

DOCUMENT RESUME

ED 093 368

IR 000 863

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TITLE A Description of the Environmental Protection
Agency's In-House Library Systems.
INSTITUTION Environmental Protection Agency, Washington, D.C.
Library Systems Branch.
REPORT NO EPA-LIB-74-01
PUB DATE Feb 74
NOTE 168p.

EDRS PRICE MF-\$0.75 HC-\$7.80 PLUS POSTAGE
DESCRIPTORS Books; *Computer Oriented Programs; *Environmental
Education; *Information Retrieval; *Information
Systems; Library Acquisition; *Library Automation;
Library Collections; Library Networks; Library
Services; Program Descriptions; Reading Material
Selection; Regional Libraries; Search Strategies

ABSTRACT

The Environmental Protection Agency's (EPA) inhouse library systems fall into two principle categories: basic library inventory systems and literature retrieval systems. Currently, the library network supports three inventory systems: the journal system; the hard bound book system; and the circulation system. At the same time, five efforts are under way in the area of literature retrieval: (1) a system involving bibliographic information concerned with the health aspects of pesticides; (2) a similar application in the area of air pollutants and their effects on vegetation and animals; (3) a system covering a collection of international environmental reports pertaining to national environmental policies and laws; (4) an EPA reports system using master files provided by the National Information Service (Department of Commerce); and (5) an EPA document control system which monitors documents not covered by other library applications. Each of these systems generates comprehensive computer outputs meeting the total needs of the data managers as well as the daily user. (WCM)

A DESCRIPTION OF THE ENVIRONMENTAL
PROTECTION AGENCY'S IN-HOUSE
LIBRARY SYSTEMS

February 1974

LIBRARY SYSTEMS BRANCH
MANAGEMENT AND ORGANIZATION DIVISION
MANAGEMENT INFORMATION AND
DATA SYSTEMS DIVISION
OFFICE OF PLANNING AND MANAGEMENT

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U. S. ENVIRONMENTAL PROTECTION AGENCY
Washington, D.C., 20460

A DESCRIPTION OF THE ENVIRONMENTAL PROTECTION AGENCY'S
IN-HOUSE LIBRARY SYSTEMS

February 1974

Library Systems Branch
Management and Organization Division
Management Information and
Data Systems Division
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A Description of the Environmental Protection Agency's Inhouse
Library Systems

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TABLE OF CONTENTS

PAGE

PURPOSE AND SCOPE.....	1
INVENTORY APPLICATIONS.....	1
LITERATURE RETRIEVAL SYSTEMS.....	1
COMPUTER HARDWARE.....	3
COMPUTER SOFTWARE.....	3
SYSTEM PHILOSOPHY.....	5
APPLICATION OF COMPUTER OUTPUT ON MICROFORM (COM)	7
SYSTEM DESCRIPTIONS:	
JOURNAL HOLDINGS INVENTORY.....	8
HARD BOUND BOOK SYSTEM.....	16
CIRCULATION SYSTEM.....	36
PESTICIDES LITERATURE SEARCH SYSTEM.....	45
ECOLOGICAL AIR POLLUTANT LITERATURE SEARCH SYSTEM.....	57
EPA REPORTS REPORTING SYSTEM.....	70
INTERNATIONAL ENVIRONMENTAL REPORTS SYSTEM.....	80
DOCUMENT CONTROL SYSTEM.....	91
SYSTEM COMPARISONS.....	106

Purpose and Scope

EPA's inhouse library systems fall into two principle categories: basic library inventory systems and literature retrieval systems.

The Inventory Applications

Currently, the library network supports three inventory systems: the journal system; the hard bound book system; and the circulation system. The journal and book systems are national in scope and serve the agency in the following ways:

1. The systems facilitate intelligent and efficient ordering. With the knowledge of the total inventory, the librarian can determine what additional journals and books should be ordered to stock the library properly in each of the environmental subject areas. Also, by reviewing the inventories of nearby EPA libraries, the librarian can determine if the journal or book should be ordered or borrowed from another EPA library.
2. These inventory applications provide for better utilization of library space. Libraries in a given region can coordinate inventories so that unnecessary duplication of holdings does not occur.
3. The systems assist the users of the library. By presenting complete and concise inventory documents, the users are able to obtain a better understanding of the vast information available in the total library network.

The third inhouse inventory application is the circulation system. This system is local in nature in that it services individual EPA libraries. Currently, this application is being used in various EPA Libraries including the Washington D.C. Library, the National Environmental Research Center Libraries in Cincinnati, Ohio, and Research Triangle Park, North Carolina, and regional libraries in Seattle and Chicago. This system will be extended for use to any library requesting it. It provides the librarian with the ability to monitor all aspects of library material on loan.

Literature Retrieval Systems

At this time, five efforts are underway in the area of literature retrieval:

1. A system involving bibliographic information concerned with the health aspects of pesticides,
2. A similar application in the area of air pollutants and their effects on vegetation and animals.

3. A system covering a collection of international environmental reports pertaining to national environmental policies and laws,
4. An EPA reports system using master files provided by the National Technical Information Service (Department of Commerce), and
5. An EPA document control system which monitors documents not covered by other library applications. A major component of this collection is the vast environmental state and local report collection held by the EPA library system.

Each of these systems generates comprehensive computer outputs meeting the total needs of the data managers as well as the daily user.

The Computer Hardware

All of the inhouse library systems utilize the National Institutes of Health's computer facility located in Bethesda, Maryland. This facility is one of the world's largest biomedical research computer centers.

The library systems have been developed and maintained on NIH's two IBM 370/165's. In addition to providing an extensive on-site computing facility to the many users, this center supports a comprehensive remote job entry and telecommunication capability. Through this capability, users in all parts of the country can communicate with the central computer center and perform all operations as if they were on-site. A large number of EPA's regional offices and National Environmental Research Centers are linked to NIH. To give the reader an idea of the capacity of this center, in April 1972 the center handled more than 125,000 jobs including 30,000 low speed communicating terminal sessions. In June, 1972, the second IBM 370/165 was installed. This computer has three million bytes of storage and the ability to perform over twelve and a half million computations per second. (1) The facility can support over two hundred low speed communicating terminal users simultaneously.

The Computer Software

Wylbur--This is a computer program which serves as a text editor and remote job entry facility. Developed by the Stanford University Computation Center, Wylbur has been adapted for use at the NIH computer facility. This program allows a user to communicate on-line (via a low speed communicating terminal) with the central computer and to perform a comprehensive text editing function without interfering with other jobs being processed by the computer. Using Wylbur, one can create, modify, store and retrieve text. This text can take the form of a computer program, a data master file, or even a business letter. (2) All of the computer programs, system documentation, and many of the library systems' master files are built and maintained through Wylbur. This documentation package was fully developed and edited using Wylbur. As comprehensive as this text editor is, it has been easily learned and extensively used by people with no data processing experience.

The Inquiry And Reporting System (IRS)--This is a commercially available data retrieval and report generation software package. It provides

(1) INTERFACE, (No. 34; Bethesda, Maryland: The Computer Center, Division of Computer Research Technology, National Institutes of Health, June 5, 1972). pp.

(2) WYLBUR REFERENCE MANUAL, (Bethesda, Maryland: The Computer Center, Division of Computer Research Technology, National Institutes of Health, December, 1970). p. 3.

a fast, efficient, and simple technique for extracting information from computer files, performing basic data processing functions, and producing the desired form of output. (3) All of the computer programs in each of the library systems has been written in this computer language.

(3) INQUIRY AND REPORTING SYSTEM USER'S GUIDE, (Bethesda, Maryland:
Sigma Data Computing Corporation, 1968), p.1.

The library application's initial development began nearly thirty months ago. Over time a basic system design approach has developed and some of the major aspects and considerations of the approach are presented at this juncture.

As described, the inhouse library systems involve two broad areas: library inventory systems and literature retrieval systems. In developing systems in these areas, standards of development have been established. This includes master file organization, basic computer programming techniques, alternative methods of input development and control, primary computer outputs, and so forth. The basic premise is to apply standards that have been used successfully in one area to other similar areas. An example of this approach is the agency's pesticides and air pollution systems. The pesticides system was developed first. The same primary standards were applied to the air pollution system. One of the favorable results was that the development time and costs of the air pollution system were 25% less than those of the comparable pesticides system. Another important result of using similar approaches is the reduction of training costs associated with understanding any phase of the two systems. A data preparation clerk for one system can easily learn the procedures for the other. A researcher who understands the outputs of one can quickly learn how to use the outputs of the other. In every way, learning about one of the systems helps lay the foundation for learning about the other.

A second consideration is to make available to other libraries systems that have worked for an individual library. The circulation system is an example of this approach. This system was developed for the Headquarter's library. Recently, it has been implemented in five other EPA libraries that can justify its need.

A third consideration of the system's approach is that in the development of each system the first technical procedure (following a thorough discussion of the application by the technical and functional parties) is that of establishing a working system based on a small test data base. As this test system develops the technical and functional parties work closely together insuring that the final result meets the total need. When the small test system is completed all concerned can be reasonably certain that the system will function as intended. The critical consideration is that a small test system is developed, analyzed, modified, and completed prior to the commitment of any large resource to the effort. As a result of this procedure, none of the established systems have undergone major modifications beyond the test phase.

Another important aspect of this system's approach involves the planned, effective utilization of the powerful hardware/software environment employed by these systems. The use of the on-line capabilities in each application is well planned. While small scale on-line monthly updating is used extensively, the larger initial data bases have been provided in machine readable form by contractors using conventional off-line data preparation methods. In all but the circulation system, the master files are maintained off-line on magnetic tape. Whenever practical, computer processing is accomplished during the lowest priority of computer job class. This can mean a savings of 25% over what higher unnecessary job priorities would cost. The proper use of the computer environment is essential if any system is to be cost effective.

in any computer based system, an accurate and current data base is essential if a library application is to prove successful. In achieving such a data base, the proper use of input forms is crucial to the system. Generally, the greater the number of decentralized sources of input, the more rigid and defined the input forms and procedures must be. In our book system, approximately twenty-eight libraries from around the country submit input forms daily. The input form is well structured, and complete instructions to the participating libraries are provided. On the other hand, the circulation system serves an individual library. The input forms and controls are somewhat less rigid as all aspects of the system are managed by one individual in each library. Another important consideration is to design the input forms as closely as possible to the actual master file format. This will keep input costs as reasonable as possible.

Certainly one of the most important considerations in the design of any of the library applications is that the users' needs are satisfied. Each of the systems is designed to provide a complete set of documents presenting the data in the required formats. In the literature search applications, reports meeting refined search requirements can be generated. In all the systems, any report can be available within twenty-four hours of the request. The systems are designed to allow the user to be computer independent with the reports providing all of the necessary information. They are designed in this manner to allow for users without terminals to benefit from the systems. A further consideration is that all basic information is available if the computer is down. When necessary, the user is provided assistance by trained people who can efficiently access the systems. This not only insures that the user will be well served, but keeps system operation costs to a minimum.

In the initial design stage of user oriented systems, a primary step is to outline the necessary information report outputs. Once this is defined, the remaining elements of the system, such as file formats, input procedures, data element specifications are designed. An important point is to keep the input layouts and file formats as close in design to the principle output formats as possible. This will greatly reduce computer programming and system operation costs as well as enhance the ability of a user to comprehend the system.

A final consideration in our design approach is the desire to make full use of data bases that are not initiated and maintained inhouse. The EPA Reports System (reports submitted to NTIS) and the International Environmental Reports System are examples of this approach. In both cases the data bases are prepared by other organizations. The necessary software is developed inhouse that allows for the generation of the required information reports.

Each of the considerations described above has contributed significantly to the effective development of these systems. However, the crucial consideration necessary for the success of any system is functional people who truly understand their subject areas and their customers' needs. Without the active participation of such people, it is unlikely that any system will succeed.

Application of COM (Computer Output on Microform) in the Library Systems

One of the most significant features of these systems is that most of the reports are available on COM (Computer Output on Microform). This allows for wide distribution of any output at a very small cost. The NIH Computer Center provides output on microfiche or microfilm in the form of an on-line Datagraphix 4400 Business Graphics Recorder. (4) To date, the library applications have used only the microfiche feature of this equipment. The microfiche has a reduction ratio of 42X. In real terms, one microfiche contains the equivalent of over 200 pages of hard copy constituting nearly 12,000 lines of print.

One of the principle reasons for the use of COM is in a situation where many copies of a structured computer generated information report are desired. The original COM costs little more than hard copy to generate. From the original, one can generate any number of copies for pennies. EPA's inhouse copies cost about four cents per microfiche. COM plays an important part in EPA's library systems because several of the reports are widely distributed both domestically and internationally. Without the microfiche medium, such distribution would be too costly for EPA to undertake.

In addition to being an inexpensive means for distributing information, in many instances, COM represents the most practical presentation of large amounts of data widely desired. Large reports not only are impractical to store but are impractical to use. One of the systems' subject indexes creates a report of 60,000 records equal to 4,000 pages or 240,000 lines of print. On microfiche, it was presented on twenty indexed microfiche less than one half inch thick.

In an area such as environmental information, complete data bases are desired by universities, foreign countries, corporations, and public groups. Mailing of large expensive reports is impossible. Domestically, one can mail five microfiche for the price of first class letter postage.

There are numerous on-line interactive computer efforts operating in the information area. The day when unlimited, on-line access to any data base is available is still some time away. Microfiche is not computer bound. It is not necessary to have access to a communicating terminal, a telephone, or a computer to use microfiche. All that is necessary to use microfiche is a reader costing approximately one hundred and fifty dollars, less than one month's rental on many communicating terminals.

A further consideration in the use of microfiche is the paper shortage. As the paper shortage continues, the necessity for a reasonable alternative will increase. The day may not be too far off when the seven inch computer listing is an expensive, impractical item of the past. COM represents one practical alternative.

COM is a very useful form of computer output. The EPA library systems have made extensive use of COM simply because with proper training, the ultimate users of these systems find COM an acceptable, inexpensive means of satisfying their information need.

JOURNAL HOLDINGS INVENTORY SYSTEM

Below is a brief description of each of the inhouse library systems. Comparisons of systems, costs, development time, and so forth are presented in a table at the end of this documentation. In order to interpret properly the information in the table, a thorough understanding of the system description is necessary.

The Journal Holdings Inventory System

Purpose and Scope

This system gathers data on the journal holdings of all participating EPA libraries and generates a journal holdings document reflecting the inventory at any given time. In addition to generating a total EPA holdings report, an individual holdings report by library is produced. All libraries receive copies of the total journal holdings report as well as the report reflecting just the particular library's holdings. All other interested areas receive a copy of the total journal holdings report. An updated edition is generated once a year.

Data Elements

Journal titles are maintained on a title file which also contains the International Standard Serial Number. All holding information is maintained on a holdings file. Each record on the holdings file contains the library identification and the basic holding information--volume and year. The files are linked together by a journal identification number which appears on both files. The system is designed in this manner so that once a title is entered, only a holding entry is required to identify the same journal in a new library. Document #2 (page 11) is a sample file format.

Status

All of the computer programs are operational. The data base is complete. The system contains nearly 2500 titles and nearly 6000 holding entries. The second edition of the principle report has been printed. The cost of computer program execution of the primary journal document (second edition) was under \$16.00. A special computer program which generates all twenty-eight individual library holding reports was executed at an average cost of under \$.60 per library. The reports were also generated on microfiche. In July, 1973, the International Standard Serial Number was added to the majority of the journal titles.

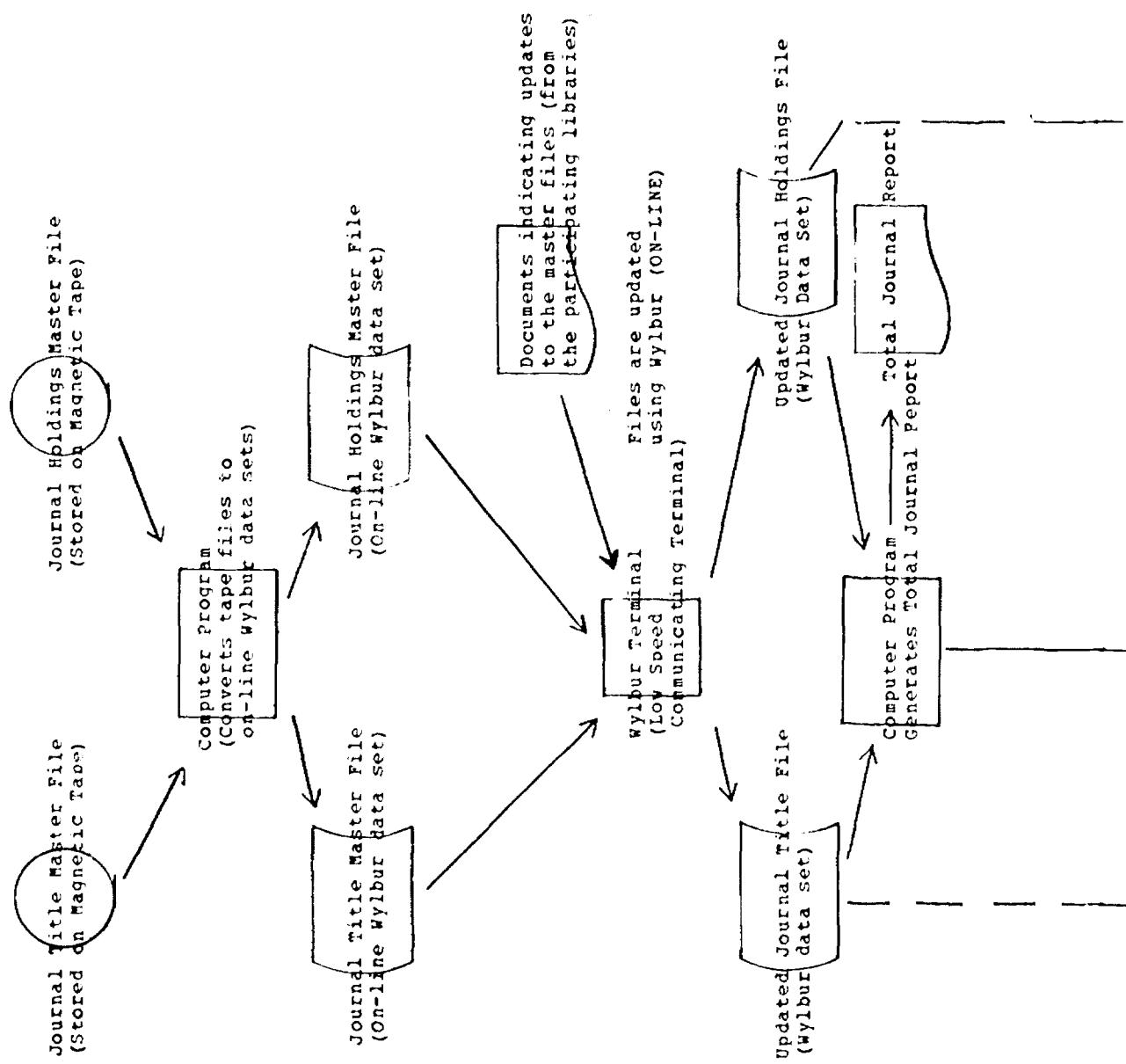
Plans

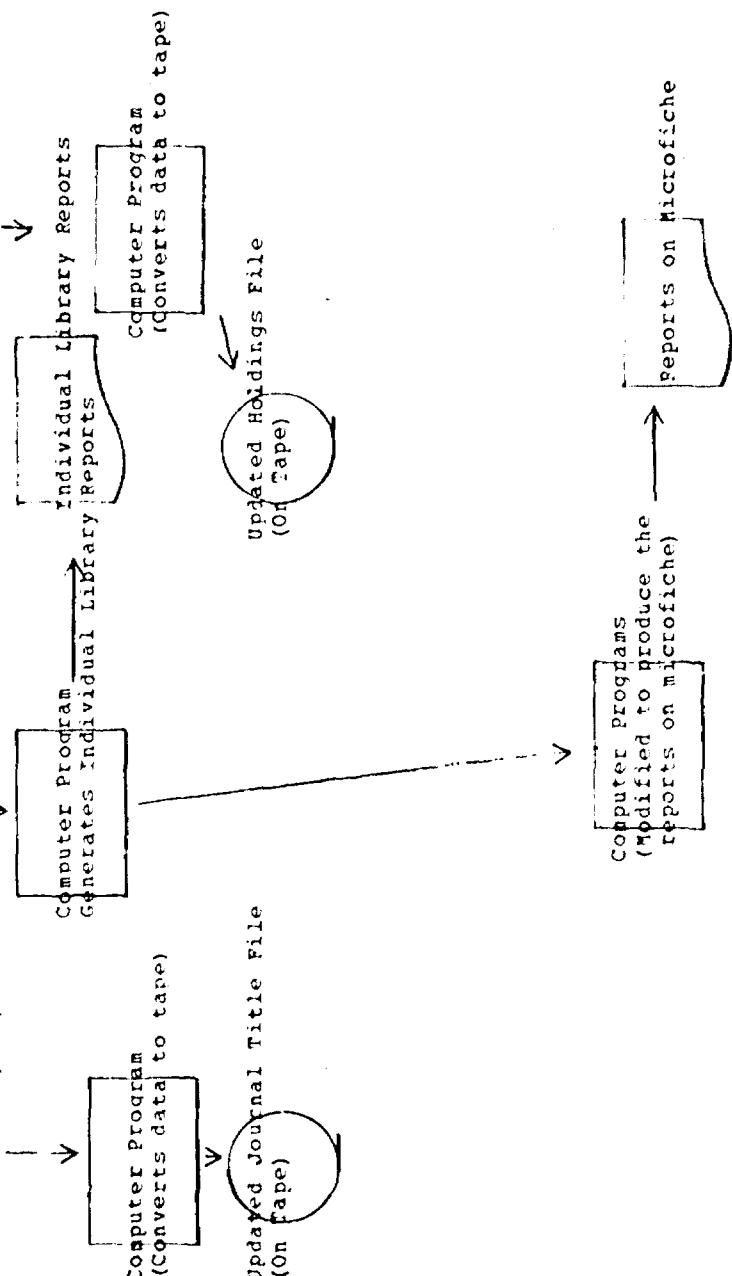
The ability to assign multiple subjects to the journal titles and generate journal title reports by subject has been accomplished in a test environment. In addition, the programming to support a journal check-in system has been completed in a test environment.

Document #1 (pages 9-10) is a brief system flow.

Document #3 (pages 12-13) is a sample of the total inventory report.

Document #4 (pages 14-15) is a sample of the individual library report.





Journal Title File

Journal Title	ISSN	Journal ID Number
AAPSE NEWSLETTER		
ABRIDGED INDEX MEDICUS		
ABST OF AIR AND WATER CONSERVATION LITERATURE	0001-3331	000500
ABST OF DUR PUBLICATIONS. (CALIFORNIA DEPT. OF WATER RESOURCES)		000100
ABST OF ENTOMOLOGY		000200
ABST OF LITERATURE ON THE BIOLOGICAL AND RELATED ASPECTS OF LEAD	0001-3579	000300
ABST OF MYCOLOGY		000400
ABST OF NORTH AMER GEOLOGY		000500
		000600
		000700

Journal Holdings File

Journal ID Number	Beginning Volume and Date	Ending Volume and Date
00005005A	003 (1972)	- TO PRESENT *
00010004E	002 (1971)	- TO PRESENT
00020004B	001 (1969)	- TO PRESENT
00020004M	001 (1970)	- TO PRESENT
00030003B	001 (1967)	- 002 (1968)
00040005B	002 (1971)	- TO PRESENT
00050004B	001 (1965)	- TO PRESENT
00060004J	001 (1967)	- 004 (1970)
00070002B	(1966)	- (1971)
C0070005B	(1966)	- TO PRESENT

AAPSE NEWSLETTER
05A 003 (1972) - TO PRESENT *

ABRIDGED INDEX MEDICUS
04E 002 (1971) - TO PRESENT
0001-3331

ABST OF AIR AND WATER CONSERVATION LITERATURE
04A 001 (1969) - TO PRESENT
04M 001 (1970) - TO PRESENT

ABST OF DWR PUBLICATIONS. (CALIFORNIA DEPT. OF WATER RESOURCES)
039 001 (1967) - 002 (1968)

ABST OF ENTOMOLOGY
03B 001 (1973) - TO PRESENT *
05R 002 (1971) - TO PRESENT

ABST OF LITERATURE IN THE BIOLOGICAL AND RELATED ASPECTS OF LEAD ***
04B 001 (1965) - TO PRESENT

ABST OF MYCOLOGY
04J 001 (1967) - 004 (1970)

ABST OF NORTH AMER GEOLOGY
02A 001 (1966) - (1971)
05B 001 (1966) - TO PRESENT
06B 001 (1966) - TO PRESENT
06A 001 (5/1969) - (1971)
103 001 (10/1967) - TO PRESENT

ABST OF PAPERS
03B 001 (1964) - (1971) *

ABST OF RECENT PUBLISHED MATERIAL ON SOIL AND WATER CONSERVATION
03B 001 (1952) - (1967) *

ABST IN HEALTH EFFECTS OF ENVIRONMENTAL POLLUTANTS
03B 002 (1973) - TO PRESENT *
04M 001 (1972) - TO PRESENT
04N 001 (1972) - TO PRESENT
09A 001 (1972) - TO PRESENT

ABST ON HYGIENE
04F 007 (1966) - TO PRESENT
053 043 (1968) - TO PRESENT

ACCESS
03E 001 (1971)
05A (1969)

ACCESSION 3UL SOLID WASTE INFO RETRIEVAL SYSTEM
0001-3866

03F 001 (1970) - TO PRESENT
001 (1971) - TO PRESENT

ACCOUNTS OF CHEM RESEARCH
03R 001 (1968) - 201 (1968) *
04N 001 (1968) - TO PRESENT
05S 001 (1968) - TO PRESENT

ACCUMULATIVE VETERINARY INDEX
04C 002 (1960) - TO PRESENT

ACOUSTICAL SOCIETY OF AMER. JNL
03G 049 (1971) - TO PRESENT
104 CURRENT ONLY

ACOUSTICS ABSTRACTS
05A (1973)

ACTA BIOCHIMICA POLONICA (ENGLISH TRANSLATION, WARSAW)
04B 014 (1967) - TO PRESENT *

ACTA BIOLOGICA (ACTA UNIVERSITATIS SZEGEDIENSIS)
05C 020 (1969) - TO PRESENT

ACTA CHEMICA SCANDINAVICA
05S 001 (1947) - 023 (1969) *

ACTA MEDICA IUGOSLAVICA (ENGLISH TRANSLATION, BELGRADE)
04B 020 (1966) - TO PRESENT

ACTA PHARMACOLOGICS TOXICOLOGICS
10C 020 (1963) - 028 (1970)

ENVIRONMENTAL PROTECTION AGENCY
LIBRARY SYSTEM

1973 JOURNAL HOLDINGS

JNL ID NO 186600	WESTERN CITY MAGAZINE	004 (1968) - TO PRESENT *	0006-4455
JNL ID NO 187100	WILDLIFE MONOGRAPHS	(1969) - TO PRESENT *	
JNL ID NO 187200	WILDLIFE REVIEW	103 (1961) - TO PRESENT *	
JNL ID NO 187300	WILDLIFE SOCIETY NEWS	(1969)	
JNL ID NO 187400	WILLING WATER	013 (1969) - TO PRESENT *	
JNL ID NO 187500	WILSON LIBRARY BUL	042 (1968) - 043 (1969) *	
JNL ID NO 187750	WORLD	(1972) - TO PRESENT	0006-5566
JNL ID NO 187900	WORLD ECOLOGY	2000 002 (1971) - TO PRESENT *	
JNL ID NO 18800C	WORLD HEALTH	(1965) - TO PRESENT *	
JNL ID NO 188200	WORLD HEALTH ORGANIZATION, CHRONICLE	010 (1965) - TO PRESENT *	

* INDICATES MISSING ISSUES IN THE HOLDING

ENVIRONMENTAL PROTECTION AGENCY
LIBRARY SYSTEM

1973 JOURNAL HOLDINGS

JNL ID NO 88500	WORLD INDEX OF SCIENTIFIC TRANSLATIONS 002 (1968) - TO PRESENT
JNL ID NO 88600	WORLD LIST OF FUTURE INTERNATIONAL MEETINGS (1967) - (1969)
JNL ID NO 88700	WORLD MEETINGS OUTSIDE THE U.S. AND CANADA 001 (1968) - TO PRESENT
JNL ID NO 188800	WORLD MEETINGS, U.S. AND CANADA 007 (1969) - TO PRESENT *
JNL ID NO 189100	WORLD REVIEW OF PEST CONTROL 004 (1965) - 008 (1969) *
JNL ID NO 189500	ZEITSCHRIFT FÜR WASSERRECHT 007 (1968) - 009 (1970) *
JNL ID NO 189550	ZERO POPULATION GROWTH NATIONAL REPORTER (1972) - TO PRESENT
JNL ID NO 1900000	102 MONITOR (COUNCIL ON ENVIRONMENTAL QUALITY) (1972) - TO PRESENT *

* INDICATES MISSING ISSUES IN THE HOLDING

HARD BOUND BOOK SYSTEM

Purpose and Scope

This system gathers data on the total book holdings in the agency. From the resulting title and holding files a union book catalogue (by title), subject report, and author report are generated for the total holdings. A title and library of Congress classification number report (by title and by LC Number) is also available. Reports for individual library holdings are generated. All reports are available for distribution on microfiche.

Data Elements

Book titles are maintained on a title file. This file contains a book identification number and the book title. A second file contains all other information (holdings file). This includes the book identification number (through which the files are linked); Library of Congress classification number; primary and co-authors; publisher; subjects (as many as desired); library identification; volume or edition (if applicable); and date of publication. The files are designed in this manner so that a library location entry is all that is necessary to identify the same book in a new library. The system is flexible so that additional data elements can be added. Document #7 (page 21) is a sample file format.

Status

All of the computer programs are operational. Because of the vast book inventory held by the library network, EPA will build a history book file containing all books to August, 1973. This file should be in machine readable form by the end of 1974. Currently, the partial or complete holdings of twenty libraries are in machine readable form. Inventory reports have been generated from the existing data base. A portion of this file was generated under contract. The remainder was built inhouse using Wylibur. When the files are complete, all reports will be generated and distributed. These files will be permanently held on magnetic tape. At this time the system contains nearly 10,000 unique book titles.

Beginning in August, 1973, an accession file was created. This file will contain all holdings added in fiscal year 1974. The file is built and maintained using Wylibur. Accession inventory reports are distributed on a monthly basis. From this time forward, inventories will be built on a fiscal year basis. They will be maintained on-line for one year and then transferred to magnetic tape for permanent storage. Currently, over twenty of the twenty-eight libraries are participating in the accession book system.

Plans

The book history file should be completed by the end of 1974. The accession file will be expanded to include all EPA libraries.

Document #5 (pages 18-19) is a system flow of the history file building procedure.
Document #6 (page 20) is a system flow of the current file building procedure.
Document #8 (pages 22-23) is a sample of the total book catalogue by title.
Document #9 (pages 24-25) is a sample of the total title run by the Library of Congress classification number.
Document #10 (pages 26-27) is a sample of the total title run by title (alphabetical).
Document #11 (pages 28-29) is a sample of the book catalogue meeting a specific subject (s) requirement.
Document #12 (pages 30-31) is a sample of the total subject run. The book title appears under each assigned subject.
Document #13 (pages 32-33) is a sample of the total author run. The title appears under both the primary and co-authors.

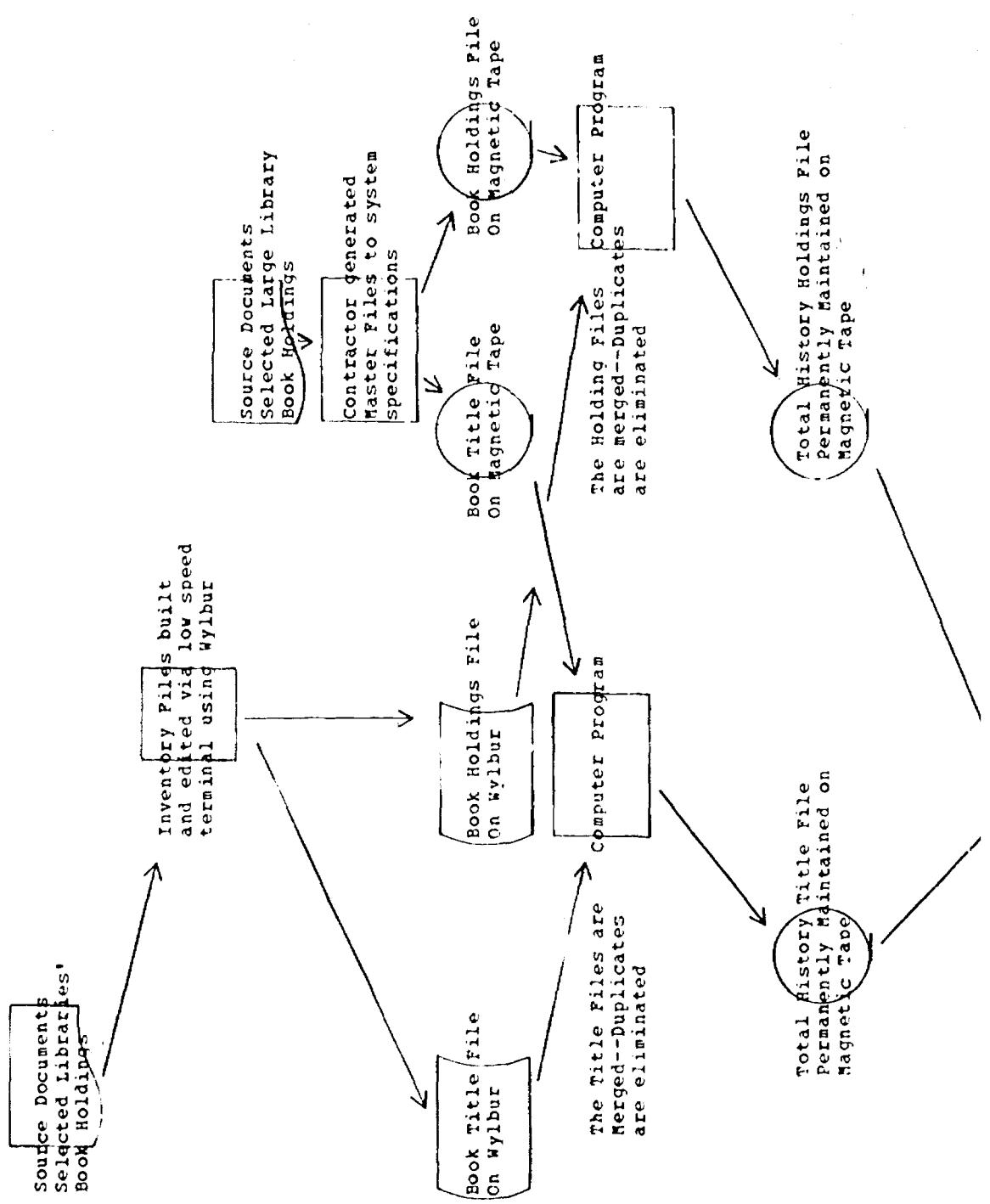
Each of the above book outputs is available for a given library in the total library network.

Document #14 (pages 34-35) is a sample of the monthly current awareness. This is generated from the accession file and is distributed by library.

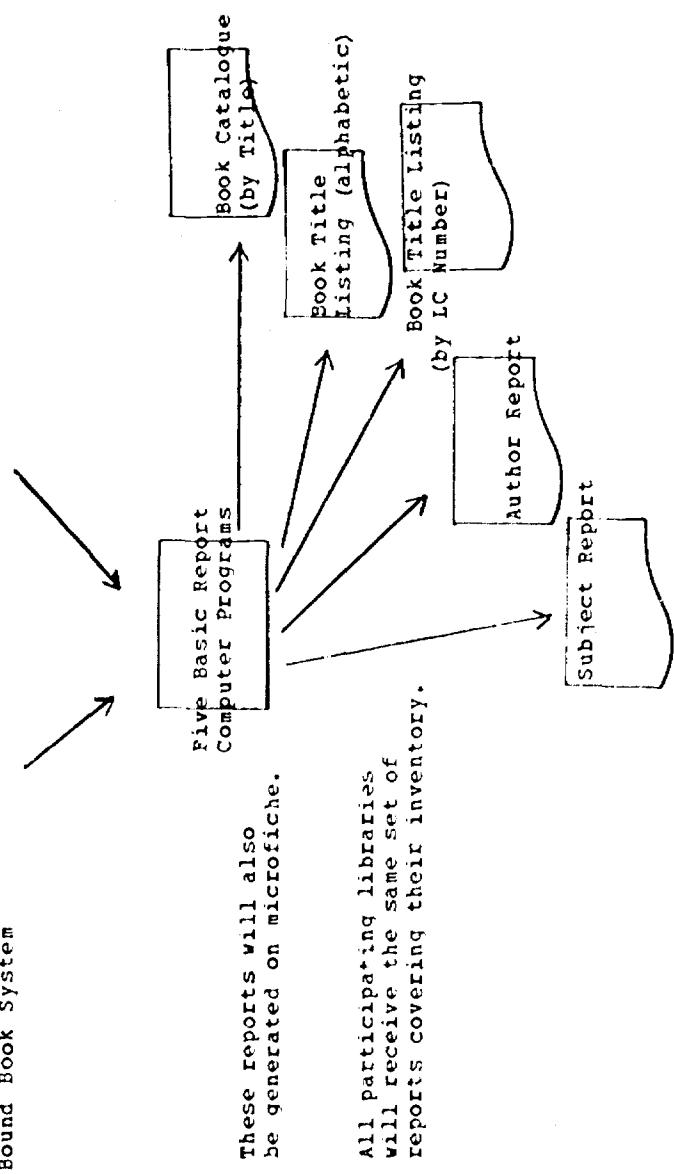
In addition, monthly and cumulative quarterly listings of the accession file are generated by title, author, and subject. Samples of these outputs are not included as they are very similar to the standard book system reports shown as samples of the history book outputs.

Document #5 System Flow-History File Building Procedure
Hard Bound Book System

These files will contain all book holdings held by EPA to August, 1973.



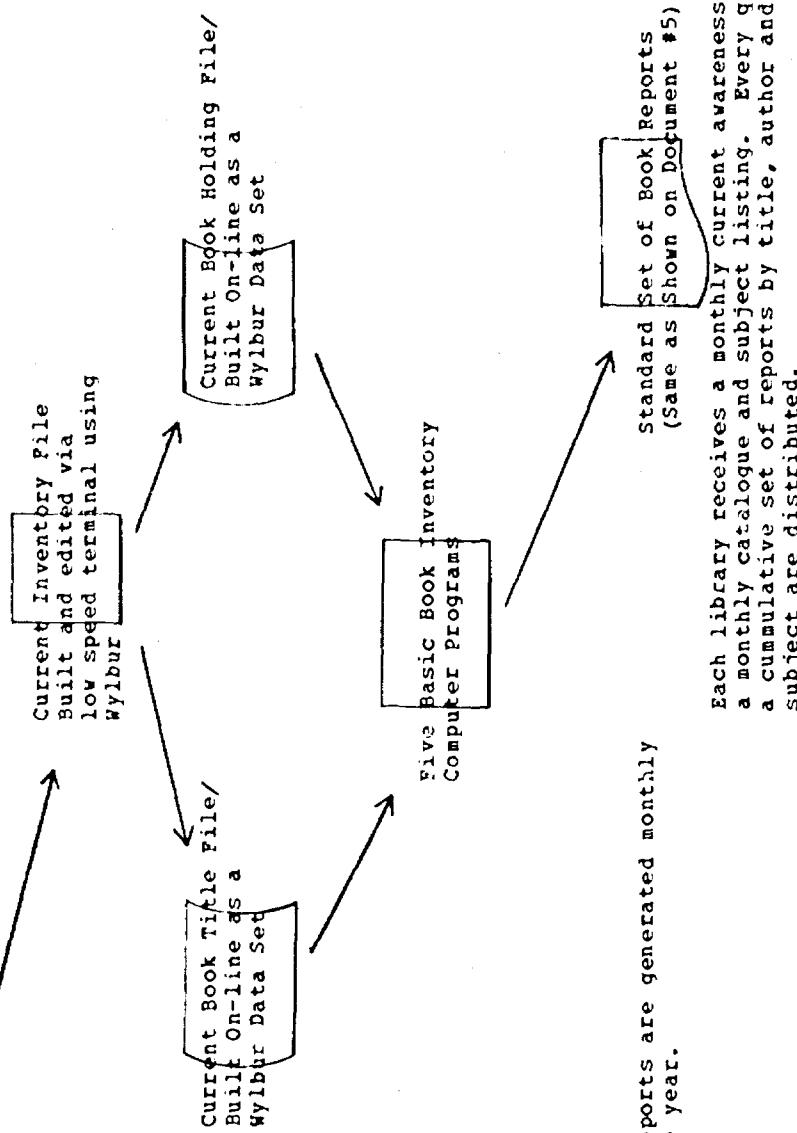
System Flow--History File Building Procedure



Document #6 System Flow--Accession File Building Procedure
Hard Bound Book System

This procedure began in August, 1973. Inventories will be maintained by fiscal year. In July, 1974, a current yearly inventory will be started again.

Source Documents
Newly ordered Books



These reports are generated monthly over the year.

Each library receives a monthly current awareness plus a monthly catalogue and subject listing. Every quarter, a cumulative set of reports by title, author and subject are distributed.

Sample File Layouts

Book Title File

Book ID Number Book Title

1000001 FAMOUS FIRST FACTS
 1000002 SPECIALIZED SCIENCE INFORMATION SERVICES IN THE UNITED STATES
 1000004 WORLD OF LEARNING
 1000005 SCIENTIFIC AND TECHNICAL SOCIETIES OF THE UNITED STATES AND CANADA

Book Holding File

Book ID Number	LC Classification Number	Library ID Number	Publisher
Sub Record ID Number	Author (S)	Date of Publication	
Subject(s)	Volume or Edition		
1000001 00AGS K315	KANE JOSEPH N		
1000001 11 ENCYCLOPEDIAS + DICTIONARIES			
1000001 20	03B ED 3	1964	
1000002 00AG521 B3	BATTELLE MEMORIAL INSTITUTE		NSF
1000002 11 INFORMATION SERVICES DIRECTORY	03B	1961	
1000002 20			LONDON EUROPA
1000004 00AS2 W6			
1000004 11 LEARNED INSTITUTIONS + SOCIETIES			
1000004 20	03B ED 21	1971	
1000005 00AS15 H3	NAS/NRC		
1000005 11 LEARNED INSTITUTIONS + SOC CANA US	TECHNICAL SOCIETIES		
1000005 20	03B ED 8	1968	

**ENVIRONMENTAL PROTECTION AGENCY
LIBRARY SYSTEM**
BOOK CATALOGUE LISTING

This 10 number does not appear on the final report.

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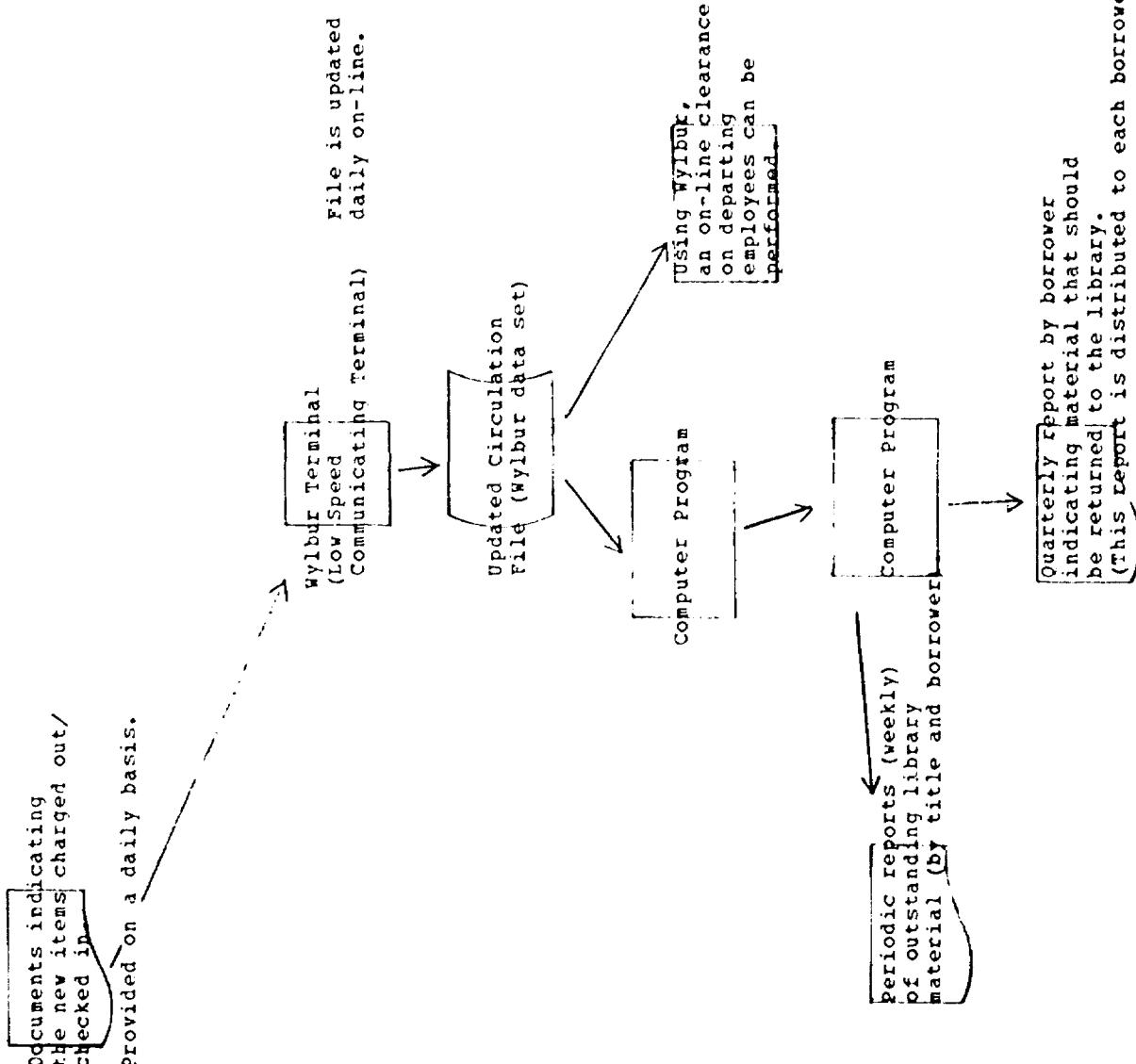
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WATER RESFARCH	030072	JACKNOW J	XX5-2770 3241 WSM	04/11/73	
WATER RESEARCH	CONWAY E	386-5176 GAO LIB	04/02/73	04/16/73	
WATER RESOURCES BULLETIN	HIBBS J	XX5-0648 635W WSM	04/10/73		
WATER RESOURCES DEVELOPMENT	NOTZIN F	XX7-7614			
WATER RESOURCES SYSTEMS ENGN	HEADLEY A	XX5-0672	03/08/73		
WATER SPECTRUM	010072	JACKNOW J	XX5-0946 3617 WSM	04/09/73	
WATER SUPPLY SEWERAGE 2D ED	GFRGMAN H	522-7162			
WATER-RESOURCES ENGINEERING	SU Y M	XX7-7490			
WEST VIRGINIA STATE PLAN FY6	PETERS A	XX7-7383			
WKLY COMP PRESIDENT DOCS	030270	LOBIT J	XX5-3646		
WKLY COMP PERSONL DOCS	012570	LORIT J	XX5-0646		
WKLY COMP PRESIDENT DOCS	081169	LORIT J	XX5-0646		

-13-73
 ENVIRONMENTAL PROTECTION AGENCY --- TITLE LISTING OF CIRCUL. FILE
 QUARTERS LIBRARY, WATER SIDE MALL, WASHINGTON, D.C.

DOCUMENT TITLE	BORROWER	PH NO	R# NUMBER	DATE OUT	DATE DUE
WILY COMM PRESIDENT DOCS	081869	LORIT J	XX5-0646		
WORLD DYNAMICS		SFIDEL M	522-6335 903 XEP	04/05/73	
WORLD HLTH ORG TECH REP 506		JOHNSON M	XX5-0428	02/13/73	03/21/73
WORLD HLTH ORG TECH REP 511		JOHNSON M	XX5-0428	02/13/73	03/01/73
WPCRS 110240QU10/70		TRUTANIC M	XX5-2573		
WPCRS 11024EL901/71		TRUTANIC M	XX5-2573		
WPCRS 11034FKL07/70		TRUTANIC M	XX5-2573		
WPCRS 12020E1D02/71		MAGRUDER J	762-5820 GEOMET	04/03/73	04/17/73
WPCRS 12060NS107/71		QUINN H	XX5-0524 811W NSM	03/27/73	
WPCRS 15080---03/69		VRANDR B	XX5-0900	02/23/73	
WPCRS 15090FD10/70		VRANDR B	XX5-0900	02/23/73	
WPCRS 16060DWP03/71		PRIVAL M	XX5-0687 701W NSM	03/30/73	
WPCRS 16070---07/70		JACKNO J	XX5-2770	03/20/73	
WPCRS 16130 ENT11/69		JACKSON D	XX5-0611 613W NSM	04/11/73	
WPCRS 16130---04/70		LEWIS D	426-3614	03/07/73	04/17/73
WPCRS 16130JH01/71		FRNST M	973-7748 AEC LIB	03/21/73	04/04/73
WPCRS 16130JH04/71		FRNST M	973-7748 AEC LIB	03/21/73	04/04/73
WPCRS 16130PUC2/71		LEWIS D	426-3614	03/07/73	04/17/73
WPCRS 16130ENT11/69		LEWIS D	426-3614	03/07/73	04/17/73
WPCRS 16130FSU12/71		LEWIS D	426-3614	03/07/73	04/17/73
WPCRS 17010ELQ08/71		SUTTON M	XX7-0704	02/24/73	
WPCRS 17070---05/48		HORGOND S	XX5-2733	02/22/73	
WPCRS 17090---06/59		JACKNOW J	XX5-0946	02/23/73	
WPCRS 18040DAZ04/72		BITTERS M	676-7128 GWU LIA	04/02/73	04/16/73
WST NSPL ORGLMS IN SLCTD IND		SONNETT W	XX7-7420		

CANTER K	WILDLIFE DYNAMICS	XX6-9435 677H WSM	121073
CARLIN A	MANAGING WATER QUALITY ECONOMICS	XX5-0650 637W WSM	070373
CAPONETTE D	BUDGETARY BUDGETING	557-7723 819CE WSM	073073
	TOWARD MORE EFFECTIVE LAND USE	XX6-2928 819F WSM	101673
	LAND USE PLANNING	XX6-2928 819E WSM	101673
CARROLL A	ANNALS OF ACADEMY OF SCIENCES VOL 132	XX5-6956 709C WSM	111473 120973
	INTERNATIONAL CONFERENCE OHARM 4TH 1964	XX5-6956 709F WSM	102373 110673
CARROLL I	ATMOSPHERIC ENVIRONMENT	XX5-2729 323H WSM	103073
CASSEL C	DO 207 544	265-8382 LIBRARY	080372 081773
CASSELL C	CHEMICAL TREATMENT OF SEWAGE	265-8382 LIBRARY	112973 112373
	ELEMENTS OF WATER SUPPLY AND	265-8382 LIBRARY	110973 112373
	LIVID WASTES OF INDUSTRY	265-8842 LIBRARY	110973 112373
CERONE R	JOURNAL OF ENVIRONMENTAL SCIENCES	XX6-8906 849F WSM	013074
	SOCIO-ECONOMIC PLANNING SCNCs 000073	XX6-2432 849F WSM	012974
	SOCIO-ECONOMIC PLANNING SCNCs 000073	XX6-2432 849F WSM	012974
CESSENA R	ISDA AGRICULTURAL HANDBOOK 305	XX5-7014 503F WSM	120373
CESSENA R	CONTROL OF AGRICULTURE LTD	XX5-0714 503F WSM	112073
	INITIAL ANALYSIS OF ECONOMIC	XX5-0714 503E WSM	112073
	US AGRICULTURE ENVIRL CTLs AND	XX5-0714 503F WSM	112073
	CHARLTON T	XX7-7307	
	WILDLIFE ENERGY US IN 1995		

11-74
 ENVIRONMENTAL PROTECTION AGENCY - OFFICE OF RESEARCH & TEST

DOCUMENTS LIBRARY, NATIONAL MALL, WASHINGTON, D.C.

CHENOFF N	ENVIRONMENTAL SECURITY ANALYST	XX5-6183 421E WSM	392573
PICTEL J	ASCP PREPARATION & MAINTENANCE J	040372	RECE 9 FRA L18 C71372 072773
CHELL D	GAS CHROMATOGRAPHIC ANALYSIS	XX5-2413 317E WSM	282173
CHELLI P	STATISTICAL METHODS FOR ED	XX5-0800 360E WSM	070573
CLOSE C	CONSERVATION OF NATURAL RESOURCES RESOURCES AND MAN	XX5-0683 715W WSM	073073
CROZER P	SCARCITY AND GROWTH	XX5-0683 715W WSM	062973
CROZER P	AD 750 794	XX5-0683 715W WSM	073073
CROZER V	AUTOMATIC DATA PROCESSING	XX5-0811 361E WSM	071273
CROZIER M	APR 1-3970	XX5-2110 703F WSM	121273
CROZIER M	APR 1-1086	XX5-2110 703E WSM	121273
CROZIER M	APR 1-1466	XX5-2110 703F WSM	121273
CROZIER M	APR 1-1542	XX5-2110 703F WSM	121273
CROZIER M	APR 189 074	XX5-2110 703E WSM	121273
CROZIER M	APR 189 086	XX5-2110 703E WSM	121273
CROZIER M	APR 189 092	XX5-2110 703E WSM	121273
CROZIER M	APR 190 058	XX5-2110 703E WSM	121273
CONWAY E	NATURAL RESOURCES JOURNAL	040070	385-5176 CAN L18 C11674 013074
NATURE FRIDAY		090173	396-5176 CAN L18 C11674 013074
NATURE FRIDAY		092173	396-5176 CAN L18 C11674 013074
CROOK C	ENVIRONMENTAL DEMONSTRATIONS	XX5-2937 3105 WSM	092773

TO: JOHNSON E L

THE FOLLOWING LIBRARY MATERIAL HAS BEEN CHARGED TO YOUR NAME:

FIRST SIGNIFICANT WORDS OF TITLE DATE CHECKED OUT

MANS IMPACT ON GLOBAL ENVRT

POLITICS OF ECOLOGY

IN ORDER TO UPDATE LIBRARY RECORDS, PLEASE ADVISE MR. BRUCE
INGALLS (755-2308) OF THE STATUS OF THIS OUTSTANDING
MATERIAL.

TO: JOHNSON R

THE FOLLOWING LIBRARY MATERIAL HAS BEEN CHARGED TO YOUR NAME:

FIRST SIGNIFICANT WORDS OF TITLE DATE CHECKED OUT

SCIENCE

100369

IN ORDER TO UPDATE LIBRARY RECORDS, PLEASE ADVISE MR. BRUCE
INGALLS (755-0308) OF THE STATUS OF THIS OUTSTANDING
MATERIAL.

PESTICIDES LITERATURE SEARCH SYSTEM

Pesticides Literature Search System (This system has been developed for the Technical Services Division in the Office of Pesticide Programs.)

Purpose and Scope

This system gathers bibliographic information on literature concerned with the health aspects of pesticides. From the resulting master file, various, complete and refined bibliographies are generated. The bibliographies are available by author, subject classification, CAS Registry Number, and date of publication. These bibliographies will be generally available in both printed form and on microfiche. By using these bibliographies, literature will be readily identified that will satisfy a particular user's information need. The Technical Services Division also maintains an inventory of the articles. All articles reviewed since 1969, are available on microfiche.

Data Elements

All of the bibliographic information is contained in a single file format. The data elements include a unique bibliographic identification number; primary and secondary authors; CAS Registry Number (unique compound number assigned by the Chemistry Abstract Service); HAPAB Abstract Number (the number of the abstract as it appears in the published bulletin); title of the article; source of the article (and type); year of publication; remarks field; foreign language (if applicable); and the primary and secondary subject classifications (assigned by the Technical Services Division). This represents a comprehensive bibliographic system which allows the data managers and users to access the data in every meaningful way. Document #21 (page 48) is a sample file format.

Status

All of the computer programs are operational. The history bibliographies number over 30,000. For this reason, a large portion of the citations will be prepared under contract. Currently, members of the Technical Services Division have converted 1000 of the history bibliographies to machine readable form. When the history file is complete (approximately December, 1974) it will be maintained on magnetic tape.

Also, the staff is using the system to gather and maintain all new bibliographies. The first computer generated current awareness report was distributed in April, 1973.

Plans

The efforts necessary to convert the large history file to machine readable form are proceeding as rapidly as possible. The staff will continue to use the system to gather and maintain all current citations. Computer generated current bibliographies will be made available as needed.

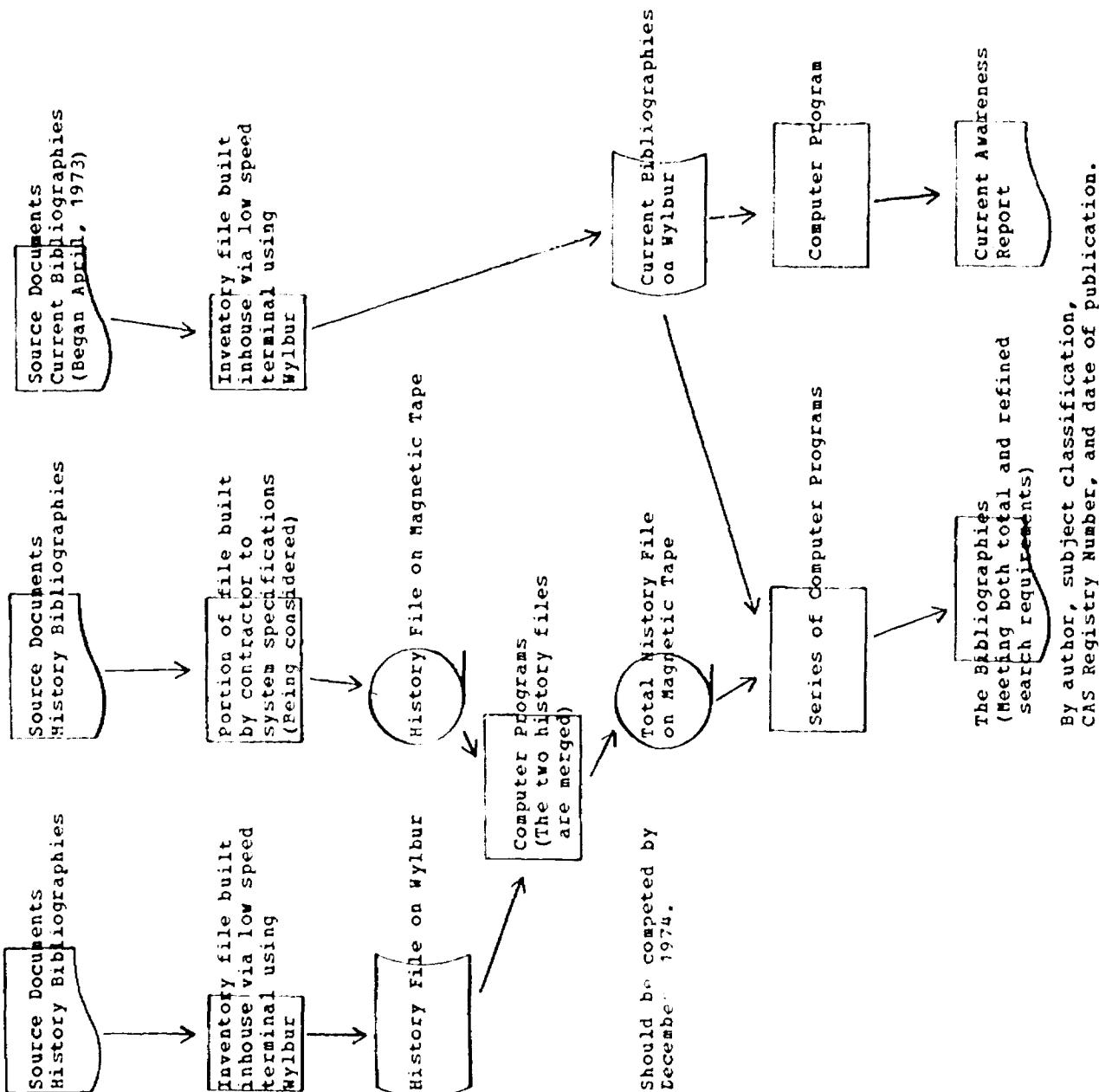
Document #20 (page 47) is a systems flow. Document #22 (pages 49-50) is a sample of the subject classification report.

Document #23 (pages 51-52) is a sample of the author report.
Document #24 (pages 53-54) is a sample of the date of publication report.
Document #25 (pages 55-56) is a sample of the journal (source) title report.
These reports represent the basic report inventory. Additional reports are available.

A refined bibliographic search can be generated and printed in report forms #22-24.

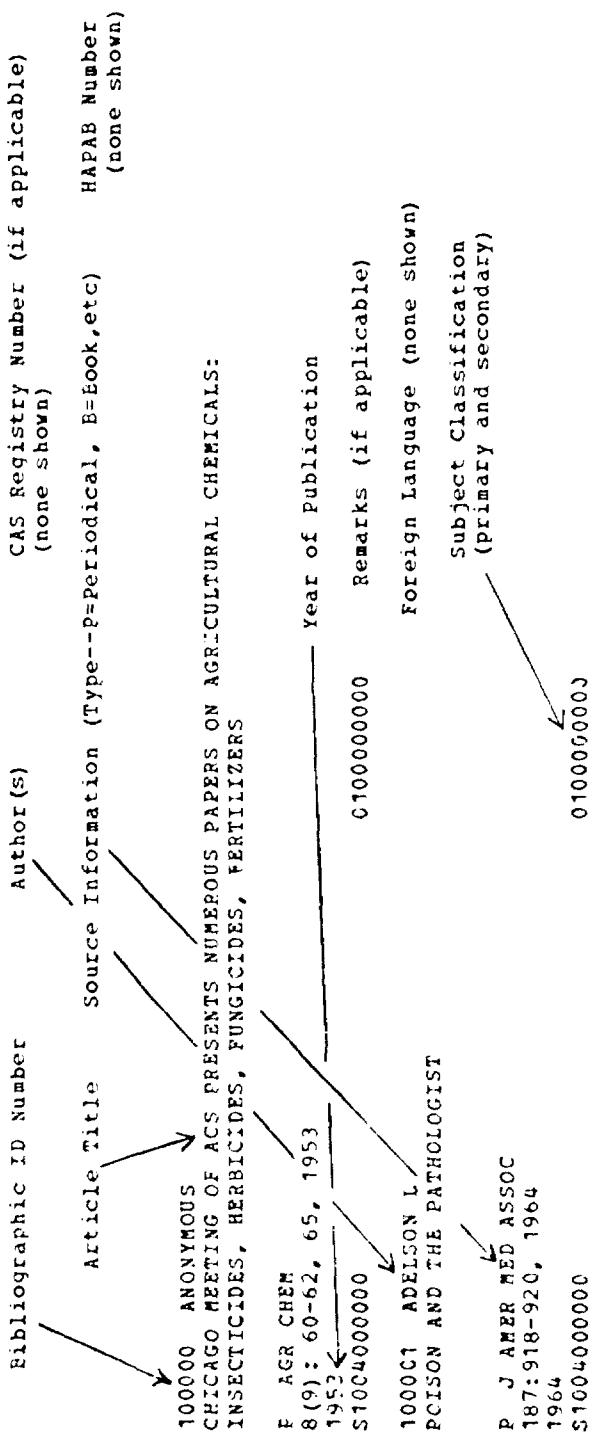
All report heading information can be adjusted to a particular user's need.

**Document #20
Pesticides Literature Search System**



Document #21 Sample File Layout
 The Pesticides Literature Search System

Master File



- \$1004000000
 010000000000
 1964
 ANELSON L
 PRISON AND THE PATHOLOGIST
 J AMER MED ASSOC
 187:918-920, 1964
 LANGUAGE*
 MAPAR NO:
 REMARKS:
- \$1004000000
 010000000000
 1953
 ANONYMOUS
 CHICAGO MEETING OF ACS PRESENTS NUMEROUS PAPERS ON AGRICULTURAL CHEMICALS:
 INFECTICIDES, HERBICIDES, FUNGICIDES, FERTILIZERS
 AG CHEM
 8(9): 60-62, 65, 1953
 LANGUAGE*
 MAPAR NO:
 REMARKS:
- \$1004000000
 010000000000
 1953
 GARNES J M
 SELECT RADIOGRAPHY ON THE TOXICOLOGY OF PESTICIDES IN MAN AND MAMMALS
 BULL WLD HLTH ORGAN
 9(4):535-589, 1953
 LANGUAGE*
 MAPAR NO:
 REMARKS:
- \$1004000000
 010000000000
 1957
 GARNES J M
 CONTROL OF HEALTH HAZARDS ASSOCIATED WITH THE USE OF PESTICIDES
 ADVANCES PEST CONTROL RESEARCH
 VOL 1 EDITED BY R L METCALF, INTERSCIENCE, NEW YORK, 1957
 LANGUAGE*
 MAPAR NO:
 REMARKS:

ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF VOCATIONAL SERVICES DIVISION

AUTHOR/YEAR SCHEDULE

PFSST-AUTHYEAR

RICHMOND

1950

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CHARACTERISTICS

PANS
11(2):91-9, 1965
LANGUAGE:
HARAP N1:
DEFMAPS:
ABST:
WHO INFORM
CIRC NO.
CAS:
TOXICITY OF PESTICIDES TO FISH

104

101E Y

1966
IRRITATING
SAPCH ENVIRON HU
13:433-449. 196
LANGUAGE*
HAPAR NIN:
REMARKS:

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2610

1963 \$100000000
RENAL TESTS IN TOXICITY STUDIES ON PANTS
TOXICOLOGICAL APPLICATION PHARMACOLOGY
5-661-74, 1963
LANGUAGE*: HINDU
CITY: NEW JERSEY
REMARKS:

ESTIMATING THE INFLUENCE OF SECULAR TRENDS ON VARIOUS INDICATORS OF MALARIA INCIDENCE IN EGYPT, 1965-1985

104

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ENVIRONMENTAL PROTECTION AGENCY
TECHNICAL SERVICES DIVISION

AUTHOR/VFAF SCHEDULE

PROG: PFST.AUTHVFAF

ALBAHARY C MARTIN S	1962	\$1004000000 2103000000	HEMATOLOGICAL PROBLEMS POSSD BY VARIOUS OCCUPATIONAL DISEASES YOUN REV FRANC HEMAT 2:230-240, 1962 LANGUAGE* HAPAB NO: REMARKS: 1000627
ALPFRT J J	1964	\$1004000000 2106060000	TREATMENT OF ACUTE POISONING BRIIT MED J 2:1593, 1964 LANGUAGE* HAPAB NO: REMARKS: IN 65-1120, 1965 1000627
AMA COUN IND HLTH	1964	\$1004000000 2001100000	ROLE OF THE PATCH TEST IN CONTACT DERMATITIS J AMER MED ASSOC 156:501, 1954 LANGUAGE* HAPAB NO: REMARKS: 1000578
	1958	\$1004000000 2001100000	OCCUPATIONAL DERMATOSES. A SERIES OF FIVE REPORTS. AMFR MFD ASSOC 167:1636-1637, 2203-2205, 1958 & 168:516-520, 1351-1359, 1958 & 169:1340-1344, 1959 LANGUAGE* HAPAB NO: REMARKS: 1959 1000579

Full Text Provided by ERIC

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YEAR OF PUBLICATION SCHOFULF

ESTATE PLANNING

1070

51004000000
12300000000

BREAKFAST

FT AL

FAIRFAX: ESTIMATE OF EXPENDITURES IN 1966
USDA ECONOMIC RESEARCH SERVICE AGR ECON REPORT NO 192, 43PP., 1970

LAUGHABLE UN:

46500

1230000000
FARMERS T
QUANTITIES OF PESTICIDES USED BY FARMERS IN 1966
QUANTITIES OF PESTICIDES USED BY FARMERS IN 1966
USA. ECONOMIC RFS. SFO. AGA. ECON REPORT NO. 179. 61
LANGUAGE: ENGLISH
COUNTRY: HAWAII
REMARKS:
CASE:

二二

020301050
000004005
S100400000

FRIEDMAN L.
SYMPOSIUM ON THE EVALUATION OF THE SAFETY OF FOOD ADDITIVES AND CHEMICAL RESIDUES:
VIII. THE ROLE OF THE LABORATORY ANIMAL STUDY IN INTERMEDIATE DURATION FOR EVALUATION OF
SAFETY

TOXICOLOGIC AND PHARMACOL

114(2):498-506, 1970

LANGUAGE*

CHADAR NO:

REMARKS:

CASE:

600

I-19-73
ENVIRONMENTAL PROTECTION AGENCY
TECHNICAL SERVICES DIVISION

YEAR OF PUBLICATION SCHEDULE

DOC: PEST-YFARAUHTH

1969

JENKINS Q

ET AL

DESTRUCTIVE APPLICATION EQUIPMENT OWNED BY FARMERS, 48 STATES

USDA, ARS, FCN, RES, SERV, AGR ECON REP NO. 161, 1969

LANGUAGE*

HAZAR. NO.:

REMARKS:

\$1004000000

2100000000

\$1004000000

2100000000

LAWCOTT L C
DESTICIDES AND HUMAN HEALTH-A QUIRY

BULL ENTOMOL SOC AMER

15(4):373-6, 1969

LANGUAGE*

HAZAR. NO.:

REMARKS:

100629

\$1004000000

2100000000

NAS/NRC ESTIMATING PROTECT CRIM

NAS/NRC 2 DO, 1969

LANGUAGE*

HAZAR. NO.:

REMARKS:

100629

\$1004000000

2100000000

NAS/NRC ESTIMATING TOXICOLOGICALLY INSIGNIFICANT LEVELS OF CHEMICALS IN FOOD

NAS/NRC 2 DO, 1969

LANGUAGE*

HAZAR. NO.:

REMARKS:

PFRONICAL TITLE LISTING

PRINTED PERMIT

ACTA PHYSICAL PHARMACEUTICAL NERZIAN
ACTA PHYSICAL SCAN
ACTUALITIES PHARMACEUTICAL

ADV CHEM SER

ADVANCES IN CHEMISTRY SERIES

ADVANCES IN POLYMER TECHNOLOGY

Adv Chem

Adv Research

Adv Technol Assess

Adv Technol Developments

Adv Technol Instrum Technol Med

ENVIRONMENTAL PROTECTION AGENCY
TECHNICAL SERVICES DIVISION

PERIODICAL TITLE LISTING

PAGE: PEST. PERTITLE

ARCH INDUSTRIAL HYG OCCUP MED
ARCH INT MFD

ARCH INT PHARMACY

ARCH MAL PRPF

ARCH TOXIKOL

AUDITION BULL

BELL IST PATNT LIBRAR

BIOCHEMISTRY INST

BOTT MED J

BOTT VET J

BULL ENTOMOL SOC AMER

BULL WLD WLTH ORGAN

CANAD FARM IMP

CANAD J BIOTHEM

CANAD J PHYSIOL PHARMACOL

CANAD MED ASSOC J

CANCER CHEM REP

CAROLINA MFD J

CHEM AND CHEM PROCESS INDUSTRIES

CHEM ENG NEWS

CHEM ENG PROC

CHEM IND

CHEM WEEK

CIENCE

ECOLOGICAL AIR POLLUTANT LITERATURE SEARCH SYSTEM

The Ecological Air Pollutant Literature Search System (This system has been developed for the National Ecological Research Laboratory.)

Purpose and Scope

This system gathers bibliographic information on literature principally concerned with air pollutants and their effects on vegetation and animals. In addition, some citations deal in the research support areas and in heavy metals. Computer generated bibliographies (by author, subject, article title, and library reprint number), will be produced from the master file. The referenced literature is available in the National Ecological Research Laboratory's reprint library. By using these bibliographies, literature meeting a particular information need can be readily identified and made available to the user. Total bibliographies will be available on microfiche as well as in printed form.

Data Elements

All bibliographic information is contained in a single file format. The data elements include a unique bibliographic identification number; up to four authors; up to nine subjects (selected from a subject thesaurus); a library reprint number (indicates the location of the article in the library); the article title; source information; translation information (if applicable); Air Pollution Technical Information Center number (APTC); date of publication; and a remarks field (if applicable). This bibliography completely identifies pertinent literature in this subject area. Document #27 (page 59) is a sample file format.

Status

All of the computer programs are operational. Currently, there are approximately 6,000 citations (bibliographies) on file in the National Ecological Research Laboratory's library. Under contract, these bibliographies have been converted to the system specifications. The retrospective master file is complete. The various bibliographic reports are available on microfiche (COM).

Plans

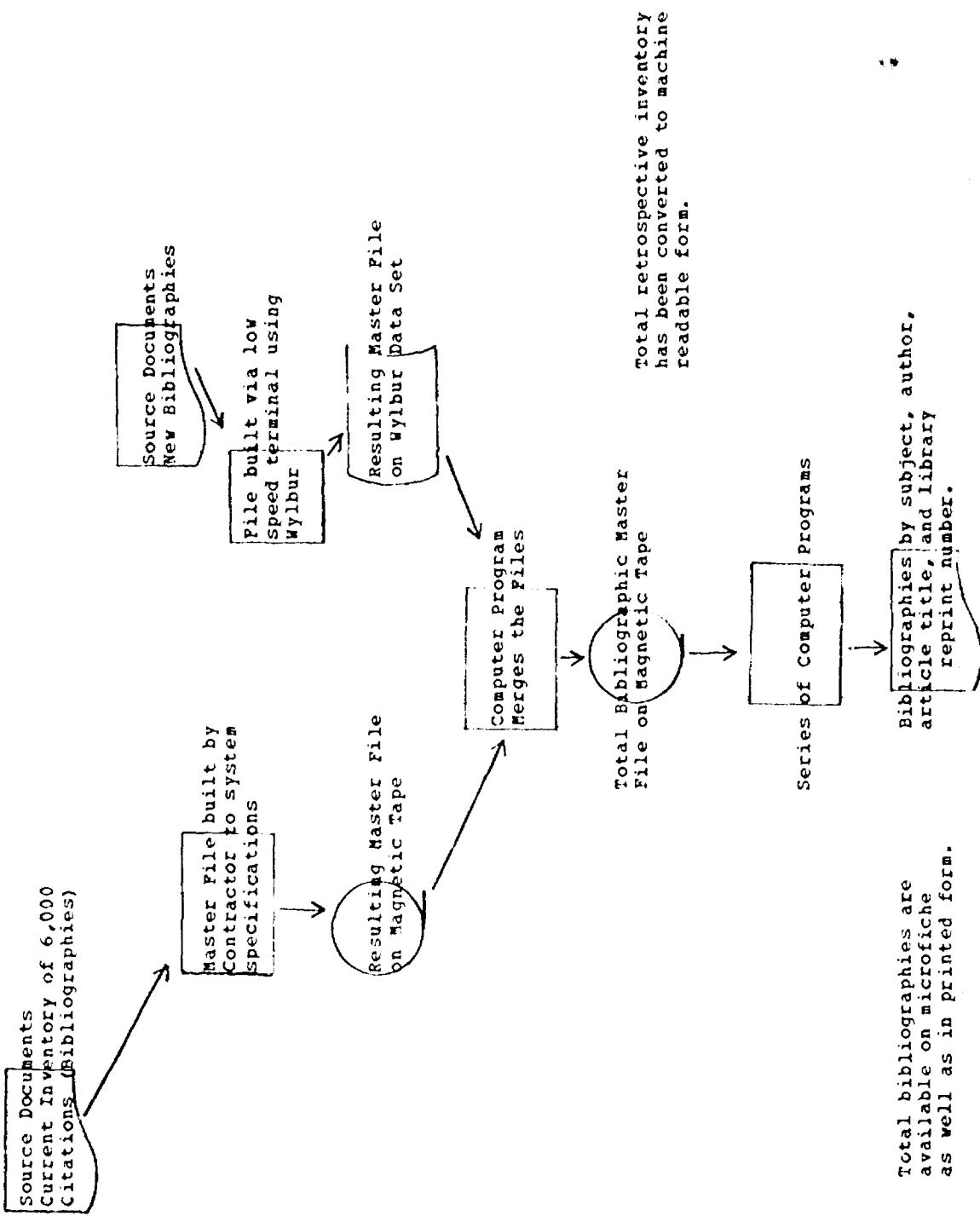
In March, 1974, new bibliographies will be added to the master file (using Wybur) as needed. Requested bibliographies should be available within 24 hours of the time requested. Refined bibliographies can be generated with variable heading information. The master file will be permanently maintained on magnetic tape. The full articles are to be microfiched to enhance distribution at very reduced costs.

Document #26 (page 58) is a system flow.
Document #28 (pages 60-61) is a sample of the article title report.
Document #29 (pages 62-63) is a sample of the library reprint number report.
Document #30 (pages 64-65) is a sample of the primary author report.
Document #31 (pages 66-67) is a sample of the author report-multiple indexed.
Each article is shown under all assigned authors.
An "*" indicates the primary author in all cases.

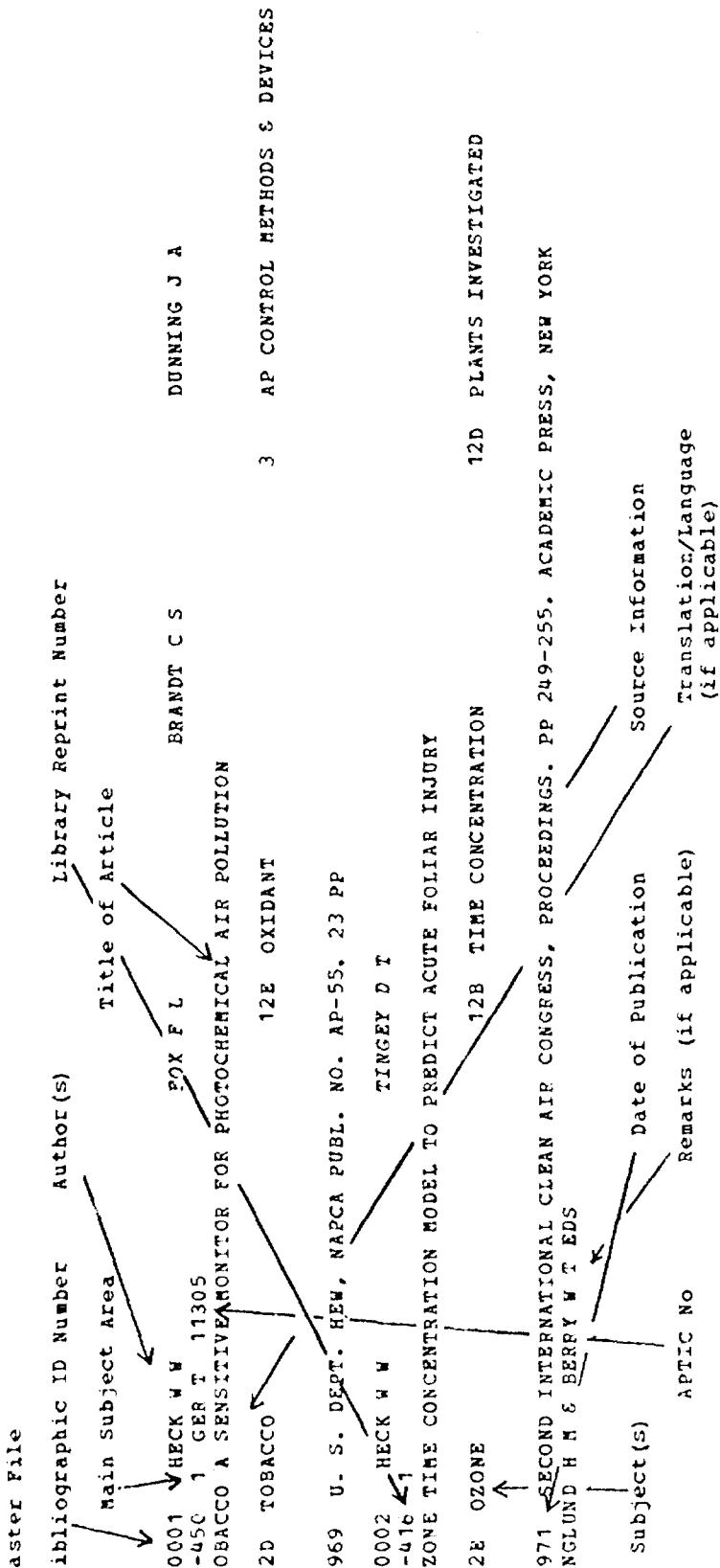
Document #32 (pages 68-69) is a sample of the subject report-multiple indexed.
Each article is shown under all assigned subjects.

This represents the basic (but not complete) report inventory.

Document #26
System Flow
The Ecological Air Pollutant Literature
Search System



Sample File Layout
Volume Ecological Air Pollutant Literature
Search System



ABSCSSION: ROLE OF PROTEIN SYNTHESIS
A-203 ABELFS F R HOLM R F
1967 ANNALS N. Y. ACAD. SCI. 144(PART.1): 367-373

SUBJECT(S):

27B ABSCISSION
27A ETHYLENF (PHYS)
12D BEAN

ABSCSSION: THE ROLE OF ACTING
A-993 ABELFS F R HOLM R E GAHAGAN H E
1967 PLANT PHYSIOL. 47:1351-1356
SUBJECT(S):
12B BEAN
27B SENESCENCE
12D MEASUREMENTS

BIOMOLECULAR PATHWAY OF STRESS-INJURED ETHYLENE
A-261 ABELFS A L ABELFS F R RUBENSTEIN B
1972 PLANT PHYSIOL. 50:496-498

SUBJECT(S):
27A ETHYLENF (PHYS)
12D BEAN
27B RESPIRATION
27A GROWTH REGULATORS

CELL-FREE ETHYLENF EVOLUTION FROM ETIOLATED PEA SEEDLINGS
A-052 ABELFS F R RUBENSTEIN B
1964 BIOPHYS. ACTA 93:675-677

SUBJECT(S):
12D PEA
27B ETHYLENF (PHYS)

EFFECT OF ETHYLENE ON AUXIN TRANSPORT

A-054 ABELFS F R
1966 PLANT PHYSIOL. 41:946-948
SUBJECT(S):
27A ETHYLENF (PHYS)
12D CORN
12D BEAN
30B AUXIN
12D SUNFLOWER
12D COLEUS

PROG: AP-TITLE

ETHYLENE PRODUCTION FROM LINOLENIC ACID

A-037 AFLFS F^a

1966 NATURE 210(5031):23-25

SUBJECT(S):

12D PEA

27A ETHYLENE (PHYS)

MECHANISM OF ACTION OF ABSCISSION ACCELERATORS

A-124 AFLFS F^a

1967 PHYSIOL. PLANT. 20:442-454

SUBJECT(S):

27A AUXINS

27A SENESCENCE

12D COTTON

27A ETHYLENE (PHYS)

ORGANOCHLORINE PESTICIDES IN THE ATMOSPHERE

A-023 ARBRTT D^c

1966 NATURE 211(5046):259-261

SUBJECT(S):

12F CHLORINE COMPOUNDS

25 PESTICIDES

27B ABSCISSION

ORGANOCHLORINE PESTICIDES IN THE ATMOSPHERIC ENVIRONMENT

A-167 ARBRTT D^c

1965 NATURE 200:1317-1318

SUBJECT(S):

25 INSECTICIDES

27A ETHYLENE (PHYS)

TATTION J C

THOMSON J^b

TATTION J^b

THOMSON J^b

RE-PRINT NUMBER LISTING

PROC: AP+REPRINTNO

- A-004 ARELES F B
EFFECT OF ETHYLENE ON AUXIN TRANSPORT
1966 PLANT PHYSIOL 41:946-948
SUBJECT(S):
27B ETHYLENE (PHYS)
12D COTTON
30B AUXIN
- A-0179 ABROFF D C
ORGANOCHLORINE PESTICIDES IN THE ATMOSPHERE
1966 NATURE 211(5046):259-261
SUBJECT(S):
12F CHLORINE COMPOUNDS
- A-024 HARRISON R B
HARRISON R B
TATTION J O
THOMSON J
TATTION J O
- A-032 ARELES F B
ETHYLENE PRODUCTION FROM LINOLENIC ACID
1965 NATURE 210(5031):23-25
SUBJECT(S):
12D PEA
- A-052 ARELES F B
CELL-FREE ETHYLENE EVOLUTION FROM ETIOLATED PEA SEEDLINGS
1964 BIOCHEM. BIOPHYS. ACTA 93:675-677
SUBJECT(S):
12D PEA
- A-093 ARELES F A
ABSCSSION: THE ROLE OF AGING
1967 PLANT PHYSIOL. 42:1351-1356
SUBJECT(S):
12R BEAN
27A SENESCENCE
- A-124 ARELES F A
MECHANISM OF ACTION OF ABSCISSION ACCUMULATORS
1967 PHYSICAL PLANT. 20:442-454
SUBJECT(S):
27B AUXINS
27A SENESCENCE
- 2
12D SUNFLOWER
12D COLEUS
- 5
25 PESTICIDES
- 2
12D BEAN
- 2
27B ETHYLENE (PHYS)
- 2
278 ETHYLENE (PHYS)
- 2
GAHAGAN H E
- 2
278 ETHYLENE (PHYS)
23 MEASUREMENTS
- 2
278 ABSCISSION
278 GROWTH REGULATORS
- 2
12B COTTON
27B ETHYLENE (PHYS)

RE-PRINT NUMBER LISTING

PROG: AP-APPNTND

- A-140 ABROTT J C HARRISON R B TATTON J O THOMSON J
ORGANOCHLORINE PESTICIDES IN THE ATMOSPHERIC ENVIRONMENT 5
1965 NATURE 208:1317-1318
SUBJECT(S):
25 INSECTICIDES
- A-203 ABELFS F A HOLM R F
ABSCSSION: ROLE OF PROTEIN SYNTHESIS 2
1967 ANNALS N. Y. ACAD. SCI. 144(ART.1):367-373
SUBJECT(S):
278 ABSCSSION 27C NITROGEN METABOLISM
278 ETHYLENE (PHYS) 12D COTTON
12D SEAN
- A-251 ABELFS A L ABELFS F B
BIOCHEMICAL PATHWAY OF STRESS-INDUCED ETHYLENE 1
1972 PLANT PHYSiol. 50:496-498
SUBJECT(S):
278 ETHYLENE (PHYS) 12D BEAN
12F OZONE 27C RESPIRATION
278 GROWTH REGULATORS 27C PHOTOSYNTHESIS

SEARCH: AD-AUTH

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- SUBJECT(S):
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- SUBJECT(S):
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- ABELES F L ABELES F B SURENSTEIN B 1 A-251
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- SUBJECT(S):
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27C RESPIRATION
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DRAFT: AP-AUTH

AUTHORSHIP SCHEDULE

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ORG: AP-AUTHIND

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PROG: AP.SURJNC

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 2-0112 1971 ENHOLM L

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PROG: AP.SURJNO

REVIEWS
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 C-0012 1945 CROCKER W

2 SULPHUR CONTENT OF PLANTS
 E-0066 1935 GRAZEP J

METABOLISM
 1 DYNAMIC CRITERIA FOR THE EVALUATION OF THE BIOCHEMICAL EFFECTS OF AIR POLLUTANTS
 E-0103 1967 ESTES F L

SINGLE CELLS
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LEAVES
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 E-0017 1967 EL ANTABLY H M M

WATER POLLUTION
 1 OCCURRENCE OF AIRBORNE LEAD IN SAN FRANCISCO BAY AND ITS RELATION TO ANIMAL DISEASE
 C-0214 1970 COOPER R C

1 HORTICULTURE AND POLLUTION
 D-0148 1970 DAY B E

1 DISPOSAL OF MERCURY WASTES FROM WATER LABORATORIES
 D-0209 1971 DEAN P B

1 YEARLY CIRCULATION OF SULFUR IN NATURE
 E-0077 1963 ERIKSSON E

1 MERCURY USES IN CANADA AND THEIR POSSIBLE HAZARDS AS SOURCES OF MERCURY CONTAMINATION
 P-0093 1970 PINREITE N

1 MERCURY CONTAMINATION OF CANADIAN FISH AND FISH EATING BIRDS
 Y-0107 1970 PINREITE N

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EPA Reports Reporting System

Purpose and Scope

EPA provides the National Technical Information Service (Department of Commerce) with inhouse EPA Reports. These reports are converted by NTIS to their system requirements and become a portion of the total NTIS Reports System. As a result, EPA receives all of the standard services provided to such NTIS customers. Because of the agency's desire to provide expanded reporting services in this area, an inhouse reporting system has been developed. This system utilizes NTIS report master files and provides title indexes, subject indexes, and abstract reports for distribution on microfiche. Selective bibliographies are also available.

Data Elements

The NTIS reports master file is converted inhouse to two separate tape files. The first file contains the complete report abstract. The second file contains all pertinent bibliographic information. The NTIS accession number is maintained on both files and provides the link between the two files. A complete file layout is provided in Document #34 (pages 72-73).

Status

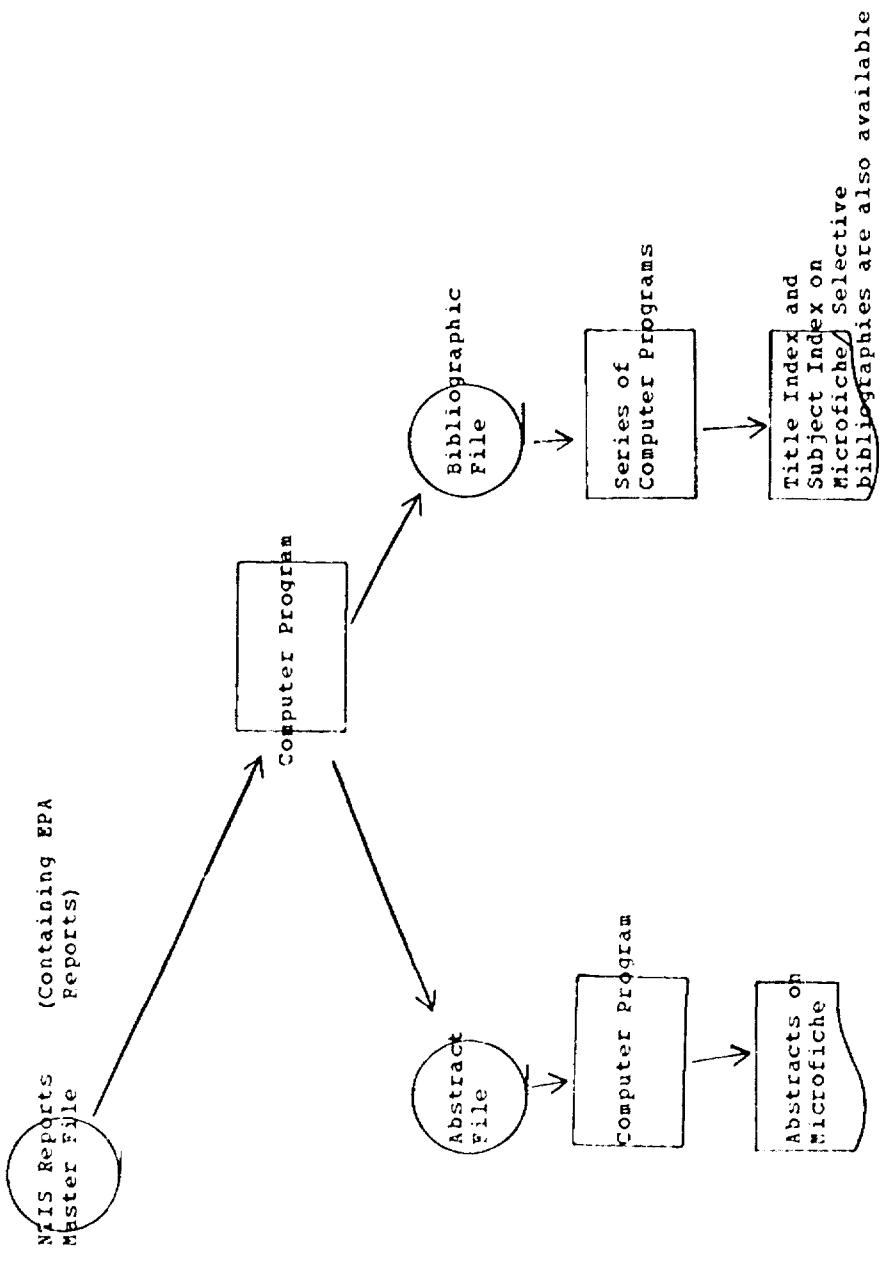
All computer programs are operational. The second NTIS report master has been converted by EPA and the resultant reports on microfiche have been distributed domestically and internationally. The second master tape contained 3748 environmental reports.

Plans

EPA will continue to provide this service as long as it remains practical. Further, additional computer programs will be developed providing a greater variety of outputs as needed.

Document #33 (page 71) is a system flow. Document #35 (pages 74-75) is a sample of the title index. Document #36 (pages 76-77) is a sample of the subject index. Document #37 (pages 78-79) is a sample of the abstract listing.

These reports are generally available only on microfiche.



ABSTRACT FILE This is a variable length file with a maximum of 48 lines per abstract.

ITEM	START POSITION	LENGTH
DOCUMENT NUMBER (ACCESSION)	1	15
SUBJECT GROUP CODE	16	6
LINE 1 OF ABSTRACT	22	99
LINE 2 OF ABSTRACT	121	99
LINE 3 OF ABSTRACT	220	99
LINE 4 OF ABSTRACT	319	99
LINE 5 OF ABSTRACT	418	99
LINE 6 OF ABSTRACT	517	99
LINE 7 OF ABSTRACT	616	99
LINE 8 OF ABSTRACT	715	99
LINE 9 OF ABSTRACT	814	99
LINE 10 OF ABSTRACT	913	99
LINE 11 OF ABSTRACT	1012	99
LINE 12 OF ABSTRACT	1111	99
LINE 13 OF ABSTRACT	1210	99
LINE 14 OF ABSTRACT	1309	99
LINE 15 OF ABSTRACT	1408	99
LINE 16 OF ABSTRACT	1507	99
LINE 17 OF ABSTRACT	1606	99
LINE 18 OF ABSTRACT	1705	99
LINE 19 OF ABSTRACT	1804	99
LINE 20 OF ABSTRACT	1903	99
LINE 21 OF ABSTRACT	2002	99
LINE 22 OF ABSTRACT	2101	99
LINE 23 OF ABSTRACT	2200	99
LINE 24 OF ABSTRACT	2299	99
LINE 25 OF ABSTRACT	2398	99
LINE 26 OF ABSTRACT	2497	99
LINE 27 OF ABSTRACT	2596	99
LINE 28 OF ABSTRACT	2695	99
LINE 29 OF ABSTRACT	2794	99
LINE 30 OF ABSTRACT	2893	99
LINE 31 OF ABSTRACT	2992	99
LINE 32 OF ABSTRACT	3091	99
LINE 33 OF ABSTRACT	3190	99
LINE 34 OF ABSTRACT	3289	99
LINE 35 OF ABSTRACT	3388	99
LINE 36 OF ABSTRACT	3487	99
LINE 37 OF ABSTRACT	3586	99
LINE 38 OF ABSTRACT	3685	99
LINE 39 OF ABSTRACT	3784	99
LINE 40 OF ABSTRACT	3883	99
LINE 41 OF ABSTRACT	3982	99
LINE 42 OF ABSTRACT	4081	99
LINE 43 OF ABSTRACT	4180	99
LINE 44 OF ABSTRACT	4279	99
LINE 45 OF ABSTRACT	4378	99
LINE 46 OF ABSTRACT	4477	99
LINE 47 OF ABSTRACT	4576	99
LINE 48 OF ABSTRACT	4675	99

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DOCUMENT NUMBER (ACCESSION)		15
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LINE 3 OF ARTICLE TITLE	220	99
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PERSONAL AUTHOR 2	344	25
PERSONAL AUTHOR 3	369	25
PERSONAL AUTHOR 4	394	25
PERSONAL AUTHOR 5	419	25
CORPORATE SOURCE	444	125
SUBJECT 1	569	40
SUBJECT 2	609	40
SUBJECT 3	649	40
SUBJECT 4	689	40
SUBJECT 5	729	40
SUBJECT 6	769	40
SUBJECT 7	809	40
SUBJECT 8	849	40
SUBJECT 9	889	40
SUBJECT 10	929	40
SUBJECT 11	969	40
SUBJECT 12	1009	40
SUBJECT 13	1049	40
SUBJECT 14	1089	40
SUBJECT 15	1129	40
SUBJECT 16	1169	40
SUBJECT 17	1209	40
SUBJECT 18	1249	40
SUBJECT 19	1289	40
SUBJECT 20	1329	40
CPIG REPORT NUMBER	1369	15
CONTRACT NUMBER (GOVT)	1384	20
CORP AUTH REPORT NUMBER	1404	15
CORP AUTH TASK NUMBER	1419	20
DATE OF PUBLICATION	1439	4

ATMOSPHERIC EMISSIONS FROM THERMAL-PROCESS PHOSPHORIC ACID MANUFACTURE. COOPERATIVE STUDY PROJECT.
P3-190 250
1387A

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P3-207 765
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P3-206 963
8G 64F

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PR-198 817
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6T 13B

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6E 6R

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- PB-190 870 6L 6R REPORT OF TESTS MADE ON THE WESTINGHOUSE PANORAMIX (TRADE MARK) X-RAY MACHINE.
- PB-191 395 14873D COMPARISON OF MICROWAVE DETECTION INSTRUMENTS.
- PB-192 322 6R 57V EFFECT OF INSTRUMENT AVERAGING TIME ON MICROWAVE POWER DENSITY MEASUREMENTS.
- PB-209 267 7B 138 IMPROVED CHEMICAL METHODS FOR SAMPLING AND ANALYSIS OF GASEOUS POLLUTANTS FROM THE COMBUSTION OF FOSSIL FUELS. VOLUME I. SULFUR OXIDES. FINAL REPT.**
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PB-198 222 11K71Q DEVELOPMENT OF PHOSPHATE-FREE HOME LAUNDRY DETERGENTS.
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Document #36
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EXPERIMENTS.

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EXPERIMENTS.

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FINAL PROGRESS REPT. 1 APR 66-31 DEC 68.

PB-189 233 8I 138 OXYGENATION OF FERROUS IRON: THE RATE-DETERMINING STEP IN THE FORMATION OF ACIDIC MINE DRAINAGE.
FINAL PROGRESS REPT. 1 APR 66-31 DEC 68.

PB-182 558

13168 THE REPORT DETAILS RADIATION PROTECTION RECOMMENDATIONS FOR K-RAY DIFFRACTION AND SPECTROGRAPHIC EQUIPMENT, INCLUDING GUIDELINES FOR ADMINISTRATIVE RESPONSIBILITIES, OPERATING PROCEDURES, PERSONNEL MONITORING, AREA MONITORING, AND SAFETY ENGINEERING. THE REPORT IS DIRECTED TO OPERATORS, ADMINISTRATORS, GOVERNMENTAL HEALTH AGENCIES, AND MANUFACTURERS. (AUTHOR)

J-182 717 6P 5A THE REPORT DISCUSSES THE EXTENT OF THE USE OF RADIUM IN PRODUCTS AVAILABLE TO THE PUBLIC. IT IS AN ATTEMPT TO CONSOLIDATE INFORMATION PERTAINING TO THESE PRODUCTS SO THAT THEIR POTENTIAL HEALTH IMPLICATIONS CAN BE PUT INTO PERSPECTIVE. A GREATER AWARENESS IS NEEDED TO PROTECT THE PUBLIC FROM POTENTIAL EXPOSURE TO CONSUMER RADIUM. THE EXTENT AND HAZARDS OF THE USE OF THESE PRODUCTS SHOULD BE UNDERSTOOD BY ALL PUBLIC HEALTH AGENCIES. (AUTHOR)

INTERNATIONAL ENVIRONMENTAL REPORTS SYSTEM

Purpose and Scope

This system contains summaries of foreign government environmental reports received by EPA through document exchange programs with foreign countries. The resultant computer generated reports serve to alert the agency to major environmental developments around the world. The system produces reports by category (legal, planning and management, scientific and technical, and socio-economic), by country, and by subject (air, water, pesticides, radiation, solid waste, noise, and general).

Data Elements

All of the data is contained in a single file. The data elements include publisher ID number; document title; author; English translation; continent; country; language; date of publication; number of pages; category; document location; subjects; remarks; and the abstract. Document #39 (page 82) is a sample file layout.

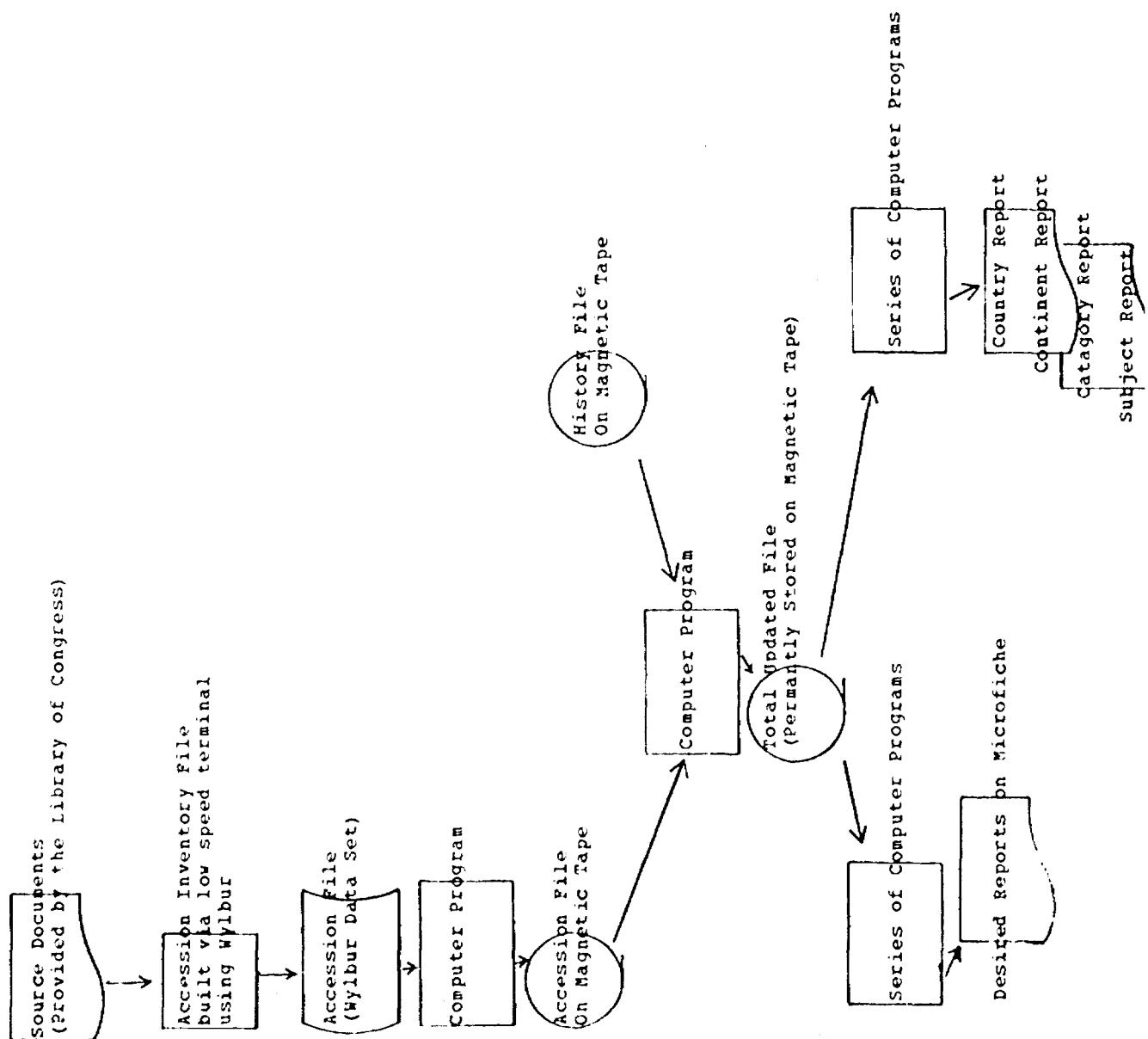
Status

The annotated bibliography containing reports of legal, legislative, and regulatory aspects of environmental quality has been prepared in machine readable form. The computer outputs have been generated and distributed. They are available in hard copy as well as on microfiche.

Plans

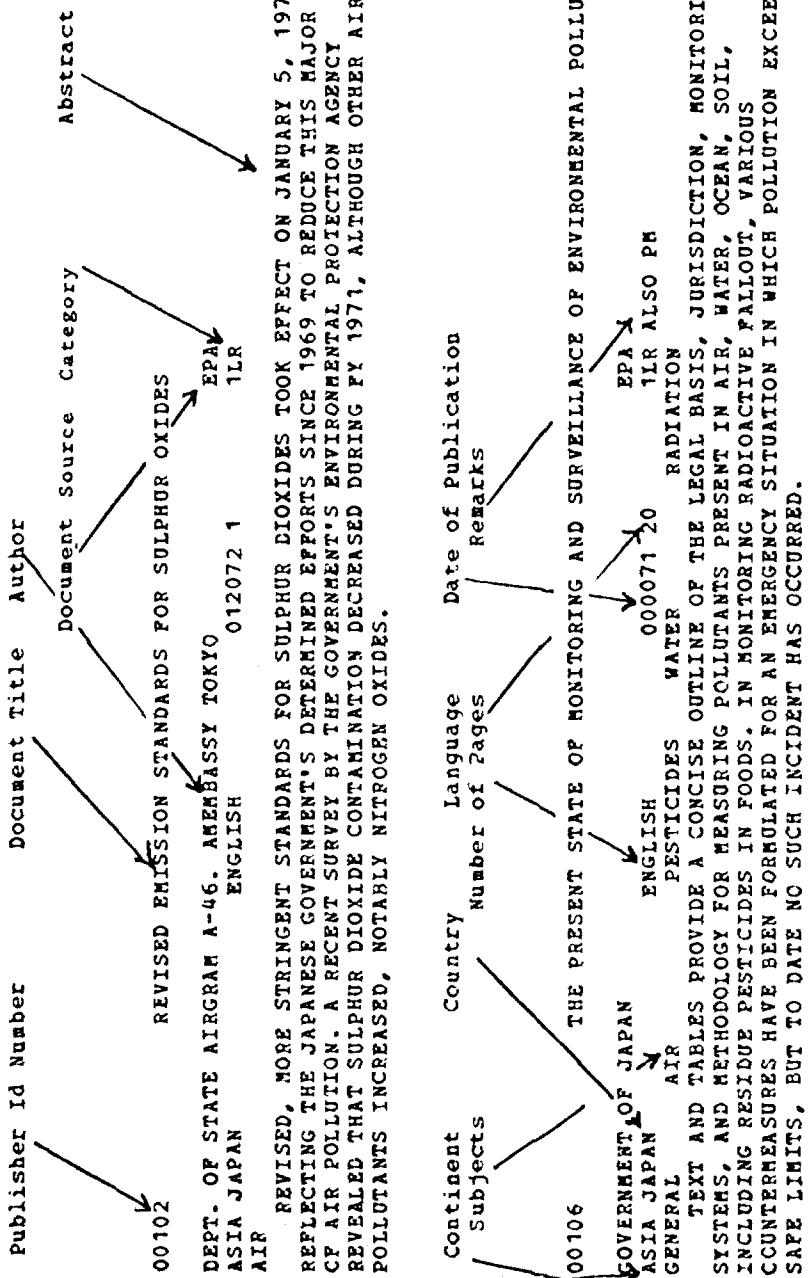
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Document #38 (page 81) is a system flow.
Document #40 (pages 83-84) is a sample of the country report.
Document #41 (pages 85-86) is a sample of the subject report.
Document #42 (pages 87-88) is a sample of the category report.
Document #43 (pages 89-90) is a sample of the continent report.



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Document #39
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82



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 ENGLISH
 NOISE

SEVERAL ANTI-NOISE MEASURES HAVE BEEN INITIATED BY STOCKHOLM'S PUBLIC HEALTH COMMITTEE. JET AIRCRAFT NOISE WAS REDUCED BY DESIGNATING NEARBY BRÖMMA AIRPORT EXCLUSIVELY FOR PISTON-ENGINED AIRCRAFT WHILE DIVERTING JET TRAFFIC TO ARLANDA AIRPORT 40 MILES AWAY. THE REQUIRED WARMUP OF PISTON ENGINES BEFORE TAKEOFF HAS BEEN HELD TO A MINIMUM SINCE SWEDEN'S DOMESTIC AIRLINES WERE URGED TO FIT THEIR AIRCRAFT WITH FLYING HEATERS. A RECENT ORDINANCE PROHIBITS IDLING OF MOTOR VEHICLE ENGINES OUTDOORS FOR LONGER THAN THREE MINUTES EXCEPT DURING TRAFFIC DELAY. THE SOUND LEVEL FROM A REFUSE COLLECTION TRUCK MUST NOT EXCEED 70 DB (DECIBELS) MEASURED THREE METERS AWAY, AND COMPRESSORS ON CONSTRUCTION SITES MUST NOT EMIT NOISE EXCEEDING 70 DB AT A DISTANCE OF SEVEN METERS.

LR

ENVIRONMENT PLANNING AND CONSERVATION IN SWEDEN
 SWEDISH INFORMATION SERVICE EPA
 ENGLISH
 WATER

EPA
 72 PGS 28 19# 30111

PUBLIC INFORMATION
 19# 30118

PERCENT SWEDISH ENVIRONMENTAL LEGISLATION IS HIGHLIGHTED IN THIS PUBLIC INFORMATION BROCHURE. SINCE JANUARY 1, 1972, ALL DUMPING FROM SWEDISH SHIPS AND AIRCRAFT IS PROHIBITED IN TERRITORIAL WATERS AND THE HIGH SEAS. THE LAW ALSO BANS DUMPING BY FOREIGN VESSELS IN SWEDISH TERRITORIAL WATERS, AND IT IS ILLEGAL FOR THEM TO EXPORT WASTES FROM SWEDEN FOR THE PURPOSE OF DUMPING IN THE HIGH SEAS. ANOTHER LAW, EFFECTIVE JUNE 1, 1972, STIPULATES THAT PCB'S AND MATERIALS CONTAINING PCB'S MAY NOT BE MANUFACTURED, SOLD, OR USED WITHOUT LICENSE.

-13-73
ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF INTERNATIONAL ACTIVITIES
COUNTRY/CATEGORY REPORT
PROG: OIA-COUNTRY

COUNTRY:

U.S.S.R.

PREVENTION OF OIL POLLUTION IN OCEANS

NINUPAROV S.M.

RUSSIAN

WATER

71 DGS 164 ID# 00168 FPA

THE BOOK DISCUSSES REASONS FOR OCEAN POLLUTION AS A RESULT OF TRANSPORT OPERATIONS AND WAYS TO DECREASE THE HARMFUL EFFECTS OF THIS POLLUTION ON NATURE AND MAN. A SURVEY IS GIVEN OF BASIC INTERNATIONAL AND USSR LEGISLATION FOR PREVENTION OF OIL POLLUTION.

PRACTICAL METHODS APPLIED IN THE USSR FOR DECREASING THE PROBABILITY OF ACCIDENTAL SPILLAGE OF OIL AND FOR PROHIBITING THE DUMPING OF OIL-POLLUTED WATER INTO THE OCEAN ARE PRESENTED. THERE ARE DESCRIPTIONS OF THE MOST EFFECTIVE ARRANGEMENTS AND DEVICES FOR LOCALIZING OIL SPILLS, THEIR REMOVAL, CONSTRUCTIONS FOR UNLOADING TANKERS, AND PURIFICATION.

GENERAL
 EUR
 SWEDEN ENVIRONMENT PROTECTION ACT MARINE DUMPING ACT WITH COMMENTARIES
 NAT. ENVIR. PROT. BOARD. EPA
 6/00/72 PGS 85 ID# 00129
 INFO FOR U.N. CONF. ON ENVIRONMEN
 AIR NOISE WATER

THE FIRST PART OF THIS BOOKLET REVIEWS THE SCOPE OF THE ENVIRONMENT PROTECTION ACT OF 1969, A LEGISLATIVE LANDMARK IN SWEDEN'S ANTI POLLUTION PROGRAM. IT SETS FORTH CRITERIA FOR CONTROL OF AIR AND WATER POLLUTION, NOISE, AND OTHER NUISANCES, AND CITES CASE DECISIONS OF EXAMINING BOARDS TO SHOW THE LAW'S APPLICATION, COMPENSATION GRANTED OR PENALTIES IMPOSED. UNDER THE ACT, PERSONS OR FIRMS PLANNING TO ENGAGE IN SPECIFIED INDUSTRIAL ACTIVITIES ARE REQUIRED TO APPLY TO A FRANCHISE BOARD FOR A PERMIT TO OPERATE. THIS BOARD MUST BE FULLY APPRAISED OF POSSIBLE POLLUTING EFFECTS OF THE ENTERPRISE, AND WHAT CONTROL DEVICES ARE TO BE USED TO COUNTERACT THE POLLUTION. THE SECOND PART CONTAINS A BRIEF COMMENTARY ON THE MARINE DUMPING PROHIBITION ACT, WHICH CAME INTO FORCE ON JANUARY 1, 1972.

NOISE APR REPORT ON POLLUTION
 SOUTH AFRICA THE PLANNING ADVISORY COUNCIL OF THE PRIME MINISTER EPA
 3/00/72 PGS 15 ID# 00253
 ALSO PM *GENERAL AIR RADIATION WATER

ASIA JAPAN TOKYO FIGHTS POLLUTION AN URGENT APPEAL FOR REFORM
 TOKYO METRO. GOV. BUREAU OF GEN. AFFAIRS EPA
 3/00/71 PGS 267 ID# 00119
 ALSO PM *GENERAL AIR SOLID WASTE WATER

ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF INTERNATIONAL ACTIVITIES
SUBJECT REPORT
PROG: OIA-SUBJECT

NOISE
EUR
NETHERLANDS

ENVIRONMENTAL HEALTH IN THE NETHERLANDS
MINISTRY OF PUBLIC HEALTH AND ENVIRONMENTAL HYGIENE
3/00/72 PGS 60 ID# 00239 EPA
LR *GENERAL WATER AIR SOLID WASTE RADIATION

SWEDEN
LR

ENVIRONMENT PROTECTION ACT MARINE DUMPING ACT WITH COMMENTARIES
NAT. ENVIR. PROT. BOARD.
4/00/72 PGS 85 ID# 00129
INFO FOR U.N. CONF. ON ENVIRONMEN
*GENERAL AIR WATER

SWEDEN
LR

PUBLIC HEALTH SERVICE
STOCKHOLM CENTRAL BOARD OF ADMINISTRATION INFO. COMMITTEE EPA
72 PGS 28 ID# 00111

SEVERAL ANTI NOISE MEASURES HAVE BEEN INITIATED BY STOCKHOLM'S PUBLIC HEALTH COMMITTEE.
JET AIRCRAFT NOISE WAS REDUCED BY DESIGNATING NEARBY BROMMA AIRPORT EXCLUSIVELY FOR
PISTON-ENGINEINED AIRCRAFT WHILE DIVERTING JET TRAFFIC TO ARLANDA AIRPORT 40 MILES AWAY.
THE REQUIRED WARMUP OF PISTON ENGINES BEFORE TAKEOFF HAS BEEN HELD TO A MINIMUM SINCE
SWEDEN'S DOMESTIC AIRLINES WERE URGED TO FIT THEIR AIRCRAFT WITH ENGINE HEATERS.
A RECENT ORDINANCE PROHIBITS IDLING OF MOTOR VEHICLE ENGINES OUTDOORS FOR LONGER THAN
THREE MINUTES EXCEPT DURING TRAFFIC DELAY. THE SOUND LEVEL FROM A PEPUSE COLLECTION
TRUCK MUST NOT EXCEED 70 DB (DECIBLES) MEASURED THREE METERS AWAY, AND COMPRESSORS ON
CONSTRUCTION SITES MUST NOT EMIT NOISE EXCEEDING 70 DB AT A DISTANCE OF SEVEN METERS.

73
ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF INTERNATIONAL ACTIVITIES
CATEGORY/COUNTRY REPORT
PROG: DIA-CATG

CATEGORY:

LR EUR
 ITALY

FACTS ON FILE
 VOL. 32. NO. 1645, 5-3
 ENGLISH
 GENERAL WATER

LOC
 5/03/72 PGS 35583 ID# 00138

AN ITALIAN INDUSTRIALIST, ALBERTO REDAELLI, WAS ARRESTED AND JAILED IN MILAN ON MAY 3 AFTER FAILING TO COMPLY WITH AN ORDER TO INSTALL ANTI-POLLUTION DEVICES IN HIS STEEL PLANT.

NETHERLANDS

ENVIRONMENTAL HEALTH IN THE NETHERLANDS
 MINISTRY OF PUBLIC HEALTH AND ENVIRONMENTAL HYGIENE
 ENGLISH
 GENERAL WATER AIR

EPA
 3/00/72 PGS 60 ID# 00239
 SOLID WASTE RADIATION

AFTER A SURVEY OF THE GENERAL ENVIRONMENT OF THE NETHERLANDS, THE BOOK TURNS TO SPECIFIC PROBLEMS. THE FIRST OF THESE IS WATER: WATER SUPPLY, USE OF RESOURCES, QUALITY CONTROL, AND WATER POLLUTION. UNDER THE LATTER, IT DESCRIBES SEWAGE DISPOSAL IN THE MAJOR CITIES, NATIONAL STANDARDS AND GOVERNMENTAL ORGANIZATIONS, AND INTERNATIONAL PROBLEMS ARISING IN CONNECTION WITH THE RHINE. THE SECOND POINT IS AIR: IN A SIMILAR FRAMEWORK SUCH ORGANIZATIONS AS THE AIR POLLUTION COUNCIL AND LEGAL MEASURES SUCH AS THE AIR POLLUTION ACT OF 1970 ARE DISCUSSED. RADIATION POLLUTION IS PRESENTED BRIEFLY IN TERMS OF RESEARCH ORGANIZATIONS AND LEGAL MEASURES, AS ARE SOLID WASTES. FOUNDATIONS AND LEGAL MEASURES AGAINST NOISE ARE ALSO GIVEN, IN PARTICULAR THE PUBLIC NUISANCE ACT WHICH AFFECTS ALL THE ABOVE PROBLEMS. THE BOOK THEN PROCEEDS TO DISCUSS PROBLEMS ARISING FROM RECREATION AND HOUSING AND THE POSSIBILITIES OF ANTI-POLLUTION TRAINING AND STUDY.

CATEGORY:

Lp SWEDEN
 EPA
 ENVIRON.
 NAT. ENVIR. PROT. BOARD.

ENVIRONMENT PROTECTION ACT MARINE DUMPING ACT WITH COMMENTARIES
 ENGLISH
 INFO FOR U.N. CONF. ON ENVIRONMENT
 GENERAL AIR NOISE
 WATER

THE FIRST PART OF THIS BOOKLET REVIEWS THE SCOPE OF THE ENVIRONMENT PROTECTION ACT OF 1969, A LEGISLATIVE LANDMARK IN SWEDEN'S ANTI-POLLUTION PROGRAM. IT SETS FORTH CRITERIA FOR CONTROL OF AIR AND WATER POLLUTION, NOISE, AND OTHER NUISANCES, AND CITES CASES OF SIGNIFICANT EXAMINING BOARDS TO SHOW THE LAW'S APPLICATION, COMPENSATION GRANTED, OR PENALTIES IMPOSED. UNDER THE ACT, PERSONS OR FIRMS PLANNING TO ENGAGE IN SPECIFIED INDUSTRIAL ACTIVITIES ARE REQUIRED TO APPLY TO A FRANCHISE BOARD FOR A PERMIT TO OPERATE. THIS BOARD MUST BE FULLY APPRISED OF POSSIBLE POLLUTING EFFECTS OF THE ENTERPRISE, AND WHAT CONTROL DEVICES ARE TO BE USED TO COUNTERACT THE POLLUTION. THE SECOND PART CONTAINS A BRIEF COMMENTARY ON THE MARINE DUMPING PROHIBITION ACT, WHICH CAME INTO FORCE ON JANUARY 1, 1972.

SWEDEN

ENVIRONMENT PLANNING AND CONSERVATION IN SWEDEN
 SWEDISH INFORMATION SERVICE
 ENGLISH
 WATER

EPA
 6/00/72 PGS 4
 10# 00118

RECENT SWEDISH ENVIRONMENTAL LEGISLATION IS HIGHLIGHTED IN THIS PUBLIC INFORMATION BROCHURE. SINCE JANUARY 1, 1972, ALL DUMPING FROM SWEDISH SHIPS AND AIRCRAFT IS PROHIBITED IN TERRITORIAL WATERS AND THE HIGH SEAS. THE LAW ALSO BANS DUMPING BY FOREIGN VESSELS IN SWEDISH TERRITORIAL WATERS, AND IT IS ILLEGAL FOR THEM TO EXPORT WASTES FROM SWEDEN FOR THE PURPOSE OF DUMPING IN THE HIGH SEAS. ANOTHER LAW, EFFECTIVE JUNE 1, 1972, STIPULATES THAT PCB'S AND MATERIALS CONTAINING PCB'S MAY NOT BE MANUFACTURED, SOLD, OR USED WITHOUT LICENSE.

3-73
ENVIRONMENTAL PROTECTION AGENCY
 OFFICE OF INTERNATIONAL ACTIVITIES
 CONTINENT/COUNTRY/CATEGORY REPORT
 PROG: OIA-CONTINENT

CONTINENT:

FUR
 SWEDEN
 LR

ENVIRONMENT PROTECTION ACT MARINE DUMPING ACT WITH COMMENTARIES
 NAT. ENVIR. PROT. BOARD.
 ENGLISH
 INFO FOR U.N. CONF. ON ENVIRONMEN
 GENERAL AIR
 NOISE
 WATER

THE FIRST PART OF THIS BOOKLET REVIEWS THE SCOPE OF THE ENVIRONMENT PROTECTION ACT OF 1969. A LEGISLATIVE LANDMARK IN SWEDEN'S ANTI POLLUTION PROGRAM. IT SETS FORTH CRITERIA FOR CONTROL OF AIR AND WATER POLLUTION, NOISE, AND OTHER NUISANCES, AND CITES CASE DECISIONS OF EXAMINING BOARDS TO SHOW THE LAW'S APPLICATION, COMPENSATION GRANTED, OR PENALTIES IMPOSED. UNDER THE ACT, PERSONS OR FIRMS PLANNING TO ENGAGE IN SPECIFIED INDUSTRIAL ACTIVITIES ARE REQUIRED TO APPLY TO A FRANCHISE BOARD FOR A PERMIT TO OPERATE. THIS BOARD MUST BE FULLY APPRAISED OF POSSIBLE POLLUTING EFFECTS OF THE ENTERPRISE, AND WHAT CONTROL DEVICES ARE TO BE USED TO COUNTERACT THE POLLUTION. THE SECOND PART CONTAINS A BRIEF COMMENTARY ON THE MARINE DUMPING PROHIBITION ACT, WHICH CAME INTO FORCE ON JANUARY 1, 1972.

SWEDEN
 LR

ENVIRONMENT PLANNING AND CONSERVATION IN SWEDEN
 SWEDISH INFORMATION SERVICE
 ENGLISH
 WATER

FPA
 10# 00118

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CONTINENT:

FUR
 SWEDEN
 Lg

PUBLIC HEALTH SERVICE
 STOCKHOLM CENTRAL BOARD OF ADMINISTRATION INFO. COMMITTEE EPA
 ENGLISH
 NOISE

SEVERAL ANTI-NOISE MEASURES HAVE BEEN INITIATED BY STOCKHOLM'S PUBLIC HEALTH COMMITTEE.
 JET AIRCRAFT NOISE WAS REDUCED BY DESIGNATING NEARBY ARCKMA AIRPORT EXCLUSIVELY FOR
 PISTON-ENGINED AIRCRAFT WHILE DIVERTING JET TRAFFIC TO ARLANDA AIRPORT 40 MILES AWAY.
 THE REQUIRED WARMUP OF PISTON ENGINES BEFORE TAKEOFF HAS BEEN HELD TO A MINIMUM SINCE
 SWEDEN'S DOMESTIC AIRLINES WERE URGED TO FIT THEIR AIRCRAFT WITH ENGINE HEATERS.
 A RECENT ORDINANCE PROHIBITS IDLING OF MOTOR VEHICLE ENGINES OUTDOORS FOR LONGER THAN
 THREE MINUTES EXCEPT DURING TRAFFIC DELAY. THE SOUND LEVEL FROM A REFUSE COLLECTION
 TRUCK MUST NOT EXCEED 70 DB (DECIBELS) MEASURED THREE METERS AWAY, AND COMPRESSORS ON
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U.S.S.R.

Lg
 PREVENTION OF OIL POLLUTION IN OCEANS
 NUNUPAROV S.-4.
 RUSSIAN
 WATER

EPA
 71 PGS 164
 ID# 20168

THE BOOK DISCUSSES REASONS FOR OCEAN POLLUTION AS A RESULT OF TRANSPORT OPERATIONS AND
 WAYS TO DECREASE THE HARMFUL EFFECTS OF THIS POLLUTION ON NATURE AND MAN. A SURVEY IS GIVEN OF
 BASIC INTERNATIONAL AND USSR LEGISLATION FOR PREVENTION OF OIL POLLUTION.
 PRACTICAL METHODS APPLIED IN THE USSR FOR DECREASING THE PROBABILITY OF ACCIDENTAL
 SPILLAGE OF OIL AND FOR PROHIBITING THE DUMPING OF OIL-POLLUTED WATER INTO THE OCEAN ARE
 PRESENTED. THERE ARE DESCRIPTIONS OF THE MOST EFFECTIVE ARRANGEMENTS AND DEVICES FOR
 LOCALIZING OIL SPILLS. THEIR REMOVAL, CONSTRUCTIONS FOR UNLOADING TANKERS, AND PURIFICATION.

DOCUMENT CONTROL SYSTEM

Purpose and Scope

This system gathers data on documents not covered by any other library system. A major component of this system is the vast environmental state and local report collection held by the EPA library network. From the resulting master file, various bibliographies can be generated by document title, shelf list number, primary author, corporate author, subject areas, and geographic area.

Data Elements

All of the bibliographic information is contained in a single file format. Data elements include shelf number (which identifies library and document shelf location); document title; up to three authors; date of publication; contract number; two corporate sources; up to five subjects (with subject class numbers); city area; state area; NTIS number; original report number; sponsoring report number; and a remarks field. Document #45 (page 94) is a sample file format.

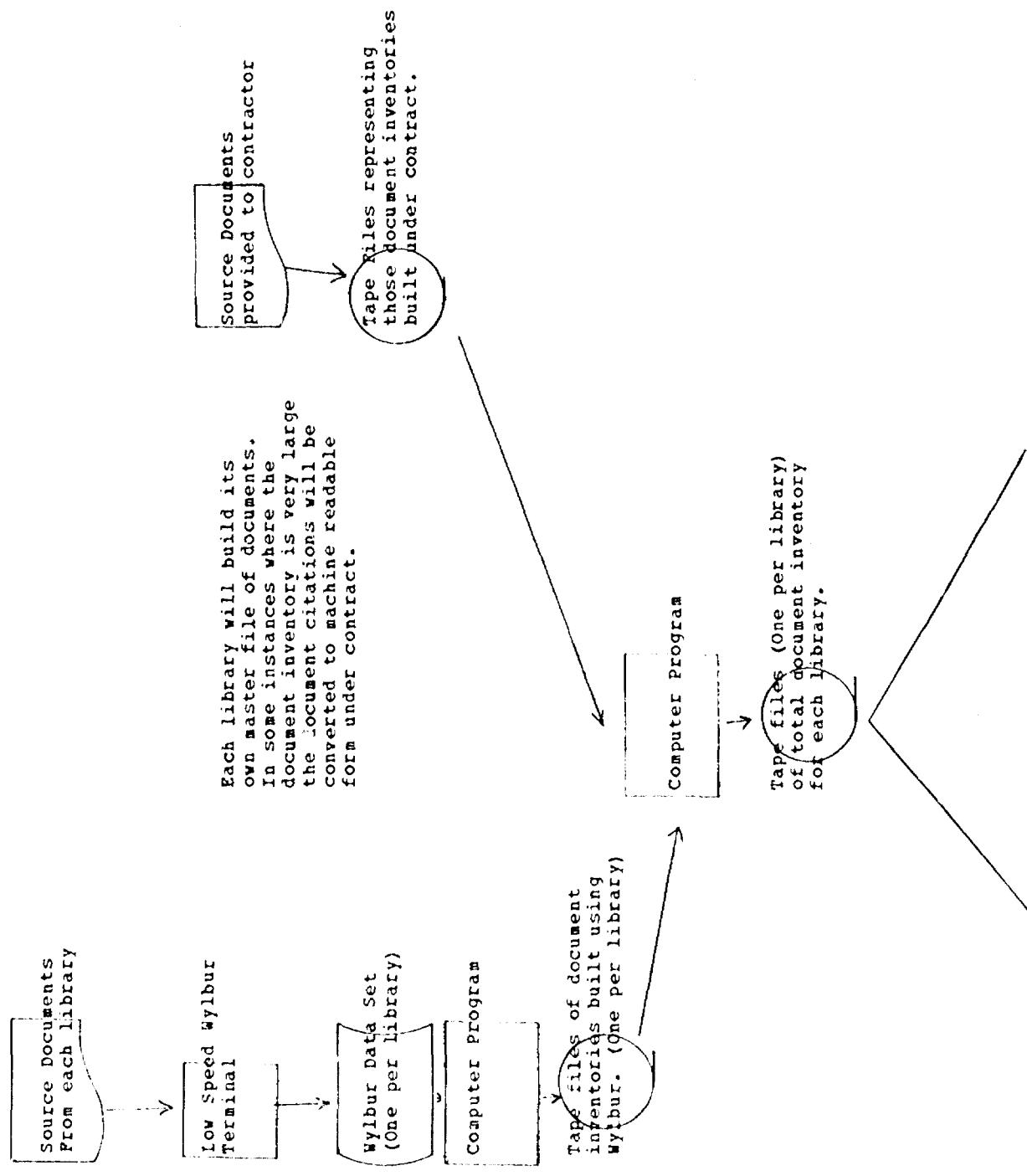
Status

All of the computer programs are operational. Currently, the system has been made available to three EPA libraries. These libraries are now developing the document data base. Because of the large number of reports in each location, the library will be responsible for developing its data base meeting the same exact system specifications.

Plans

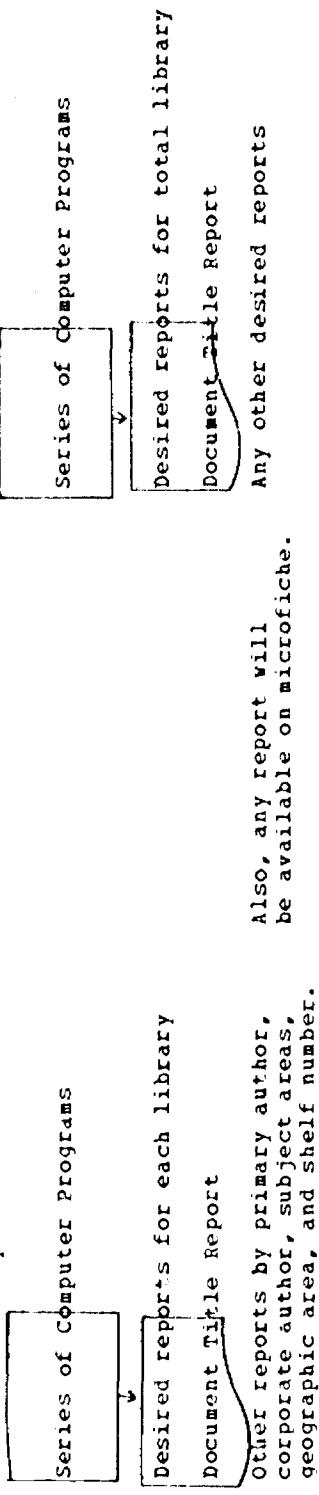
As libraries complete their data bases, they will have access to all of the report outputs. As the data base grows, certain combined outputs will be generated. As time allows, all other EPA librarians will be instructed on the system allowing each to build an appropriate master file.

Document #44 (pages 92-93) is a system flow.
Document #46 (pages 95-96) is a sample of the document title report.
Document #47 (pages 97-98) is a sample of the primary author report.
Document #48 (pages 99-100) is a sample of the primary corporate author report.
Document #49 (pages 101-102) is a sample of the subject report.
Document #50 (pages 103-104) is a sample of the geographic area report.
Document #51 (page 105) is a sample of the shelf list report.



Document #44 continued
The Document Control System

93



Document #45

Sample File Layout

Shelf Number	Document ID Number	Title	Author(s)	Publication Date	City Area	State
Corporate Source(s)	Subject Area(s)	Subject Class(s)	Contract Number	(if applicable)		
		SEVENTH TECHNICAL PROGRESS REPORT		0361		
FAITH W L AIR POLLUTION FOUNDATION	RENZETTI N A	MOTOR VEHICLE EMISSIONS	INSTRUMENTATION		SAN MARINO	CA
ATMOSPHERIC PHOTOCHEMISTRY			01			
33		THERMAL EFFECTS OF THE SURRY NUCLEAR POWER PLANT ON THE JAMES RIVER VIRGINIA	PART III			
		HARGIS JR W J	0273			
SHEARLS E A VIRGINIA INSTITUTE OF MARINE SCIENCE	CHIA S N					
		JAMES RIVER	NUCLEAR POWER PLANT			
		INFRA-RED SCANNING	06			
		OPO-4067-4				
		33				
NTIS Report Number (if applicable)	Original Report Number (if applicable)	Sponsoring Report Number (if applicable)	Report Number (if applicable)	Remarks Field (if applicable)		

J-08-74
ENVIRONMENTAL PROTECTION AGENCY
 LIBRARY SYSTEM REPORT
 DOCUMENT CONTROL SYSTEM
 PROG: DOCUMENT TITLE

TITLE SCHEDULE

- CURRICULUM ACTIVITIES GUIDE TO WATER POLLUTION AND ENVIRONMENTAL STUDIES V 1-2
 TILTON SCHOOL WATER POLLUTION PROGRAM
 GEO AREA: TILTON NH DATE: CONTRACT NO: 1TT1-WP-41-01
 SUBJ CLASS: 04 CURRICULUM DEVELOPMENT
 WATER POLLUTION
- ENVIRONMENTAL EDUCATION THE LAST MEASURE OF MAN
 KOHN R P
 UNITED STATES NATIONAL COMMISSION FOR UNESCO
 GEO AREA: ATLANTA GA DATE: 11/71 CONTRACT NO:
 03B000009 SUBJ CLASS: 10 ECOLOGICAL EFFECTS
 03B000006 SUBJ: ENVIRONMENTAL EDUCATION STUDY OF MANKIND
 HUMAN ECOLOGY
- EXPLOITING THE OCEAN TRANSACTIONS OF THE 2 ND ANNUAL MTS CONFERENCE AND EXHIBIT
 MARINE TECHNOLOGY SOCIETY
 GEO AREA: WASHINGTON DC DATE: 6/66 CONTRACT NO:
 03B000008 SUBJ CLASS: 04 10 OCEAN EXPLOITATION
 UNDERSEA MINING
 OCEAN DUMPING
- OPTIMIZATION OF WATER RESOURCE SYSTEMS INCORPORATING
 EARTHQUAKE RISK 1973 CONTRIBUTIONS
 DUKE C M JACOBSEN S E
 UNIVERSITY OF CALIFORNIA WATER RESOURCES CENTER
 GEO AREA: CA DATE: 6/73 CONTRACT NO: UCAL-WRC-W-339
 03B000010 SUBJ CLASS: 04 EARTHQUAKES
 03B000011 SUBJ: WATER RESOURCE SYSTEMS
 141
- RESOURCES OF NEW ENGLAND NEW YORK REGION PT 2 CH 1
 NEW ENGLAND NEW YORK INTER-AGENCY COMMITTEE
 GEO AREA: BOSTON MA DATE: 3/55 CONTRACT NO:
 03B000005 SUBJ CLASS: 04 14
 03B000007 SUBJ: NORTHEAST DRAINAGE BASIN WATER POLLUTION
- SCIENCE AND TECHNOLOGY AND ITS APPLICATION TO THE PROBLEMS OF POLLUTION
 TRANSPORTATION AND EMPLOYMENT WESTERN STATES CONFERENCE
 FEDERATION OF ROCKY MOUNTAIN STATES INC
 WESTERN GOVERNORS CONFERENCE
 GEO AREA: SALT LAKE CITY UT DATE: 3/70 CONTRACT NO:
 03B000007 SUBJ CLASS: 13 12 HUMAN RESOURCES
 03B000008 SUBJ: HUMAN ECOLOGY

-08-74
ENVIRONMENTAL PROTECTION AGENCY
LIBRARY SYSTEM REPORT
DOCUMENT CONTROL SYSTEM
PROG: DOCU-TITLE

THE SCHEDULE

SEVENTH TECHNICAL PROGRESS REPORT RENZETTI N A
 FAITH W L
 AIR POLLUTION FOUNDATION DATE: 3/61 CONTRACT NO:
 GEO AREA SAN MARINO CA
 03BC00001 SUBJ CLASS: 01 INSTRUMENTATION
 SUBJ: ATMOSPHERIC PHOTOCHEMISTRY

33

THERMAL EFFECTS OF THE SURRY NUCLEAR POWER PLANT ON THE JAMES RIVER VIRGINIA PART III HARGIS JR W J
 SHEARIS E A CHIA S N
 VIRGINIA INSTITUTE OF MARINE SCIENCE
 GEO AREA CLOUCESTER POINT VA DATE: 2/73 CONTRACT NO:
 03B000002 SUBJ CLASS: 06 NUCLEAR POWER PLANT
 SUBJ: THERMAL EFFECTS JAMES RIVER
 INSTRUMENT CALIBRATION INFRA-RED SCANNING
 33 ORO-4067-4

TRANSFER OF TECHNOLOGY TO DEVELOPING NATIONS
 PAPERS AND PROCEEDINGS OF A CONFERENCE HELD AT AIRLINE HOUSE APRIL 28 30 1966
 SPENCER D L WORONIAK A
 HOWARD UNIVERSITY

U S AIR FORCE OFFICE OF AEROSPACE RESEARCH
 GEO AREA WARRENTON VA DATE: 12/66 CONTRACT NO: AFOSR66
 03B000011 SUBJ CLASS: 10 SOPER W E
 SUBJ: TECHNOLOGY TRANSFER ECONOMIC THEORY

WASTE WATER RENOVATION AND CONSERVATION THE PENNSYLVANIA STATE UNIVERSITY STUDIES NO 23 PARIZEK R R KARDOS L T
 PENNSYLVANIA STATE UNIVERSITY
 GEO AREA UNIVERSITY PARK PA DATE: 67 CONTRACT NO:
 03B000003 SUBJ CLASS: 04 RENOVATION
 SUBJ: WASTE WATER

21 ST ANNUAL CONVENTION AMERICAN PUBLIC POWER ASSOCIATION PROCEEDINGS
 AMERICAN PUBLIC POWER ASSOCIATION
 GEO AREA JACKSONVILLE FL DATE: 5/64 CONTRACT NO:
 03B000004 SUBJ CLASS: 04
 SUBJ: POWER INDUSTRY PUBLIC POWER

ATOMIC POWER

ENVIRONMENTAL PROTECTION AGENCY
LIBRARY SYSTEM REPORT
DOCUMENT CONTROL SYSTEM
PROG : DOCU.AUTH

AUTHOR SCHEDULE

- DUKE C M JACOBSEN S E OPTIMIZATION OF WATER RESOURCE SYSTEMS INCORPORATING EARTHQUAKE RISK 1973 CONTRIBUTIONS UNIVERSITY OF CALIFORNIA WATER RESOURCES CENTER CA DATE: 6/73 CONTRACT NO: UCAL-WRC-W-339
GEO AREA 03B000010 SUBJ CLASS: 04 SUBJECT: WATER RESOURCE SYSTEMS EARTHQUAKES 141
- FAITH W L RENZETTI N A SEVENTH TECHNICAL PROGRESS REPORT AIR POLLUTION FOUNDATION CA DATE: 3/61 CONTRACT NO:
CEO AREA SAN MARINO CA 03B000001 SUBJ CLASS: 01 SUBJECT: ATMOSPHERIC PHOTOCHEMISTRY MOTOR VEHICLE EMISSIONS INSTRUMENTATION 33
- KOHN R F ENVIRONMENTAL EDUCATION THE LAST MEASURE OF MAN UNITED STATES NATIONAL COMMISSION FOR UNESCO GA DATE: 11/71 CONTRACT NO:
GEO AREA ATLANTA 03B000006 SUBJ CLASS: 10 SUBJECT: ENVIRONMENTAL EDUCATION STUDY OF HUMANKIND HUMAN ECOLOGY 33
- PRAZEREK R R KARDOS L T COPPER W E WASTE WATER RENOVATION AND CONSERVATION THE PENNSYLVANIA STATE UNIVERSITY STUDIES NO 23 PENNSYLVANIA STATE UNIVERSITY PA DATE: 67 CONTRACT NO:
GEO AREA UNIVERSITY PARK SUBJ CLASS: 04 SUBJECT: WASTE WATER RENOVATION 33
- SHEARLS E A CHIA S N HARGIS JR S J THERMAL EFFECTS OF THE SURRY NUCLEAR POWER PLANT ON THE JAMES RIVER VIRGINIA PART III VIRGINIA INSTITUTE OF MARINE SCIENCE VA DATE: 2/73 CONTRACT NO:
GEO AREA CLOUCESTER POINT 03B000002 SUBJ CLASS: 06 SUBJECT: THERMAL EFFECTS JAMES RIVER INFRARED SCANNING INSTRUMENT CALIBRATION ORO-4067-4 33

AUTHOR SCHEDULE

SPENCER D L

MORONIAK A
TRANSFER OF TECHNOLOGY TO DEVELOPING NATIONS

PAPERS AND PROCEEDINGS OF A CONFERENCE HELD AT AIRLIE HOUSE APRIL 28 30 1966

HOWARD UNIVERSITY

U.S AIR FORCE OFFICE OF AEROSPACE RESEARCH

GEO AREA WASHINGTON VA

DATE: 12/66 CONTRACT NO: AFOSR66

03B00011 SUBJ CLASS: 10

SUBJ: TECHNOLOGY TRANSFER
ECONOMIC THEORY

ENVIRONMENTAL PROTECTION AGENCY
LIBRARY SYSTEM REPORT
DOCUMENT CONTROL SYSTEM
PROG: DOCU.CORP

8-74
PRIMARY CORPORATE AUTHOR SCHEDULE

AIE POLLUTION FOUNDATION
SEVENTH TECHNICAL PROGRESS REPORT
FAITH W L RENZETTI N A DATE: 3/61 CONTRACT NO:
GEO AREA SAN MARINO CA
C3B00C001 SUBJ CLASS: 01
SUBJ: ATMOSPHERIC PHOTOCHEMISTRY MOTOR VEHICLE EMISSIONS INSTRUMENTATION
33

AMERICAN PUBLIC POWER ASSOCIATION
21 ST ANNUAL CONVENTION AMERICAN PUBLIC POWER ASSOCIATION PROCEEDINGS
GEO AREA JACKSONVILLE FL DATE: 5/64 CONTRACT NO:
C3B00C004 SUBJ CLASS: 04
SUBJ: POWER INDUSTRY PUBLIC POWER ATOMIC POWER

FEDERATION OF ROCKY MOUNTAIN STATES INC
SCIENCE AND TECHNOLOGY AND ITS APPLICATION TO THE PROBLEMS OF POLLUTION
TRANSPORTATION AND EMPLOYMENT WESTERN STATES CONFERENCE
WESTERN GOVERNORS CONFERENCE
GEO AREA SALT LAKE CITY UT DATE: 3/70 CONTRACT NO:
C3B00C007 SUBJ CLASS: 13 10
SUBJ: HUMAN RESOURCES HUMAN ECOLOGY

HOWARD UNIVERSITY
TRANSFER OF TECHNOLOGY TO DEVELOPING NATIONS
PAPERS AND PROCEEDINGS OF A CONFERENCE HELD AT AIRLIE HOUSE APRIL 28 30 1966
SPENCER D L MORONIAK A
U S AIR FORCE OFFICE OF AEROSPACE RESEARCH
G20 AREA WARRENTON VA DATE: 12/66 CONTRACT NO: AFOSR66
C3B00C011 SUBJ CLASS: 10
SUBJ: TECHNOLOGY TRANSFER ECONOMIC THEORY

MARINE TECHNOLOGY SOCIETY
EXPLOITING THE OCEAN TRANSACTIONS OF THE 2 ND ANNUAL MTS CONFERENCE AND EXHIBIT
GEO AREA WASHINGTON DC DATE: 6/66 CONTRACT NO:
C3B00C008 SUBJ CLASS: 04 1C
SUBJ: MARINE TECHNOLOGY OCEAN EXPLOITATION
UNDERSEA MINING MINING INDUSTRY OCEAN DUMPING

NEW ENGLAN NEW YORK INTER-AGENCY COMMITTEE
RESOURCES OF NEW ENGLAND NEW YORK REGION PT 2 CH 1
GEO AREA BOSTON MA DATE: 3/55 CONTRACT NO:
C3B00C005 SUBJ CLASS: 04 14
SUBJ: NORTHEAST DRAINAGE BASIN WATER POLLUTION

PRIMARY CORPORATE AUTHOR SCHEDULE

PENNSYLVANIA STATE UNIVERSITY
WASTE WATER RENOVATION AND CONSERVATION THE PENNSYLVANIA STATE UNIVERSITY STUDIES NO 23
PARIZEK R R KARDOS L T
GEO AREA UNIVERSITY PARK PA
03BC0003
SUBJ: WASTE WATER CLASS: 04
SUBJ: WASTE WATER RENOVATION

TILTON SCHCOL WATER POLLUTION PROGRAM
CURRICULUM ACTIVITIES GUIDE TO WATER POLLUTION AND ENVIRONMENTAL STUDIES V 1-2
GEO AREA TILTON NH
03B02009
SUBJ: ENVIRONMENTAL EDUCATION SUBJ CLASS: 04
SUBJ: ENVIRONMENTAL EDUCATION WATER POLLUTION

UNITED STATES NATIONAL COMMISSION FOR UNESCO
ENVIRONMENTAL EDUCATION THE LAST MEASURE OF MAN
KOBN R F
GEO AREA ATLANTA GA
03BC0006
SUBJ: ENVIRONMENTAL EDUCATION SUBJ CLASS: 10
SUBJ: ENVIRONMENTAL EDUCATION STUDY OF MANKIND

HUMAN ECOLOGY

UNIVERSITY OF CALIFORNIA WATER RESOURCES CENTER
OPTIMIZATION OF WATER RESOURCE SYSTEMS INCORPORATING
EARTHQUAKE FISK 1973 CONTRIBUTIONS
DUKE C M JACOBSEN S E
GEO AREA CA
03BC0010
SUBJ: WATER RESOURCE SYSTEMS SUBJ CLASS: 04
SUBJ: WATER RESOURCE SYSTEMS EARTHQUAKES

141

VIRGINIA INSTITUTE OF MARINE SCIENCE
THERMAL EFFECTS OF THE SURRY NUCLEAR POWER PLANT ON THE JALES RIVER VIRGINIA PART III
SHEARIS E A CHIA S N HARGIS JR W J
GEO AREA CLOUCESTER POINT VA
03BC0002
SUBJ: THERMAL EFFECTS SUBJ CLASS: 06
SUBJ: INSTRUMENT CALIBRATION
33 INFRA-RED SCANNING
NUCLEAR POWER PLANT
ORO-4067-4

ENVIRONMENTAL PROTECTION AGENCY
LIBRARY SYSTEM REPORT
DOCUMENT CONTROL SYSTEM
PROG: DOCU.SUBJNO

SUBJECT LISTING

ATMOSPHERIC PHOTOCHEMISTRY	01	SEVENTH TECHNICAL PROGRESS REPORT
ATOMIC POWER	04	21 ST ANNUAL CONVENTION AMERICAN PUBLIC POWER ASSOCIATION PROCEEDINGS
CURRICULUM DEVELOPMENT	04	CURRICULUM ACTIVITIES GUIDE TO WATER POLLUTION AND ENVIRONMENTAL STUDIES V 1-2
EARTHQUAKES	04	OPTIMIZATION OF WATER RESOURCE SYSTEMS INCORPORATING EARTHQUAKE RISK 1973 CONTRIBUTIONS
ECOLOGICAL EFFECTS	10	ENVIRONMENTAL EDUCATION THE LAST MEASURE OF MAN
ECONOMIC THEORY	10	TRANSFER OF TECHNOLOGY TO DEVELOPING NATIONS PAPERS AND PROCEEDINGS OF A CONFERENCE HELD AT AIRLINE HOUSE APRIL 28 30 1966
ENVIRONMENTAL EDUCATION	04	CURRICULUM ACTIVITIES GUIDE TO WATER POLLUTION AND ENVIRONMENTAL STUDIES V 1-2
HUMAN ECOLOGY	10	ENVIRONMENTAL EDUCATION THE LAST MEASURE OF MAN
C3B000007	13 10	SCIENCE AND TECHNOLOGY AND ITS APPLICATION TO THE PROBLEMS OF POLLUTION TRANSPORTATION AND EMPLOYMENT WESTERN STATES CONFERENCE
HUMAN RESOURCES	13 10	SCIENCE AND TECHNOLOGY AND ITS APPLICATION TO THE PROBLEMS OF POLLUTION TRANSPORTATION AND EMPLOYMENT WESTERN STATES CONFERENCE

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SUBJECT LISTING

INFRARED SCANNING 03B000002	06	THERMAL EFFECTS OF THE SURRY NUCLEAR POWER PLANT ON THE JAMES RIVER VIRGINIA PART III
INSTRUMENT CALIBRATION 03B000002	06	THERMAL EFFECTS OF THE SURRY NUCLEAR POWER PLANT ON THE JAMES RIVER VIRGINIA PART III
INSTRUMENTATION 03B000001	01	SEVENTH TECHNICAL PROGRESS REPORT
JAMES RIVER 03B000002	06	THERMAL EFFECTS OF THE SURRY NUCLEAR POWER PLANT ON THE JAMES RIVER VIRGINIA PART III
MARINE TECHNOLOGY 03B000008	04 10	EXPLOITING THE OCEAN TRANSACTIONS OF THE 2 ND ANNUAL MTS CONFERENCE AND EXHIBIT
MINING INDUSTRY 03B000008	04 10	EXPLOITING THE OCEAN TRANSACTIONS OF THE 2 ND ANNUAL MTS CONFERENCE AND EXHIBIT
MOTOR VEHICLE EMISSIONS 03B000001	01	SEVENTH TECHNICAL PROGRESS REPORT
NORTHEAST DRAINAGE BASIN 03B000005	04 14	RESOURCES OF NEW ENGLAND NEW YORK REGION PT 2 CH 1
NUCLEAR POWER PLANT 03B000002	06	THERMAL EFFECTS OF THE SURRY NUCLEAR POWER PLANT ON THE JAMES RIVER VIRGINIA PART III
OCEAN DUMPING 03B000008	04 10	EXPLOITING THE OCEAN TRANSACTIONS OF THE 2 ND ANNUAL MTS CONFERENCE AND EXHIBIT
OCEAN EXPLOITATION 03B000008	04 10	EXPLOITING THE OCEAN TRANSACTIONS OF THE 2 ND ANNUAL MTS CONFERENCE AND EXHIBIT
POWER INDUSTRY 03B000004	04	21 ST ANNUAL CONVENTION AMERICAN PUBLIC POWER ASSOCIATION PROCEEDINGS

8-74
 ENVIRONMENTAL PROTECTION AGENCY
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 DOCUMENT CONTROL SYSTEMS
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GEOGRAPHIC SCHEDULE

- CA EARTHQUAKE RISK 1973 CONTRIBUTIONS
 DUKE C H JACOBSEN S E
 UNIVERSITY OF CALIFORNIA WATER RESOURCES CENTER
 DATE: 6/73 CONTRACT NO: UCAL-WRC-W-339
 03B000010 SUBJ CLASS: 04
 SUBJ: WATER RESOURCE SYSTEMS EARTHQUAKES
 141
- SAN MARINO FAITH W L SEVENTH TECHNICAL PROGRESS REPORT
 AIR POLLUTION FOUNDATION RENZETTI N A
- DC WASHINGTON EXPLOITING THE OCEAN TRANSACTIONS OF THE 2 ND ANNUAL MTS CONFERENCE AND EXHIBIT
 FAITH W L RENZETTI N A
- DATE: 3/61 CONTRACT NO:
 03B00001 SUBJ CLASS: 01
 SUBJ: ATMOSPHERIC PHOTOCHEMISTRY MOTOR VEHICLE EMISSIONS INSTRUMENTATION
 33
- FL JACKSONVILLE 21 ST ANNUAL CONVENTION AMERICAN PUBLIC POWER ASSOCIATION PROCEEDINGS
 WASHINGTON
 MARINE TECHNOLOGY SOCIETY
 DATE: 6/66 CONTRACT NO:
 03B000008 SUBJ CLASS: 04 10
 SUBJ: MARINE TECHNOLOGY OCEAN EXPLOITATION
 UNDERSEA MINING MINING INDUSTRY
- GA ATLANTA ENVIRONMENTAL EDUCATION THE LAST MEASURE OF MAN
 KOHN R F
 UNITED STATES NATIONAL COMMISSION FOR UNESCO
 DATE: 11/71 CONTRACT NO:
 03B000006 SUBJ CLASS: 10
 SUBJ: ENVIRONMENTAL EDUCATION STUDY OF HUMANKIND
 HUMAN ECOLOGY

1-08-74
 ENVIRONMENTAL PROTECTION AGENCY
 LIBRARY SYSTEM REPORT
 DOCUMENT CONTROL SYSTEM
 PROG: DOCU-GEO

GEOGRAPHIC SCHEDULE

- MA BOSTON RESOURCES OF NEW ENGLAND NEW YORK REGION PT 2 CH 1
- NEW ENGLAND NEW YORK INTER-AGENCY COMMITTEE
 DATE: 3/55 CONTRACT NO:
 03B000005 SUBJ CLASS: 04 14
 SUBJ: NORTHEAST DRAINAGE BASIN WATER POLLUTION
- NH TILTON CURRICULUM ACTIVITIES GUIDE TO WATER POLLUTION AND ENVIRONMENTAL STUDIES V 1-2
- TILTON SCHOOL WATER POLLUTION PROGRAM
 DATE: CONTRACT NO: 1TT1-WP-47-01
 03B000009 SUBJ CLASS: 04
 SUBJ: ENVIRONMENTAL EDUCATION WATER POLLUTION
- PA UNIVERSITY PARK WASTE WATER RENOVATION AND CONSERVATION THE PENNSYLVANIA STATE UNIVERSITY STUDIES NO 23
 PARIZEK R R KARDOS L T HARGIS JR W E
 PENNSYLVANIA STATE UNIVERSITY
 DATE: 67 CONTRACT NO:
 03B000003 SUBJ CLASS: 04
 SUBJ: WASTE WATER RENOVATION
- UT SALT LAKE CITY SCIENCE AND TECHNOLOGY AND ITS APPLICATION TO THE PROBLEMS OF POLLUTION
 TRANSPORTATION AND EMPLOYMENT WESTERN STATES CONFERENCE
- FEDERATION OF ROCKY MOUNTAIN STATES INC
 WESTERN GOVERNORS CONFERENCE
 DATE: 3/70 CONTRACT NO:
 03B000007 SUBJ CLASS: 13 10
 SUBJ: HUMAN RESOURCES HUMAN ECOLOGY
- VA GLOUCESTER POINT THERMAL EFFECTS OF THE SURRY NUCLEAR POWER PLANT ON THE JAMES RIVER VIRGINIA PART III
 SHEARLS E A CHIA S N HARGIS JR W J
 VIRGINIA INSTITUTE OF MARINE SCIENCE
 DATE: 2/73 CONTRACT NO:
 03B000002 SUBJ CLASS: 06
 SUBJ: THERMAL EFFECTS JAMES RIVER
 INSTRUMENT CALIBRATION INFRA-RED SCANNING
 ORO-4067-4 33

SHELF LISTING

- C3B000001 FAITH W L SEVENTH TECHNICAL PROGRESS REPORT REPORT NO: 33
AIR POLLUTION FOUNDATION DATE: 3/61 PB NO:
- O3B000002 SHIGARIS E A THERMAL EFFECTS OF THE SURRY NUCLEAR POWER PLANT ON THE JAMES RIVER VIRGINIA PART III REPORT NO: 33 ORO-4067-4
VIRGINIA INSTITUTE OF MARINE SCIENCE DATE: 2/73 PB NO:
- C3B000003 PARIZEK R R WASTE WATER RENOVATION AND CONSERVATION THE PENNSYLVANIA STATE UNIVERSITY STUDIES NO 23 REPORT NO:
PENNSYLVANIA STATE UNIVERSITY DATE: 67 PB NO:
- C3B000004 21 ST ANNUAL CONVENTION AMERICAN PUBLIC POWER ASSOCIATION PROCEEDINGS REPORT NO:
AMERICAN PUBLIC POWER ASSOCIATION DATE: 5/64 PB NO:
- C3B000005 RESOURCES OF NEW ENGLAND NEW YORK REGION PT 2 CH 1 REPORT NO:
NEW ENGLAND NEW YORK INTER-AGENCY COMMITTEE DATE: 3/55 PB NO:
- C3B000006 KOHN R F ENVIRONMENTAL EDUCATION THE LAST MEASURE OF MAN REPORT NO:
UNITED STATES NATIONAL COMMISSION FOR UNESCO DATE: 11/71 PB NO:
- O3B000007 TRANS TATION AND EMPLOYMENT WESTERN STATES CONFERENCE SCIENCE AND TECHNOLOGY AND ITS APPLICATION TO THE PROBLEMS OF POLLUTION REPORT NO:
FEDERATION OF ROCKY MOUNTAIN STATES INC DATE: 3/70 PB NO:
- O3B000008 EXPLOITING THE OCEAN TRANSACTIONS OF THE 2 ND ANNUAL HTS CONFERENCE AND EXHIBIT REPORT NO:
MARINE TECHNOLOGY SOCIETY DATE: 6/66 PB NO:
- O3B000009 CURRICULUM ACTIVITIES GUIDE TO WATER POLLUTION AND ENVIRONMENTAL STUDIES V 1-2 REPORT NO:
TILTON SCHOOL WATER POLLUTION PROGRAM DATE: PB NO:
- C3B000010 OPTIMIZATION OF WATER RESOURCE SYSTEMS INCORPORATING EARTHQUAKE RISK 1973 CONTRIBUTIONS REPORT NO: 141
DUKE C M DATE: 6/73 PB NO:
UNIVERSITY OF CALIFORNIA WATER RESOURCES CENTER
- O3B000011 TRANSFER OF TECHNOLOGY TO DEVELOPING NATIONS PAPERS AND PROCEEDINGS OF A CONFERENCE HELD AT AIRLIE HOUSE APRIL 28 30 1966 REPORT NO:
SPENCER D L DATE: 12/66 PB NO:
HOWARD UNIVERSITY

Comparisons

This table briefly compares some of the common aspects of the library systems. The operation cost comparisons are based on the execution of a computer program that generates a standard report.

In all instances, the hardware is NIH's IBM 370/165's and the software is the Inquiry and Reporting System language.

The System	System Development Time*	Computer Program Executed	Execution Time (CPU SEC) Dollar Cost/Turn Around	Size of Master File	Type of Storage
The Journal System	160 Working Hours	Generates a journal inventory report for a single library - HQ's Library in this execution.	4.84 sec/\$7.25/ .2 hr turn around**	Journal holdings file-6262 120 ch records/Journal title file-2656 120 ch records	on-line Disk***
Hard Bound Book System	360 Working Hours	Generates a subject report for the total library network.	19.65 sec/\$32.62/ .2 hr turn around**	Book holdings file of 9098 130 ch records/Book title file of 2667 130 ch records.	on-line disk***
The Circulation System	120 Working Hours	Generates a daily report (alpha by title) of all library material on loan.	2.31 sec/\$3.12/.2 hr turn around**	Circulation master containing 589 120 ch records.	On-line disk
The Pesticides Literature Search System	360 Working Hours	Generates an author report representing all citations to date.	10.53 sec/\$15.36/.2 hr turn around**	Single Master file containing 1000 900 ch records. (This is a sample of the total file.)	Magnetic Tape

* The total combined time of the functional and technical staffs necessary to develop the application to an operational status using test files.

** Under normal conditions, a lower job class priority would have been used (12-14 hour turn around). A 20% discount would have resulted.

***The permanent storage used is magnetic tape. The cost of on-line storage is approximately 1.2 cents to 2 cents/day/track depending on whether public or private disk space is used.

ten Comparisons Continued

The System	System Development Time *	Computer Program Executed	Execution Time (CPU SEC) Dollar Cost/Turn Around	Size of Master File	Type of Storage
The Ecological Air Pollutant Literature Search System	.280 Working Hours	Generates an author report representing all citations to date.	.3.82 sec/\$4.52 12-14 hr turn around	Single Master file containing 500 1080 ch records. (This is a sample of the total file.)	Magnetic Tape
The EPA Reports Reporting System	.560 Working Hours	Generates an abstract report for the total master file.	.17.06 sec/\$18.95/ 12-14 hr turn around	Single Master file containing 1231 4800 ch records.	Magnetic Tape
International Environmental Reports System	.280 Working Hours	Generates a multiple subject index (with abstracts) for the total master file.	.9.54 sec/\$11.53/ 12-14 hr turn around	Single Master file containing 518 1600 ch records.	Magnetic Tape
The EPA Document Control System	.160 Working Hours	Not applicable as the system is developed only to the test phase.	Not applicable as the system is developed only to the test phase.	Single Master file containing 900 ch records.	Magnetic Tape

- * The total combined time of the functional and technical staffs necessary to develop the application to an operational status using test files.
- ** Under normal conditions, a lower job class priority would have been used (12-14 hour turn around). A 20% discount would have resulted.
- ***The permanent storage used is magnetic tape. The cost of on-line storage is approximately 1.2¢ to 2¢/day/track depending on whether public or private disk space is used.