 Number of masters \$6.24 Cost for master fiche
			\$.30 Cost per working master × 2 Number of working masters \$.60 Cost for working master
Į.			\$.15 Cost per fiche copy x 1 Number of fiche copies \$.15 Cost per copy
	ı		\$.15 Cost per copy ex 500 Number of sets \$ 75 Cost for 500 sets
•	•		\$6.24 Cost for master fiche. \$.60 Cost for working masters + 75.00 Cost for 500 sets \$81.84 Total cost for fiche
	ı	Augusi	\$6.24 Cost per master fiche x 1 Number of masters \$5.24 Cost for master fiche
	,		\$.30 Cost per working master x 2 Number of working masters \$.60 Cost for working masters
	·		\$.15 Cost per fiche copy x 1 Number of fiche \$.15 Cost for copies



Calculations Manth Fiscal Year \$.15 Cost per copy > 1976 (cont'd) Number of sets ×500 \$75. Cost for 500 sets \$6.24 Cost for master fiche .60 Cost for working masters + 75.00 Cost for 500 sets \$81.84 Total cost per fiche \$6.24 Cost per master fiche September 1 Number of masters \$6.24 Cost for master fiche \$.30 Cost per working master x · 2 · Number of fiche .60 Cost for working masters \$7.15 Cost per fiche copy x - 1 Number of fiche \$.15 Cost for copies \$.15 Cost for copies x 500 Number of sets Cost for 500 sets \$6.24 Cost for master fiche ..60 Cost for working master + 75.00 Cost for 500 sets \$81.84 Total cost for fiche -\$6.24 Cost per master fiche 1977 October Number of masters \$6.24 Cost for master fiche

\$.30 Cost per working master
× 2 Number of working masters
\$.60 Cost for working maters

•		•
Fiscal Year	Month	Calculations
1977 (cont'd)		\$.15 Cost for copies × 1 Number of fiche \$.15 Cost for copies
		\$.15 Cost for copies × 500 Number of sets Cost for 500 sets
,		\$6.24 Cost for master fiche .60 Cost for working masters -+ 75.00 Cost for 500 sets \$81.84 Total cost for fiche '
,	November	\$6.24 Cost for master fiche × 1 Number of masters \$6.24 Cost for master fiche
		\$.30 Cost per working master x *2 Number of masters \$.60 Cost for working masters
; ;		\$.15 Cost per fiche copy x 1 Number of fiche \$.15 Cost for copies
		\$.15 Cost for copies × 500 Number of sets To the copies of the copies
	·	\$6.24 Cost for master fiche .60 Cost for working masters -+ 75.00 Cost for 500 sets \$81.84 Total cost for fiche
!	December	\$6.24 Cost per master fiche x 1 Number of masters \$6.24 Cost for master fiche

\$.30 Cost per working master
× 2 Number of working masters
\$.60 Cost for working masters

Fiscal Year

Month

January

Calculations

1977 (contid)

\$.15 Cost per fiche copy x 1 Number of fiche

\$.15 Cost for copies

\$.15 Cosf for copies

x 500 Number of sets . *

\$.75 Cost for 500 copies

\$6.24 Cost for master fiche

,60 Cost for working masters

+ 75.00 Cost, for 500 sets

\$81.84 Total cost for fiche

\$6.24 Cost per master fiche

x 1 Number of masters

\$6.24 Cost for master fiche

\$.30 Cost per working master

x 2 Number of working masters

\$.60 Cost for working masters

\$.15 Cost per fiche copy

x 1 Number of fiche

\$.15 Cost for copies

\$.15 Cost for copies

x 500 Number of sets

\$ 75 Cost for 500 copies

\$6.24' Cost for master fiche

.60 Cost for working masters

+ 75.00, Cost for 500 sets

\$81.84 Total cost for fiche

\$6.24 Cost per master fiche

x 2 Number of masters

\$12,48 Cost for master fiche

February



Calculations

- \$.30 Cost per working master
 - 2 Number of fiche
- \$.60 Cost for copy of 1 set
- \$.60 Cost for copy of 1 set
- 2 Number of working master sets
- \$1.20 Cost for working masters
- \$.15 Cost per fiche copy
- 2 Number of fiche
- \$.30 Cost for copies
- \$.30 Cost for copies
- x 500 Number of sets
- \$ 150 Cost for 500 sets
- \$12.48 Cost for master fiche
 - 1.20 Cost for working masters
- + 150.00 Cost for 500 sets
- \$163.68 Total cost for, fiche
 - \$6.24 Cost per master fiche
 - x ~ 2 Number of masters
 - \$12.48 Cost for master fiche
 - \$.30 Cost per working master
 - 2 Number of fiche
 - \$.60 Cost for copy of 1 set
 - \$.60 Cost for copy of 1 set
 - x 2 Number of working master sets

 - \$1.20 Cost for working masters
 - \$.15 Cost per fiche copy
 - x 2 Number of fiche
 - \$.30 Cost for copies

Month [°]		٠.	Calculations '
, , , , , ,	,	\$.30 × 500 \$150.00	Cost for copies Number of sets Cost for 500 copies
	.	\$12.48 1.20 + 150.00 \$163.68	Cost for master fiche Cost for working masters Cost for 500 sets Total cost for fiche
April		\$6.24 <u>x·· .2</u> \$12.48	Cost per master fiche Number of masters Cost for master fiche
•	•	\$.30 × 2 \$.60	Cost per working master Number of fiche Cost for copy of 1 set
	•	\$.60 × 2 \$1.20	Cost for copy of 1 set Number of working master sets Cost for working masters
***************************************	,	\$.15 × 2 \$.30	Cost per fiche copy Number of fiche Cost for copies
	•	\$.30 × 500 \$150.00	Cost for copies Number of sets Cost for 500 sets
		\$1/2.48 1.20 + 150.00 \$163.68	Cost for master fiche Cost for working masters Cost for 500 sets Total cost for fiche
,vlay	,	\$6.24 × 2 \$12.48	Cost per master fiche Number of masters Cost for master fiche

Fiscal Year

1977 (cont'd)

•				·	
Fiscal Year	Month .			Calculations	
1977 (cont'd))	\$.30 × 2 \$.60	Cost per working master Number of fiche Cost for copy of 1 set	
		•	\$.60 × 2 \$1.20	Cost for copy of 1 set Number of working master sets Cost for working masters	;
•	·	•	\$.15 × 2 \$.30	Cost per fiche copy Number of fiche Cost for copies	ı
`	, ,		\$.30 × 500 150.00	Cost for colles Number of cets Cost for 500 sets	
			\$12.48 1.20 150.00 5163.68	Cost for master fiche Cost for working masters Cost for 500 sets Total cost for fiche	
	June	1	\$6.24 × 2 \$12.48	Cost per master fiche Number of masters Cost for master fiche	
		•	\$.30 × 2 \$.60	Cost per working masters Number of fiche Cost for copy of 1 set	
,	, ,	, \$	\$.60 x 2 \$1.20	Cost for copy of 1 set Number of working master set Cost for working masters	·s
. •	,		\$.15 x 2 \$.30	Cost per fiche copy Number of fiche Cost for copies	4

	•			Ť,
Fiscal Year	Month :		Calculations	•
1977 (cont'd)		\$.30	Cost for copies	
1977 (com d)	•	× 500	Number of sets	
		\$150.00	Cost for 500 sets	\
•				
, ,	•	\$12.48	Cost for master fiche	•
		1.20	Cost for working masters	
•	, ,	+ 150.00	Cost for 500 sets	
,	•	\$163.68	Total cost for fiche	ia.
3	3)	\$6.24	Gost/per master fiché	1.
•,	July	x 2	Number of masters	
٠	• `	\$ 12.48	Cost for master fiche	1
	•	ψ12.10 _,	,	• 1
•		\$.30	Cost per working masters	\
	•	× 2	Number of fiche	
	· ·	\$.60	Cost for copy of 1 set	1
•			<i>i</i>	1
• 88	*	\$.60	Cost for copy of 1 set	2
,	,	' × 2	Number of working maste	rsets
,	ు	\$1.20	Cost for working masters	e
• •				
•		\$,.15	Cost per fiche copy	
•	,	, <u>x 2</u>	Number of fiche	
,•		\$.30	Cost for copies	
•		¢ ảo	Cost for espice	
	*,	\$.30 \ × 500	Cost for copies Number of sets	
•		\$1 <u>50.00</u>	Cost for 500 sets	•
·		\$1,50.00	2031 101 300 3013	
		\$12.48	Cost for master fiche	
	•	1.20	Cost for working master	•
F 3-	una s	+ 150.00	Cost for 500 sets	
• .	y *	\$163.68	Total cost for fiche	
• •		+ + · -	6	
	August	\$6.24	Cost per master fiche	· .
	,	x 2	Number of masters	
•	• .	\$12.48	Cost for master fiché	

,					
Year	Month		•	Calculations	
(cont'd)		. /	\$.30 × 2 \$.60	Cost per working master Number of fiche Cost for copy of 1 set	
:			\$.60 × 2 \$1.20	Cost for copy of 1 set Number of working master se Cost for working masters	ʻs
		·	\$.15 × -2 \$.30	Cost per fiche copy Number of fiche Cost for copies	
•	م		\$.30 × 500 \$150.00	Cost for copies Number of sets Cost for 500 sets	•
. \	•	* ,	\$12.48 1.20 + 150.00 \$163.68	Cost for master fiche Cost for working masters Cost for 500 sets Total cost for fiche	
•	September		\$6.24 × 3 \$18.72	Cost per master fiche Number of masters Cost for master fiche	
	,		*\$.30 × · · 3 \$.90	Cost per working master Number of fiche Cost for copy of 1 set	
,		· ·	\$.90 × 2 \$1.80	Cost for copy of 1 set Number of working master so Cost for working masters	ets ··
		•	\$.15 × 3 \$.45	Cost per fiche copy Number of fiche Cost for copies	•
	Year (cont'd)	(cont'd)	(cont'd)	$\begin{array}{c} $.30 \\ \times 2 \\ \hline $.60 \\ \times 2 \\ \hline $.51.20 \\ \\ \$.15 \\ \times .2 \\ \hline $.30 \\ \times 500 \\ \$.30 \\ \times .3 \\ \hline \$.872 \\ \\ \$.30 \\ \times .3 \\ \hline \$.90 \\ \times .2 \\ \hline \$.30 \\ \times .3 \\ \hline \$.90 \\ \times .2 \\ \hline \$.30 \\ \times .3 \\ \hline \$.90 \\ \times .2 \\ \hline \$.30 \\ \times .3 \\ \hline \$.90 \\ \times .2 \\ \hline \$.30 \\ \times .3 \\ \hline \$.90 \\ \times .2 \\ \hline \$.30 \\ \times .3 \\ \hline \$.90 \\ \times .2 \\ \hline \$.30 \\ \times .3 \\ \hline \$.90 \\ \times .2 \\ \hline \$.30 \\ \times .3 \\ \hline \$.90 \\ \times .2 \\ \hline \$.30 \\ \times .3 \\ \hline \$.90 \\ \times .2 \\ \hline \$.30 \\ \times .3 \\ \hline \$.90 \\ \times .2 \\ \hline \$.30 \\ \times .3 \\ \hline \$.90 \\ \times .2 \\ \hline \$.30 \\ \times .3 \\ \hline \$.90 \\ \times .2 \\ \hline \$.30 \\ \times .3 \\ \hline \$.90 \\ \times .3 \\ \hline \$.15 \\ \times .3 \\ \hline \$.15 \\ \times .3 \\ \hline \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	(cont'd) \$.30

Fiscal Year	Month .	Calculations
1977 (cont'd)		\$.45 Cos 55 x 500 Nu 36 ets \$225.00 Cost for 500 sets
	•	\$18.72 Cost for master fiche 1.80 Cost for working masters + 225.00 Cost for 500 sers \$245.52 Total cost for fiche
1978	October	\$6.24 Cost per master fiche x 3 Number of masters \$18.72 Cost for master fiche
,		\$.30 Cost per working master × 3 Number of fiche \$.90 Cost for copy of 1 set
		\$.90- Cost for copy of 1 set \$ 2 Number of working master sets \$1.80 Cost for working masters
		\$.15 Cost per fiche copy x \ 3 Number of fiche \$.45 Cost for copies
		\$.45 Cost for copies, × 500 Number of sets; \$225.00 Cost for 500 sets
,		\$18.72 Cost for master fiche 1.80 Cost for working masters + 225.00 Cost for 500 sets \$245.52 Total cost for fiche

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Fiscal Year	Month		Calculations
1978	November	\$6.24 × 3 \$18.72	Cost per master fiche Number of masters Cost for master fiche
		\$.30 × 3 \$.90	Cost per working master Number of fiche Cost for copy of 1 set
•		\$.90 × 2 \$1.80	Cost for copy of 1 set Number of working master sets Cost for working masters
	,	\$.15 × 3 \$.45	Cost per fiche copy Number of fiche Cost for copies
	,	\$.45 × 500 \$225.00	Cost for copies Number of sets Cost for 500 sets
	·	\$18.72 1.80 + 225.00 \$245.52	Cost for master fiche Cost for working masters Cost for 500 sets Total cost for fiche
` .	December	\$6.24 × 3 \$18.72	Cost per master fiche (Number of masters Cost for master fiche
,	. •	\$.30 × 3 \$.90	Cost, per working master Number of fiche Cost for copy of 1 set
<i>(</i>		\$.90 × 2 \$1.80	Cost for copy of 1 set Number of master sets Cost for working masters

Fiscal Year	Month	•	Calculations
1978 (cont ¹ d)		\$.15 × 3 \$.45	Cost per fiche copy Number of fiche Cost for copies
	9		Cost for copies Number of sets Cost for 500 sets
•		•	Cost for master fiche Cost for working masters Cost for 500 sets Total cost of fiche

SUMMARY

The cost of LUMP per month is:

Calendar Year	Month		Cost per Month
1976	July		\$ 81.84
1770	August		81.84
	September	_	81.84
	October	•	81.84
	November		81.84
	December		81.84
		Total	\$491.04
1977	January	•	\$ 81.84
17//	February		163.68
	March		163.68
•	April		163.68
•	May	•	163.68
	June		163,68
	July		163.68
	August		163.68
	September		245.52
	October		245.52
1,	November		245,52
	December		245.52
,	•	Total	\$2209.68

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SUMMARY SCHEDULES

ALL PRODUCTS

FISCAL YEAR 1976

ı_	1:1	First Date Issued	Frequency of Issue	Charged To	Cost
	Working Document	December 31, 1976	Not applicable	Fiscal Year 1976	\$ 26,250.00
	First Union Catalog (Print)	July 1, 1976	Annually	Fiscal Year 1976	\$ 80,000.00
	First Union Catalog (Microfiche)	May 1, 1976	Annually	Fiscal Year 1976	\$ 2,170.00
	LUMP - July through	August 1976	Monthly	Fiscal Year 1976	\$. 245,52
,	September 1976 (Microfiche)	,		Grand Total Fiscal Year 1976	\$108,665.52
				. ~	



SUMMARY FISCAL YEAR 1977

• " "	1	elisal to vocacinosa	Charaed To	Cost
Title	First Date Issued	nedoelicy of issue		
Second Union Catalog (Print)	July 1, 1977	Annually	Fiscal Year 1977	\$192,000.00
Second Union Catalog (Microfiche)	May 1, 1977	Annually	Fiscal Year 1977	\$ 6,536.00
Union Catalog Monthly Update – January through September 1977 (Microfiche)	February 1977	r. Monthly	Fiscal Year 1977	\$ 2,752.00
LÙMP – January through September 1977 (Microfiche)	August 1976	Monthly	Fiscal Year 1977 Grand Total Fiscal Year 1977	\$ 1,718.64
	•			

SUMMARY FISCAL YEAR 1978

Title	First Date Issued	Frequency of Issue	Charged To	Cost .
Third Union Catalog (Print)	July 1, 1978	Annually	Fiscal Year 1978	\$256,000.00
Third Union Catalog (Microfiche)	May 1, 1978	- Annually	Fiscal-Year-1978	\$ 8,600,00
Union Catalog Monthly Updates - October through December 1977 (Microfiche)	February 1977	Monthly	Fiscal Year 1978	\$ 1,892.00
LUMP - October through December 1977 (Microfiche)	August 1976	Monthly	Fiscal Year, 1978 Partial Total Fiscal Year 1978	\$ 736.56

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APPENDIX E

DATA ELEMENTS

The charts in this Appendix cover eight basic functions completed in the process of preparing a book for use by the blind and handicapped. These functions are:

- 1. Order Print Copy
- 2. Book Selection for Reproduction
- 3. Copyright Clearance Request
- 4. Bibliographic Data Development
- 5. Quota Determination (Network)
- 6. Book Production
- 7. Completed Book Shipment
- 8. Holdings Information

For each of the eight functions the following items are specified:

- a. Data Element a discrete item of information (of which 106 have been identified)
- .b. Utility the use(s) to which a data element can be put .
- c. Source the point(s) of origin of each data element
- d. Product(s) Where Found the output(s) in which the data element will appear

In addition, five "standing lists" consisting of items of information that will remain relatively unchanged and will be used over and over again, are as follows:

- .1. Network Libraries
- 2. Volunteer Groups
- 3. Vendors, Jobbers, Producing Agencies
- 4. Publishers
- 5. Authority Files

For each of the five standing lists, the following items are specified:

- a. Data Element a discrete item of information (of which 36 have been identified)
- b. Source the point(s) of origin of each data element

Each data element appears in the list at its earliest point of origin and, with two exceptions, is not repeated.



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FUNCTION: ORDER PRINT COPY

Product(s), Where, Found

Source

-Utility

Data Element

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Title.

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Pyrchase Order (print copy) Notice Vendor Claim or Cancellation Notice Vendor Performance ReportStatistical Summary	Copyright Request Copyright Request Notice	Copyright Request Follow-Up Notice	Copyright Request Outstanding Listing	Request for Price Quotation	Production Authorization Notice	Production Estimate rollow-Up Notice Titles in ProcessStatistical Summary	Production Status Report Statistical Summary	Production Status Report Listing	otice	Production Completion Report Listing	Production Completion Report Listing	Distribution Schedule Listing	Quota Determination Listing	Quota DeterminationStatistical Summary	Produced Book ExpenditureStatistical Summary	•		Union Catalog Monthly Update	Library Union Monthly Production (LUMP)	(homohan han tanana)
claim o	Copyright Request Copyright Request	jht Redu	gar kegu yht Regu	for Pric	fion. Auth	rion Estir In Proces	ion State	tion Stati	Quota Cards Notice	tion Com	tion Com	ution Scl	°Determi₁	Determin	ed Book	Catalog Cards	DBPH Union Catalog	Catalog.	· Union	•
Purchas Vendor Vendor	Copyrig Copyrig	Copyrig	Copyrig	Request	Product	Product	Product	Product	Quota	Product	Product	Cistrib	Quota	Quota	Produce	Catalo	DBPH 1	Union	Library	:
Collection De- velopment Pro- cessing	,				•			•	•					4		_		-		*
Book identification; Collection Destatistics velopment Processing	પ													1	•	•				
ag ts						١									^	`	·			

Truncated Dewey Index Listing . Union Catalog Addition-Statistical Summary

Bibliographies (Recurrent and on demand)
Talking Book Topics
Braille Book Review

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FUNCTION: ORDER PRINT COPY (cont'd)

	,	` `
Product(s) Where Found	. Union Çatalog Profile——Statistical Summary	Purchase Order (print copy) Notice Vendor Claim or Cancellátion Notice Copyright Request Copyright Request Nofice Copyright Request Follow-Up Notice Copyright Request Follow-Up Notice Copyright Request Report Listing Request for Price Quotation Production Authorization Notice Production Status Report Listing Quota Cards Notice Production Status Report Listing Production Completion Report Listing Production Completion Report Listing Quota Determination Listing Cafalog Cards DBPH Union Catalog Union Catalog Monthly Update Library Union Monthly Production (LUMP) Bibliographies (Recurrent and on demand) Talking Book Topics· Braille Book Review Truncated Dewey Index Listing
Source	Collection Development Processing	Collection De- velopment Pro-· cessing
Utility	Book identification; statistics	Book identification
Data Element	T;+[e	Author

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FUNCTION: ORDER PRINT COPY

Product(s) Where Found	Purchase Order (print copy). Notice Vendor Claim or Cancellation Notice Copyright Request Copyright Request Notice. Copyright Request Report Listing Copyright Request Report Listing Request for Price Quotstanding Listing Request for Price Quotation Production Estimate Follow-Up Notice Quota Cards Notice Quota Determination Listing Catalog Cards Union Catalog Wonthly Update Union Catalog Monthly Production (LUMP) Library Union Monthly Production (LUMP)
Source	Collection Development
Ufility	Book identification
Data Element	Publisher of Book
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Request for Price Quotation Production Estimate Follow-Up Notice Purchase Order (print copy) Notice Vendor Claim or Cancellation Notice Copyright Request Report Listing Copyright Request Outstanding Listing Copyright Request Follow-Up Notice Quota Determination Listing Copyright Request Copyright Request Notice Catalog' Cards DBPH Union Eatalog Quota Cards Notice Collection Development

Book identification

Publication Date of

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	Product(s) Where Found	Union Catalog Monthly Update Library Union Monthly Production (LUMP) Bibliographies (Recurrent and on demand) Talking Book Topics Braille Book Review	Vendor Claim or Cancellation Notice Copyright Request Copyright Request Follow-Up Notice Request for Price Quotation	Quota Cards Notice Production Completion Report Listing Distribution Schedule Listing Quota Determination Listing	DBPH Union Catalog Union Catalog Monthly Update Library Union Monthry Production (LUMP)		Furchase Order (print copy) Notice Vendor Claim or Cancellation Notice	Purchase Order (print copy) Notice
	Source	Collection Development	Processing	~	4		velopment	Collection De-
	Utility	Book identification	Unique, linking number >		•	٧	Accounting reports	Accounting reports
•	Data Element	Date of Publication	DBPH control ' number				Quantity of print copies ordered/per fille	Price per copy
	Ś	₄ '	wi .	' 40 9	. *		0	7
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FUNCTION: ORDER PRINT COPY (cont'd)

Product(s) Where Found Purchase Order (print copy) Notice	Purchase Order (print copy), Notice Vendor Claim or Cancellation Notice	Titles in Process–Statistical Summary Library Union Monthly Production (LUMP) Vendor Claim or Cancellation Notice Library Union Monthly Production (LUMP)	Vendor Performance ReportStatistical Summary	Vendor Performance Report—Statistical Summary Quota Determination—Statistical Summary Library Union Monthly, Production (LUMP)
Source Office Services	Collection Development Vendor list file Collection Development	Processing System	System	Processing System
Utility LC accounting requirement	Location of print book	Monitoring	Follow-up notifi- cation	Reports
Data Element P.O. number (print book)	Vendor name address · item number	Status code: print book ordered date	30-60-90 day flag	Disposition status code: print copies received or print book order can- celled date
o N	· 60 II	12 13	41	
•		À' <u>11</u> () È-6		



FUNCTION: CREEK MINT COPY (cont'd)

Product(s) Where Found			
Source	Office Services	Collection Development/	System
Utility	LC accounting requirement	For comparison purposes	Reports; monitoring System
Data Element	Payment information	Total number of titles to be ordered; inclu- sive dates	Total number of titles ordered to date
Š	17	18	6 411
			E-7

FUNCTION: BOOK SELECTION FOR REPRODUCTION

Product(s) Where Found	Copyright Request Notice Request for Price Quotation Production Authorization Notice Production Status Report—Statistical Summary Production Status Report Listing Quota Cards Notice Production Completion Report Listing Froduction Completion Report Listing Quota Determination Listing Quota Determination Statistical Summary Library Union Monthly Production (IUMP) Union Catalog Additions—Statistical Summary	Production Status Report——Statistical Summary Production Budget——Statistical Summary Produced Book Expenditures——Statistical Summary	Catalog Cards DISPH Union Catalog Union Catalog Monthly Update	
Source	Collection Development	Collection De- velopment	Collection Developmen? Vendor List file	Collection Deviselopment
Utility	Identification of medium of reproduction	Specific allocation of title by category of book/popularity	Reports, allocation of production work	Monitoring
Data Element	Medium code	Quota code(s)	Studio code	Limited pro- duction code
Š		21	22	23
	\mathcal{L}_{i}	E KZ		

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FUNCTION: BOOK SELECTION FOR REPRODUCTION (cont'd)

Product(s) Where Found	Request for Price Quotation Production Authorization Notice Production Estimate Follow-Up Notice Production Status Report—"Statistical Summary Production Completion Report Listing Production Completion Report Listing Mailing Labels Notice Production Budget—Statistical Summary Catalog Cards DBPH Union Catalog Union Catalog Additions—Statistical Summary		Request for Price Quotation Bibliographies (Recurrent and on demand) Talking Book Topics Braille Book Review	Request for Price Quotation Production Status Report Listing
Source	Collection Development Collection Development	Collection De-	Collection De- velopment	Collection De- velopment
Ufflity	Reports, allocation of Production work	Dissemination of titles among librarie	Divides collection along broad in— terest lines	Assure proper reproduction of unusual book features
Data Element	Agency name code Same-as-studio code	Distribution code Dissemination of titles among librarier	General classification	Special in- struction(s)
Š	25 2	26	. 27	28
	∠}_ E-9	13		

FUNCTION: BOOK SELECTIC N FOR REPRODUCTION (cont'd)

Product(s) Where Found	Titles in Process—Statistical Summary Library Union Monthly Production (LUMP) Library Union Monthly Production (LUMP)		Produceci Book ExpendituresStatistical Summary
Source	Collection De- velopment	Collection Development System	Collection Development System
Utility	Reports	History; future requests Monitoring	Overall quota pattern for com- parison purposes, Monitoring
Data Element	Status code: book selected book rejected rejection	(reasons) code date	Total allocation Overal! quota by category pattern for comparison purposes, Monitoring
Š	8 %	31	32
•			434
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Produced Book Expenditures--Statistical Summary

Total allocated Reports, monitoring System to date

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FUNCTION: COPYRIGHT CLEARANCE REQUEST

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Product(s) Where Found	Copyright Request	•	Copyright Request Follow-Up Notice	Copyright Request Copyright Request Follow-Up Notice Copyright Request Report Listing	Copyright Request Copyright Request Notice	Titles in Process—Statistical Summary Library Union Monthly Production (LUMP) Copyright Request Follow—Up Notice	Copyright Kequest Outstanding Listing	
Source	Collection Development	Collection De- velopment	Collection Development	Collection Development	Library list file	Collection Development	System	System
Utility	Legal reproduction permission	Flag publisher list	Location	Identification	Provide reply	Reports	Monitoring	System mechanism
Data Element	Copyright holder	same-as- publisher code	address	Copyright date	Requestor code	Status code: copyright clearance	requested date	30-60-90 day flag
Š	. 34	35	8	£ 425	8	36	40	41
				E-11				



FUNCTION: COPYRIGHT CLEARANCE REQUEST (cont'd)

No. Data Element Utility Source Product(s) Where Found			, ,	,		•
Monitoring letter number 42 Follow-up Monitoring letter number 43 Disposition Reports status code: permission granted or permission denied 44 reason code History; future reason code (s) date Monitoring 46 Restriction Distribution in- code (s) structions 47 Status code: Follow-up requestor notice A Monitoring	Product(s) Where Found Copyright Request Follow-Up Notice Titles in ProcessStatistical Summary	Copyright Request Notice Copyright Request Report Listing Titles in Process—Statistical Summary Production Status Report Listing Library Union Monthly Production (LUMP)		Copyright Request Notice	Titles in Process——Statistical Summary Library Union Monthly Production (UJMP)	
No. Data Element Utility 42 Follow-up Monitoring letter number 43 Disposition Reports status code: permission denied 44 reason code History; futureason code (s) requests date Monitoring 45 Restriction Distribution structions 46 Restriction Code(s) structions 47 Status code: Follow-up requestor notice	Source Collection Development	Collection De- velopment	Collection Development System	Collection Development	Collection Development Library List	System
No. Dot 42 Fold 44 45 Ada 47 St. 47 St. 48 Ada	Utility Monitoring	Reports	History; fyture requests Monitoring	L O	Follow-up	Monitoring
ž	Data Element Follow-up letter number	Disposition status code; permission granted or permission	denied reason code date	Restriction code(s)	Status code; · requestor notice	date .
	No 42	£4	44 45	4	47	48

E-12

FUNCTION: BIBLIOGRAPHIC DATA DEVELOPMENT

Product(s) Where Found	Production Authorization Notice Quota Cards Notice Catalog Cards DBPH Union Catalog Union Catalog Monthly Update Library Union Monthly Production (LUMP) Bibliographies (Recurrent and on demand) Talking Book Topics Braille Book Review	Catalog Cards DBPH Union Catalog Union Catalog Monthly Update Library Union Monthly Production (LUMP) Bibliographies (Recurrent and on demand)	Catalog Cards DBPH Union Catalog Union Catalog Monthly Update Library Union Monthly Production (WMP) Bibliographies (Recurrent and on demand)	Purchase Order (print copy) Notice Copyright Request Copyright Request Report Listing Copyright Request Outstanding Listing Production Estimate Follow-Up Notice
Source	Collection Development	Processing Authority files	Processing	Processing
Utility	Describe overall book content	Differentiate among Processing similarly named Authority authors	Book identification	Book identification
Data Element	Annotation	Author dates	Full title	Edition
c Z	49	8	51	52
,		E-13		

ing,

/	-	·	
Product(s) Where Found Catalog Cards DBPH Union Catalog Union Catalog Monthly Update Library Union Monthly Production (LUMP) Bibliographies (Recurrent and on demand)	Catalog Cards IDBPH Union Catalog Union Catalog Monthly Update Library Union Monthly Production (LUMP) Bibliographies (Recurrent and on demand) Talking Book Topics Braille Book Review	Production Authorization Notice Catalog Cards DBPH Union Catalog Union Catolog Monthly Update Library Union Monthly Production (LUMP) Bibliographies (Recurrent and on demand). Talking Book Topics Braille Book Review	Catalog Cards DBPH Union Catalog Union Catalog Monthly Update Library Union Monthly Production (LUMP) Bibliographies (Recurrent and on demand)
Source	Collection De- velopment Processing	Collection De- velopment Processing	Processing
Utility Book identification	Re-production history	Retrieval, Book- cards	Describe actual book content
Data Element Edition statement	Reissue statement	Additional descriptive statement(s)	Contents note
No.	EG	78 2	55

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Product(s) Where Found	Catalog Cards DBPH Union Catalog Union Catalog Monthly Update Library Union Monthly Production (WMP) Bibliographies (Recurrent and on demand)	Catalog Cards DBPH Union Catalog Union Catalog Monthly Update Library Union Monthly Production (LUMP) Bibliographies (Recurrent and on demand)	Production Authorization Notice Production Completion Report Listing Production Completion Report Listing Distribution Schedule Listing Mailing Labels Notice Quota Determination Listing Catalog Cards Union Catalog Union Catalog Union Catalog Monthly Update Library Union Monthly Production (LUMP) Bibliographies (Recurrent and on demand) Talking Book Topics Braille Book Review Truncated Dewey Index, Listing
Source	Processing Authority file	Processing	Processing
Utility	Retrieval	Retrieval	Shelf location; medium indication
Data Element	Added entries	Subject headings	DBPH book number
Š	18 	52	聚 4至9 E-15

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Product(s) Where Found	Catalog Cards DBPH Union Catalog Union Catalog Monthly Update Library Union Monthly Production (LUMP) Bibliographies (Recurrent and on demand)	Production Authorization Notice Produced Book Expenditures—Statistical Summary Truncated Dewey Index Listing Union Catalog Additions——Statistical Summary Catalog Cards DBPH Union Catalog Union Catalog Monthly Update Library Union Monthly Production (LUMP) Bibliographies (Recurrent and on demand)	Catalog Cards DBPH Union Catalog Union Catalog Monthly Update Library Union Monthly Production (LUMP) Bibliographies (Recurrent and on demand)	
Source	Processing	Processing	Processing	Collection De- velopment
Utility	Narrow classifi- cation	Broad classification	Very narrow classification	Link to MARC records
Data Element	Full Dewey number,	Truncated Dewey number	LC class number	LC card number
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Product(s) Where Found	Production Authorization Notice Production BudgetStatistical Summary Catalog Cards DBPH Union Catalog Union Catalog Monthly Update Library Union Monthly Production (LUMP) Bibliographies (Recurrent and on demand) Talking Book Topics Braille Book Review	Production Authorization Notice Production BudgetStatistical Summary Catalog Cards DBPH Union Catalog Union Catalog Monthly Update Library Union Monthly Production (LUMP) Bibliographies (Recurrent and on demand) Talking Book Topics	r or Catalog Cards feer list DBPH Union Catalog Union Catalog Monthly Update Library Union Monthly Production (LUMP) Bibliographies (Recurrent and on demand) Talking Book Topics Braille Book Review
Source	Processing	Processing	Vendor or volunteer list file
Utility	Physical description Processing of book	Retrieval	Identify narrator's affiliation
Data Element	Collation	Narrator name	Studio code
Š	63	\$ 4:21	55
	J	E-17	

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Prodúct(s) Where Found	Catalog Cards DBPH Union Catalog Union Catalog Monthly Update Library Union Monthly Production (LUMP) Bibliographies (Recurrent and on demand)
Source	Processing
Utility	ldentification, grouping
Data Element	Series note
ő	*

Additional pertinent biblicgra-Notes

67

Catalog Cards DBPH Union Catalog

Processing

Union Catalog Monthly Update Library Union Monthly Production (LUMP) Bibliographies (Recurrent and on demand)

FUNCTION: QUOTA DETERMINATION (NETWORK)

		-		•	•	
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Product(s) Where Found	Quota Cards Notice Quota Determination Listing	Quota Cards Notice Quota Determination Listing	Quota Cards Notice Quota Detérmination Listing	Titles in Process——Statistical Summary Library Union Monthly Production (LUMP)	Quota Determination Listing Quota Determination—Statistical Summary	
Source	Collection Development	Library list	Library list	Processing System	Field libraries	
Utility	Weighted re- commendation	Location	Comparison purposes	Reports Monitoring	Capture results, revise quota	
Data Element	Review source	Library name	Number of copies ussigned	Status code: cards sent	Number of copies re- quested	
s Ž	88	69	8,	2 3	73	
•		·	,	4:2:3 E-19		,



FUNCTION: BOOK PRODUCTION

	Product(s) Where Found	Request for Price Quotation	Titles in Process——Status Library Union Monthly Production (LUMP)	Titles in ProcessStatistical Summary	Library Union Monthly Production (WMP)	Production Authorization Notice Production Status Report Listing Production BudgetStatistical Summary Production Book ExpendituresStatistical Summary	Production Authorization Notice Production BudgetStatistical Summary	Production Authorization Notice
DUCTION	Source	Processing	Production Volunteer list	Processing	System	Processing	Processing	Processing **
ON: BOOK PRODUCT	Utility	Assure that DBFH specifications are met	Producer identi- cation	Reports	Monitoring	Reports	Reports	LC accounting . requirement
	Data Element	General in- structions	Volunteer studio Producer identi- or group name cation	Status code: request for price quo-	tation sent date	· Total cost	Total number of copies,	Purchase order number (repro- duction)
	Š	7.4	75	76	1	78	79	80 ,
				5	42	<u>.</u>		•
				E-	-20	<u> </u>	•	

FUNCTION: BOOK PRODUCTION (cont'd)

								,
Product(s) Where Found	Production Authorization Notice Production Estimate Follow-Up Notice Titles in "ProcessStatistical Summary Production Status ReportStatistical Summary Quota DeterminationStatistical Summary Production BudgetStatistical Summary	Library Union Monthly Production (LUMP)	Production Status Report Listing	Production Status Report Listing	Production Estimate Follow-Up Notice Titles in ProcessStatistical Summary	Production Status Report Listing		Production Status Report Listing
Source	Processing	System	Processing	System	ing	Processing	Office Services	Produ œr
Utility	stoc.	Monitoring	Monitoring	System mechanism	Monitoring Processing	Monitoring	LC accounting requirement	Monitoring
Data Element	Status code: production cancelled code or pro- duction sent	däte	Date of pro- duction start	30-60-90-120 day flag	Follow-Up	Sute of pro- duction com- pletion	Payment in- formation	Estimated com- pletion date
Š	₩,	82	.; ₩	2 2	85	88	87	88
,			4:25	E-21				

FUNCTION: COMPLETED BOOK SHIPMENT

		*							
	Product(s) Where Found	Titles in Process——Statistical Symmary Production Status Report——Statistical Symmary Production Status Report Listing	Production Completion Report Listing Production Completion Report Listing Library Union Monthly Production (LUMP)	Production Completion Report Listing	Titles in Proce statistical Summary	•	Distribution Schedule Listing	Mailing Label Notice	
OON SUITINEIN	Source	Processing	Processing System	Processing	Processing	System	Processing	System	
	U+11:47	Reports	Reports Monitoring	Reports	Cue to shift title to Union Catalog;	assure receipt Monitoring			
	Data Element	Status code: all copies shipped	some copies shipped date	Total number of copies	Status code: all copies received	date	Number of copies to be shipped	Copy number on mailing label	
	Š	88	90 16	92	93	94	95	96	
					E-22				



FUNCTION: HOLDINGS INFORMATION

a	٠.	4		•			
Product(s) Where Found	DBPH Union Catalog (**) Union Catalog Monthly Update	DBPH thion Catalog Union Catalog Monthly Update	DBPH Union Catalog Union Catalog Monthly Update	DBPH Union Catalog . Union Catalog Monthly Update	DBPH Uhion Catalog Union Catalog Monthly	DBPH Union Catalog Union Catalog Monthly Update	Q
Source	Library list Processing System	Library ' , list	Field library Processing	Field library Processing	Library list Processing	Field library	
Utility	Locations, nation— wide	Specific locarion(s)	Identification	Physical Caldescription	Actual produc- er: .ecognítion	Comparative value of produce	
Data Element	Network hold- ing code(s) date	Material location code(s)	Local book number	Local	Producing agency or library (if different from material location code)	Quality code(s)	
Š	97	66	100	101	102	103	
		, , , , , , , , , , , , , , , , , , ,	E-23			4	

FUNCTION: HOLDINGS INFORMATION - cont'd

Product(s) Where Found	DBPH Union Catalog Union Catalog Monthly Update	Union Catalog Additions——Statistical Summary	
Source	Library list Processing	Processing System	
Utility	Obtaining a copy of the book	Reports Monitoring	B
Data Element	Lending condi- tions code	Status code: information added or information deleted	2
°Z	104	105	2

STANDING LIST: NETWORK LIBRARIES

Source	Reference	Reference	Processing	Collection Development	Processing	Processing	Field libraries
Data Element	Library name (including DBPH)	address	epoo	Distribution (number of copies) code(s)	Union catalog product distribution code	Cataloging arrangement code	Lending conditions code
Š	-	2	က	4	٠ ک	3	7

STANDING LIST: VOLUNTEER GROUPS

Š Ž	Data Element	Source
ω	Group or studio name	Production
٥	address	Production
10	staff size	Production
buns buns	specialty codes	Production, Volunteer Utilization
12	equipment	Production, Volunteer Utilization
13	contact person name	Production, Volunteer Utilization
14	address	Production, Volunteer Utilization
15	phone	Production, Volunteer Utilization
16	Volunteer name	Production
17	Language skills code	Production, Processing
18	Certification level code	Production, Processing
19	Specialty code(s)	Production, Processing



STANDING LIST: VENDORS, JOBBERS, PRODUCING AGENCIES

			,		
Source	Processing	Processing	Processing	Processing	•
`			.		
Dața Element	Service code(s)	Name	Address	Code	
Š	20	21	22	23	

PUBLISHERS STANDING LIST:

Dota Element	Nome	Address	Code (if any)	Previous name(s)
°Z	24	25	. 26	27

Source

Collection Development

Collection Development . Collection Development

Collection Development

STANDING LIST: AUTHORITY FILES

Source	Processing	Processing	Processing	Processing	Processing	. Volunteer list	Processing	Processing .	Processing
Data Element	Name Authority File	birth & death dates	book number(s) on which name appears	see references	Narrator Authority File . narrator name	· studio code	see referances	Subject Authority File crem	references: use for, broader term, see also, etc.
Š	28	29	8	<u>.</u>	32	33	8	35	8

APPENDIX F

AUTOMATION OF RELATED AREAS.

This Appendix consists of those areas of operation within DBPH that are to be considered The initial effort to obtain bibliographic control will continue for automation in the future. The following topics should be analyzed and implemented to have the highest priority. as time, funds, and resources permit.

Reference

A. The Reference Section is responsible for the development of the Division's collection of print materials on all aspects of blindness and other physical handicaps, as well as the maintenance of the Division's archives. With this collection and materials through other divisions of the Library of Congress, the Reference Section provides service to DBPH staff: the Library network serving the handicapped; professionals, researchers, students in the United States and abroad; and the general public.

Reference circulars, bibliographies, accession lists, fact sheets, and other compilations of information about the DBPH program or handicapping conditions, are prepared and distributed to interested individual and to libraries and organizations in related fields. In addition, statistics and other program information are collected and disseminated for use by DBPH staff and network participants.

- Because of the level of intellectual effort required by many of the tasks assigned to the Reference Section, they do not lend themselves to automation. There are, however, a number of manual procedures that could be improved and a number of services that could be amplified by computerization and a systems approach. Specifically, the following areas should be addressed:
 - Study the use of a word-processing system for the production of responses to to inquiries and other items such as official lists of Libraries and directories, as applicable. This system is useful where repetitious actions, that can be done automatically, are involved.
 - Review of the present ordering procedures for reference materials, in order to allow interface with L.C. Order Division systems, as well as reduce the clerical effort and multiple forms presently required by the manual system.
 - Analysis and revision of the present serial ordering, cataloging, check-in, routing, and maintenance procedures to permit the use of automation and microforms where possible.



- 4. Collection and preparation of the Division's archieves for microphotographing, and investigation of the possibility of microphotographing other permanent documents with circulation potential.
- 5. Investigate acquisition of on-line searching capability of the most relevant commercial data bases.
- 6. Develop a system design and implementation plan for a computerized data base of material concerning blindness and other handicaps with provision for cataloging, selective dissemination of information, and distribution of relevant documents.
- 7. Develop a circulation system that will assist in the promotion and wider use of the Division's reference collection. (See also II-B and VIII-B)
- 8. Utilize reports produced to answer administrative functions (See Item IV) and research and development needs (See Item VI) in statistical studies, and adaptation of the system designed to produce these reports for statistical purposes, wherever possible.

It should be noted that the feasibility of DBPH undertaking any of the above specific activities will take into consideration existing services provided by other agencies.

Il Music.

A. The Music Section of DBPH is the major national source for music scores, textbooks, and instructional materials for use by eligible readers in a variety of formats including braille, disc recordings, cassette and open reel tapes, and large print music.

Material in the Section's collection is loaned directly to users, and reference questions on all aspects of music are answered. As with the reading material provided by the Division, the music collection is enhanced by the addition of items produced by volunteers.

- B. Particular types of activities in the Music Section are well suited to automation and should be investigated in conjunction with similar needs in other DBPH sections (See also I-B and VIII-B).
 - 1. Investigate, plan, and implement steps necessary to develop a format for a data base of machine readable cataloging for the material in the Music Section Collections, including the upgrading of present cataloging records to conform to this standard.

435



- 2. Study the means of integrating technical processes activities into the overall technical processes system.
- 3. Develop a design and implementation plan for a circulation system in conjunction with other relevant sections of DBPH (see also VIII B)

III Inventory Contol

A. DBPH provides both reading material and the equipment required to use the books and magazines. At present, a manual machine list is kept for phonographs and cassette players, giving the model, the model number, and quantity shipped to each library. In addition, a list of serial numbers is available for machines acquired in the last 2 years. Records kept for machine attachments give only the quantity of the particular accessory shipped to each library. DBPH maintains the nucleus of an inventory controll system for reading material in an "out" file of books shipped.

In order to fulfill auditing requirements, an inventory of machines, accessories, parts, office equipment and supplies must be maintained.

- B. To better satisfy auditing requirements and the material control demands of the Division, the following items should be considered.
 - 1. Develop a design and implementation plan for an inventory control system for equipment including machines, accessories, parts and consideration of machine-contract ramifications.
 - 2. Develop and/or integrate into the machine system, if possible, an inventory system for books and investigate its interaction with a circulation system for reading material.
 - 3. Develop and/or integrate: the inventory of office supplies and equipment into an automated inventory system.

IV Administrative Functions.

- A. Cos: accounting, budget preparation, monitoring available funds, planning, contracting, project status reports, mailing lists, and other related operations fall within the broad category of administrative funcions.
- B. Although many administrative functions cannot be automated, the following areas should be studied.



F-3

- Develop a design and implementation plan for a management information system including provision for regular, systematic reports as well as special reports on demand. The capabilities of the DBPH bibliographic system should be utilized whenever possible.
- 2. Develop a system to produce mailing labels for individuals, libraries, organizations, etc. in any quantity and any combination of desired selection criteria, with a capability for rapid turnaround.

V Volunteer Activities.

A. The Production, Volunteer Training, and Volunteer Utilization sections organize and tap a nationwide network of trained narrators, monitors, braillists, proofreaders, and equipment specialists, who donate their time reproducing books and music and repairing equipment.

The several sections keep various card files containing basic information such as name, address, and telephone number, in order to facilitate equitable assignment of work.

Since volunteers are essential to the production cycle and, therefore, to the bibliographic system, volunteer profiles should be kept. An automated system for storing these records should be developed that contains information such as name, address, organization, skills, current projects, etc., and allows for retrieval through various access prints and their combinations.

VI Research and Development.

- A. Research and development projects are carried out in a number of areas such as equipment, reader characteristics, media, planning, and automation.
- B. Although actual research and development projects are not necessarily "automatable", they can be monitored through the management reporting system described in Section IV, Administrative Functions.

VII Publication and Information.

- A. The DBPH Publications Office plans the publications programs for the Division, determining priorities according to current needs of the Division and cooperating libraries. At present, all of the copy preparation and other pre-composition work is accomplished manually. In addition, a liaison officer from the L.C. Information Office assists in preparation and dissemination of media releases for the Division.
- B. There are several ways in which automation could assist in the activities involved.



- 1. Employ existing text-editing systems to prepare and store appropriate publications material.
- 2. Study the potential for computer composition of publications material.
- 3. Investigate the possibilities of editing annotations of DBPH materials to suit specific publications requirements.

VIII Direct Service

- A. The Resources Coordination and Collection Maintenance Units are currently responsible for circulating braille directly to readers in four states and requested items to libraries throughout the country. At present, this is a completely manual operation involving the use of manual "out" and reserve files.
- B. Although implementation of the new bibliographic system will undoubtedly alter the character of work in the Resources Coordination Unit, it will still be necessary to supply books to libraries in conjunction with the Collection Maintenance Unit. To assist in this effort, the following should be addressed.
 - Design and implement a circulation system including provisions for machine-aided check-in/check-out and compilations of statistics. This system should utilize the overall bibliographic system, where possible.
 - 2. Investigate the potential of machine-readable labels to speed circulation.

IX Miscellaneous Documents

- A. There are various documents that are used across organizational and functional boundaries. Examples are draft versions of publications and standards, contracts, operational procedures, and committee reports.
- B. Since all of these documents require development, input, and review from a variety of sources, a system should be investigated that will allow the parties involved to access all appropriate management, statistical, and bibliographic data. In addition, a text-editing system should be available that will allow documents to be constructed from all available data.



GLOSSARY OF SPECIAL TERMS

- The are of freedom from error. Calculations herein are 95% accur. + or 2 standard deviations based upon randomly-gathered samples.
- 2. Annotation

 A note that describes, explains or evaluates. DBPH produces annotations as concise abstracts of books with the aim of conveying approxim to plot information and author's credentials.
- 3. Author

 The writer or equivalent originator of the book as expressed under ac eptable cataloging rules. When the author is used as the "main entry", the complete bibliographic and annotation information is listed under the author name.
- 4. Authority File List of names, terms and references used in the Catalogs of the Library.
- A system approach to processing where similar data to be processed (input terms) are accumulated for processing during the same time on the computer. Also called batch processing.

 Also called off-line processing.
- A list arranged systematically, of all documents within a specific Universe with sufficient description to afford access. Herein, the book catalog can be on paper (sometimes called "hard copy") or on microform.
- 7. <u>Book Number</u>
 A combination of letters and figures which serve to identify a specific physical item or container and to place those items in order.
- A type of microform camera in which the document being photoraphed and the film remain in a stationary position during the exposure. The document is on a plane surface at the time of exposure.
- 9. Camera, Step and Repeat images on an area of film according to a predetermined format, usually in orderly rows and columns.

- A series of numbers or letters and numbers indicating the class to which a title belongs. Herein, two library classification systems are considered: (1) LC Classification (LC) and (2) Dewey Decimal Classification (DDC).

 That part of the catalog entry which describes the work as a material object, enumerating its volume, pages, size, and
- (1) Computer Output Microfilm: Microfilm containing data produced by a recorder from computer-generated electrical signals. (2) Computer Output Microfilmer: A recorder that converts data from a computer into human readable language and records it on microfilm.

other physical dimensions.

- Subject matter, such as chapter headings, titles of poems, short story titles, etc., specifically identified in a catalog entry.
- The exclusive privilege of publishing and selling a work, granted by a government to an author, composer, or artist, etc. Copyright date is the date granted. DBPH must obtain permission from the copyright holder to produce any material.
- 15. Core Memory

 A form of high speed internal memory based on magnetized to vids (magnetic cores) for storage of individual binary digits.
- Central Processing Unit. The unit of a computing system that performs calculation and/or makes logical decisions based on a man-made rogram of operational instructions.
- 17. Data

 A general term for the symbols used to refer to or describe an object, idea, condition, situation or other factor.
- 18. DBPH Control
 Number

 The uniquely assigned number to identify a book from the time it is acquired in print form until it is produced in tactile or record form.

- 19. <u>Dewey Number</u> The specific decimal number assigned to a book under the Dewey Decimal classification scheme.
- A slow, inexpensive print film that is sensitized by mans of diazonium salts. An image is developed on this film after exposure to light which is strong in the blue or ultraviolet spectrum. Can be developed using inexpensive equipment located in any room without special lighting or controlled environment.
- 21. <u>Disc</u>

 A storage device consisting of magnetizable surfaces on a phonograph record-like disc. Quickly-accessible segments can be brought into core for processing.
- 22. <u>Duplicate</u>
 (1) In microcopying, a copy made from a "master fiche" or an intermediate called a "working master". (2) To make multiple documents.
- 23. Entry
 (1) A record of a document in a catalog, index or list.
 (2) A posting.
- 24. Fiche

 Shortened form of microfiche, a sheet of microfilm (105mm X 148mm) containing microimages in a grid pattern and a heading (inscription placed at the top to identify its contents which can be read without magnification).
- 25. Frame
 Used herein as a representation of a document or other information source produced by a camera, reduced to a size too small to be read without magnification and placed on a microform.
- The printed copy of machine, computer or system output, e.g., printed reports, listings, documents, enlarged microimage, etc.
- 27. <u>Hurdware</u> The machine aspects or physical equipment such as the computer, terminal, printers, etc.
- 28. <u>rleading</u>

 The word, name, or phrase at the beginning of an entry to indicate some special aspect of the book (authorship, subject content, etc.) and bring associated material together in the catalog.



29.	Holdings Statement	The material location information in the catalog entry.
30.	Index	A file of entries in an organized arrangement (author, title, subject, etc). The index is smaller (and more manageable) than the collection itself, contains less than full bibliographic data on items listed, and grows less than the total collection itself.
31.	Index Entry	The part of an index which covers a specific index term or item.
32.	<u>Item</u> .	(1) Designates a discrete microfiche card. (2) A reference to a document or a specific entity.
33.	Library of Congress Classification Number	A specific letter-number combination assigned to a title under the LC classification scheme.
34.	LUMP	Library Union Monthly Processing file (DBPH acronym). This file contains all known books in the process of being completed or under consideration for this program during the last 5 years.
35.	Main Entry	A full catalog entry, generally arranged by the author entry (if there is one, and by title entry if not) giving all the necessary information to identify the specific item.
36.	MARC	MAchine-Readable Catalog (Library of Congress acronym).
37.	Master Fiche	The original microimage from which copies are made. These copies are then called "working masters".
38.	Microfiche	See "Fiche".
39.	Microfilm	A fine grain high-resolution film containing images greatly reduced in size from the original. The film is usually 16 millimeters wide. , Sometimes 105-millimeter film is used and cut into a card form called microfiche.
40.	Microform	A generic term describing any miniturized form containing microimages. Examples, microfilm and microfiche.



41.	Narrator	The term describing the person making the recording of a book on discs or cassettes for use by patrons.
42.	On-Line	Data is entered into the computer directly from the point of origin and/or exit directly to their destination.
43.	Peripheral Equipment	Equipment which is not under direct control of the central processing unit; also refered to as auxiliary equipment. Primary examples are terminals and printers.
44.	Producing Agency	The organization responsible for producing a book or periodical used by DBPH from the original master reproduction.
45.	Program	See "Software".
46.	Publication State- ment	Contains the year material was produced (publication date) and the person or corporation issuing the book (publisher).
47.	<u>Reader</u>	In microfilming, the projection device for viewing an enlarged microimage with the unaided eye. When the device can also produce an enlarged image on suitable paper, it is called a "reader-printer".
48.	Reduction Ratio	A measure of the number of times a given line or dimension of an object is reduced when photographed, expressed as 24X, 42X, 48X, etc.
49.	Resolution	The ability of optical systems and photo-materials to render visible fine details of an object; a measure of the sharpness of an image usually expressed as the number of lines per millimeter.
50.	<u>Software</u>	The totality of programs and routines used to extend the capabilities of computers.
51.	Subject Heading	A word or group of words describing the content of a book. All material to which a particular heading had been assigned is entered under that heading. DBPH uses LC Subject Headings to the greatest possible extent.



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52.	<u>Term</u>	(1) A word used in an index. (2) A description attribute, parameter or concept to describe an item for the purpose of storing it in, or retrieving it from, a storage and retrieval system.
53.	Termina!, Display	The point in a system or communications network at which data can enter or leave. Instead of printing input/output, it is displayed on a Cathode Ray Tube (CRT) just like a television screen.
54.	Terminal, Hard	Same as above except paper is used to capture input/output.
55.	Title Entry	The record of a work in a catalog when found under the title. Where no author is present this also can become the "Main Entry".
56.	Union Catalog	An orderly compilation of holdings of DBPH, network libraries and participating organizations, presumptive of cooperation (as seen with interlibrary loan agreements) between the parties involved.
57.	<u>Update</u>	To make changes to current information and delete obsolete information in a master file.
58.	Volume	A book distinguished from other books or from other major divisions of the same work by having its own inclusive entry. This unit may also be designated "part" by the publisher.
59.	Working Document	The initial DBPH book catalog containing only press Braille and recordings produced under contracts for distribution to all network libraries. This document will eventually be replaced by the DBPH Union Catalog.
60.	Working Master	The intermediate microform from which distribution copies are.

made.