

THE NLM TECHNICAL BULLETIN

JANUARY 1981

NO. 141

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PAGE FOR POPLINE CHAPTER OF ONLINE SERVICES
REFERENCE MANUAL

NTIS ORDER FORM

ERRATA TO 1981 ANNOTATED ALPHABETIC LIST

NEW QUALIFIERS ADDED TO 1980 AND 1981 MESH

NEW MINOR DESCRIPTOR ADDED TO 1981 MESH

NLM TECHNICAL BULLETIN - JAN 81

DATA BASE	TOTAL RECORDS	DATES COVERED	DATE LAST UPDATED	LATEST UPDATE TAG
*AVLINE	9,506	THROUGH 1981	15 JAN 81	
*BICETHICS	10,926	JAN 73-SEP 80	15 JAN 81	8101(EM)
*CANCERLIT	244,365	JAN 63-JAN 81	19 JAN 81	8101(EM)
*CANCERPROJ	18,403	1976-1980	20 OCT 80	8010(EM)
*CATLINE	206,364	THROUGH 1981	15 JAN 81	
CHEMLINE	488,270		19 JAN 81	
*CLINPROT	2,116		25 NOV 80	8011(EM)
*EPILEPSY	36,472	1945-PRESENT	20 OCT 80	
*HEALTH	164,449	JAN 75-FEB 81	13 JAN 81	8102(EM)
*HISTLINE	42,903		12 DEC 80	8012(EM)
MEDLINE	402,255	JAN 79-FEB 81	05 JAN 81	8102(EM)
#+MED77	511,005	JAN 77-DEC 78	15 DEC 80	
+MED75	643,953	JAN 75-DEC 76	15 DEC 80	
+MED72	669,106	JAN 72-DEC 74	15 DEC 80	
+MED69	668,257	JAN 69-DEC 71	15 DEC 80	
+MED66	501,801	JAN 66-DEC 68	15 DEC 80	
MESH VOC	38,003	1981	12 JAN 80	
*NAME AUTH	114,378		12 JAN 80	
*POPLINE	73,306	1970-JAN 81	12 JAN 80	8101(EM)
RTECS	44,362	1978 ED.-DEC 80	12 DEC 80	
SDILINE	17,084	FEB 81	05 JAN 81	
*SERLINE	36,267	1980	01 DEC 80	
TOC	2,547		11 SEP 80	
TOXLINE	440,321		26 JAN 81	8101(EM)
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HAYES	10,039	1940-1966		
TMIC	4,552	1971-1975		

- 1) * = NLM ONLY.
- 2) + = AVAILABLE ONLY THROUGH OFFSEARCH.
- 3) # = ALSO AVAILABLE ONLINE AT NLM ONLY.

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 Bethesda, Maryland 20209

TECHNICAL NOTES

PLEASE QUERY THE ONLINE NEWS FILES DAILY FOR SPECIAL NOTICES AND MESSAGES

Whenever applicable, the headings of each Technical Note will include a reference to the section of the NLM Online Services Reference Manual which is considered most relevant to the item being discussed (e.g., Manual 2.9). Users should keep in mind that the item may pertain to other sections of the Manual.

DIRECT DIAL PHONE NUMBERS - All direct dial numbers (for users in the Washington, DC metropolitan area and FTS users) to the new NLM computer changed on December 23, 1980 as follows:

<u>New Numbers</u>	<u>Old Numbers</u>
492-3150 through 492-3194 (type a P and press a carriage return when first connected)	656-2726, 657-1896, 496-1994, 652-4466, 496-1006, 656-4774
492-3129	492-1840, 656-4773
492-3121	654-2540
492-3142	496-6395
492-3124	656-9491
492-3125	656-9177

TRAINING - The Abbreviated Advanced training class (February 10-12) was closed at the end of December. Those applicants not included will be scheduled for subsequent Advanced classes.

CHEMLINE PRICE INCREASES - A significant increase in royalty payments to Chemical Abstracts Service for use of its data requires NLM to increase CHEMLINE charges effective April 1, 1981. The charges to domestic users will be:

Prime \$52/connect hour (includes \$37.64 royalty charge)
 Non-prime \$45/connect hour (includes \$37.64 royalty charge)
 Page charges \$0.22/page (includes \$0.07 royalty charge)

Letters regarding these changes were mailed out on December 30, 1980 to the Technical Bulletin addresses. If you do not receive the letter, please call MMS. MEDLARS centers in other countries will be contacted by CAS directly for renegotiation of their royalty fees.

TYMNET - There is now a new procedure for accessing NLM and SUNY via TYMNET: press a second carriage return after inputting the TYMNET password, e.g.:

PLEASE TYPE YOUR TERMINAL IDENTIFIER
 PLEASE LOG IN: **** (CR)
 PASSWORD: *** (CR)
 (press carriage return again)

NLM TECHNICAL BULLETIN - JAN 81

- TYMNET,
120 CPS
- PROGRAM
GREETING
CHANGES
- TOXLINE RN's,
December
Update
- POPLINE
(Manual
Part 24)
- CATLINE AT
SUNY
- YEAR-END
PROCESSING
- 1981 MESH
- POPLINE
KEYWORDS
- Twelve hundred bits per second (1200 bps or 120 cps) service is now available for users of the TYMNET network at both NLM and SUNY.
 - The stored address line has been removed from the 'HELLO' message at both NLM and SUNY. This does not affect the functioning of stored addresses. It has been a frequent request of our online users to remove this portion of the message in order to shorten the log in procedure.
 - The RN (CAS Registry Number) field could not be searched and retrieved for the December 1980 update portion of the TOXLINE file. This has now been corrected. Automatic SDI searches for this update have been re-processed at no charge and mailed to the participating users.
 - The POPLINE file became available on the NLM computer on December 15, 1980. NLM is pleased to offer this unique data base of population information and encourages you to try this newest addition to MEDLARS. Please refer to the article in the November 1980 Technical Bulletin for an introduction to this file. One copy of the Manual chapter was mailed to each user code in mid-December. Call MMS if you did not receive a copy.
 - User access to CATLINE was expanded on December 9, 1980, when CATLINE became available on the SUNY computer.
 - MEDLINE and its Backfiles and HEALTH were updated to reflect the 1981 Medical Subject Headings vocabulary at NLM and SUNY in December. All citations published or input during 1978 were transferred from MEDLINE to MED77 (see also online availability article on page 5 of this issue). Please use the 1981 MeSH vocabulary for searching MEDLINE, its Backfiles (MED77, MED75, MED72, MED69, MED66), and HEALTH. Backfile postings for terms will be updated in the MESH VOCABULARY file. Please see Appendix A for a list of entry dates for MEDLINE and its Backfiles.
 - The following are enclosed with this issue: Errata to 1981 MeSH, New Qualifiers added to 1980 and 1981 MeSH, and New Minor Descriptor added to 1981 MeSH.
 - A list of the keywords that no longer map to MeSH because they are also entry terms for the chemical records now in the MeSH Vocabulary File has been compiled. A copy is enclosed with the Bulletin. Please insert it as Appendix A to the POPLINE chapter in your Manual. These non-mapping terms can be directly searched in POPLINE as keywords by qualifying with (KW).

FIRST MEDLINE BACKFILE ONLINE AT NLM

On January 7, 1981, the MED77 (BACK77) file became available for online searching at NLM. Although many users have expressed a desire for having this and other backfiles online, the hospital library community has been particularly active in encouraging NLM to make more years available online. Further consideration will be given to mounting other backfiles at NLM, and, if possible, at SUNY as well. User response and online usage of MED77 will be important factors in this decision.

To use the file online, type FILE MED77 or FILE BACK77 or FILE B77. The file remains available for use through OFFSEARCH.

Users are encouraged to use the SAVESEARCH and SAVE commands to enter search formulations against the MEDLINE data base and re-execute the SAVED search against MED77 after changing files. This will eliminate the need for typing the search twice. Type EXPLAIN SAVESEARCH to see complete online instructions for using SAVE and SAVESEARCH, or refer to the articles in the NLM Technical Bulletin (February 1980, page 6; March 1980, pages 4-5; July 1980, pages 13-14.)

AACR 2 IMPLEMENTATION

Sally Sinn, Christa Hoffmann, Cataloging Section, NLM

As of January 2, 1981, the NLM Cataloging Section has been applying the Anglo-American Cataloguing Rules, 2nd edition (AACR 2) for records added to CATLINE and AVLINE and for the forms of name and series headings added to the Name Authority File (NAF). The AACR 2 rules are being applied for determining the content of the bibliographic records and headings; however, in some cases, the prescribed order or format of data in CATLINE, AVLINE and the NAF does not yet conform to AACR 2 and International Standard Bibliographic Description (ISBD) punctuation. The necessary modifications to the machine-readable record format will be implemented prior to the publication of the first or second quarterly issue for 1981 of Current Catalog and the NLM Audiovisuals Catalog. Users of the online files should be aware of the specific areas where the machine-readable records are not fully in conformance with format changes necessitated by the new rules. Notification of these areas has also appeared in each of the Current Catalog Weekly Proofsheets issued in 1981.

The changes to be implemented fall into two general categories: those that require further subelement definition, or specificity, in the data itself; and those that require modification to the output programs that produce the publications and format the online print commands.

Among the access points undergoing changes in AACR 2 are name headings that require parenthetical qualification, such as personal names in which the forenames and/or middle initials are given in full, e.g., Jung, C. G. (Carl Gustav); conference names where the number, date, and place of the meeting are given in parentheses, e.g., Symposium on Gas Exchange Function of Normal and Diseased Lungs (1980 : Gottingen, Germany); and corporate names which require

a geographic qualifier, e.g., Queens College (Flushing, N.Y.). The correct format is appearing in the printed publications, but the actual subelement separators required for accurate MARC output have not yet been implemented in the authority file nor in the machine-readable CATLINE and AVLINE files. Furthermore, conference names that are correctly broken down into the components of "name," "number," "date," and "place" in the authority record have not yet been restructured in the NAF to print the conference name heading in the new order for AACR 2.

A specific uniform title field that will be required for entry of laws, treaties, and certain other collected works, is being defined but is not yet available. This field will be implemented along with an added value for uniform title main entry type.

The series access points for the series note and added series entries will be changed to incorporate new subelements for the addition of the ISSN (International Standard Serials Number) and the subelements for inclusion of the statement of responsibility and subseries where applicable. Pending further clarification of AACR 2 interpretations at NLM and Library of Congress for the cataloging of serials and establishing of series access points under uniform titles, NLM is not yet making major changes to series entries for analyzed sets.

The second category of modification required for the publications and online output involves full incorporation of prescribed ISBD punctuation and format. Cataloging citations that do not print in a traditional paragraphed format should contain the ISBD punctuation of space-dash-space (--) between all areas, including between the Series Area and all notes, and between the Notes and the Standard Number and Terms of Availability Area, which most commonly contains the ISSN or International Standard Book Number (ISBN). Because of the structure of the separate, directly searchable ISBN field in CATLINE, from which the ISBN note currently appearing in the publication is derived, we are not yet able to print the Standard Number and Terms of Availability Area in its correct position with required ISBD punctuation.

Format changes to accommodate all of the above mentioned requirements are underway, but none will be implemented until after the 1980 annual Current Catalog and the 1976-1980 five-year cumulation of Current Catalog have been produced from CATLINE. They will be implemented as soon as possible and before the first 1981 quarterly publications from CATLINE and AVLINE. Likewise, maintenance for the necessary AACR 2 heading changes to the NAF and related CATLINE and AVLINE records will not be affected until after all 1980 (pre-AACR 2) publications are produced. AACR 2 forms of names are being added to established names in the NAF in the AACR 2 Reference (A2) field and all new names created as of January 2, 1981 are being established in AACR 2 form. These new AACR 2 forms of names are recognizable by a Date of Entry (DA) later than December 29, 1980 (801229). The maintenance to the NAF to convert already established names to the AACR 2 form coded in the A2 field will begin the end of January, 1981, and the name headings will be changed also in the CATLINE and AVLINE bibliographic records.

With the implementation of AACR 2, the NLM Cataloging Section will use the diacritics, umlaut [] and angstrom [], with their respective upper case letters. For example, Aerzte will now be input as Arzte. Records in the files will be changed to replace occurrences of Ae, Oe, Ue, and Aa with A, O, U, and A.

INFORMATION ABOUT GOVERNMENT REPORTS ON TOXICOLOGY AND RELATED
SUBJECTS AVAILABLE IN TOXLINE

Carol B. Haberman, M.S., M.P.A.
Specialized Information Services, NLM

Next month another component will be added to the TOXLINE file. This subfile, identified as TD3 (Toxicology Document and Data Depository), has citations to the report literature, along with associated abstracts, generated keywords, and ordering information. The TD3 component in TOXLINE is obtained primarily from the National Technical Information Service (NTIS) data base using a specially developed profile designed to retrieve material dealing with toxicology and related subjects. TD3 information will be added to TOXLINE monthly. Each update corresponds to the pertinent material contained in Government Reports Announcements and Index (GRA&I)* from the preceding month. Coverage in TOXLINE begins with GRA&I issue 79-21, October 12, 1979. From time to time, relevant reports not included in GRA&I will be added to TD3. Development of the TD3 project is being supported by the Department of Health and Human Services Committee to Coordinate Environmental and Related Programs through its Toxicology Information Subcommittee.

Two new print-only data elements, Order Number and Price, have been added to TOXLINE to accommodate the TD3. The TOXLINE elements used in TD3 are reviewed below. Their search and print status are the same as for all of TOXLINE.

<u>Category Qualifier</u>	<u>Element Name</u>	<u>Comment</u>
AB	Abstract	
AD	Address	This field may be multiply occurring to show each different address for the authors.
AU	Author	This field may be multiply occurring to show the authors of the report. If more than one AD is given, an author cannot be associated directly with a specific AD.
EM	Entry Month	This is an update tag added to each citation in the month it is added to TOXLINE.
ID	Identification Number	This field shows the report number, contract or grant numbers, project numbers, task numbers, as available.
KW	Keywords	These are the starred descriptors and identifiers from the NTIS data base. These items formerly appeared in the GRA&I.

* Government Reports Announcements and Index, (GRA&I) published every two weeks by NTIS (North American Continent \$275 per annum, all others \$375 per annum). Order from NTIS, Springfield, VA 22161.

<u>Category Qualifier</u>	<u>Element Name</u>	<u>Comment</u>
OD	Order Number	This print-only field contains the literal 'NTIS/' followed by the NTIS report number used to identify and order the document from NTIS. Also included are any special ordering instructions and the number of pages in the document. There may be some annotation concerning the media form as well as the number of volumes, reels, etc.
PR	Price	In this print-only field, the NTIS price code is given for PC (paper copy) and/or MF (microfiche). The table needed to determine document cost is included in the order form enclosed with this issue.
SA	Supporting Agency	This field may be multiply occurring. It contains the name of the agency responsible for supporting the project. It may also include the agency location.
SI	Secondary Source Identification	This field contains the literal 'NTIS/' followed by the NTIS report number used to identify and order the document.
SC	Source	This field shows the issue and year in which the report citation and abstract appeared in GRA&I.
TI	Title	The report title.
YR	Year	This is the year of publication of the report.

By including citations to the report literature, TOXLINE's coverage permits convenient identification of research work-in-progress, research and development reports, and journal publications, all in the area of toxicology and related fields. If you wish to restrict your search to a particular kind of literature, this can be accomplished by using the appropriate mnemonics -- RPROJ, TD3, etc. -- as search criteria. Alternatively, components can be eliminated from the retrieval set by specifying the removal of such items by use of the AND NOT operator. For example, the strategy

ALL CADMIUM AND NOT TD3

will remove the TD3 references from the set of hits on cadmium.

An NTIS order form with instructions for completion is enclosed with this issue.

NEW SERIALS ANNOUNCEMENT - DECEMBER 1980
 Serial Records, Technical Services Division, NLM

The following substantive serial titles were received or ordered by the Serial Records Section. IM to the left of the title indicates that the title appears in Index Medicus. ON ORDER, IN PROCESS, or an actual NLM call number appears at the bottom of the entry. Please include the NLM call number on interlibrary loan requests. Of course, NLM cannot fill loans for titles not yet received by the Library. The list is offered as an early announcement and will include price information if known. Information provided is not authorized NLM cataloging data. For further information, contact Ms. Janice Lennox, 301/496-1276, Technical Services Division, NLM.

AUDIO CASSETTE SERIES - THE AMERICAN
 DIETETIC ASSOCIATION
 1980--
 AMERICAN DIETETIC ASSOCIATION
 CONTINUES CASSETTE-A-MONTH - THE AMERICAN
 DIETETIC ASSOCIATION.
 CHICAGO UNITED STATES

WI AU201CS
 A74305000

AUDIOVISUAL RESOURCES
 1978--
 UNIVERSITY OF CONNECTICUT HEALTH CENTER,
 LEARNING RESOURCES CENTER

FARMINGTON CT UNITED STATES
 LEARNING RESOURCES CENTER, LYMAN MAYNARD
 STOWE LIBRARY, U. OF S. CONN HEALTH CENTER,
 FARMINGTON, CT 06032
 IN PROCESS
 A74714500

AUSTRALIA - NEW ZEALAND CONFERENCE ON PAIN
 1978--
 PERGAMON PRESS

SYDNEY AUSTRALIA

IN PROCESS
 A75181000

CHUNG-HUA WU LI I HSUEH TSA CHIH. CHINESE
 JOURNAL OF PHYSICAL MEDICINE
 1,SEP 1979--
 HEBEI MEDICAL COLLEGE

SHIJIA HUANG HEBAI CHINA

IN PROCESS
 C21233000

CORE JOURNALS IN CARDIOLOGY
 1980--
 CORE JOURNAL PUBLICATIONS

AMSTERDAM NETHERLANDS

ON ORDER
 C49082000

COPE JOURNALS IN GASTROENTEROLOGY
 SEP,1980--
 CORE JOURNAL PUBLICATIONS

AMSTERDAM NETHERLANDS

ON ORDER
 C49085000

CURRENT GASTROENTEROLOGY
 1,1980--
 HOUGHTON MIFFLIN
 SUPERSEDES CURRENT GASTROENTEROLOGY AND
 HEPATOLOGY.
 BOSTON UNITED STATES

ON ORDER
 C55685000

CURRENT HEPATOLOGY
 1,1980--
 HOUGHTON MIFFLIN
 SUPERSEDES CURRENT GASTROENTEROLOGY AND
 HEPATOLOGY.
 BOSTON UNITED STATES

ON ORDER
 C55725000

DEATH AND DYING A TO Z
 1980?--
 CRONER PUBLICATIONS
 QUARTERLY SUPPLEMENTS AND UPDATES.
 QUEENS VILLAGE NY UNITED STATES

ON ORDER
 D02170000

EUROPEAN JOURNAL OF GYNAECOLOGICAL ONCOLOGY
 1,1980--

PADUA ITALY
 EDITOR SOG, 16 VIA C. BATTISTI, 35100
 PADUA, ITALY
 IN PROCESS
 E16090000

HEALTH SYSTEMS PLAN
1979/80?--
HOUSTON-GALVESTON AREA COUNCIL HEALTH
SYSTEMS AGENCY

HOUSTON TX UNITED STATES

IN PROCESS
H08765000

INORGANIC BIOCHEMISTRY
1,1979--
CHEMICAL SOCIETY
CHEMICAL SOCIETY SPECIALIST PERIODICAL
REPORT.
LONDON ENGLAND

IN PROCESS
I17130000

INTERNATIONAL SYMPOSIUM ON COMPUTERS IN
CRITICAL CARE AND PULMONARY MEDICINE
1ST,1979--
PLENUM PRESS

NEW YORK UNITED STATES

IN PROCESS
I32350000

PERITONEAL DIALYSIS BULLETIN
1,JUN 1980--
TORONTO WESTERN HOSPITAL

TORONTO CANADA
TORONTO WESTERN HOSPITAL, 399 BATHURST ST.,
TORONTO, CANADA M5T 2S8
IN PROCESS
P08250000

PSICOANALISIS
1,1979--
ASOCIACION PSICOANALITICA DE BUENOS AIRES

BUENOS AIRES ARGENTINA
ASOCIACION PSICOANALITICA DE BUENOS AIRES,
MAURE 1852/72 - 1426 BUENOS AIRES,
ARGENTINA
IN PROCESS
P52390000

REPORT ON RESEARCH ACTIVITIES /
TUBERCULOSIS RESEARCH CENTRE
1979?--
INDIAN COUNCIL OF MEDICAL RESEARCH
CONTINUES REPORT ON RESEARCH ACTIVITIES -
TUBERCULOSIS CHEMOTHERAPY CENTRE.
CHETPUT MADRAS INDIA
MUST ORDER DIRECT. ADDRESS: INDIAN COUNCIL
OF MEDICAL RESEARCH TUBERCULOSIS
CHEMOTHERAPY CENTRE, CHETPUT, MADRAS-31,
INDIA
IN PROCESS
R19630300

REVIEWS IN CANCER EPIDEMIOLOGY
1,1980--
ELSEVIER/NORTH HOLLAND

NEW YORK UNITED STATES

IN PROCESS
R29015000

SHANG HAI I HSUEH. SHANGHAI MEDICAL
JOURNAL
1,1978?--
CHINESE MEDICAL ASSOCIATION, SHANGHAI BRANCH

SHANGHAI CHINA

IN PROCESS
S22385000

UPDATE IN CLINICAL DENTISTRY
1978
AMERICAN DENTAL ASSN
SELECTED FROM ORAL RESEARCH ABSTRACTS.
CHICAGO UNITED STATES

ZWJ 100.3 U66
U04080000

APPENDIX A

DATE OF ENTRY (DA) RANGES FOR YEARLY SEGMENTS OF MEDLINE AND ALL BACKFILES

MED66	1966 - 651113 through 661101 1967 - 661123 through 671119 1968 - 671212 through 681111
MED69	1969 - 681117 through 691119 1970 - 691126 through 701112 1971 - 701117 through 711117
MED72	1972 - 711130 through 721030 1973 - 721108 through 731116 1974 - 731130 through 741119
MED75	1975 - 741205 through 751108 1976 - 751120 through 761103
MED77	1977 - 761104 through 771031 1978 - 771101 through 781027
MEDLINE	1979 - 781118 through 791026 1980 - 791121 through 801027 1981 - 801120 through 81_____

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 Bethesda, Maryland 20209

NLM TECHNICAL BULLETIN - FEB 81

ONLINE NEWS
FILE UPDATES

- The following format has been adopted in the online news to announce recent database updates:

NEW 02/19/81

RECENT DATABASE UPDATES

NLM DATE	SUNY DATE	FILE NAME	UPDATE TAG	CITATIONS ADDED	TOTAL CITATIONS
2/19	---	SERLINE	---		37,136
2/16	---	HEALTH	8103(EM)	2,582	167,031
2/16	---	POPLINE	8102(EM)	765	74,069
1/19	2/16	CHEMLINE	---	6,496	488,270

MORE NEWS? (YES/NO)

CORRECTIONS,
JANUARY 81
TECHNICAL
BULLETIN

- The diacritics in the last paragraph of the article entitled AACR 2 IMPLEMENTATION were omitted. This paragraph should read:

With the implementation of AACR 2, the NLM Cataloging Section will use the diacritics, umlaut [¨] and angstrom [°], with their respective upper case letters. For example, Aerzte will now be input as Ärzte. Records in the files will be changed to replace occurrences of Ae, Oe, Ue, and Aa with Ä, Ö, Ü, and Å.

- Please discard Appendix A of the January 1981 issue, DATE OF ENTRY RANGES FOR YEARLY SEGMENTS OF MEDLINE AND ALL BACKFILES; use instead the corrected version provided as Appendix B of this issue.

DATABASE
UPDATES

- Appendix A shows the update frequency for the databases.

AVLINE UPDATE

Alice E. Jacobs, Cataloging Section, NLM

In conjunction with the implementation of the new videocassette loan program being offered by the National Medical Audiovisual Center (NMAC), which was announced in the December 1980 issue of NLM News, AVLINE now contains new values in the Procurement Source (PC) and Shelving Location (SL) fields. The new values, described below, are directly searchable and printable to aid in the identification of titles available for loan from NMAC. Numbers in parentheses refer to the topics affected in the AVLINE section of the Online Services Reference Manual, 1980.

PROCUREMENT SOURCE (PC) (9.5.36)

1. Searching in AVLINE

The tag NMAC-ILL appears in this field to show the loan status of an item. For NMAC items that are also available through the 16 mm motion picture booking program, the Procurement Source field contains both the full established form of the name (i.e., National Medical Audiovisual Center) and the NMAC-ILL tag.

Search examples:

SS 1 /C?
 USER:
 NMAC-ILL (PC)
 PROG:
 SS (1) PSTG (833)

Retrieves videocassette titles available for loan through the videocassette loan program.

SS 2 /C
 USER:
 NATIONAL MEDICAL AUDIOVISUAL CENTER (PC)
 PROG:
 SS (2) PSTG (842)

Retrieves titles available through the 16 mm motion picture booking program.

SS 3 /C?
 USER:
 (PC) NMAC-ILL OR NATIONAL MEDICAL AUDIOVISUAL CENTER
 PROG:
 SS (3) PSTG (1580)

Retrieves all titles available through either of NMAC's distribution services.

2. Searching in Name Authority File (NAF)

In the Name Authority File (NAF), the full distributor name and address information can be retrieved by searching on the value found in the AVLINE Procurement Source (PC) field. In the case of NMAC, for example, you can search on the full print version, National Medical Audiovisual Center, OR the first four letters of the tag, NMAC. (Searching on the tag produces a multi-meaning message because NMAC is a backwards cross reference to the full name as well as a Text Word.)

SS 1 /C?
 USER:
 NATIONAL MEDICAL AUDIOVISUAL CENTER
 PROG:
 SS (1) PSTG (1)

Searching on full print version.

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SS 2 /C
 USER:
 NMAC
 PRG:
 MM (NMAC) (2)
 1 NMAC (BX)
 2 NMAC (TW)
 SPECIFY NUMBERS, ALL, OR, NONE-

Searching on first four
 letters of tag.

The NAF record, as shown below, contains the address and telephone information for both the film booking program and the videocassette loan program.

SS 3 /C
 USER:
 prt d1
 PRG:

1
 NA - National Medical Audiovisual Center
 NE - NATI/MAC
 NT - CORPORATE NAME
 NI - PROCUREMENT SOURCE
 FN - NAME (DIRECT ORDER)
 BX - National Library of Medicine. National Medical Audiovisual
 Center:4:NATI/LOMNMAC
 BX - Atlanta. National Medical Audiovisual Center:4:ATLA/NMAC
 BX - U. S. National Library of Medicine. National Medical
 Audiovisual Center:4:U.S./NLOMNMAC
 BX - NMAC:4:NMAC/
 BX - Bethesda, Md. National Medical Audiovisual Center:4:BETH/MNMAC
 BX - U. S. Public Health Service. Audiovisual Facility:5:U.S./PHSAF
 SO - Assistive devices for the handicapped. 1968
 AD - For 16 mm film bookings program: }
 AD - 5797 Peachtree Rd. }
 AD - Atlanta, GA 30340 } FILM BOOKING PROGRAM
 AD - 404-458-6251 }
 AD - For videocassette interlibrary loan program: }
 AD - NMAC/MUB - B2E17, B1dg. 36A }
 AD - 8600 Rockville Pike }
 AD - Bethesda, MD 20209 }
 AD - 301-496-4244 } VIDEOCASSETTE
 RO - O:MED }
 RO - C:MED }
 RO - M:VET }
 DA - 741223 }
 LR - 801205 }
 HN - Formerly, U. S. Public Health Service. Audiovisual Facility.
 Name changed to above in 1967.
 LA - Eng
 DN - NMAC distributes 16 mm films through its Atlanta, Georgia address
 and handles videocassette interlibrary loan through its offices
 in Bethesda, Maryland.

SHELVING LOCATION (SL) (9.5.47)

The new shelving location value, NMAC, represents only those titles available through the NMAC videocassette loan program, and is searchable in AVLINE as follows:

SS 1 /C?
 USER:
 NMAC (SL)
 PROG:
 SS (1) PSTG (833)

Change in Publication of Notes for Medical Catalogers

Beginning in 1981, the publication frequency and mode of distribution of Notes for Medical Catalogers will change. Previously, this publication was prepared by the National Library of Medicine Cataloging Section and published on an annual basis by the Medical Library Association (MLA). In order to announce NLM cataloging policies and practice in a more timely publication, especially as they relate to the application of Anglo-American Cataloguing Rules, 2nd Edition, NLM will include the Notes as a separate, removable section of each quarterly issue of the National Library of Medicine Current Catalog. An annual cumulation of the contents of the quarterly issues will be made available as a separate publication from the National Technical Information Service (NTIS).

The first 1981 quarterly issue of Notes will include the section on "New Descriptors in 1981 MeSH," but for 1982 and later editions of MeSH, the section on new descriptors with scope notes will be published only in the Annotated Alphabetic MeSH, available from NTIS, and the NLM Technical Bulletin.

Orders for Notes for Medical Catalogers should no longer be sent to the Medical Library Association. Individuals and/or institutions that wish to purchase Notes but do not subscribe to the NLM Current Catalog quarterlies may still obtain the annual cumulation through NTIS. Additional information on the availability of the annual Notes, including the address and price, will be announced in later issues of the NLM News and the MLA News.

PUBLICATION OF LIMITED CATALOGING RECORDS
Sally K. Sinn, Assistant Head, Cataloging Section, NLM

The NLM Technical Bulletin (Oct. 79, No. 126) announced NLM's policies for limited cataloging records added to CATLINE. During 1979 and 1980, limited cataloging records were distributed only through the online CATLINE file. These citations will now appear in the 5-year cumulation of Current Catalog (1976-1980) which is being published in 1981. They will appear interfiled with regular full level monographic cataloging and may be identified by the note "Limited cataloging" and the presence of a shelving number rather than full classification and book number in the 04NLM Call Number (CA) field.

In addition to the main entry, limited cataloging records will have access by title added entry, or in the case of title main entry, an access under the first personal or corporate name given in the statement of responsibility. They will also appear in the Subject Section of the 5-year cumulation under one or two general subject headings.

Current limited cataloging prepared under Anglo-American Cataloging Rules, 2nd edition (AACR 2) and entered into CATLINE after December 1980, will be published in the regular quarterly and annual Current Catalog cumulations.

The NLM Cataloging Section is interested in user reaction to these limited cataloging records. When a library uses NLM limited cataloging copy for an item which it has acquired and cataloged, we would very much appreciate receiving a copy of that library's record. This feedback will assist NLM in determining whether our priorities for providing limited and full level cataloging are consistent with the acquisition and cataloging practices of health sciences libraries. Our aim is to provide full cataloging for the majority of items acquired and cataloged by other health sciences libraries and to use limited cataloging to announce the availability of other items in the NLM collection.

Copies of limited cataloging records that your library has used may be sent to:

Sally K. Sinn
Assistant Head, Cataloging Section
National Library of Medicine
8600 Rockville Pike
Bethesda, Maryland 20209

MONTHLY HINT: SYSTEM ALIASES--AVOIDING MISUSE

On some occasions when a user is engaged in a question-and-answer dialog with the computer, such as during PRINT OFFLINE and OFFSEARCH procedures, it may appear that the computer is responding inappropriately. For example:

```

PROG:
REQUESTER'S NAME, OR SAME-

USER:
fd smith
PROG:
OFFSEARCH COMMAND HAS BEEN CANCELLED.
SS (2) PSTG (7)
    
```

This is because the user has inadvertently used a word that is meaningful (i.e., requires immediate action) to the computer: FD is a synonym (or alias) for the FIND command.* Because typing any command during a question-and-answer dialog will cause the entire procedure to be cancelled, the computer reads FD SMITH as a command to FIND SMITH, cancels the OFFSEARCH, and retrieves 7 postings for SMITH. One obvious possibility for accidentally issuing a command is the use of the abbreviation PROF for PROFESSOR in a mailing address, search title, or requester's name:

```

NAME?

USER:
prof jane doe
PROG:
OFF-LINE-PRINT COMMAND HAS BEEN CANCELLED.
'JANE DOE' IS NOT A VALID KEYWORD.
ACTION?
    
```

In this instance PROF is a synonym for the PROFILE command, and ACTION? means do you want to LIST or MODIFY? Therefore, when the computer behaves in this manner, examine your last entry carefully for hidden commands. If the program's response remains a puzzle, call the MMS Service Desk.

* A list of commands and their synonyms appears in PART 4.9.30 of the Online Services Reference Manual; aliases for the SAVE and PROFILE commands are given in the December 1980 issue of the NLM Technical Bulletin.

In addition, the computer may find a user's response meaningful in another way. For example:

```
SS 3 /C?  
USER:  
prt offline  
PROG:  
REQUESTER'S NAME, OR SAME-
```

```
USER:  
s whoever, ph.d.  
PROG:  
SEARCH TITLE, OR NONE-
```

The computer has given no indication that the user's response was interpreted in an unusual way, but when the printout is received there will be no requester's name on the cover: the S was read as a synonym for SAME, which causes no name to be printed on the cover pages.

Any of these difficulties may be avoided by typing a period after the first word of the entry:

```
PROF. JANE DOE  
S. WHOEVER, PH.D.  
FD. SMITH
```

NEW SERIALS ANNOUNCEMENT - JANUARY 1981
Serial Records, Technical Services Division, NLM

The following substantive serial titles were received or ordered by the Serial Records Section. IM to the left of the title indicates that the title appears in Index Medicus. ON ORDER, IN PROCESS, or an actual NLM call number appears at the bottom of the entry. Please include the NLM call number on interlibrary loan requests. Of course, NLM cannot fill loans for titles not yet received by the Library. The list is offered as an early announcement and will include price information if known. Information provided is not authorized NLM cataloging data. For further information, contact Ms. Janice Lennox, 301/496-1276, Technical Services Division, NLM.

ADVANCES IN INFLAMMATION RESEARCH
1,1979--
RAVEN PRESS

NEW YORK UNITED STATES
RAVEN PRESS, 1140 AVENUE OF THE AMERICAS,
NEW YORK, NY 10036
WI AD648
A14225000

AMERICAN JOURNAL OF INTRAVENOUS THERAPY AND
CLINICAL NUTRITION
6N3, APRIL/MAY 1979--
MCMAHON
CONTINUES THE AMERICAN JOURNAL OF
INTRAVENOUS THERAPY.
GEORGETOWN CT UNITED STATES

WI AM469E
A24320000

IM ANNALS OF EMERGENCY MEDICINE
9,1980--
AMERICAN COLLEGE OF EMERGENCY PHYSICIANS
CONTINUES JACEP. JOURNAL OF THE AMERICAN
COLLEGE OF EMERGENCY PHYSICIANS AND THE
UNIVERSITY ASSOCIATION FOR EMERGENCY
MEDICINE.
LANSING MI UNITED STATES

WI AN574M
A34870000

EIS: DIGESTS OF ENVIRONMENTAL IMPACT
STATEMENTS
3N7, JUL 1979--
INFORMATION RESOURCES PRESS
CONTINUES EIS: KEY TO ENVIRONMENTAL IMPACT
STATEMENTS.
WASHINGTON UNITED STATES
INFORMATION RESOURCES PRESS, 2100 M STREET,
N.W. SUITE 316, WASHINGTON, D.C. 20037
ZWA 670 E105
E03855000

EXPERIMENTAL AND CLINICAL PSYCHIATRY
1,1979--
MARCEL DEKKER

NEW YORK UNITED STATES
WI EX465
E19350000

FAMILY PRACTICE RECERTIFICATION
1,APR 1979--
MEDICAL RECERTIFICATION ASSOCIATES
APPROVED FOR CONTINUING EDUCATION CREDIT BY
THE AMA.
WHITE PLAINS NY UNITED STATES
MEDICAL RECERTIFICATION ASSOCIATES, 190
EAST POST ROAD, WHITE PLAINS, NY 10601.
TELEPHONE (914) 948-7600.
WI FA454CM
F01090000

HYPERBARIC OXYGEN REVIEW
1,JAN 1980--
PLENUM PRESS
PREPARED BY THE UNDERSEA MEDICAL SOCIETY.
NEW YORK UNITED STATES

ZWB 342 H998
H23790000
\$45.00

ILLINOIS PHARMACIST
41,SEPT 1979--
ILLINOIS PHARMACISTS ASSN
RESUMES NUMBERING OF: ILLINOIS PHARMACIST,
ISSN 0019-2163. SUPERSEDES IN PART
ILLINOIS JOURNAL OF PHARMACY. OFFICIAL
PUBLICATION OF THE ILLINOIS PHARMACISTS
ASSOCIATION.
SPRINGFIELD IL UNITED STATES

WI IL433B
I05330000

JOURNAL OF ECOLOGICAL AND LIFE CHEMISTRY
1,1979--
GORDON AND BREACH
NEW YORK UNITED STATES

ON ORDER
J19350000

JOURNAL OF FAMILY ISSUES
1,MAR 1980--
SAGE PUBLICATIONS
SPONSORED BY THE NATIONAL COUNCIL ON FAMILY
RELATIONS.
BEVERLY HILLS CA UNITED STATES
SAGE PUBLICATIONS P.O. BOX 5024 BEVERLY
HILLS, CA 90210
WI J06443T
J21090000
\$30.00

NLM TECHNICAL BULLETIN - FEB 81

MEDICAL HYPNOANALYSIS
1,1980--
SOCIETY OF MEDICAL HYPNOANALYSTS

MEMPHIS TN UNITED STATES
SOCIETY OF MEDICAL HYPNOANALYSTS, 920 EAST
DRIVE, MEMPHIS, TN 38117
ON ORDER
M14410000

NURSING LAW AND ETHICS
1,1980--
AMERICAN SOCIETY OF LAW AND MEDICINE

BOSTON UNITED STATES
AMERICAN SOCIETY OF LAW AND MEDICINE, 454
BROOKLINE AVENUE, BOSTON, MA 02215
W1 NUS36
N34964000

OXFORD REVIEWS OF REPRODUCTIVE BIOLOGY
1,1979--
CLARENDON PRESS

OXFORD ENGLAND
1600 POLLITT DRIVE, FAIR LAWN, NJ
W1 OX621T
O14030000

PHARMAKOTHERAPIE
1,1978--
DUSTRI-VERLAG

MUNCHEN-DEISENHOFEN GERMANY, WEST

W1 FH306T
P11965000
\$24.00

REGULATORY PEPTIDES
1,AUG 1980--
ELSEVIER/NORTH HOLLAND

AMSTERDAM NETHERLANDS

W1 RE173JG
R10775000
\$80.50

SPECIAL TOPICS IN ENDOCRINOLOGY AND
METABOLISM
1,1979--
LISS

NEW YORK UNITED STATES

W1 SP302
S35230000

TROPICAL DISEASES RESEARCH SERIES
N1,1979--
SCHWABE
PUBLISHED ON BEHALF OF THE UNDP/WORLD
BANK/WHO SPECIAL PROGRAMME FOR RESEARCH AND
TRAINING IN TROPICAL DISEASES. CONSISTS OF
PROCEEDINGS OF MEETINGS HELD IN VARIOUS
PLACES.
BASEL SWITZERLAND

W3 TR856
T21110000

FREQUENCY OF UPDATES

AVLINE - weekly

BIOETHICS - quarterly

CANCERLIT - monthly

CANCERPROJ - quarterly

CATLINE - weekly

CHEMLINE - bimonthly

CLINPROT - quarterly

EPILEPSY - quarterly

HEALTH - monthly

HISTLINE - quarterly

MEDLINE - monthly

 MED66 - closed

 MED69 - closed

 MED72 - closed

 MED75 - closed

 MED77 - Annually, the oldest year is taken from MEDLINE and moved to the latest Backfile. When a Backfile contains 2-3 years (depending on file size), it is closed and another is created.

MESH VOC - only changed once a year (MeSH); twice a week (chemical records)

NAME AUTH - monthly

POPLINE - monthly

RTECS - quarterly

SDILINE - monthly (contains the latest month added to MEDLINE; changed every month)

SERLINE - monthly

TDB - quarterly

TOXLINE - monthly

 TOXBACK65 - data retired to TOXBACK65 from TOXLINE as necessary

 TOXBACK74 - data retired to TOXBACK74 from TOXLINE as necessary

Appendix B

DATE OF ENTRY (DA) RANGES FOR YEARLY SEGMENTS OF MEDLINE AND ALL BACKFILES

MED66	1966 - 651113 through 661101 1967 - 661123 through 671129 1968 - 671212 through 681111
MED69	1969 - 681117 through 691119 1970 - 691126 through 701112 1971 - 701117 through 711117
MED72	1972 - 711130 through 721030 1973 - 721108 through 731116 1974 - 731130 through 741119
MED75	1975 - 741205 through 751108 1976 - 751120 through 761103
MED77	1977 - 761104 through 771031 1978 - 771101 through 781027
MEDLINE	1979 - 781118 through 791026 1980 - 791027 through 801027 1981 - 801028 through 81_____



THE NLM TECHNICAL BULLETIN

MARCH 1981

NO. 143

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PHONES LIST	APPENDIX B

DATABASE	TOTAL RECORDS	DATES COVERED	DATE LAST UPDATED	LATEST UPDATE TAG
*AVLINE	9,610	THROUGH 1981	13 MAR 81	
*BIOETHICS	11,239	JAN 73-DEC 80	06 MAR 81	8103(EM)
*CANCERLIT	247,440	JAN 63-FEB 81	16 MAR 81	8102(EM)
*CANCERPROJ	20,083	1976-1980	03 FEB 81	8101(EM)
*CATLINE	207,526	THROUGH 1981	13 MAR 81	
CHEMLINE	488,270		19 JAN 81	
*CLINPROT	2,116		25 NOV 80	8011(EM)
*EPILEPSY	36,472	1945-PRESENT	20 OCT 80	
*HEALTH	169,437	JAN 75-APR 81	16 MAR 81	8104(EM)
*HISTLINE	43,660		11 FEB 81	8102(EM)
MEDLINE	448,042	JAN 79-APR 81	09 MAR 81	8104(EM)
#+MED77	511,005	JAN 77-DEC 78	15 DEC 80	
+MED75	643,953	JAN 75-DEC 76	15 DEC 80	
+MED72	669,106	JAN 72-DEC 74	15 DEC 80	
+MED69	668,257	JAN 69-DEC 71	15 DEC 80	
+MED66	501,801	JAN 66-DEC 68	15 DEC 80	
MESH VOC	38,752	1981	16 MAR 81	
*NAME AUTH	115,038		16 MAR 81	
*POPLINE	74,912	1970-MAR 81	16 MAR 81	8103(EM)
RTECS	44,362	1979 ED.-DEC 80	12 DEC 80	
SDILINE	22,843	MAR 81	09 FEB 81	
*SERLINE	37,136	1981	19 FEB 81	
TDB	2,547		11 SEP 80	
TOXLINE	452,658		02 MAR 81	8102(EM)
CBAC	227,021	1977-VOL 33(1,2)		
TOXBIB	75,171	1977-MAR 81		
IPA	19,869	1977-VOL 17(17,18,19,20,21,22)		
HEEP	52,699	1977-VOL 10(3)		
PESTAB	10,842	1977-VOL 14(2)		
EMIC	29,887	1960-DEC 80		
ETIC	19,999	1950-DEC 80		
RPROJ	24,332	1978-APR 81		
TD3	2,838	JAN/FEB 81		
+TOXBACK74	275,506		10 SEP 80	
CBAC	147,332	1974-1976		
TOXBIB	65,433	1974-1976		
IPA	17,582	1974-1976		
HEEP	37,198	1974-1976		
PESTAB	7,961	1974-1976		
+TOXBACK65	387,377		10 SEP 80	
CBAC	196,015	1965-1973		
TOXBIB	112,170	1968-1973		
IPA	21,973	1970-1973		
HEEP	29,662	1971-1973		
HAPAB	12,966	1966-1973		
HAYES	10,039	1940-1966		
TMIC	4,552	1971-1975		

- 1) * = NLM ONLY 2) * = AVAILABLE ONLY THRU OFFSEARCH
 3) # = ALSO AVAILABLE ONLINE AT NLM ONLY

Editor: Carolyn B. Tilley	Direct inquiries to:
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Technical Notes Editor: Patti Patterson	National Library of Medicine
301/496-6193	8600 Rockville Pike
	Bethesda, Maryland 20209

TECHNICAL NOTES

PLEASE QUERY THE ONLINE NEWS FILES DAILY FOR SPECIAL NOTICES AND MESSAGES

Whenever applicable, the headings of each Technical Note will include a reference to the section of the NLM Online Services Reference Manual which is considered most relevant to the item being discussed (e.g., Manual 2.9). Users should keep in mind that the item may pertain to other sections of the Manual.

- MESH VOCABULARY IN BIOETHICS FILE - The MeSH terms in the BIOETHICS file have been updated to reflect changes that have occurred in the vocabulary since 1978.
- SEARCHING WITH FREE-FLOATING SUBHEADINGS (Manual 4.9.25, 7.3.26.1) - When searching with free-floating (bald) subheadings at NLM or SUNY, you may now enter the spelled-out version or the two-letter abbreviation. When using the spelled-out version, the qualifier (SH) must be used.
- CHEMICAL NAME MAPPING - Chemical name mapping (mapping from Synonyms (SY) in MeSH to Name of Substance (NM) in MEDLINE) is now available at NLM and SUNY for MEDLINE. Searching of Synonyms or Names of Substances in MEDLINE must both be done with the element qualifier (NM).
- TD3 SUBFILE FOR TOXLINE - The new TOXLINE subfile, TD3, was made available in TOXLINE at NLM and SUNY on March 2, 1981. The update tags for TD3 are 8012 with 554 citations and 8101 with 2,284 citations. Please see the January 1981 issue of the NLM Technical Bulletin for an article discussing this NTIS subfile.
- LARGE OUTPUT OF OFFLINE PRINTS AND OFFSEARCH PAGES - The number of pages being generated from OFFLINE prints and OFFSEARCHES on the MEDLARS system at NLM has been on a steady increase. In order to accommodate this large demand we are requesting users to call MMS if a tremendous output (in excess of 5,000 pages) for one day's retrieval is expected. This will insure that all searches can be processed during the allotted time schedule.
- NEW NTIS PUBLICATIONS - Two new publications may now be ordered from NTIS:

 - Technical Notes: MEDLARS Indexing Instructions, Tumor Key Supplement, November 1980
PB81-134553, Price: \$6.50
 - MEDLARS Indexing Manual (Part II), December 1980
PB81-136491 (supercedes PB-271-306), Price: \$15.00

GRANT NUMBERS - Beginning with the April update, the ID Number (ID) field
(Manual - Parts 7 and 23) in MEDLINE, SDILINE, AND HEALTH will be directly searchable.
Data entered in this field from January through March 1981 will be made searchable with 1981 year-end processing.

Use the NEIGHBOR command followed by the institute/contract number, truncated, to check to see if the number has been entered and for the format.

NBR CA-157:

See also Technical Note on page 3 of the December 1980 NLM Technical Bulletin.

Health not really searchable until 8/06 and will not be mentioned Jan- since will not rebuild

RTECS ONLINE MESSAGE - The message received by users when connecting to the RTECS file is being expanded to include a statement that the file contains toxicity data that have not been critically evaluated. The National Institute of Occupational Safety and Health (NIOSH), supplier of the RTECS file, requested such a disclaimer in order to emphasize the unevaluated aspect of the RTECS database. Users whose requirements demand accurate toxicity data are reminded to consult the cited sources for verification of data.

TB INDEX - Appendix A is a revised index to the NLM Technical Bulletin, issues January 1978 through December 1980.

TELEPHONE NUMBERS - Appendix B is a list of available telephone numbers used to access the NLM and SUNY computers.

TOXIC EFFECTS INFORMATION IN RTECS
Jeanne C. Goshorn, Specialized Information Services, NLM

The RTECS file is expected to be updated in March, at which time additional toxic effects terms will be available for searching the toxicity data index strings. These additions to TABLE III in the RTECS chapter of the NLM Online Services Reference Manual (Part 14.4.11) allow searching for some of the whole animal toxic effects information that the National Institute of Occupational Safety and Health (NIOSH), supplier of the file, is now including in RTECS. Some of the terms to be used in searching for this information are already used in the online RTECS toxicity data index strings. The following new terms should be added to TABLE III:

Autonomic Nervous System
 Behavioral Symptoms
 Biochemical
 Coma
 Convulsions
 Ear
 Endocrine System
 Immune System
 Metabolism and Nutrition
 Nasal
 Reproductive
 Taste
 Tumor
 Tumor related
 Urogenital System

We expect to have additional new terms soon to allow searching for expanded reproductive effects information. At present, users should search for teratogenic effects using both the old index string term "teratogenic" and the new term "reproductive," since some teratogenic information may be indexed with only this new general term until the new specific reproductive toxic effects terms are available for searching.

MONTHLY HINT: MULTI-MEANING MESSAGES

When a search term has more than one possible meaning to the program, the searcher receives a Multi-Meaning message. This message prompts the searcher to designate one or more of the possible terms for retrieval. There are several variations on the basic message.

- 1) When a term is used in an EXPLODE instruction and is available in more than one hierarchical tree, a message is generated:

```
exp sulfur
PROG:
MM (SULFUR) (2)
    1 D1.268.842
    2 D1.877
NUMBER, NONE, OR EXPAND-
```

Note that only one tree number may be selected, regardless of how many are offered. To assist the searcher in making a choice, the EXPAND entry is available:

```

USER:
exp sulfur
PROG:
MM (SULFUR) (2)
    1 D1.268.842
    2 D1.877
NUMBER, NONE, OR EXPAND-
    
```

```

USER:
e.pand
PROG:

Elements
    D1.268

inorganic Chemicals (Non Mesh)
    D1
MM (SULFUR) (2)
NUMBER, NONE, OR EXPAND-
    
```

The more general tree under which each term is found is displayed. If the searcher wishes to see which terms are indented under the term being exploded in each tree, the TREE command is used.

On occasions when the searcher requires more than one tree to be used for the retrieval, one of two methods may be used. Either OR the tree numbers together:

```

USER:
exp d1.268.842 or exp d1.877
    
```

or type each number as a response to the Multi-Meaning messages received after typing the EXPLODE instruction the necessary number of times:

```

SS 1 /C?
USER:
exp sulfur

PROG:
MM (SULFUR) (2)
    1 D1.268.842
    2 D1.877
NUMBER, NONE, OR EXPAND-
    
```

```

USER:
1

PROG:
SS (1) PSTG (223)
    
```

```

SS 2 /C
USER:
e-P sulfur

PROG:
MM (SULFUR) (2)
    1 D1.268.842
    2 D1.877
NUMBER, NONE, OR EXPAND-

USER:
2

PROG:
SS (2) PSTG (2480)

SS 3 /C
USER:
1 or 2

PROG:
SS (3) PSTG (2480)

```

If the searcher's response is NONE, the program will retrieve postings from the first tree number offered.

- 2) When a search term has been truncated and there are fewer than ten possible search terms generated by the truncation, all will be listed:

```

USER:
dopa:
PROG:
MM (DOPA:) (5)
    1 DOPA (MH)
    2 DOPA DECARBOXYLASE (MH)
    3 DOPA OXIDASE (MH)
    4 DOPAMINE (MH)
    5 DOPAMINE BETA-HYDROXYLASE (MH)
SPECIFY NUMBERS, ALL, OR, NONE-

USER:
all
PROG:
SS (1) PSTG (2537)

```

The searcher may type as many numbers as are needed, e.g., 3, 4, 5; or the word ALL may be typed, to retrieve from all the possible terms. If the word NONE is typed, an NP message for the term will result.

If there are more than ten generated terms, only ALL or NONE are acceptable choices:

```
USER:
nurs:
PROG:
MM (NURS:) (33)
ALL OR NONE"
```

A NONE response causes the program to move immediately to the next SS cue.

- 3) A single term entered without a qualifier that could be retrieved from more than one data element will also generate a list:

```
USER:
pauling l
PROG:
MM (PAULING L) (2)
      1 PAULING L (AU)
      2 PAULING L (PS)
SPECIFY NUMBERS, ALL, OR, NONE-
```

If the word NONE is typed, an NP message will result.

SPECIAL INITIAL CLASS AT MLA

The National Library of Medicine is pleased to announce that it is offering a special three-day Initial Online Services Training Course for backup searchers in conjunction with the annual Medical Library Association (MLA) meeting being held in Montreal, Canada. This course will include the lectures, discussions, and demonstrations included in the standard Initial Training curriculum, plus an overview of some additional databases not usually included in the course. There will be no hands-on terminal exercises. The class will be held May 27-29, 1981, (Wednesday-Friday), prior to the conference, in the Joliet Room of the Queen Elizabeth Hotel, Montreal, Canada. Application forms may be obtained by calling or writing the MEDLARS Management Section. NLM (not MLA) will do the scheduling for this course. Registration is limited to 50 individuals, one per institution. All applications will be processed in order of receipt. This course has been approved by MLA for 21 contact hours towards recertification requirements.

NEW SERIALS ANNOUNCEMENT - FEBRUARY 1981
 Serial Records, Technical Services Division, NLM

The following substantive serial titles were received or ordered by the Serial Records Section. IM to the left of the title indicates that the title appears in Index Medicus. ON ORDER, IN PROCESS, or an actual NLM call number appears at the bottom of the entry. Please include the NLM call number on interlibrary loan requests. Of course, NLM cannot fill loans for titles not yet received by the Library. The list is offered as an early announcement and will include price information if known. Information provided is not authorized NLM cataloging data. For further information, contact Ms. Janice Lennox, 301/496-1276, Technical Services Division, NLM.

AFP FAMILY PRACTICE ANNUAL
 1979--
 AMERICAN FAMILY PHYSICIAN
 ISSUED BY THE AMERICAN ACADEMY OF FAMILY
 PHYSICIANS.
 KANSAS CITY MO UNITED STATES
 AMERICAN ACADEMY OF FAMILY PHYSICIANS, 1740
 WEST 92ND STREET, KANSAS CITY, MO 64114
 W1 A1153
 A16670000

AMERICAN JOURNAL OF INFECTION CONTROL
 8, FEB 1980--
 MOSEY
 CONTINUES APIC JOURNAL.
 ST LOUIS UNITED STATES
 W1 AM468N
 A24304000

BAYLOR NURSING EDUCATOR
 1, 1979--
 SCHOOL OF NURSING, BAYLOR UNIVERSITY
 DALLAS TX UNITED STATES
 3616 WORTH ST, DALLAS, TX 75246
 W1 BA964
 B01730000

BIOCHEMISTRY ABSTRACTS. PART 3:
 AMINO-ACIDS, PEPTIDES AND PROTEINS
 9N1, 1980--
 INFORMATION RETRIEVAL LTD
 CONTINUES AMINO-ACID, PEPTIDE AND PROTEIN
 ABSTRACTS.
 LONDON ENGLAND
 ZQU 55 A518
 B15210000

CLINICAL CONFERENCE ON CONGENITAL HEART
 DISEASE
 1ST, 1979--
 GRUNE AND STATTON
 NEW YORK UNITED STATES
 GRUNE AND STRATTON, 111 FIFTH AVENUE, NEW
 YORK, N.Y. 10003
 W3 C162HF
 C25030000

CLINICAL AND SCIENTIFIC SESSIONS
 1979--
 AMERICAN NURSES ASSOCIATION
 ISSUED BY THE DIVISIONS ON PRACTICE.
 CONSISTS OF SELECTED PAPERS FROM THE
 CLINICAL AND SCIENTIFIC SESSIONS OF THE
 AMERICAN NURSES ASSOCIATION.
 KANSAS CITY MO UNITED STATES
 AMERICAN NURSES ASSOCIATION, DIVISIONS ON
 PRACTICE, 2420 PERSHING ROAD, KANSAS CITY,
 MO 64108
 W1 CL664R
 C26955000

CONTROVERSIES IN NEPHROLOGY
 1, 1979--
 GEORGETOWN UNIVERSITY NEPHROLOGY DIVISION
 CONSISTS OF PROCEEDINGS OF THE 1ST-
 CONFERENCE. SPONSORED 1979- BY THE
 AMERICAN KIDNEY FUND IN COOPERATION WITH
 GEORGETOWN UNIVERSITY MEDICAL CENTER.
 WASHINGTON UNITED STATES
 W3 C0978VP
 C48136000

CURRENT GENETICS
 1, DEC 1979--
 SPRINGER INTERNATIONAL
 NEW YORK UNITED STATES
 W1 CU788JB
 C55690000

DENTAL - EXTRA
 1, 1978--
 INKOM VERLAGSGESELLSCHAFT
 WIESBADEN GERMANY, WEST
 NO PROSPECT 800225
 D04050000
 \$31.00

DEVELOPMENTS IN GENETICS
 1, 1979--
 ELSEVIER/NORTH-HOLLAND BIOMEDICAL PRESS
 AMSTERDAM NETHERLANDS
 W1 DE997VCY
 D08312000

DEVELOPMENTS IN NUTRITION AND METABOLISM
1, 1979--
ELSEVIER/NORTH-HOLLAND BIOMEDICAL PRESS
AMSTERDAM NETHERLANDS
W1 DE998L
D08385000

DEVELOPMENTS IN ONCOLOGY
1, 1980--
NIJHOFF
THE HAGUE NETHERLANDS
W1 DE998N
D08385900

FAMILY RELATIONS
29, 1980--
NATIONAL COUNCIL ON FAMILY RELATIONS
CONTINUES THE FAMILY COORDINATOR.
MINNEAPOLIS UNITED STATES
NATIONAL COUNCIL ON FAMILY RELATIONS, 1219
UNIVERSITY AVE., S.E., MINNEAPOLIS,
MINNESOTA 55414
W1 FA454H
F01150000

HEALTH LAW VIGIL
1, JUN 23, 1978--
AMERICAN HOSPITAL ASSOCIATION
PREPARED BY THE LAW DIVISIONS OF THE
AMERICAN HOSPITAL ASSOCIATION.
CHICAGO UNITED STATES
840 LAKE SHORE DRIVE, CHICAGO, IL 60611
W1 HE403H
H06175000

IM IARC MONOGRAPHS ON THE EVALUATION OF THE
CARCINOGENIC RISK OF CHEMICALS TO HUMANS.
SUPPLEMENT
1, SEPT 1979--
INTERNATIONAL AGENCY FOR RESEARCH ON CANCER
SPINE TITLE: IARC MONOGRAPHS. SUPPLEMENT.
SUPPLEMENT 1 INCLUDES INDEX FOR VOLS. 1-16,
1972-78, OF IARC MONOGRAPHS ON THE
EVALUATION OF CARCINOGENIC RISK OF
CHEMICALS TO MAN, AND INDEX FOR VOLS.
17-20, 1978-79, OF IARC MONOGRAPHS ON THE
EVALUATION OF CARCINOGENIC RISK OF
CHEMICALS TO HUMANS.
LYON FRANCE
W1 I21FH
I00530020

IM IARC PUBLICATIONS
N28, 1979-N29, 1979
INTERNATIONAL AGENCY FOR RESEARCH ON CANCER
CONTINUES IARC SCIENTIFIC PUBLICATIONS.
CONTINUED BY IARC SCIENTIFIC PUBLICATIONS.
LYON FRANCE
W1 I21J
I00550000

IM IMMUNOBIOLOGY
156, AUG 1979--
FISCHER
CONTINUES ZEITSCHRIFT FUR
IMMUNITATSFORSCHUNG. IMMUNOBIOLOGY.
CALLED ALSO ZEITSCHRIFT FUR
IMMUNITATSFORSCHUNG.
STUTTGART GERMANY, WEST
W1 IM483
I06010000

JOURNAL OF CLINICAL CHIROPRACTIC
3, 1979--
JCC PUB. CO
CONTINUES JCC. JOURNAL OF CLINICAL
CHIROPRACTIC. CALLED ALSO: JCC.
NEW HYDE PARK NY UNITED STATES
W1 J0587C
J16590080

JOURNAL OF PSYCHIATRIC TREATMENT AND
EVALUATION
1, WINTER 1979--
PERGAMON PRESS
ELMSFORD NY UNITED STATES
W1 OE419TC
J36150000

NEPHROLOGY REVIEWS
1980--
WILEY
NEW YORK UNITED STATES
ZWJ 300 N439
N11735000

NUTRITION AND HEALTH
1, 1979--
COLUMBIA UNIVERSITY
PREPARED BY MEMBERS OF THE FACULTY AND
STAFF OF THE INSTITUTE OF HUMAN NUTRITION,
COLUMBIA UNIVERSITY, COLLEGE OF PHYSICIANS
AND SURGEONS.
NEW YORK UNITED STATES
W1 NU863J
N35770000
\$9.00

IM PSYCHOTHERAPIE, PSYCHOSOMATIK, MEDIZINISCHE
PSYCHOLOGIE
30, 1980--
THIEME
CONTINUES PSYCHOTHERAPIE, MEDIZINISCHE
PSYCHOLOGIE. ORGAN OF THE ALLGEMEINE
AERZTLICHE GESELLSCHAFT FUR PSYCHOTHERAPIE,
THE OESTERREICHISCHE AERZTEGESELLSCHAFT FUR
PSYCHOTHERAPIE, THE INTERNATIONALE
GESELLSCHAFT FUR KATATHYMES BILDERLEBEN UND
IMAGINATIVE VERFAHREN IN PSYCHOTHERAPIE UND
PSYCHOLOGIE, AND OTHER SIMILAR
ORGANIZATIONS.
STUTTGART GERMANY, WEST
W1 PS83E
P55950000

RADIOLOGIC TECHNOLOGY EXAMINATION REVIEW
1, 1979--
MEDICAL EXAMINATION PUBLISHING COMPANY
CONTINUES XRAY TECHNOLOGY EXAMINATION
REVIEW BOOK. TREATED AS A MONOGRAPH.
GARDEN CITY NY UNITED STATES
969 STEWART AVENUE, GARDEN CITY, NEW YORK
11530
CLASSED SEP
R01542000

RESOURCE SHARING AND LIBRARY NETWORKS
1980--
HAWORTH PRESS
NEW YORK UNITED STATES
THE HAWORTH PRESS, INC. 149 FIFTH AVENUE,
NEW YORK, N.Y. 10010
ON ORDER
R26190000

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N1,1978--
RESOURCES IN HUMAN NURTURING, INTERNATIONAL
RUNNING TITLE: RHNI MONOGRAPH.
DENVER UNITED STATES
RESOURCES IN HUMAN NURTURING, INTERNATIONAL,
(RHNI); 3885 FOREST STREET, P.O. BOX 6861,
DENVER, CO 80206
W1 RE248BM
R26335000

IM REVISTA ARGENTINA DE MICROBIOLOGIA
11,1979--
ASOCIACION ARGENTINA DE MICROBIOLOGIA
CONTINUES REVISTA DE LA ASOCIACION
ARGENTINA DE MICROBIOLOGIA.
BUENOS AIRES ARGENTINA
W1 RE271P
R29730000

SCHRIFTENREIHE DER DEUTSCHEN GESELLSCHAFT
FUR MEDIZINISCHE DOKUMENTATION, INFORMATIK
UND STATISTIK E. V
1,1978--
SCHATTAUER
STUTTGART GERMANY, WEST
W1 SC329F
S09730000

SPECIAL PUBLICATION - SOCIETY FOR MEDICAL
ANTHROPOLOGY
N1,1979--
SOCIETY FOR MEDICAL ANTHROPOLOGY
WASHINGTON UNITED STATES
SOCIETY FOR MEDICAL ANTHROPOLOGY, 1703 NEW
HAMPSHIRE AVENUE, N.W., WASHINGTON, D.C.
20009
W1 SP295EC
S34735500

SPHINGOLIPIDOSES AND ALLIED DISORDERS
1,1979--
EDEN PRESS
MONTREAL CANADA
EDEN MEDICAL RESEARCH INC., PO BOX 51, ST.
ALBANS, VERMONT 05478
W1 SP465K
S35750000

STATISTICAL INFORMATION RELEVANT TO THE
HEALTH SERVICES
1978--
DUBLIN. STATIONERY OFFICE
DUBLIN IRELAND
GOVERNMENT PUBLICATIONS SALE OFFICE, G.P.O.
ARCADE, DUBLIN 1, IRELAND
ON ORDER
S38770000

STRESS
1N1, SPRING 1980--
HANS SELYE FOUNDATION
MONTREAL CANADA
HANS SELYE FOUNDATION, 659 MILTON STREET,
MONTREAL, CANADA H2X1W6.
W1 ST799J
S43030000

ZOOPHYSIOLOGY
11,1979--
SPRINGER-VERLAG
CONTINUES ZOOPHYSIOLOGY AND ECOLOGY.
BERLIN GERMANY, WEST
W1 Z0615M
Z09270000

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PHONES LIST

UNLESS OTHERWISE NOTED, THE SPEED OF THE NUMBERS IS 10-30 CHARACTERS PER SECOND (CPS).

* = DIRECT DIAL NUMBER

FOR 120 CPS USE COMPATIBLE MODEMS INCLUDE:

V3405 = VADIC 3405 MODEM COMPATIBLE. THE FOLLOWING VADIC MODEMS ARE V3405 COMPATIBLE: VA3455P, VA3451P, VA3434. THE FOLLOWING ANDERSON JACOBSON MODEMS ARE V3405 COMPATIBLE: AJ1234 AND AJ1255.

B/V = TELENET VADIC SUPER MODEM (V3467) NODE. USERS WITH EITHER B212A OR V3405-COMPATIBLE MODEMS MAY USE THESE NUMBERS.

B202 = INDICATES NODE IS BELL 202C OR 202S DATA SET COMPATIBLE.

B212A = BELL 212A DATA SET COMPATIBLE.

FOR IBM 2741 TERMINAL ACCESS:

B = INDICATES THAT BOTH CORRESPONDENCE AND EBCDIC CODED TERMINALS ARE SUPPORTED BY TYMNET. THE USER MUST TYPE A P FOLLOWED BY A CARRIAGE RETURN SO THAT TYMNET CAN DETERMINE THE "CODE" TO BE USED. USE CORRECT TERMINAL IDENTIFIER FOR TELENET ACCESS VIA 2741'S. THE NETWORKS DO NOT SUPPORT BCD CODED 2741'S.

ALL PHONE NUMBERS ARE SUBJECT TO CHANGE OR DELETION WITHOUT PRIOR NOTICE.

ST	CITY	TYMNET	TYPE	SPEED	TELENET	TYPE	SPEED
AK	ANCHORAGE	CONTACT ALASKA TELEPHONE COMPANY FOR ACCESS					
AK	JUNEAU	CONTACT ALASKA TELEPHONE COMPANY FOR ACCESS					
AL	BESSEMER				205/251-2495		
AL	BESSEMER				205/326-3420	B/V	120
AL	BIRMINGHAM	205/942-4141	B		205/251-2495		
AL	BIRMINGHAM	205/942-1015	B212A	120	205/326-3420	B/V	120
AL	FLORENCE				205/767-4800		
AL	HUNTSVILLE	205/533-5137	FX B		205/539-2280		
AL	HUNTSVILLE				205/539-2280	B/V	120
AL	MOBILE				205/432-8015		
AL	MOBILE	205/432-3382	B212A	120	205/432-1680	B/V	120
AL	MONTGOMERY	205/834-3410	FX B				
AL	SHEFFIELD				205/767-4800		
AR	FT. SMITH	501/782-3210	B212A	120			
AR	JONESBORO	501/932-6886	B212A	120			
AR	LITTLE ROCK	501/372-5780	FX B		501/374-4100		
AR	LITTLE ROCK	501/376-3768	B212A	120	501/372-4616	B/V	120
AR	SPRINGDALE	501/756-2201	B212A	120			
AZ	MESA				602/257-1552		
AZ	MESA				602/271-0533	B/V	120
AZ	PHOENIX	602/249-9261	B		602/257-1552		
AZ	PHOENIX	602/249-3862	B212A	120	602/271-0533	B/V	120
AZ	SCOTTSDALE				602/257-1552		
AZ	SCOTTSDALE				602/271-0533	B/V	120
AZ	TEMPE				602/257-1552		
AZ	TEMPE				602/271-0533	B/V	120
AZ	TUCSON	602/790-0764	B		602/790-0427		
AZ	TUCSON	602/747-4097	B212A	120	602/745-1666	B/V	120
CA	ALHAMBRA	213/572-0999	FX B		213/956-8235		
CA	ALHAMBRA				213/246-0318	B/V	120
CA	ANAHEIM				714/558-6061		
CA	ANAHEIM				714/558-7078	B/V	120
CA	ANTIOCH	415/757-6855	FX B				
CA	ARCADIA	213/574-7636	FX B				
CA	BURLINGAME	415/348-4992	FX B		415/595-0360		
CA	BURLINGAME				415/591-0726	B/V	120
CA	CANOGA PARK				213/822-9287		
CA	CANOGA PARK				210/306-2984	B/V	120
CA	COLTON	714/825-9372	B		714/824-1710		
CA	COLTON	714/824-8170	B212A	120	714/824-3805	B/V	120
CA	CUPERTINO	408/446-7309	B212A	120			

CA CUPERTINO	408/446-7001	V3405	120	
CA CUPERTINO	408/446-1470	B		408/279-8450
CA CUPERTINO				408/279-2425 B/V 120
CA CUPERTINO	408/257-0593	CCITT RESTRICTED FOR OVERSEAS USE ONLY		
CA EL CONDIDO				714/747-0810
CA EL MONTE				213/956-8235
CA EL MONTE				213/246-0318 B/V 120
CA EL SEGUNDO	213/640-1570	B		213/332-7703
CA EL SEGUNDO	213/640-1281	B212A	120	
CA FRESNO	209/445-0911	FX B		
CA FULLERTON				714/558-6061
CA FULLERTON				714/558-7078 B/V 120
CA GARDEN GROVE				714/891-5711
CA GARDEN GROVE				714/898-9820 B/V 120
CA GLENDALE				213/956-8235
CA GLENDALE				213/507-1006 B/V 120
CA HAYWARD	415/785-3431	B		415/881-1382
CA HOLLYWOOD				213/624-5230
CA HOLLYWOOD				213/937-3580
CA HOLLYWOOD				213/689-9040
CA HOLLYWOOD				213/624-0901 B212A 120
CA HOLLYWOOD				213/624-1521 V3405 120
CA HUNTINGTON BEACH				714/558-6061
CA HUNTINGTON BEACH				714/558-7078 B/V 120
CA INGLEWOOD				213/624-5230
CA INGLEWOOD				213/937-3580
CA INGLEWOOD				213/624-0901 B212A 120
CA INGLEWOOD				213/624-1521 V3405 120
CA LONG BEACH				213/549-5150
CA LONG BEACH	213-435-7088	FX B212A	120	213/548-6141 B/V 120
CA LOS ALTOS				415/856-9930
CA LOS ALTOS				415/856-9995 B/V 120
CA LOS ANGELES	213/683-0451	B		213/624-5230
CA LOS ANGELES	213/629-3451	B		213/689-9040
CA LOS ANGELES	213/629-1561	B		213/937-3580
CA LOS ANGELES	213/623-8500	V3405	120	213/624-1521 V3405 120
CA LOS ANGELES	213/626-0365	B212A	120	213/624-0901 B212A 120
CA MARINA DEL REY	213/821-2257	FX B		213/822-9287
CA MARINA DEL REY				213/306-2984 B/V 120
CA MISSION HILLS	213/365-2013	FX B		
CA MODESTO	209/578-4236	FX B		
CA MOUNTAIN VIEW	415/961-7971	B		415/856-9930
CA MOUNTAIN VIEW	415/941-8450	B		
CA MOUNTAIN VIEW	415/949-0330	B212A	120	415/856-9995 B/V 120
CA NEWPORT BEACH	714/540-9560	B		714/558-6061
CA NEWPORT BEACH	714/540-0951	B212A	120	714/558-7078 B/V 120
CA NORTHRIDGE	213/998-4872	FX B212A	120	
CA NORWALK	213/865-2066	FX B212A	120	
CA OAKLAND	415/836-8700	B		415/836-4884
CA OAKLAND	415/836-8900	B212A	120	415/836-4911 B/V 120
CA OXNARD	805/487-0482	B		805/659-4660
CA OXNARD	805/486-4536	B212A	120	805/647-6760 B/V 120
CA PALM SPRINGS				714/320-7491
CA PALO ALTO	415/856-9080	B		415/856-9930
CA PALO ALTO				415/856-9995 B/V 120
CA PASADENA	213/577-8722	FX B212A	120	213/956-8235
CA PASADENA				213/246-0318 B/V 120
CA REDWOOD CITY				415/595-0360
CA REDWOOD CITY				415/591-0726 B/V 120
CA RIVERSIDE				714/824-1710
CA RIVERSIDE	714/824-8170	B212A	120	714/824-3805 B/V 120
CA SACRAMENTO	916/441-6550	B		916/443-7921
CA SACRAMENTO	916/448-8151	B212A	120	916/448-6262 B/V 120
CA SALINAS	408/443-4333	FX B		408/443-4930
CA SALINAS				408/443-4940 B/V 120
CA SAN BERNADINO				714/824-1710
CA SAN BERNADINO				714/824-3805 B/V 120
CA SAN CARLOS				415/595-0360
CA SAN CARLOS				415/591-0726 B/V 120
CA SAN CLEMENTE	714/498-3130	FX B		
CA SAN DIEGO	714/293-3590	B212A	120	714/233-0233 B/V 120
CA SAN DIEGO	714/291-8700	B		714/231-1922
CA SAN FRANCISCO	415/986-8200	B		415/362-6200
CA SAN FRANCISCO	415/397-4300	V3405	120	415/956-5777 B/V 120
CA SAN FRANCISCO	415/788-7955	B212A	120	
CA SAN JOSE	408/446-1470	B		408/279-8450
CA SAN JOSE	408/446-7001	V3405	120	
CA SAN JOSE	408/446-7309	B212A	120	408/279-2425 B/V 120
CA SAN MATEO				415/595-0360
CA SAN MATEO				415/591-0726 B/V 120

CA SAN PEDRO	213/830-0775	FX B		213/549-5150	
CA SAN PEDRO				213/548-6141	B/V 120
CA SANTA ANA				714/558-6061	
CA SANTA ANA				714/558-7078	B/V 120
CA SANTA BARBARA	805/687-6119	FX B		805/682-5361	
CA SANTA BARBARA				805/682-5361	B/V 120
CA SANTA CLARA				408/279-8450	
CA SANTA CLARA				408/279-2425	B/V 120
CA SANTA CRUZ	408/429-9572		B212A 120		
CA SANTA MONICA				213/822-9287	
CA SANTA MONICA				213/306-2984	B/V 120
CA SANTA ROSA	707/546-1050		B		
CA SANTA ROSA	707/546-6776		B212A 120		
CA SUNNYVALE				408/279-8450	
CA SUNNYVALE				408/279-2425	B/V 120
CA TORRANCE				213/549-5150	
CA VAN NUYS	213/986-9503	FX B			
CA VENTURA	805/487-0482		B	805/659-4660	
CA VENTURA	805/486-4536		B212A 120	805/647-6760	B/V 120
CA VISTA	714/727-6011	FX B			
CA WEST COVINA	213/331-3954		B		
CA WOODLAND HILLS				213/992-0144	
CA WOODSIDE				415/856-9930	
CA WOODSIDE				415/856-9995	B/V 120
CO AURORA				303/773-8500	
CO AURORA				303/741-4000	B/V 120
CO BOULDER				303/773-8500	
CO BOULDER				303/741-4000	B/V 120
CO COLO. SPRINGS	303/475-2121	FX B			
CO COLO. SPRINGS	303/633-9599		B212A 120		
CO DENVER	303/573-9981		B	303/773-8500	
CO DENVER	303/573-0177		B		
CO DENVER	303/572-1107		V3405 120		
CO DENVER	303/825-0635		B212A 120	303/741-4000	B/V 120
CO LAKEWOOD				303/773-8500	
CO LAKEWOOD				303/741-4000	B212A 120
CT BRIDGEPORT	203/579-7820	FX B			
CT DANBURY	203/743-1340	FX B		203/794-9075	
CT DANBURY	203/743-1650		B212A 120	203/794-9075	B/V 120
CT DARIEN	203/655-8931		B		
CT DARIEN	203/655-7951		B212A 120		
CT FAIRFIELD/BROGPT	203/333-4926		B212A 120		
CT GREENWICH				203/357-1800	
CT GREENWICH				203/348-0787	B/V 120
CT HARTFORD	203/568-2610		B	203/522-0344	
CT HARTFORD	203/569-3643		B212A 120	203/247-9479	B/V 120
CT MILFORD				203/789-0211	
CT MILFORD				203/624-5954	B/V 120
CT NEW HAVEN	203/789-0579		B	203/789-0211	
CT NEW HAVEN	203/787-1702		B212A 120	203/624-5954	B/V 120
CT STAMFORD				203/357-1800	
CT STAMFORD				203/348-0787	B/V 120
CT WATERBURY	203/755-1153	FX B			
CT WEST HARTFORD				203/522-0344	
CT WEST HARTFORD				203/247-9479	B/V 120
DC WASHINGTON	202/442-3900		B		
DC WASHINGTON	703/841-0200		B	202/347-1400	
DC WASHINGTON	703/841-9560		B	202/783-2050	
DC WASHINGTON	703/841-9330		V3405 120	202/347-6093	V3405 120
DC WASHINGTON	703/734-8370		B212A 120	202/347-3061	B212A 120
DC WASHINGTON	703/442-3960		B/V 120	202/347-6757	B/V 120
DC WASHINGTON*	301/492-3150		BELL 30/120		
(AUTOM. SPEED DETECTOR - ENTER P (CR))					
DC WASHINGTON*	301/492-3142		B202S 120		
DC WASHINGTON*	301/492-3126		V3405 120		
DC WASHINGTON*	301/492-3129		V3405 120		
DC WASHINGTON*	301/492-3140		V3405 120		
DE WILMINGTON	302/658-5261	FX B		302/737-8550	
DE WILMINGTON	302/658-8611		B212A 120	302/737-8883	B/V 120
FL CLEARWATER				813/823-3223	
FL DAYTONA BEACH	904/252-4481	FX B			
FL FT LAUDERDALE	305/467-7550	FX B		305/764-8880	
FL FT LAUDERDALE	305/467-3807		B212A 120	305/764-4505	B/V 120
FL HOLLY HILL				904/252-6637	
FL JACKSONVILLE	904/721-8100		B	904/356-0790	
FL JACKSONVILLE				904/356-2264	B/V 120
FL MIAMI	305/374-7120		B	305/371-4801	
FL MIAMI	305/358-7271		B212A 120	305/371-4822	B/V 120
FL ORLANDO	305/851-3530	(30 CPS ONLY)		305/849-9500	
FL ORLANDO	305/859-7670		B212A 120	305/422-4088	B/V 120

FL PENSACOLA	904/434-0134	FX B		
FL ST PETERSBURG	813/535-6441	B		813/823-3223
FL ST PETERSBURG	813/535-1446	B212A	120	
FL SARASOTA	813/365-3526	FX B212A	120	
FL TAMPA				813/225-1005
FL TAMPA	813/977-8032	B		813/224-9920
FL TAMPA	813/977-3891	B212A	120	813/223-1088 B/V 120
FL W PALM BEACH	305/622-2871	FX B		
GA ATLANTA	404/659-6670	B		404/577-8911
GA ATLANTA	404/659-2910	B		
GA ATLANTA	404/581-0619	B212A	120	404/523-0834 B/V 120
GA COLUMBUS				404/324-0684
GA GAINESVILLE				402/534-0535
GA MACON	912/236-1904	V3405	120	
GA SAVANNAH	912/352-7259	FX B		912/236-2605
HI HONOLULU	CONTACT HAWAII TELEPHONE COMPANY FOR ACCESS(TELENET)			
HI HONOLULU	CONTACT WESTERN UNION INT'L FOR ACCESS(TYMRIT)			
IA CEDAR RAPIDS	319/363-2482	FX B		319/363-2393
IA COUNCIL BLUFFS				402/341-7570
IA COUNCIL BLUFFS				402/341-7733 B212A 120
IA DAVENPORT	319/324-7197	V3405	120	
IA DES MOINES	515/288-6640	B		515/288-7163
IA DES MOINES				515 288-4403 B/V 120
IA IOWA CITY	319/354-7371	FX B		
IA WATERLOO	319/233-9227	B212A	120	
ID BOISE	208/343-4851	B		208/344-7823
ID BOISE	208/344-4311	B212A	120	
IL ARLINGTON HTS				312/372-4901
IL ARLINGTON HTS				312/263-3069 B212A 120
IL ARLINGTON HTS				312/726-1957 V3405 120
IL ARLINGTON HTS				312/263-3638 B/V 120
IL CHAMPAIGN				217/384-0011
IL CHAMPAIGN				217/394-6428 B/V 120
IL CHICAGO	312/346-4961	B		312/372-4901
IL CHICAGO	312/368-4700	B		
IL CHICAGO	312/368-4607	B		312/263-3638 B/V 120
IL CHICAGO	312/641-1630	B212A	120	312/263-3069 B212A 120
IL CHICAGO	312/372-0391	V3405	120	312/726-1957 V3405 120
IL CICERO				312/372-4901
IL CICERO				312/263-3069 B212A 120
IL CICERO				312/726-1957 V3405 120
IL CICERO				312/263-3638 B/V 120
IL E. ST. LOUIS				314/231-8800
IL E. ST. LOUIS				314/241-8150 B/V 120
IL FREEPORT	815/233-5585	B		
IL JOLIET	815/723-9854	B212A	120	
IL OAK PARK				312/372-4901
IL OAK PARK				312/263-3069 B212A 120
IL OAK PARK				312/726-1957 V3405 120
IL OAK PARK				312/263-3638 B/V 120
IL PEORIA	309/673-2156	FX B		309/637-8601
IL PEORIA				309/637-8570 B/V 120
IL ROCKFORD	815/398-6090	B		
IL SKOKIE				312/372-4901
IL SKOKIE				312/263-3069 B212A 120
IL SKOKIE				312/726-1957 V3405 120
IL SKOKIE				312/263-3638 B/V 120
IL SPRINGFIELD	217/753-7905	B		217/753-1362
IL SPRINGFIELD	217/753-7900	B212A	120	217/753-1373 B/V 120
IL URBANA				217/384-0011
IL URBANA				217/384-6428 B/V 120
IN EVANSVILLE	812/423-6885	FX B		
IN FT WAYNE	219/424-5162	FX B		
IN GARY				219/882-6300
IN GARY				219/882-8800 B/V 120
IN HIGHLAND	219/836-5452	FX B		
IN INDIANAPOLIS	317/926-1253	B212A	120	317/634-5708 B/V 120
IN INDIANAPOLIS	317/257-3461	B		317/635-9630
IN KOKOMO				317/456-3851
IN MARION	317/662-0091	FX B		
IN MERRILLVILLE	219/769-7254	FX B		
IN MISHAWKA				219/234-9071
IN MISHAWKA				219/233-7104 B/V 120
IN OSCEOLA				219/234-9071
IN OSCEOLA				219/233-7104 B/V 120
IN SOUTH BEND	219/233-4163	B		219/234-9071
IN SOUTH BEND				219/233-7104 B/V 120
KS KANSAS CITY	913/677-2833	B		816/474-1600
KS KANSAS CITY	913/677-0707	B212A	120	816/421-0375 B/V 120
KS SHAWNEE MISSION	913/677-2833	B		

KS SHAWNEE MISSION	913/677-0707	B212A	120			
KS TOPEKA	913/233-0690	FX B		913/232-6816		
KS WICHITA	316/265-1241	B				
KS WICHITA	316/264-7386	B212A	120			
KY FRANKFORT				502/223-1841		
KY LEXINGTON	606/253-3463	B		606/233-0312		
KY LEXINGTON	606/253-3499	B212A	120			
KY LOUISVILLE	502/361-3881	B		502/589-7520		
KY LOUISVILLE	502/361-2645	B212A	120	502/589-5580	B/V	120
LA BATON ROUGE	504/292-4050	B		504/343-0753		
LA BATON ROUGE	504/292-2650	B212A	120			
LA LAFAYETTE	318/235-3501	FX B				
LA MONROE				318/387-6330		
LA NEW ORLEANS	504/586-1071	B		504/524-0783		
LA NEW ORLEANS	504/524-4371	B212A	120	504/524-4094	B212A	120
LA SHREVEPORT				318/221-2984		
LA SHREVEPORT	318/688-4666	FX B212A	120	318/221-5833	B/V	120
MA ARLINGTON	617/482-4677	B				
MA ARLINGTON	617/482-5622	B		617/338-1400		
MA ARLINGTON	617/482-3386	B212A	120	617/542-0754	B/V	120
MA ARLINGTON	617/482-1854	V3405	120			
MA BOSTON	617/482-4677	B				
MA BOSTON	617/482-5622	B		617/338-1400		
MA BOSTON	617/482-3386	B212A	120	617/542-0754	B/V	120
MA BOSTON	617/482-1854	V3405	120			
MA BROOKLINE	617/482-4677	B				
MA BROOKLINE	617/482-5622	B		617/338-1400		
MA BROOKLINE	617/482-3386	B212A	120	617/542-0754	B/V	120
MA BROOKLINE	617/482-1854	V3405	120			
MA CAMBRIDGE	617/482-4677	B				
MA CAMBRIDGE	617/482-5622	B		617/338-1400		
MA CAMBRIDGE	617/482-3386	B212A	120	617/542-0754	B/V	120
MA CAMBRIDGE	617/482-1854	V3405	120			
MA CHICOPEE	413/781-6830	B		413/739-7221		
MA CHICOPEE	413/781-0145	B212A	120			
MA HOLYOKE	413/781-6830	B		413/739-7221		
MA HOLYOKE	413/781-0145	B212A	120			
MA MEDFORD	617/482-4677	B				
MA MEDFORD	617/482-5622	B		617/338-1400		
MA MEDFORD	617/482-3386	B212A	120	617/542-0754	B/V	120
MA MEDFORD	617/482-1854	V3405	120			
MA NEWTON	617/482-4677	B				
MA NEWTON	617/482-5622	B		617/338-1400		
MA NEWTON	617/482-3386	B212A	120	617/542-0754	B/V	120
MA NEWTON	617/482-1854	V3405	120			
MA QUINCY	617/482-4677	B				
MA QUINCY	617/482-5622	B		617/338-1400		
MA QUINCY	617/482-3386	B212A	120	617/542-0754	B/V	120
MA QUINCY	617/482-1854	V3405	120			
MA SOMERVILLE	617/482-4677	B				
MA SOMERVILLE	617/482-5622	B		617/338-1400		
MA SOMERVILLE	617/482-3386	B212A	120	617/542-0754	B/V	120
MA SOMERVILLE	617/482-1854	V3405	120			
MA SPRINGFIELD	413/781-6830	B		413/739-7221		
MA SPRINGFIELD	413/781-0145	B212A	120			
MA WALTHAM	617/482-4677	B				
MA WALTHAM	617/482-5622	B		617/338-1400		
MA WALTHAM	617/482-3386	B212A	120	617/542-0754	B/V	120
MA WALTHAM	617/482-1854	V3405	120			
MA WORCESTER	617/754-9451	FX B		617/755-4810		
MA WORCESTER	617/755-5601	B212A	120	617/755-4740	B/V	120
MD ANNAPOLIS	301/547-8100	B		301/266-6886		
MD ANNAPOLIS	301/685-2845	B212A	120			
MD BALTIMORE	301/547-8100	B		301/962-5010		
MD BALTIMORE	301/244-8959	B212A	120	301/685-3339	B/V	120
MD BETHESDA	703/841-0200	B		202/347-1400		
MD BETHESDA	703/524-9215	B212A	120	202/347-3061	B212A	120
MD BETHESDA	703/841-9330	V3405	120	202/347-6093	V3405	120
MD COLLEGE PARK	703/841-0200	B		202/347-1400		
MD COLLEGE PARK	703/524-9215	B212A	120	202/347-3061	B212A	120
MD COLLEGE PARK	703/841-9330	V3405	120	202/347-6093	V3405	120
MD DUNDALK	301/547-8100	B		301/962-5010		
MD DUNDALK	301/244-8959	B212A	120	301/685-3339	B/V	120
MD ROCKVILLE	703/841-0200	B		202/347-1400		
MD ROCKVILLE	703/524-9215	B212A	120	202/347-3061	B212A	120
MD ROCKVILLE	703/841-9330	V3405	120	202/347-6093	V3405	120
MD SILVER SPRING	703/841-0200	B		202/347-1400		
MD SILVER SPRING	703/524-9215	B212A	120	202/347-3061	B212A	120
MD SILVER SPRING	703/841-9330	V3405	120	202/347-6093	V3405	120
MD TOWSON	301/547-8100	B		301/962-5010		

MD TOWSON	301/244-8959	B212A	120	301/685-3339 B/V	120
MI ANN ARBOR	313/665-2627	B		313/996-0351	
MI ANN ARBOR	313/662-8282	B212A	120	313/996-5995 B/V	120
MI DETROIT	313/963-3388	B		313/964-5538	
MI DETROIT	313/963-8880	B212A	120	313/964-2988 B/V	120
MI DETROIT	313/963-2353	V3405	120		
MI FLINT				313/233-3050	
MI FLINT	313/732-7303	B212A	120	313/233-3050 B/V	120
MI GRAND RAPIDS	616/459-5069 FX	B		616/458-1200	
MI GRAND RAPIDS	616/456-9092	B212A	120	616/774-0966	
MI JACKSON	517/787-9461	B			
MI KALAMAZOO	616/365-3150	B		616/385-0160	
MI LANSING	517/487-2040 FX	B		517/372-5400	
MI LANSING				517/372-5420 B/V	120
MI MANISTEE	616/723-8760 FX	B			
MI PLYMOUTH	313/459-8900	B			
MI PLYMOUTH	313/459-8100	B212A	120		
MI SAGINAW				517/790-5166	
MI SOUTHFIELD	313/569-8350	B			
MI ST JOSEPH	616/429-2568 FX	B			
MI TRAVERSE CITY	616/946-0002 FX	B			
MI WARREN				313/575-9230	
MN DULUTH				218/722-0906	
MN HAWKATO	507/625-1684	B212A	120		
MN MINNEAPOLIS	612/339-5200	B		612/339-0150	
MN MINNEAPOLIS	612/339-2415	B212A	120	612/338-3782 B/V	120
MN ROCHESTER	507/282-3741	B212A	120		
MN ST. PAUL	612/339-5200	B		612/339-0150	
MN ST. PAUL	612/339-2415	B212A	120	612/338-3782 B/V	120
MO BRIDGETON	314/731-2304 FX	B			
MO COLUMBIA	314/875-1150 FX	B			
MO FLORISSANT				314/231-8800	
MO FLOPSSANT				314/241-8150 B/V	120
MO JEFFERSON CITY	314/634-3273	B212A	120		
MO JOPLIN	417/782-3037	B212A	120		
MO KANSAS CITY	913/677-2833	B		816/474-1600	
MO KANSAS CITY	913/677-0707	B212A	120	816/421-0375 B/V	120
MO SPRINGFIELD	417/831-0566	B212A	120		
MO ST JOSEPH	816/232-0624	B212A	120		
MO ST LOUIS	314/421-5110	B		314/231-8800	
MO ST LOUIS	314/621-4660	B212A	120	314/421-3615 B/V	120
MS JACKSON	601/944-0860 FX	B		601/969-0036	
MS JACKSON	601/969-5141	B212A	120		
MS PASCAGOULA	601/769-6502	B			
MS PASCAGOULA	601/769-6673	B212A	120		
MT BUTTE	406/494-2998	B212A	120		
NE OMAHA	402/392-2970	B		402/341-7570	
NE OMAHA				402/341-7733 B/V	120
NC ASHEVILLE	704/255-0021	B212A	120		
NC CHARLOTTE	704/376-2545 FX	B		704/374-0371	
NC CHARLOTTE	704/376-2544 FX	B212A	120	704/332-3131 B/V	120
NC DAVIDSON	919/549-0441	B		919/549-8311	
NC DAVIDSON				919/549-8139 B/V	120
NC DURHAM	919/549-0441	B		919/549-8311	
NC DURHAM	919/549-8910	B212A	120	919/549-8139 B/V	120
NC GREENSBORO	919/379-0034 FX	B			
NC GREENSBORO	919/275-8231 FX	B212A	120		
NC RALEIGH/DURHAM	919/549-0441	B		919/549-8311	
NC RALEIGH/DURHAM	919/832-6592 FX	B212A	120	919/549-8139 B/V	120
NC RES. TRI. PARK	919/549-0441	B		919/549-8311	
NC RES. TRI. PARK				919/549-8139 B/V	120
NC WINSTON-SALEM	919/725-1414	B		919/761-1957	
NC WINSTON-SALEM	919/725-9252	B212A	120	919/725-2126	
ND BISMARCK				701/663-5081	
ND MANDAN				701/663-5081	
NH CONCORD				603/224-8110	
NH CONCORD				603/224-1024 B/V	120
NH MANCHESTER	603/669-0493 FX	B			
NH NASHUA	603/889-8618 FX	B			
NH PORTSMOUTH				603/431-2302	
NJ ATLANTIC CITY				609/348-0561	
NJ BAYONNE				201/623-6818	
NJ BAYONNE				201/623-0469 B/V	120
NJ ENGLEWOOD CLFS	201/894-8250	B			
NJ JERSEY CITY				201/623-6818	
NJ JERSEY CITY				201/623-0469 B/V	120
NJ LYNDHURST	201/460-0100	B			
NJ LYNDHURST	201/460-0180	B212A	120		
NJ MARLTON				609/983-9650	
NJ MARLTON				609/983-8351 B/V	120

NJ MOORESTOWN	609/235-3761	FX B				
NJ MORRISTOWN					201/455-0266	
NJ MORRISTOWN	201/267-3997	B212A	120		201/455-0275	B/V 120
NJ NEWARK	201/483-5937	B			201/623-6818	
NJ NEWARK	201/483-4878	B212A	120		201/623-0469	B/V 120
NJ PASSAIC					201/777-0952	B/V 120
NJ PATERSON					201/742-0858	
NJ PATERSON					201/278-5960	B/V 120
NJ PISCATAWAY	201/981-1900	B				
NJ PRINCETON	609/452-8970					
NJ PRINCETON	609/452-8560	B212A	120			
NJ TRENTON					609/392-6101	
NJ TRENTON					609/989-8847	B/V 120
NJ UNION	201/483-5937	B				
NJ UNION	201/483-4878	B212A	120			
NJ UNION CITY					201/623-6818	
NJ UNION CITY					201/623-0469	B/V 120
NJ WAYNE	201/785-4480	B				
NM ALBUQUERQUE					505/243-7701	
NM ALBUQUERQUE	505/843-6301	B212A	120		505/243-4479	B/V 120
NM SANTE FE					505/982-4282	
NV BOULDER CITY	702/293-0300	B				
NV CARSON CITY	702/882-7810	B				
NV CARSON CITY	702/883-6546	B212A	120			
NV LAS VEGAS	702/293-0300	B			702/733-2158	
NV LAS VEGAS					702/737-6861	B/V 120
NV RENO	702/882-7810	B				
NV RENO	702/883-6546	B212A	120			
NY ALBANY	518/463-3111	FX B			518/445-9111	
NY ALBANY	518/434-2633	B212A	120		518/465-8444	B/V 120
NY BIGHAMPTON					607/722-0650	
NY BUFFALO	716/856-1400	B			716/847-0600	
NY BUFFALO	716/847-0500	B212A	120		716/847-1440	B/V 120
NY CORNING	607/962-5071	B				
NY CORNING	607/936-4151	B212A	120			
NY DEER PARK					516/586-7810	
NY ELMIRA	607/737-9010	B212A	120			
NY HEMPSTEAD, LI	516/794-3390	FX B			516/292-0320	
NY HEMPSTEAD, LI	516/872-6612	B212A	120		516/481-6012	B/V 120
NY HUNTINGTON, LI	516/673-5780	FX B				
NY HUNTINGTON, LI	516/421-1614	B212A	120			
NY NEW YORK	212/344-7445	B			212/279-1000	
NY NEW YORK	212/683-0131	B				
NY NEW YORK	212/532-0437	B			212/736-0099	
NY NEW YORK	212/685-4414	B				
NY NEW YORK	212/668-0130	B212A	120		212/947-9600	B/V 120
NY NEW YORK	212/532-8101	B212A	120			
NY NEW YORK	212/684-6363	V3405	120			
NY NEW YORK	212/344-3392	(30 CPS ONLY)				
NY NIAGARA FALLS	716/285-6691	FX B				
NY NIAGARA FALLS	716/285-3114	FX B212A	120			
NY POUGHKEEPSIE					914/473-5600	
NY ROCHESTER	716/248-8000	B			716/454-3430	
NY ROCHESTER	716/248-8350	B212A	120		716/454-1020	B/V 120
NY SCHENECTADY					518/445-9111	
NY SCHENECTADY					518/465-8444	B/V 120
NY SYRACUSE	315/437-7111	B			315/472-5503	
NY SYRACUSE	315/437-1117	B212A	120		315/472-5593	B/V 120
NY TROY					518/445-9111	
NY TROY					518/465-8444	B/V 120
NY WHITE PLAINS	914/694-9361	B			914/682-8777	
NY WHITE PLAINS	914/694-8960	B212A	120		914/946-3176	B/V 120
OH AKRON	216/535-1861	B			216/762-9791	
OH CANTON					216/452-0903	
OH CINCINNATI	513/891-7211	B			513/621-7017	
OH CINCINNATI	513/791-5311	B212A	120		513/579-0390	B/V 120
OH CLEVELAND	216/781-7050	B			216/241-0940	
OH CLEVELAND	216/861-5383	B212A	120		216/696-4225	B/V 120
OH COLUMBUS	614/421-7270	B			614/463-1400	
OH COLUMBUS	614/421-1650	B212A	120		614/461-1853	B/V 120
OH DAYTON	513/223-3847	B			513/461-1570	
OH DAYTON	513/461-6400	B212A	120		513/461-5254	B/V 120
OH EUCLID					216/241-0940	
OH EUCLID					216/696-4225	B/V 120
OH KENT					216/678-5115	
OH MARYSVILLE	513/642-2015	FX B212A	120			
OH PARMA					216/241-0940	
OH PARMA					216/696-4225	B/V 120
OH SPRINGFIELD					513/323-8433	
OH TOLEDO	419/243-3144	FX B			419/255-7805	

OH TOLEDO	419/255-2946	FX B212A	120	419/255-7881	B/V	120
OH YOUNGSTOWN				216/743-2296		
OH YOUNGSTOWN	216/744-5326	B212A	120			
OK BARTLESVILLE				918/336-0020		
OK BETHANY	405/947-0561	B		405/232-4550		
OK BETHANY	405/949-0125	B212A	120	405/232-4546	B/V	120
OK NORMAN	405/947-0561	B		405/232-4550		
OK NORMAN	405/949-0125	B212A	120	405/232-4546	B/V	120
OK OKLAHOMA CITY	405/947-0561	B		405/232-4550		
OK OKLAHOMA CITY	405/949-0125	B212A	120	405/232-4546	B/V	120
OK STILLWATER				405/624-1112		
OK TULSA	918/663-2220	B		918/584-3215		
OK TULSA	918/665-2750	B212A	120	918/584-3247	B/V	120
OR PORTLAND	503/231-4050	B		503/243-2800		
OR PORTLAND	503/231-4077	B212A	120	503/243-2815	B/V	120
PA ALLENTOWN	215/433-6131	FX B		215/435-8268		
PA ALLENTOWN	215/432-5926	B212A	120	215/425-3330	B/V	120
PA ALTOONA	814/946-8888	B212A	120			
PA ERIE	814/453-7161	B		814/453-7561		
PA ERIE				814/453-6859	B/V	120
PA HARRISBURG	717/236-1190	FX B		717/236-3202		
PA HARRISBURG				717/236-6882	B/V	120
PA JOHNSTOWN				814/535-7576		
PA JOHNSTOWN				814/835-8541	B/V	120
PA PENN HILLS				412/288-9950		
PA PENN HILLS				412/288-9974	B/V	120
PA PHILADELPHIA	215/561-6120	B		215/574-0620		
PA PHILADELPHIA	215/567-1381	B212A	120	215/574-9462	B/V	120
PA PITTSBURGH	412/765-1320	B		412/288-9950		
PA PITTSBURGH	412/261-4151	B212A	120	412/288-9974	B/V	120
PA SCRANTON				717/961-5321		
PA SHARON				412/346-6576		
PA UPPER DARBY				215/574-0620		
PA UPPER DARBY				215/574-9462	B/V	120
PA VALLEY FORGE	215/666-9190	B				
PA VALLEY FORGE	215/666-0930	B212A	120			
PA YORK	717/846-3900	V3405	120			
RI PROVIDENCE	401/274-5783	FX B		401/272-9290		
RI PROVIDENCE	401/831-5566	B212A	120	401/751-7912	B/V	120
RI WARWICK	401/274-5783	FX B		401/272-9290		
RI WARWICK	401/831-5566	B212A	120	401/751-7912	B/V	120
SC CHARLESTON				803/722-4352		
SC CHARLESTON				803/722-4303	B/V	120
SC COLUMBIA	803/252-0840	FX B		803/254-1108		
SC COLUMBIA				803/254-0695	B/V	120
SC GREENVILLE	803/271-2418	FX B		803/233-3488		
SC GREENVILLE				803/233-3486	B/V	120
SC SPARTANBURG				803/583-5421		
SD PIERRE				605/224-6188		
TN CHATTANOOGA	615/756-5856	B		615/756-5323		
TN CHATTANOOGA	615/756-0561	B212A	120	615/756-1161	B/V	120
TN KNOXVILLE	615/637-3118	FX B		615/523-5500		
TN KNOXVILLE	615/523-7458	FX B212A	120	615/523-5500	B/V	120
TN MEMPHIS	901/529-0170	B		901/525-2563		
TN MEMPHIS	901/520-0183	B212A	120	901/521-0215	B/V	120
TN NASHVILLE	615/367-9382	B		615/244-8310		
TN NASHVILLE	615/361-7566	B212A	120	615/244-5099	B/V	120
TX ABILENE				915/676-7701		
TX AUSTIN	512/444-3280	B		512/926-4360		
TX AUSTIN	512/444-5800	B212A	120	512/928-3560	B/V	120
TX BAYTOWN	713/427-5856	FX B				
TX BEAUMONT	713/832-2589	FX B				
TX CORPUS CHRISTI	512/882-3641	FX B				
TX DALLAS	214/638-8888	B		214/748-0127		
TX DALLAS	214/688-1444	B212A	120	214/748-6371	B/V	120
TX EL PASO	915/544-9590	B				
TX EL PASO	915/532-1936	B212A	120			
TX FORT WORTH	214/263-4581	FX B		817/336-7791		
TX FORT WORTH	214/263-0278	B212A	120	817/332-4307	B/V	120
TX HOUSTON	713/975-0500	B		713/224-3380		
TX HOUSTON	713/977-4080	B				
TX HOUSTON	713/780-7390	B				
TX HOUSTON	713/780-7496	V3405	120			
TX HOUSTON	713/977-7671	B212A	120	713/225-9359	B/V	120
TX LACKLAND				512/227-7784		
TX LACKLAND				512/227-0182	B/V	120
TX LONGVIEW	214/758-1756	FX B				
TX LUBBOCK	806/762-0136	FX B				
TX MIDLAND	915/683-5645	B				
TX MIDLAND	915/683-9833	B212A	120			

TX ODESSA	915/563-3745	FX B		915/332-6883	
TX SAN ANGELO				915/944-9670	
TX SAN ANGELO				915/944-8502	B/V 120
TX SAN ANTONIO	512/696-4002	B		512/227-7784	
TX SAN ANTONIO	512/699-9627	B212A	120	512/227-0182	B/V 120
UT SALT LAKE CITY	801/582-8972	B		801/364-2644	
UT SALT LAKE CITY	801/582-6060	B212A	120		
VA CHESAPEAKE				804/625-8291	
VA CHESAPEAKE				804/625-1186	B/V 120
VA HERNDON				703/435-3333	
VA NEWPORT NEWS	804/596-5754	FX B		804/596-6600	
VA NEWPORT NEWS				804/596-6600	B/V 120
VA NORFOLK				804/625-8291	
VA NORFOLK	804/625-8301	B212A	120	804/625-1186	B/V 120
VA PORTSMOUTH				804/625-8291	
VA PORTSMOUTH				804/625-1186	B/V 120
VA RICHMOND	804/649-3050	FX B		804/358-1941	
VA RICHMOND	804/788-4604	B212A	120	804/780-0426	B/V 120
VA VIRGINIA BEACH				804/625-8291	
VA VIRGINIA BEACH				804/525-1186	B/V 120
VT BURLINGTON	802/864-0054	FX B212A	120		
VT MONTPELIER				802/229-4966	
WA AUBURN				206/939-8200	
WA BELLEVUE	206/625-9937	B212A	120	206/625-9612	B/V 120
WA BELLEVUE	206/625-9900	B		206/447-9012	
WA ENUMCLAW	206/625-6909	FX B			
WA LONGVIEW				206/577-5835	
WA OLYMPIA	206/943-4190	FX B			
WA RICHLAND	509/375-1975	B			
WA RICHLAND	509/375-3367	B212A	120		
WA SEATTLE	206/625-9900	B		206/447-9012	
WA SEATTLE	206/625-9937	B212A	120	206/625-9612	B/V 120
WA SPOKANE				509/455-7601	
WA SPOKANE	509/838-8226	B212A	120	509/455-4071	B/V 120
WA TACOMA	206/952-6800	FX B		206/627-1717	
WA TACOMA				206/627-1719	B/V 120
WI APPLETON	414/734-9940	FX B			
WI EAU CLAIRE	715/834-7863			715/835-4641	
WI GREEN BAY	414/468-6808	B212A	120		
WI MADISON	608/221-4211	B		608/251-5904	
WI MADISON	608/221-0891	B212A	120	608/257-5010	B/V 120
WI MILWAUKEE	414/257-3482	B		414/271-2560	
WI MILWAUKEE	414/257-1703	B212A	120	414/271-3914	B/V 120
WI NEENAH	414/722-5580	V3405	120		
WI OSHKOSH	414/235-4594	FX B			
WV CHARLESTON	304/345-2908	B212A	120	304/345-6450	
WV CHARLESTON				304/345-6471	B/V 120
WV HUNTINGTON	304/522-6261	FX B			
WY CHEYENNE				307/778-2721	

THE NLM TECHNICAL BULLETIN

APRIL 1981

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MAP OF ONLINE CENTERS IN THE U.S. - FEBRUARY 1981

DATABASE	TOTAL RECORDS	DATES COVERED	DATE LAST UPDATED	LATEST UPDATE TAG
*AVLINE	9,698	THROUGH 1981	10 APR 81	
*BIOETHICS	11,239	JAN 73-DEC 80	06 MAR 81	8103(EM)
*CANCERLIT	250,485	JAN 63-MAR 81	23 MAR 81	8103(EM)
*CANCERPROJ	20,083	1976-1980	03 FEB 81	8101(EM)
*CATLINE	208,375	THROUGH 1981	10 APR 81	
CHEMLINE	484,383		20 APR 81	8103(EM)
*CLINPROT	2,376		17 MAR 81	8101(EM)
*EPILEPSY	36,472	1945-PRESENT	20 OCT 80	
*HEALTH	172,014	JAN 75-MAY 81	13 APR 81	8105(EM)
*HISTLINE	44,412		06 APR 81	8104(EM)
MEDLINE	470,822	JAN 79-MAY 81	09 APR 81	8105(EM)
#+MED77	511,005	JAN 77-DEC 78	15 DEC 80	
+MED75	643,953	JAN 75-DEC 76	15 DEC 80	
+MED72	669,106	JAN 72-DEC 74	15 DEC 80	
+MED69	668,257	JAN 69-DEC 71	15 DEC 80	
+MED66	501,801	JAN 66-DEC 68	15 DEC 80	
MESH VOC	39,165	1981	13 APR 81	
*NAME AUTH	115,619		13 APR 81	
*POPLINE	75,685	1970-APR 81	13 APR 81	8104(EM)
RTECS	45,156	1979 ED.-MAR 81	06 MAR 81	
SDILINE	22,888	MAY 81	06 APR 81	
*SERLINE	37,247	1981	24 MAR 81	
TDB	2,547		11 SEP 80	
TOXLINE	463,775		30 MAR 81	8103(EM)
CBAC	232,210	1977-VOL 33(3,4)		
TOXBIB	77,450	1977-APR 81		
IPA	19,869	1977-VOL 17(17,18,19,20,21,22)		
HEEP	53,961	1977-VOL 10(4)		
PESTAB	11,137	1977-VOL 14(3)		
EMIC	29,887	1960-DEC 80		
ETIC	20,946	1950-MAR 81		
RPROJ	25,177	1978-MAY 81		
TD3	3,138	JAN/MAR 81		
+TOXBACK74	275,506		10 SEP 80	
CBAC	147,332	1974-1976		
TOXBIB	65,433	1974-1976		
IPA	17,582	1974-1976		
HEEP	37,198	1974-1976		
PESTAB	7,961	1974-1976		
+TOXBACK65	387,377		10 SEP 80	
CBAC	196,015	1965-1973		
TOXBIB	112,170	1968-1973		
IPA	21,973	1970-1973		
HEEP	29,662	1971-1973		
HAPAB	12,966	1966-1973		
HAYES	10,039	1940-1966		
TMIC	4,552	1971-1975		

- 1) * = NLM ONLY 2) * = AVAILABLE ONLY THRU OFFSEARCH
 3) # = ALSO AVAILABLE ONLINE AT NLM ONLY

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	Bethesda, Maryland 20209

TECHNICAL NOTES

PLEASE QUERY THE ONLINE NEWS DAILY FOR SPECIAL NOTICES AND MESSAGES

Whenever applicable, the headings of each Technical Note will include a reference to the section of the Online Services Reference Manual which is considered most relevant to the item being discussed (e.g., Manual 2.9). Users should keep in mind that the item may pertain to other sections of the Manual.

INCREASE IN CHEMLINE CHARGES EFFECTIVE APRIL 1, 1981 - Effective April 1, 1981, new pricing schedules for domestic users will be implemented for NLM's CHEMLINE service. The substantial increase in charges for online access and offline prints reflects the increase in royalty payments for 1981 assessed by Chemical Abstracts Service for use of its proprietary data in CHEMLINE. The new CHEMLINE fees as of April 1, 1981, are as follows:

<u>Online Hourly Rate</u>	<u>Page Charge</u>
Non-Prime \$45 (includes royalty charge of \$37.64)	\$0.22 (includes royalty charge of \$0.07)
Prime \$52 (includes royalty charge of \$37.64)	

NO POSTINGS MESSAGE - A NO POSTINGS message is sometimes received when a command appears to have been input correctly, e.g.:

```

USER:
display
PROG:
NP (DISPLAY)
    
```

This can occur when an unprintable noise character has prevented the system from interpreting the command properly. It is recommended that the command be re-entered immediately preceded by a double quote mark ("). The double quote causes the system to ignore any characters preceding it; therefore, any noise preceding the command will be ignored.

ADDRESSES ON OFFLINE PRINTS AND OFFSEARCHES (Manual 4.9.17) - To insure that your OFFLINE PRINTS and OFFSEARCHES are processed swiftly and effectively, please enter complete and accurate addresses. The addresses are limited to only 3 lines and up to 50 characters for each line. Stored addresses can be modified by using the PROFILE MODIFY STORAD command.

OFFSEARCH PURGES - To request purging of OFFSEARCHes, you must call the MEDLARS Management Staff the same day that OFFSEARCHes are entered during the Service Desk hours of 8:30 a.m. - 5 p.m. E.T. because OFFSEARCHes are processed during the evening of the day entered. NLM computer operators are only responsible

for reporting the status of the system. Therefore, be advised that it is impossible to have your OFFSEARCHes purged on government holidays, weekends, or those hours when the MMS Service Desk is not staffed.

- STORESEARCHES (Manual 5.6) - Reminder: When storing a search, one should be connected to the file against which the STORESEARCH will be run, or at least be connected to a similar file. In other words, the search strategy being input must be compatible with the file against which the search will be executed. For example, if the MeSH vocabulary is utilized then the search may not execute properly against a free-text file.
- 1981 MeSH In CATLINE and AVLINE - CATLINE and AVLINE at NLM and SUNY have been updated to reflect the 1981 MeSH terms except for the mapping of minor to major descriptors and the addition of geographic subheadings. The mapping of minor descriptors and the addition of geographic subheadings will be completed in the near future.
- NEW GEOGRAPHIC QUALIFIERS IN MeSH - The following are new geographic qualifiers added to the 1981 MeSH:
Papua New Guinea
Virgin Islands of the United States
- NEW PUBLICATIONS - The following publication is now available from NTIS:
List of Serials and Monographs Indexed for Online Users, 1981
PB81-159469, Price: \$8.00
- The following publication will be available from GPO in April 1981:
List of Journals Indexed in Index Medicus (1981)
S/N 017-052-00220-1, Price: \$6.50
- CANCERPROJ AND CLINPROT INDEX TERMS (Manual Parts 17 & 18) - New listings of both the CANCERPROJ and CLINPROT index terms are available by writing to either the MEDLARS Management Section, NLM, or the International Cancer Research Data Bank, ~~Westwood Building, Room 10A18, Bethesda, Maryland 20205.~~
Bloch International Cancer Information Center, Bldg 82
- NLM ONLINE USERS MEETING AT MLA - The annual NLM Online Users Meeting will be held at the MLA Annual meeting June 1, 1981, 12:30 - 1:30 p.m. in Le Grand Salon of the Queen Elizabeth Hotel, Montreal. All NLM online users are encouraged to attend.
- ROOM CHANGE FOR INITIAL CLASS AT MLA - Please Note: The special three-day Initial Online Services Training course for backup searchers before the MLA meeting in Montreal, Canada, May 27-29, 1981, will be held in the Harricana Room of the Queen Elizabeth Hotel in Montreal. This had been previously scheduled for the Joliet Room. Applications are still being accepted; please call or write MMS.

CHEMLINE REGENERATION

Donald F. Walker, Jr., Specialized Information Services, NLM

The CHEMLINE file was regenerated in April and now contains more than 484,000 CAS Registry Number records. A small reduction in total record count resulted from the TOXLINE regeneration in 1980. Many duplicate bibliographic records were removed from the backfiles when TOXBACK65 and TOXBACK74 were generated. These deleted duplicate bibliographic records, in many cases, contained the only occurrences of specific CAS Registry Numbers.

Several changes have been made in the CHEMLINE record:

1. Entry Month (EM) has been added and will be represented by the year and month. The value 8103 (for March 1981) will appear in this field for the regenerated file. The month will change for each update record added to the file.
2. The latest CA Collective Index name appears in the N1 field. It may be designated either (8CI) or (9CI) or (8CI)(9CI) as was done previously. If in the past both (8CI) and (9CI) index names have been in the N1 field, now the (8CI) name has been moved to the Synonym field and appears before all other synonyms that are listed.
3. Synonyms are now in alphabetical order except for those CA index names that have been moved from the N1 field. The old CA index name appears first and will be followed by the (8CI) designator. All remaining synonyms are in alphabetical order.
4. MeSH Headings (MH) and Heading Fragments (HF) have been removed from CHEMLINE along with the Locator (LO) MEDLARS. CAS Registry Numbers are being added to MEDLINE bibliographic records and are identified in CHEMLINE by the Locator MEDLINE.
5. New Locators for the TOXLINE backfiles, TOXBACK65 and TOXBACK74, have been added and refer users to specific files for CAS Registry Numbers in those files. The Locator TOXLINE refers to the current online file.

An example showing the above changes follows:

SS 3 /C?

USER:

PROG:

1

EM - 8103

← ENTRY MONTH

RN - 81-07-2

ON - 474-91-9 (CAS)

MF - C7-H5-N-03-S

N1 - 1,2-Benzisothiazol-3(2H)-one, 1,1-dioxide (9CI) ← LATEST CI NAME (9TH IN THIS EXAMPLE)

- SY - 1,2-Benzisothiazolin-3-one, 1,1-dioxide (8CI) ← 8CI NAME (FIRST SYNONYM)
- SY - Anhydro-o-sulfaminebenzoic acid
- SY - 1,2-Benzisothiazoline-3-one 1,1-dioxide
- .
- .
- .
- SY - Benzosulfinide
- SY - o-Benzoyl sulfimide
- SY - 1,2-Dihydro-2-ketobenzisosulfonazole
- SY - 2,3-Dihydro-3-oxobenzisosulfonazole
- SY - Garantose
- SY - Glucid
- SY - Gluside
- SY - 3-Hydroxybenzisothiazole-S,S-dioxide
- SY - Saccharimide
- SY - Saccharin
- SY - Saccnarin acid
- SY - Saccharine
- SY - 550 Saccharine
- SY - Saccharin insoluble
- SY - Saccharinol
- SY - Saccharinose
- SY - Saccharol
- SY - o-Sulfobenzimide
- SY - o-Sulfobenzoic acid imide
- NR - 2
- RS - 5,6
- RE - C3NS-C6
- CL - NSC3
- LO - TOXLINE
- LO - TOXBACK65
- LO - TOXBACK74
- LO - RTECS
- LO - TDB
- LO - TSCAINV
- LO - MEDLINE

LOCATOR INFORMATION: NOW
INCLUDES TOXLINE BACKFILES
AND MEDLINE

NEW ALTERNATE ENTRIES FOR MESH HEADINGS

Susanne M. Humphrey, Medical Subject Headings Section, NLM

All MeSH headings that contain the word DISEASE, DISEASES, DISORDER, or DISORDERS now have short forms for searching using the abbreviation DIS. The abbreviation omits any punctuation or special characters found in the MeSH heading itself; for example, LUNG DIS FUNGAL can be used for LUNG DISEASES, FUNGAL. Headings having an apostrophe and an s ('S) in addition to either DISEASE(S) or DISORDER(S) have two different abbreviations, one with the S and one without it. For example, MAREKS DIS or MAREK DIS can be used for MAREK'S DISEASE.

In addition, all MeSH headings with words ending in an apostrophe and an s ('S) or an apostrophe (') now have alternate forms omitting that ending. For example:

TURNER SYNDROME	for	TURNER'S SYNDROME
COOMBS TEST	for	COOMBS' TEST

These alternate forms are applied to both eponymous and non-eponymous headings. For non-eponymous headings, alternate singular and plural versions are also provided. For example:

FARMER LUNG		
FARMERS' LUNG	for	FARMER'S LUNG
FARMERS LUNG		
PHYSICIANS OFFICES		
PHYSICIAN'S OFFICES	for	PHYSICIANS' OFFICES
PHYSICIAN OFFICES		

MeSH chemical headings that have the prime symbol (') now have alternate forms omitting the prime ('). For example:

3,3-DICHLOROBENZIDINE	for	3,3'-DICHLOROBENZIDINE
3,3 DICHLOROBENZIDINE		

This second alternate form also illustrates a heading that omits the hyphen, as previously described in the NLM Technical Bulletin, March 1978, page 4.

Note that abbreviations and alternate forms have not been provided for entry terms (i.e., SEE cross references) or for the following data elements in the chemical term record: Name of Substance (NM), Synonym (SY), and CAS Type 1 Name (N1).

REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES (RTECS) STATUS FIELD ADDITIONS
 Jeanne Goshorn, Specialized Information Services, NLM

The RTECS database now contains additional information in the Status field (ST) of some records. These data were added beginning with the March 1981 update.

The National Institute of Occupational Safety and Health (NIOSH), supplier of the RTECS file, now includes the following four new categories of information, when applicable, in the Status field (ST). Status in terms of:

- * the Environmental Protection Agency's (EPA) Section 8a of the Toxic Substances Control Act (TSCA). This section will require that manufacturers and processors maintain records and submit reports on certain chemical substances. A list of the 2,200 chemicals currently subject to this proposed rule was published in the Federal Register on February 29, 1980.

- * EPA's Section 8e of TSCA. If a substance is determined to present a substantial risk to the health or the environment, the information that supports this conclusion must be reported to the EPA Administrator as required by this section.
- * the NIOSH Current Intelligence Bulletin. The volume number and year of the issue containing a reference to the compound are listed here.
- * NIOSH's Manual of Analytical Methods. The volume and page that contain information on the analysis of the reported compound are referenced.

Prior to the March 1981 update, only two categories of information were included in the Status field (ST):

- * status in terms of EPA's TSCA Inventory
- * status in terms of the National Toxicology Program's (NTP) (formerly NCI's) testing for carcinogenicity by standard bioassay.

Remember that the Status field (ST) in RTECS is text word searchable using the mnemonic (TW). A suggested strategy for retrieving information on the basis of Status field (ST) information for each of these six categories follows:

To search:

EPA's TSCA Inventory, use (TW) EPA AND INVENTORY
 TSCA 8a status, use (TW) EPA AND PRELIMINARY
 TSCA 8e status, use (TW) EPA AND FOLLOWUP

An illustration of the above three types of status field entries follows:

PRT 1 N1, ST
 PROG:
 N1 - ACETALDEHYDE, DIMETHYL ACETAL
 ST - REPORTED IN EPA TSCA INVENTORY, JULY 1979
 ST - EPA TSCA 8(a) PRELIMINARY ASSESSMENT INFORMATION PROPOSED RULE
 FERREAC 45,13646,80
 ST - EPA TSCA 8E NO:01780036-FOLLOWUP SENT AS OF APRIL, 1979

To search:

NTP (Formerly NCI) status, use (TW) NCI OR NTP

The following partial record illustrates this type of entry:

Prt N1, ST
 PROG:
 N1 - DIBENZO-P-DIOXIN
 ST - NCI CARCINOGENESIS BIOASSAY COMPLETED:RESULTS NEGATIVE (NCITR*
 NCI-CG-TR-122,79)
 ST - NTP CARCINOGENESIS BIOASSAY COMPLETED:NO REPORT-DATA INSUFFICIENT

To search:

NIOSH Current Intelligence Bulletin status, use (TW) NIOSH AND CURRENT
 NIOSH Manual of Analytical Methods, use (TW) NIOSH AND MANUAL

The record below shows status field entries of these two types:

PRT 1 N1, ST

PROG:

N1 - ACRYLONITRILE

ST - "NIOSH MANUAL OF ANALYTICAL METHODS" VOL 1 202, VOL 3 S156

ST - NIOSH CURRENT INTELLIGENCE BULLETIN 18, 1977

ST - REPORTED IN EPA TSCA INVENTORY, JULY 1979

Remember that the multiply-occurring Status field (ST) is not subject to the valsearch/valprint software, so that when a record is retrieved and printed, every occurrence of this field will be printed, not just the one searched.

SPECIAL INITIAL CLASSES IN REGIONS 7 AND 9

In an effort to provide Regional training opportunities, the National Library of Medicine has made arrangements for special 3-day Initial Online Services Training courses for backup searchers to be offered in Regions 7 and 9. These courses will include all the lectures, discussions, and demonstrations of the standard Initial Training curriculum, plus an overview of some additional databases not usually included in the course. There will be no hands-on terminal exercises.

The classes will be held:

August 18-20, 1981, in Chicago, Illinois (Region 7)

September 16-18, 1981, in Dallas, Texas (Region 9)

Application forms may be obtained by calling or writing MEDLARS Management Section (301/496-6193). Please indicate which course you would like to attend. Registration is limited to 50 individuals, one per institution, although additional persons from an institution may be scheduled if space permits. All applications will be processed in order of receipt.

NLM is currently exploring the possibility of holding additional special classes in other Regions in the coming months. Please watch the online NEWS and the Technical Bulletin for announcements. Currently, special Initial classes are scheduled at NLM, the University of California at Los Angeles (UCLA), and the University of Nebraska, Omaha, as follows:

July 8-10, 1981, University of Nebraska

August 25-27, 1981, UCLA

October 14-16, 1981, NLM

December 2-4, 1981, NLM

This course has been approved by the Medical Library Association (MLA) for 21 contact hours towards MLA recertification requirements.

MONTHLY HINT: Use of the 'AND NOT' Operator

Occasionally searchers who use the AND NOT logical operator find that their retrieval set includes citations that they feel should have been omitted with the AND NOT operation. For example:

SS 1/C?
 USER:
 HEALTH EDUCATION OR HEALTH POLICY OR HEALTH PROMOTION
 PROG:
 SS (1) PSTG (918)

SS 2/C?
 USER:
 1 AND NOT CHILD OR 1 AND NOT ADOLESCENCE
 PROG:
 SS (2) PSTG (841)

SS 3/C?
 USER:
 PRINT 1 FU
 PROG:

1
 AU - BORIA MC ; WELCH EJ ; VARGAS AM
 TI - FAMILY LIFE THEATRE AND YOUTH HEALTH SERVICES.
 LA - ENG
 MH - ADOLESCENCE ; *ADOLESCENT PSYCHOLOGY ; FAMILY HEALTH ;
 FEMALE ; *HEALTH EDUCATION ; HUMAN ; MALE ; NEW YORK CITY ;
 PILOT PROJECTS ; *PSYCHODRAMA ; SUPPORT, NON-U.S. GOV'T ;
 TEACHING/METHODS

Although the search plainly states AND NOT ADOLESCENCE, this citation contains that heading - why?

The problem is the OR operator: the retrieval from 1 AND NOT CHILD (which contains the above citation) has been Ored with the retrieval from 1 AND NOT ADOLESCENCE. Thus, this citation is included in the final retrieval set. The only citations omitted from the set are those containing both CHILD and ADOLESCENCE, because they are negated from both parts of the search statement.

In order to avoid this problem, either OR the "undesirables" together first and then perform the AND NOT operation:

SS 2/C?
 USER:
 CHILD OR ADOLESCENCE
 PROG:
 SS (2) PSTG (45019)

SS 3/C?
 USER:
 1 AND NOT 2

or, if the retrieval set is small, you might STRINGSEARCH instead:

SS 2/C?
USER:
TS (MH) CHILD OR ADOLESCENCE
PROG:
SS (2) PSTG (210)

SS 3/C?
USER:
1 AND NOT 2

Note: It is not necessary to use colons when STRINGSEARCHing single word values in specified fields, such as (MH) or (LA).

NEW SERIALS ANNOUNCEMENT - MARCH 1981
Serial Records, Technical Services Division, NLM

The following substantive serial titles were received or ordered by the Serial Records Section. IM to the left of the title indicates that the title appears in Index Medicus. ON ORDER, IN PROCESS, or an actual NLM call number appears at the bottom of the entry. Please include the NLM call number on interlibrary loan requests. Of course, NLM cannot fill loans for titles not yet received by the Library. The list is offered as an early announcement and will include price information if known. Information provided is not authorized NLM cataloging data. For further information, contact Ms. Janice Lennox, 301/496-1276, Technical Services Division, NLM.

ADVANCES IN BIOMATERIALS

1,1980--
WILEY
CHICHESTER SUSSEX ENGLAND
W3 AD23
A13308000

ADVANCES IN INFANCY RESEARCH

1,1980--
ABLEX PUBLISHING CORPORATION
NORWOOD NJ UNITED STATES
ON ORDER
A14223000

ADVANCE IN INTERNATIONAL MATERNAL AND CHILD HEALTH

1,1981--
OXFORD UNIVERSITY PRESS
OXFORD ENGLAND
ON ORDER
A14285000

AMERICAN JOURNAL OF KIDNEY DISEASES

1N1,JUN/JUL 1981--
GRUNE AND STRATTON
NEW YORK UNITED STATES
ON ORDER
A24335000
\$60.00

ARZTEZEITSCHRIFT FUR NATURHEILVERFAHREN

22,1981--
MEDIZINISCH LITERARISCHE VERLAGSGESELLSCHAFT
CONTINUES PHYSIKALISCHE MEDIZIN UND
REHABILITATION.
ULZEN GERMANY, WEST
IN PROCESS
A68898000

ASIA-OCEANIA JOURNAL OF OBSTETRICS AND GYNAECOLOGY

6N1,SEP 1980--
MEDICAL VIEW COMPANY
CONTINUES JOURNAL OF THE ASIAN FEDERATION
OF OBSTETRICS AND GYNAECOLOGY
TOKYO JAPAN
MEDICAL VIEW CO., LTD., 3-1, KOJIMACHI,
CHIYODA-KU, TOKYO 102, JAPAN
IN PROCESS
A69305000

AUSTRALASIAN PHYSICAL AND ENGINEERING SCIENCES IN MEDICINE

3N1,JAN/FEB 1980--
AUSTRALASIAN COLLEGE OF PHYSICAL SCIENTISTS
IN MEDICINE
CONTINUES AUSTRALASIAN PHYSICAL SCIENCES IN
MEDICINE
MELBOURNE AUSTRALIA
MR.K.H. CLARKE, CLINICAL PHYSICS, CANCER
INSTITUTE, 481 LITTLE LONSDALE ST.,
MELBOURNE, VIC. 3000, AUSTRALIA
ON ORDER
A75155000

BOLETIN EPIDEMIOLOGICO

1981?--
ORGANIZACION PANAMERICANA DE LA SALUD
CONTINUES BOLETIN INFORMATIVO SOBRE EL
DENGUE, LA FIEBRE AMARILLA Y EL AEDES
AEGYPTI EN LAS AMERICAS.
WASHINGTON UNITED STATES
ON ORDER
B25990000

IM BOOK SUPPLEMENT TO THE JOURNAL OF CHILD PSYCHOLOGY AND PSYCHIATRY

N1,1978--
PERGAMON PRESS
OXFORD ENGLAND
IN PROCESS
B32030000

BULLETIN TRIMESTRIEL DE LA SOCIETE MYCOLOGIQUE DE FRANCE

96N1,1980?--
SOCIETE MYCOLOGIQUE DE FRANCE
CONTINUES BULLETIN DE LA SOCIETE FRANCAISE
DE MYCOLOGIE MEDICALE.
PARIS FRANCE
IN PROCESS
B57041000

CAMBRIDGE STUDIES IN MATHEMATICAL BIOLOGY

1,1980--
CAMBRIDGE UNIVERSITY PRESS
CAMBRIDGE ENGLAND
ON ORDER
C03090000

CLINICAL HEMORHEOLOGY

1,1980--
 PERGAMON PRESS
 OXFORD ENGLAND
 ON ORDER
 C25670000
 \$90.00

CLINICAL INSTRUMENT SYSTEMS

INI, AUG 1980--
 MCNAMARA PUBLISHING
 NEW YORK UNITED STATES
 ON ORDER
 C25790000

CLINICAL PSYCHOLOGY REVIEW

1981--
 PERGAMON PRESS
 ELMSFORD UNITED STATES
 ON ORDER
 C26675000

COMMENTS ON MOLECULAR AND CELLULAR

BIOPHYSICS
 1,1980--
 GORDON AND BREACH
 LONDON ENGLAND
 ON ORDER
 C31870000
 \$99.00

CONGRES FRANCOPHONE DE GERONTOLOGIE

1ST,1979--
 MASSON
 PARIS FRANCE
 IN PROCESS
 C40910000

CONTEMPORARY NEPHROLOGY

1,1981--
 PLENUM PRESS
 NEW YORK UNITED STATES
 ON ORDER
 C46795000

CURRENT TOPICS IN INFECTION

NI,1980--
 EDWARD ARNOLD
 LONDON ENGLAND
 EDWARD ARNOLD PUBLISHERS, LTD, 41 BEDFORD
 SQ., LONDON WC1B 3DQ, ENGLAND
 IN PROCESS
 C57830000

FOOD AND NUTRITION BIBLIOGRAPHY

9TH,1980--
 ORYX PRESS
 CONTINUES: CATALOG. SUPPLEMENT / NATIONAL
 AGRICULTURAL LIBRARY. FOOD AND NUTRITION
 INFORMATION AND EDUCATIONAL MATERIALS
 CENTER.
 PHOENIX AZ UNITED STATES
 ORYX PRESS, 2214 NORTH CENTRAL AT ENCANTO,
 PHOENIX, AZ 85004
 IN PROCESS
 F09980500

HEALTH MANAGEMENT

INI,1978?--
 INTERNATIONAL WORLD OF HEALTH
 GLENSIDE AUSTRALIA
 THE MANAGER, INTERNATIONAL WORLD OF HEALTH,
 P.O. BOX 259, GLENSIDE, SOUTH AUSTRALIA 5065
 ON ORDER
 H06345000

INSIGHT

1978--
 SINGAPORE ASSOCIATION FOR MENTAL HEALTH
 SINGAPORE SINGAPORE
 SINGAPORE ASSOCIATION FOR MENTAL HEALTH,
 365, BLOCK 69, LORONG FOUR, TOA PAYOH,
 SINGAPORE 12
 IN PROCESS
 I17510000

INTERNAL MEDICINE FOR THE SPECIALIST : IM

SEPT 1980--
 MED PUBLISHING
 MORGANVILLE NJ UNITED STATES
 MED PUBLISHING, 50 ROUTE 9, MORGANVILLE NJ
 07751
 IN PROCESS
 I19847000
 \$35.00

INTERNATIONAL JOURNAL OF NEPHKOLOGY,

UROLOGY AND ANDROLOGY
 FEB/MAR 1980--
 CANDELA EDITORE
 ROME ITALY
 ON ORDER
 I27310000

INTERNATIONALES JOURNAL FUR PARODONTOLOGIE

UND RESTAURATIVE ZAHNHEILKUNDE
 1,1981--
 QUINTESSENZ VERLAGS
 BERLIN GERMANY, WEST
 IFENPFAD 2-4, D-1000 BERLIN 42
 ON ORDER
 I36545000

JOURNAL OF APPLIED TOXICOLOGY

1,1981--
 HEYDEN AND SON
 PHILADELPHIA UNITED STATES
 ON ORDER
 J13090000

JOURNAL OF CLINICAL NEURO - OPHTHALMOLOGY

MAR 1981--
 MASSON PUBLISHING USA, INC
 NEW YORK UNITED STATES
 ON ORDER
 J16825000
 \$49.00

JOURNAL OF MOLECULAR AND APPLIED GENETICS

1981--
 RAVEN PRESS
 NEW YORK UNITED STATES
 ON ORDER
 J30310000
 \$135.00

MAGYAR REUMATOLOGIA

21N4, OCT 1980?--
 MAGYAR RHEUMATOLOGUSK EGYESUELETENEK
 CONTINUES RHEUMATOLOGIA BALNEOLOGIA
 ALLERGOLOGIA.
 BUDAPEST HUNGARY
 IN PROCESS
 M01650000

MICROCIRULATION

1981--
 MARCEL DEKKER
 NEW YORK UNITED STATES
 ON ORDER
 M34425000
 \$55.00

MOLECULAR ASPECTS OF CELLULAR REGULATION
1,1980--
ELSEVIER/NORTH-HOLLAND BIOMEDICAL PRESS
AMSTERDAM NETHERLANDS
IN PROCESS
M43130000

NEUROLOGIA PSICHIATRIA SCIENZE UMANE
1 1981--
IL PENSIERO SCIENTIFICO
ROME ITALY
ON ORDER
N12830000

NEW DIRECTIONS FOR CHILD DEVELOPMENT
1,1978--
JOSSEY-BASS
SAN FRANCISCO UNITED STATES
JOSSEY-BASS INC., 433 CALIFORNIA ST., SAN
FRANCISCO, CA 94104
IN PROCESS
N14443000
\$30.00

PEDIATRIA (S.PAULO)
1N1,MAR 1979--
SARVIER
SAO PAULO BRAZIL
SARVIER S/A EDITORA DE LIVROS MEDICOS,
CAIXA POSTAL 12.927 - 01000, V. MARIANA,
SAO PAULO, BRASIL
IN PROCESS
P06150000

PEDIATRICS IN REVIEW
1N1,JUL 1979--
AMERICAN ACADEMY OF PEDIATRICS
VOL.1 NO.1 PUBLISHED AS PART OF PEDIATRICS
VOL.64 NO.1 (JUL 1979).
EVANSTON IL UNITED STATES
AMERICAN ACADEMY OF PEDIATRICS,P.O. BOX
1034,EVANSTON IL 60204
IN PROCESS
P06684800
\$95.00

PRACTICAL GASTROENTEROLOGY
4N9, OCT 1980--
PHARMACEUTICAL COMMUNICATIONS
CONTINUES: PRIMARY CARE PHYSICIANS GUIDE TO
PRACTICAL GASTROENTEROLOGY.
LONG ISLAND CITY, UNITED STATES
N.Y.
PRACTICAL COMMUNICATIONS INC., 4215 CRESENT
ST, LONG ISLAND CITY 1, NEW YORK 11101
W1 PR141N
P21585000

PRIORITY ISSUES IN MENTAL HEALTH
1,1980--
REIDEL
DORDRECHT NETHERLANDS
ON ORDER
P25090000

PSYCHOANALYTIC INQUIRY
1981--
INTERNATIONAL UNIVERSITIES PRESS
NEW YORK NY UNITED STATES
ON ORDER
P54050000
\$42.00

RADIATION PROTECTION DOSIMETRY
1,1981--
NUCLEAR TECHNOLOGY PUBLISHING
ASHFORD KENT ENGLAND
NUCLEAR TECHNOLOGY PUBLISHING, P.O. BOX 7,
ASHFORD, KENT
ON ORDER
R00665000
\$75.00

RESPIRATORY CARE
1980?--
AMERICAN ASSOCIATION FOR RESPIRATORY THERAPY
CONTINUES RC. RESPIRATORY CARE
DALLAS TX UNITED STATES
IN PROCESS
R26430000

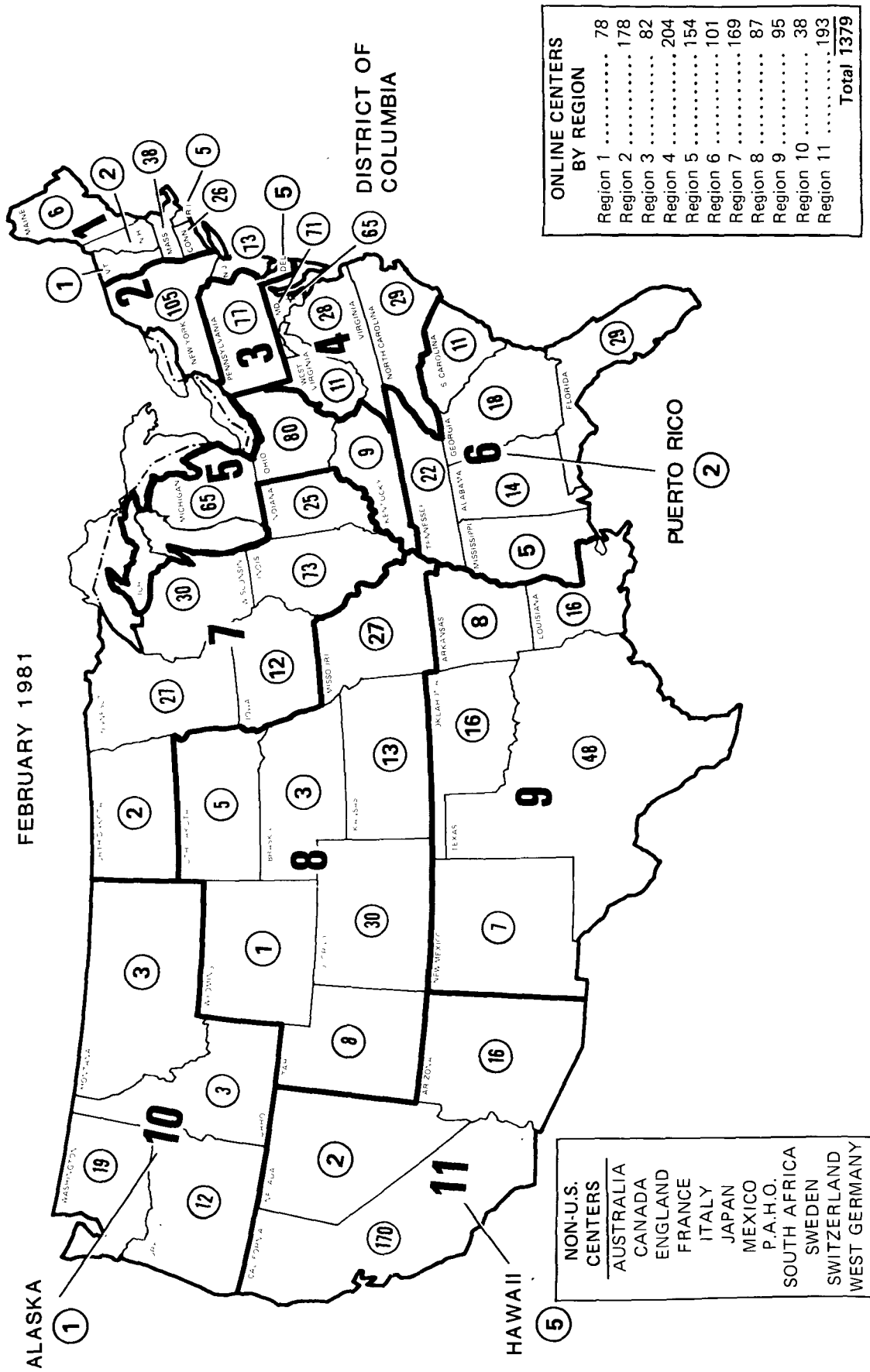
SOVIET PROGRESS IN VIROLOGY
1980--
ALLERTON PRESS
TRANSLATION OF VOPROSY VIRUSOLOGII.
NEW YORK UNITED STATES
150 5TH AVE, NY 10011
ON ORDER
S33570000
\$225.00

SURGICAL SCIENCE SERIES
1,1980--
PRAEGER
NEW YORK UNITED STATES
PRAEGER PUBLISHERS, 521 FIFTH AVE.,NEW
YORK, N.Y. 10017
W1 SU767LM
S48710000

UNEP REFERENCE SERIES
1,1979--
PERGAMON PRESS
OXFORD ENGLAND
IN PROCESS
U02075000

National Library of Medicine ONLINE CENTERS IN THE UNITED STATES

FEBRUARY 1981



NEW NLM CAPABILITY

SORT

WHAT? Offline prints/Offsearches in alphabetical or numerical order on data elements-author, journal title, and others

WHERE? NLM first--SUNY shortly after

WHEN? June 1981

HOW? SORT =
For details see page 5 of the NLM Technical Bulletin,
May 1981

THE NLM TECHNICAL BULLETIN

MAY 1981

NO. 145

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DATABASE	TOTAL RECORDS	DATES COVERED	DATE LAST UPDATED	LATEST UPDATE TAG
*AVLINE	9,800	THROUGH 1981	14 MAY 81	
*BIOETHICS	11,239	JAN 73-DEC 80	06 MAR 81	8103(EM)
*CANCERLIT	257,356	JAN 63-MAY 81	18 MAY 81	8105(EM)
*CANCERPROJ	20,626	1978-1980	07 MAY 81	8104(EM)
*CATLINE	209,225	THROUGH 1981	14 MAY 81	
CHEMLINE	484,383		20 APR 81	8103(EM)
*CLINPROT	2,445		23 APR 81	8104(EM)
*EPILEPSY	36,472	1945-PRESENT	20 OCT 80	
*HEALTH	174,681	JAN 75-JUN 81	11 MAY 81	8106(EM)
*HISTLINE	45,028		11 MAY 81	8105(EM)
MEDLINE	493,916	JAN 79-JUN 81	04 MAY 81	8106(EM)
#+MED77	511,005	JAN 77-DEC 78	15 DEC 80	
+MED75	642,953	JAN 75-DEC 76	15 DEC 80	
+MED72	669,106	JAN 72-DEC 74	15 DEC 80	
+MED69	668,257	JAN 69-DEC 71	15 DEC 80	
+MED66	501,801	JAN 66-DEC 68	15 DEC 80	
MESH VOC	39,422	1981	11 MAY 81	
*NAME AUTH	115,933		11 MAY 81	
*POPLINE	76,507	1970-MAY 81	11 MAY 81	8105(EM)
RTECS	45,156	1979 ED.-MAR 81	06 MAR 81	
SDILINE	23,118	JUN 81	04 MAY 81	
*SERLINE	37,247	1981	24 MAR 81	
TDB	3,037		04 MAY 80	
TOXLINE	479,654		27 MAR 81	8104(EM)
CBAC	242,162	1977-VOL 33(5,6,7)		
TOXBIB	79,464	1977-MAY 81		
IPA	19,869	1977-VOL 17(17,18,19,20,21,22)		
HEEP	55,134	1977-VOL 10(5)		
PESTAB	11,429	1977-VOL 14(4)		
EMIC	31,486	1960-APR 81		
ETIC	20,946	1950-MAR 81		
RPROJ	26,026	1978-JUN 81		
TD3	3,138	JAN/MAR 81		
+TOXBACK74	275,506		10 SEP 80	
CBAC	147,332	1974-1976		
TOXBIB	65,433	1974-1976		
IPA	17,582	1974-1976		
HEEP	37,198	1974-1976		
PESTAB	7,961	1974-1976		
+TOXBACK65	387,377		10 SEP 80	
CBAC	196,015	1965-1973		
TOXBIB	112,170	1968-1973		
IPA	21,973	1970-1973		
HEEP	29,662	1971-1973		
HAPAB	12,966	1966-1973		
HAYES	10,039	1940-1966		
TMIC	4,552	1971-1975		

1) * = NLM ONLY 2) + = AVAILABLE ONLY THRU OFFSEARCH

3) # = ALSO AVAILABLE ONLINE AT NLM ONLY.

NOTE: SEE ARTICLE ON PAGE 4 OUTLINING DATABASE CHANGES EFFECTIVE JUNE 1, 1981.

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TECHNICAL NOTES

Whenever applicable, the headings of each Technical Note will include a reference to the section of the NLM Online Services Reference Manual which is considered most relevant to the item being discussed (e.g., Manual 2.9). Users should keep in mind that the item may pertain to other sections of the Manual.

TDB UPDATE - The Toxicology Data Bank (TDB) file was updated at NLM and SUNY on May 4, 1981. There are now 2,241 full records and a total of 3,037 records in the database. A list of names of all 3,037 TDB records is available on written request from Toxicology Data Bank, Specialized Information Services, National Library of Medicine, Bethesda, MD 20209. Those users who have requested such lists in the past will automatically receive the new version.

CHEMLINE FILE REGENERATION (Manual 13.4) - The CHEMLINE file has been regenerated at both NLM and SUNY to contain 484,383 CAS Registry Number records. Several changes have been made in the unit record: Entry Month (EM) has been added; MeSH Headings (MH), Heading Fragment (HF), and the Locator (LO) value MEDLARS have been deleted. CAS Registry Numbers are being added to MEDLINE bibliographic records and are now identified in CHEMLINE by the new locator value MEDLINE. New locator values have been added for TOXBACK65 and TOXBACK74. Synonyms are now arranged alphabetically except that 8CI names dropped from the N1 field into the synonym field appear before all other synonyms listed.

Print formats for CHEMLINE now contain the elements shown in parentheses:

STANDARD (RN, ON, N1, LO)
 FULL (RN, ON, MF, N1, SY, LO)
 DETAILED (EM, RM, ON, MF, N1, SY, NR, RS, RE, CL, LO)

PAGESIZE MODIFICATIONS (Manual 4.9.17A) - Reminder: The length and width of your online page can be changed by using the PROFILE MODIFY PAGELength or PROFILE MODIFY PAGEWIDTH commands. Page length may vary from 10 to 100 lines between each CONTINUE PRINTING? (Y/N) message; page width may vary between 40 and 132 characters.

HISTLINE (Manual, 22.10 Appendix E) - The following geographic should be added to the list of searchable Geographic Areas (CY) in HISTLINE:

El Salvador

PLEASE TYPE NEWS TO SEE THE MOST RECENT NEWS ITEMS ONLINE

DATABASE AVAILABILITY CHANGES

Joseph Leiter, Ph.D., Associate Director for Library Operations, NLM

The National Library of Medicine is pleased to announce the following changes in the availability of its databases. Effective June 1, 1981, the MEDLINE users at SUNY will have MED77 and the HEALTH PLANNING & ADMINISTRATION files available to them online. This means that all users may take advantage of the SAVE/SAVESEARCH capability in searching these online databases. In order to improve access for the toxicology files user, all users (including those previously restricted to using the toxicology files at SUNY) will access TOXLINE, TOXBACK74, TOXBACK65, RTECS, TDB, and CHEMLINE at NLM only. Also, on June 1, NLM will enhance such access by making TOXBACK74 available online at NLM to all users. CATLINE, as well as the toxicology files, will be removed from the SUNY computer and made available to all users at NLM.

These changes have several advantages for searchers:

- (1) The SAVE/SAVESEARCH capability can be used to maximize effectiveness for searching MEDLINE, MED77, and the HEALTH PLANNING & ADMINISTRATION files.
- (2) All NLM databases (other than MEDLINE, its Backfiles, and HEALTH) will be available to all users at NLM. For example, all users will be able to search CHEMLINE, TOXLINE, TOXBACK74, RTECS, TDB, and the CANCERLINE files in the same search session.
- (3) Users previously restricted from using TOXLINE at NLM will now be able to request Automatic SDI service using that database.

The new availability is summarized on the chart below:

<u>NLM</u>	<u>SUNY</u>
<p>Online <u>MEDLINE*</u> MED77* SDILINE MESH VOCABULARY HEALTH PLANNING & ADMINISTRATION* AVLINE CATLINE SERLINE NAME AUTHORITY CHEMLINE TOXLINE TOXBACK74 TDB RTECS CANCERLIT CANCERPROJ CLINPROT EPILEPSY BIOETHICS HISTLINE POPLINE</p>	<p>OFFSEARCH only <u>MEDLINE Backfiles</u> 66 through 75*</p> <p>Online <u>MEDLINE</u> MED77 SDILINE MESH VOCABULARY HEALTH PLANNING & ADMINISTRATION</p> <p>OFFSEARCH only <u>MEDLINE Backfiles</u> 66 through 75</p> <p>(Note: <u>all</u> users now access the toxicology files at NLM.)</p> <p>TOXBACK65</p>

*SUNY-restricted user ID codes access these databases at SUNY only.

NEW SORT CAPABILITY

Lou S. Knecht, MEDLARS Management Section, NLM

OVERVIEW

The following article describes NLM's new capability for sorting offprints alphabetically. It will be implemented at NLM in June 1981 and shortly thereafter at SUNY. There will be no extra charge for sorted printouts, and the capability will be available on all databases except TDB and RTECS.

SORT functions as a prespecified keyword rather than a command. The user initiates the sort during the question-and-answer portion of an OFFSEARCH or offline PRINT command. The simplest of the three possible ways to use the sort is to enter one of the Precoded Sort format names (a list of these is included as Table A with this article) after a user prompt as follows:

```
PROG:
SEARCH TITLE, OR NONE-
```

```
USER:
SORT = AUTI
```

This example would result in the printout being sorted first on author, then on title, A through Z, then 0 through 9.

There are two other ways of sorting: Tailored Sort and Print Order Sort. All three are described in detail below. Citations also can be sorted in descending order (9 through 0, then Z through A). Sort instructions can be cancelled easily while still in the question-and-answer phase.

The offprint cover sheet will have a special message telling the user what (if any) sort format was used for that search.

Additional details on how the sort actually "works" are contained in the last section of the article, including punctuation rules, special delimiters in CATLINE/AVLINE, and sort restrictions for large retrievals.

INTRODUCTION

In June 1981, NLM expects to implement new software, to be known as ELHILL 3.2A, that supports the offline sorting of citation retrieval. ELHILL 3.2A is an enhancement of ELHILL 3.2 which was introduced in March 1980 and featured SAVESEARCH, SAVE, and PROFILE of the Unified User Specification File (UUSF). The present software architecture of ELHILL does not lend itself to sorting online. It is hoped that a future generation of this system will allow it. ELHILL 3.2A is the first step in that direction and is the result of a further collaborative effort between NLM and the British Library.*

*The ELHILL 3.2A software was developed by David L. Kenton, Office of Computer and Communications Systems, NLM, and Fred Bone, BLAISE, British Library.

It allows a user to request that records being printed offline (offline prints and OFFSEARCHes) be sorted by particular fields, for example, Author (AU) and Title (TI). This capability will be available for all the ELHILL databases except RTECS and TDB. The structure of these two databases precludes sorting.

WHAT IS SORT

Sorting is simply the alphabetizing of output. The user selects both the data element(s) to be sorted upon and the direction of the sort(s).

Data Element Options

The three ways to select data elements for a sort are categorized as follows:

1. Precoded Sort - NLM has stored a series of standardized sort formats with names (known across databases) that are similar to the PRINT format names of FULL, DETAILED, etc. See Table A;
2. Tailored Sort - A user may specify a list of up to five (5) element mnemonics, and a direction for each;
3. Print Order Sort - The system will sort on the elements in the order that they appear on the offline print as dictated by the PRINT OFFLINE command or PRINTSPECS? answer in OFFSEARCH.

Direction -- ASCENDING or DESCENDING

The direction of a sort can be either ASCENDING, which is A-Z followed by 0-9, or DESCENDING, which is 9-0 followed by Z-A. The direction is always assumed to be ASCENDING, and therefore, the word ASCENDING need not be specified. However, if you want the direction to be DESCENDING, you must include that word in the sort statement. This will be illustrated in the following sections. Legal abbreviations for these directions are DESC or D for DESCENDING, and ASC or A for ASCENDING.

Sorting will override the default (or standard) order of citation printing which is reverse chronological order by entry into the system, or "last citation entered is the first citation printed."

HOW TO REQUEST A SORT

You will never be prompted to enter a sort; rather, you must initiate the sort instruction by entering the 'SORT =' keyword at any point in the question-and-answer phase of an OFFSEARCH or an offline PRINT command. NLM recommends entering the 'SORT =' keyword in response to either the REQUESTER'S NAME, OR SAME- prompt or the SEARCH TITLE, OR NONE- prompt. The system will never give a confirmation that the SORT instruction was received; it will only re-prompt for an answer to the question that you did not yet answer. The system may give you an error message in certain cases, e.g., if a Precoded Sort name was used that is not defined for the database selected for the search. The 'SORT =' keyword works like any other prespecification keyword you may have used in the past, e.g., 'LIMIT ='; 'NAME ='; 'CITSTAZIP ='. The following is a generalized summary of the 'SORT =' keyword:

1. Precoded Sorts:

`SORT = format name`

`SORT = AUTI`

Citations are to be sorted on the data elements included under the sort format name. Here, AUTI is a Precoded Sort which ELHILL 3.2A knows to be equivalent to 'SORT = AU, TI' for MEDLINE.

`SORT = format name, DESCENDING`

`SORT = AUTI, DESCENDING`

The word DESCENDING means that the sort is to be in reverse direction for each data element in the format. Here, AU would sort from 9-0 and then from Z-A, and TI would also.

Notes

See Table A for a list of NLM Precoded Sorts.

Precoded Sort formats are good to use when searching dissimilar files. They have been standardized to account for differences in database structures. For example, if you search both CANCERLIT and CANCERPROJ in OFFSEARCH and specify 'SORT = AUTI', the system interprets that sort format name to mean Author (AU) , Title (TI) for CANCERLIT but Investigator (IR), Title (TI) for CANCERPROJ since the latter does not have an Author (AU) field. In other words, a Precoded Sort format name represents a concept across all databases for which it is defined and not necessarily the same data elements that compose the sort format name.

Direction for a Precoded Sort applies to each element in the sort format.

2. Tailored Sorts:

`SORT = elem1, elem2,...elem5`

`SORT = LA, AU, TI`

Citations are to be sorted on the named elements in the exact order as listed. Here the first sort is on language and if many citations have the same LA, then the second sort is on author; if several citations have the same LA and the same AU occurrences, then the third sort is on title of the article.

`SORT = elem1, DESCENDING, elem2,
elem3, DESCENDING,...elem5`

`SORT = LA, DESCENDING,
AU, TI, DESCENDING`

The word DESCENDING means that the sort is to be in reverse order for the immediately preceding element. Here LA and TI would sort from 9-0 and then from Z-A, but AU would sort from A-Z and then from 0-9.

Notes

Up to 5 data elements may be listed in a Tailored Sort.

Each element may have a direction specified but each direction applies only to the immediately preceding data element.

Commas are mandatory between data elements but optional between an element and its direction, e.g.: 'SORT = LA DESCENDING, AU, TI DESCENDING'.

3. Print Order Sorts:

`SORT = PRINT`

Citations are to be sorted on the elements implied in the PRINT OFFLINE command or those listed in an OFFSEARCH PRINTSPECS. If you use the name of a PRINT format for PRINTSPECS (STANDARD, FULL, etc.), the elements used would be taken from the PRINT format in the order that they print out for each database. If you specify 'PRT OFFLINE AR' for MEDLINE, then the sort would be on AU, TI, and AB in that order. SO would not be considered because it is not stored in the unit record as a data element but made up of 5 other elements. Additional data elements not stored in the MEDLINE record and therefore not sortable include YR (Year) and MN (MeSH Tree Number).

`SORT = PRINT, DESCENDING`

Citations are to be sorted on the PRINT OFFLINE command elements or the PRINTSPECS fields in the order that they print out, but in reverse direction. If you specify 'PRT OFFLINE AR' for MEDLINE, then the sort would be on AU, TI, and AB but in DESCENDING order on each. Again, since SO is a data element conglomerate made up of 5 other data elements, it is not used in the sort.

Notes

`SORT = PRINT` is good to use for an OFFSEARCH sort if you have responded with a PRINT format name (STANDARD, FULL, etc.) to PRINTSPECS and you are searching dissimilar files.

PRINT may be abbreviated as PRT.

If a PRINT format contains more than 5 elements, only the first 5 are used.

Direction in a Print Order Sort applies to all data elements used by the system for the sort.

HOW TO CANCEL A SORT

There are three ways to cancel a sort instruction without cancelling the offline print as long as you are still in the question-and-answer phase. You may enter a second 'SORT =' instruction that will override the first. You may enter 'SORT = NONE', or 'SORT = CANCEL'. The latter two negate a previously entered sort instruction. Not entering any sort keyword will, of course, result in your retrieval being printed in the default order of "last citation in is the first citation out."

OFFPRINT COVER SHEET

Your offline prints will have a new look with the implementation of ELHILL 3.2A. The cover sheet will have a special sort message appearing under the standard database message 'THIS SEARCH WAS PERFORMED ON THE XXXX FILE'. There are four possible variations of this sort message:

- 1) 'SORT = SORT FORMAT ('AUTI'), (ASCENDING) WAS SPECIFIED' for the Precorded Sort name AUTI.
- 2) 'SORT = (ELEMENTS/DIRECTIONS GIVEN BY USER) WAS SPECIFIED' for a Tailored Sort requested by the user. Note that the message will not say what the elements were. For this reason, NLM recommends that you include the sort information in your search title if you need to know it, e.g.: HOLISTIC HEALTH SORTED BY LA, AU, TI. Warning: Do not use 'SORT =' in your title; the computer will interpret it as another sort instruction.
- 3) 'SORT = PRINT ('FULL'), (ASCENDING) WAS SPECIFIED' for the Print Order format sort of PRT FU OFFLINE or FU in response to OFFSEARCH PRINTSPECS.
- 4) 'SORT WAS NOT REQUESTED' for no sort or a cancelled sort.

OTHER ITEMS OF INTEREST

Other tidbits about SORT that may interest you are the following:

- 1) All lowercase letters are converted to uppercase before sorting.
- 2) All punctuation is converted to spaces. A space is an actual character and files before nothing. Punctuation that begins a field is converted to a space and then the field is left-justified so that it sorts correctly. This permits foreign titles with brackets in MEDLINE to file correctly with English titles.
- 3) If a data element specified for a SORT is not contained in a record, then the SORT program sets the value for that missing element to be a space. That space causes all records without the data element to file before records with the data element. For example, 'SORT = AUTI' will result in all anonymous article records (i.e., those with no AU field) to file in alphabetical order by TI (Title) before the alphabetical sort by author on those records with an AU field(s). If the sort is DESCENDING, then records missing the element will file last.
- 4) The sort key used by the system consists of up to 100 characters of data taken from the specified data elements. If one of the data elements has multiple occurrences (e.g., multiple authors), all occurrences are considered for the sort before moving on to the next data element, or until the 100 characters of data allowed are used up. Therefore, if you specify five data elements for a sort but the first three take up the allowed 100 characters, then the last two data elements will not function in the sort.
- 5) If a data element stored in the unit record consists of several sub-elements, only the first subelement is used for the sort. For example, Initial Year (Y1) in CATLINE consists of two subelements - a code for type of date and the actual date. Since the format is Y1 - S:1976, a sort on Y1 would file alphabetically by the code for type of date (in this case S for single year), since it is the first subelement, and not on the actual date.

- 6) In databases that use filing delimiters (i.e., CATLINE and AVLINE), the sort obeys the delimiter. For example, in the title THE!HEART, the ! is a filing delimiter causing the sort to be performed on Heart, not The.
- 7) You cannot merge a Tailored Sort with a Precoded one. In other words, you cannot say: 'SORT = AUTI, LA D'. You must say: 'SORT = AU, TI, LA, D'. (Reminder: The D refers to LA only in this example.)
- 8) The implicit last data element in any sort is the date of entry into the system or "last in, first out" rule. This is an "extra" sort and is not counted as one of the allowable five data elements. For example, SORT = LA would result in many citations having the same sort key, e.g., ENG. All citations with ENG as the language would then be sorted by the "last in, first out" rule.
- 9) If an OFFSEARCH retrieves more records in a particular database than will be printed (i.e., more than 500 or more than the number you specify for 'LIMIT ='), no sorting will be performed for that database only. For example, suppose you specify 'LIMIT = 200' for an OFFSEARCH against TOX74 and also specify 'SORT = AUTI'. If the postings retrieved for TOX74 are 201 (or more), ELHILL 3.2A will not sort the citations, but it will print the first 200 in "last in, first out" order. However, the SORT message on the offprint will not indicate that the sort was not performed. Your only clue (besides the fact that the printout is noticeably not sorted) is the truncation message "PRINT TRUNCATED AT 500", or the LIMIT message "PRINT LIMITED BY USER TO XXX".
- 10) A citation can file in only one spot, e.g.: AU - Albee AJ; Jones C will sort only in the A's for Albee and not also in the J's for Jones.
- 11) The SORT capability supplied by ELHILL 3.2A should not be thought of as the all-encompassing sort of a publication such as Index Medicus or British National Bibliography. It could not have all the logic of a publication sort system, such as the generation of common sort versions for names like McArthur and Macarthur. However, CATLINE and AVLINE do include some sort versions stored as subelements in certain data elements like the Title (TI). If a Sort Version subelement is present in a field, then ELHILL 3.2A uses that Sort Version in its own sort. For example, the field 'TI - Abstracts, 12th International Cancer Congress' in CATLINE has a stored Sort Version so that '12th' is seen by the computer as 'twelfth' and the alphabetization will be "Abstracts t...", not "Abstracts 1..." Also, ELHILL 3.2A is a character-by-character sort, and not a decimal sort. For example, the number 11 (eleven) would file before the number 9 (nine) because the first character of eleven is a 1 and that will file before a 9.
- 12) Although it is not required, you may wish to print the data elements on which you are sorting so that the alphabetical order of the printout is easier to see at a glance.

FUTURE ANNOUNCEMENTS

NLM is pleased and proud to bring you this new capability. Watch for a broadcast and online NEWS note for the announcement of the exact date that you can

begin to sort your printouts at NLM, and later at SUNY. You will be able to type 'EXPLAIN SORT' as an online aid for a description of sorting on ELHILL 3.2A. Manual pages will be mailed at a later date. A sample of SORT and the list of Precoded Sort names follow this article.

NLM will be making its new SORT capability available for the Automatic SDI Program (SDILINE, TOXLINE, AND CANCERLIT) in the near future. Information about this capability will be in a later issue of the NLM Technical Bulletin.

Your comments and suggestions on SORT are welcomed.

TABLE A
AVAILABLE PRECODED SORT NAMES

<u>NAME</u>	<u>MEANING</u>	<u>DATABASES*</u>
AUTI	Author/Title	All except CHEMLINE, MESH, SERLINE
CALL	Call Number	AVLINE, CATLINE, SERLINE
JNL	Journal Part	All except AVLINE, CANCERPROJ, CATLINE CHEMLINE, CLINPROT, MESH, NAME AUTHORITY
LADA	Language/Date	All except BIOETHICS, CANCERPROJ, CHEMLINE CLINPROT, HISTLINE, MESH
PERF	Performing Organization	CANCERPROJ, CLINPROT
PRTV	Print Version	MESH
PUBT	Publication Type	BIOETHICS, CANCERLIT
PUTI	Publisher/Title	SERLINE
REGN	Registry Number	CHEMLINE
SOID	Secondary Source ID	POPLINE, TOXLINE
SPLI	Special List	SERLINE
SUPP	Supporting Agency	CANCERPROJ
TIAU	Title/Author	All except CHEMLINE, MESH, SERLINE

*RTECS and TDB excepted

SS 1 /C?
 USER:
 (tw) holistic or wholistic or wellness

PROG:
 SS (1) PSTG (133)

SAMPLE SEARCH ILLUSTRATING SORT

SS 2 /C?
 USER:
 1 or holistic health

PROG:
 SS (2) PSTG (196)

SS 3 /C?
 USER:
 prt offline

PRECODED SORT EXAMPLE

PROG:
 REQUESTER'S NAME, OR SAME-

USER:
 dr. hill

PROG:
 SEARCH TITLE, OR NONE-

← Search title prompt

USER:
 sort = jnl

← SORT keyword using name for a Journal Part sort from Table A

PROG:
 SEARCH TITLE, OR NONE-

← Search title prompt again

USER:
 holistic health

Note: Precoded Sort name will appear on cover sheet

PROG:
 OK? (Y/N/C/ADDRESS)

USER:
 Y

PROG:
 OFF-LINE-PRINT COMPLETED.

TAILORED SORT EXAMPLE

SS 3 /C?
 USER:
 prt offline include la

← Language included in printout

PROG:
 REQUESTER'S NAME, OR SAME-

USER:
 dr. roth

PROG:
 SEARCH TITLE, OR NONE-

← Search title prompt

USER:
 sort = la, au, ti

← SORT keyword using language, author, and title fields -- all in ascending order

PROG:
 SEARCH TITLE, OR NONE-

← Search title prompt again

USER:
 holistic health with sort of la, au, ti

← Tailored Sort elements will not appear on cover sheet; you may wish to include in search title

PROG:
 OK? (Y/N/C/ADDRESS)

USER:
 Y

PROG:
 OFF-LINE-PRINT COMPLETED.

AACR 2 UPDATE: CATLINE, AVLINE, AND NAME AUTHORITY FILE
 Sally K. Sinn, Cataloging Section, NLM

The NLM Cataloging Section began implementation of the Anglo-American Cataloging Rules, 2nd edition, 1978 (AACR 2) for all cataloging added to CATLINE and AVLINE after January 2, 1981. Citations in CATLINE and AVLINE with a Date of Entry (DA) of 810101 or later are in conformance with AACR 2 for description and access points, with the exception of a very few pre-AACR 2 serial records that were still in-process on January 1, 1981. Citations for Cataloging-in-Publication (CIP) items that were updated to Revised CIP status after January 1, 1981 also reflect AACR 2 cataloging. These Revised CIPs are identified by a Major Revision Date (MR) of 810101 or later. All other bibliographic records entered in CATLINE or AVLINE before AACR 2 implementation have descriptive cataloging based on pre-AACR 2 rules. The name headings on these records are being changed when the name is reused or when the name recurs in current AACR 2 cataloging, but there will be no total database conversion to AACR 2 at this time.

The name headings for main and added entries used in AACR 2 cataloging are in the online Name Authority File (NAF). However, a NAF record for a personal name is not added to the NAF until the name occurs a second time in a cataloging record. All new NAF records established under AACR 2 rules are identifiable by the DA of 810101 or later, as in bibliographic records. Names already established in the NAF prior to implementation of AACR 2 are reviewed for AACR 2 compatibility at the time they are needed in current cataloging. If the name as established is compatible with the AACR 2 rules for formulation of name headings, or has been modified to be compatible, a General Note (GN) is added to the NAF record to indicate that the heading has been reviewed and/ or modified. NLM is following the Library of Congress (LC) guidelines for determining whether established names are AACR 2 "pure" or AACR 2 "compatible." (See Library of Congress' Cataloging Service Bulletin, no. 6, fall 1979, pp.5-15 and the forthcoming Notes for Medical Catalogers section of National Library of Medicine Current Catalog, quarterly issue, Jan.-Mar. 1981). The following examples show a new heading established after January 1, 1981 and two headings reviewed for AACR 2 compatibility. Each of these examples shows the valid AACR 2 form of heading determined by the new rules and the LC interpretations for their application.

1
 NA - Yale University. Medical Library
 NE - YALE/UML
 NT - CORPORATE NAME
 FN - NAME (DIRECT ORDER)
 SO - Joint periodicals list. 1980.
 RG - O:SYM
 RO - C:AMB
 RR - T:PT2
 DA - 810210 ← NEW HEADING
 LA - Ens

```

:
NA - Anguera, Donna Conant
NT - PERSONAL NAME
FN - SINGLE SURNAME
SQ - Psychiatric nursing. 1978.
RO - O:MED
RC - C:MED
RO - M:PTE
DA - 741223
LR - 810423
GN - **AACR2 compatible/1f

```

← REVIEWED HEADING

```

:
NA - World Federation of Nuclear Medicine and Biology
NE - WORL/FONMAB
NT - CORPORATE NAME
FN - NAME (DIRECT ORDER)
BX - Federation mondiale de medecine et biologie
    nucl:aire:4:FEDE/MDMEBN
SQ - Frontiers in nuclear medicine. 1980.
RO - O:ESB
RO - C:SFS
RO - T:PTZ
RO - M:VET
DA - 810204
LR - 810205
LA - Eng
GN - **AACR2/esb (OCLC-LC name authorities)

```

← REVIEWED HEADING

There are some series records in the NAF for which a final decision on the AACR 2 form has not been made even though the series title has been used in AACR 2 records. The accepted AACR 2 form will depend upon implementation of LC's guidelines for formulation of serial and series headings under AACR 2. These records for "made, classed together" and "made, classed separately" series in the NAF contain the information "**AACR 2 deferred" in the GN field to indicate that NLM has not yet changed the form of series to AACR 2.

As existing records for names and series are changed in the NAF for AACR 2 rules, the corresponding headings in CATLINE and AVLINE records are being changed. In some cases, the maintenance required to the bibliographic records is quite extensive, as in some monographic series with a large number of analyzed issues, and the maintenance has not yet been done in CATLINE or AVLINE. However, all bibliographic records requiring a change in a name or series heading for AACR 2 will be modified as time permits.

INITIAL AND ADVANCED SPECIAL CLASSES

Final arrangements have been made for special 3-day Initial and Advanced Online Services Training courses for backup searchers in five additional Regions. These courses will include all the lectures, discussions, and demonstrations of the standard Initial and Advanced Training curricula; the Initial course will also include an overview of some additional databases not usually included in the course. There will be no hands-on terminal exercises.

The classes will be held:

Jun 29-Jul 1, 1981	Initial	Region 5, Detroit, MI
Jul 13-15, 1981	Advanced	Region 1, Boston, MA
Aug 19-21, 1981	Advanced	Region 2, New York, NY
Sep 9-11, 1981	Initial	Region 3, Philadelphia, PA
Jan 19-21, 1982	Initial	Region 6, Atlanta, GA

Application forms may be obtained by calling or writing MEDLARS Management Section (301/496-6193). Please indicate which course you would like to attend. Registration in all Regions except Region 5 is limited to 50 individuals, one per institution, although additional persons from an institution may be scheduled if space permits. Enrollment in the Region 5 class is limited to 30 persons. All applications will be processed in order of receipt.

Users are reminded of previously announced special 3-day courses also being offered in various locations. These are:

Jul 8-10, 1981	Initial	Region 8, Omaha, NB
Aug 18-20, 1981	Initial	Region 7, Chicago, IL
Sep 16-18, 1981	Initial	Region 9, Dallas, TX
Oct 14-16, 1981	Initial	Region 4, Bethesda, MD
Dec 2-4, 1981	Initial	Region 4, Bethesda, MD

These courses have been approved by the Medical Library Association (MLA) for 21 contact hours toward MLA recertification requirements.

NEW SERIALS ANNOUNCEMENT - APRIL 1981
 Serial Records, Technical Services Division, NLM

The following substantive serial titles were received or ordered by the Serial Records Section. IM to the left of the title indicates that the title appears in Index Medicus. ON ORDER, IN PROCESS, or an actual NLM call number appears at the bottom of the entry. Please include the NLM call number on interlibrary loan requests. Of course, NLM cannot fill loans for titles not yet received by the Library. The list is offered as an early announcement and will include price information if known. Information provided is not authorized NLM cataloging data. For further information, contact Ms. Janice Lennox, 301/496-1276, Technical Services Division, NLM.

ADVANCES IN PERINATAL MEDICINE
 1,1981--
 PLENUM MEDICAL BOOK COMPANY
 NEW YORK UNITED STATES
 PLENUM PUBLISHING CORPORATION, 227 WEST
 17TH STREET, NEW YORK, N.Y. 10011
 IN PROCESS
 A14945000

AQUATIC TOXICOLOGY
 1,1981--
 ELSEVIER/NORTH-HOLLAND
 NEW YORK UNITED STATES
 ON ORDER
 A58125150

BEHAVIORAL GROUP THERAPY
 1979--
 RESEARCH PRESS
 CHAMPAIGN IL UNITED STATES
 RESEARCH PRESS, BOX 317750, CHAMPAIGN, IL
 61820
 ON ORDER
 B02370000
 \$39.95

BREAST CANCER RESEARCH AND TREATMENT
 1,1981--
 MARTINUS NIJHOFF
 HAGUE NETHERLANDS
 ON ORDER
 B33379000
 \$77.50

CLINICS IN CRITICAL CARE MEDICINE
 1,1980--
 CHURCHILL LIVINGSTONE
 EDINBURGH SCOTLAND
 CHURCHILL LIVINGSTONE INC, 19 WEST 44TH
 STREET, NEW YORK, N.Y 10036
 IN PROCESS
 C27375000

COMPENDIUM DE INVESTIGACIONES CLINICAS
 LATINOAMERICANAS
 IN1,SEP/OCT 1980--
 INTERSISTEMAS
 MEXICO CITY MEXICO
 INTERSISTEMAS, S.A.DE C.V., FERNANDO
 ALENCASTRE NO. 110, MEXICO 10, D.F.
 IN PROCESS
 C33935000

DERMATOLOGIE DU PRATICIEN
 1,1980--
 SPPIF
 VINEUIL FRANCE
 ON ORDER
 D05810000
 \$37.00

DISORDERS OF HUMAN COMMUNICATION
 1,1980--
 SPRINGER-VERLAG
 WIEN AUSTRIA
 IN PROCESS
 D16424000

EYE AND HEARING
 1,1980--
 WILLIAM AND WILKINS
 BALTIMORE UNITED STATES
 ON ORDER
 E20070000
 \$40.00

FAMILY PRACTICE RESEARCH JOURNAL
 1,1981--
 HUMAN SCIENCES PRESS
 NEW YORK UNITED STATES
 ON ORDER
 F01095000
 \$45.00

IM FORTSCHRITTE DER NEUROLOGIE PSYCHIATRIE
 49,1981--
 GEORG THIEME VERLAG
 CONTINUES: FORTSCHRITTE DER
 NEUROLOGIEPSYCHIATRIE UND IHRER
 GRENZGEBIETE.
 STUTTGART GERMANY, WEST
 IN PROCESS
 F12310000

JOURNAL OF AUTONOMIC PHARMACOLOGY
 IN1,NOV 1980--
 GALEN PRESS
 NORTH FERRIBY ENGLAND
 HUMBERSIDE
 GALEN PRESS, P.O. BOX NO. 2, NORTH FERRIBY,
 N. HUMBERSIDE HU14 3AA, UNITED KINGDOM
 ON ORDER
 J13790000

NLM TECHNICAL BULLETIN - MAY 81

- JOURNAL OF CEREBRAL CIRCULATION AND METABOLISM
1,1981--
RAVEN PRESS
NEW YORK UNITED STATES
ON ORDER
J15570000
\$105.00
- JOURNAL INTERNATIONAL DE MEDECINE
1N1,OCT 1979--
SOCIETE D EDITION ET DE PRESSE
INTERNATIONALE MEDICALE
PARIS FRANCE
ON ORDER
J24587000
- IM JOURNAL OF PARENTERAL SCIENCE AND TECHNOLOGY
35,1981--
PARENTERAL DRUG ASSOCIATION
CONTINUES JOURNAL OF THE PARENTERAL DRUG
ASSOCIATION.
PHILADELPHIA UNITED STATES
IN PROCESS
J33850000
- MACROMOLECULAR CHEMISTRY AND PHYSICS
182N1,JAN 1981--
HUTHIG UND WEPF VERLAG
CONTINUES MAKROMOLEKULARE CHEMIE.
BASEL SWITZERLAND
IN PROCESS
M00325000
- MEDIGUIDE TO ONCOLOGY
1,1981--
DELLACORTE PUBLICATIONS
NEW YORK UNITED STATES
DELLACORTE PUBLICATIONS INC., 767 LEXINGTON
AVE, NEW YORK 10021
IN PROCESS
M23630000
- METHODS IN HEMATOLOGY
1,1980--
CHURCHILL LIVINGSTONE
NEW YORK UNITED STATES
CHURCHILL LIVINGSTONE, 19 WEST 44TH STREET,
NEW YORK, N.Y. 10036
W1 ME9615L
M32580000
- IM OPHTHALMIC AND PHYSIOLOGICAL OPTICS
1981--
PERGAMON
CONTINUES BRITISH JOURNAL OF PHYSIOLOGICAL
OPTICS.
OXFORD ENGLAND
ON ORDER
007825000
- IM PHARMACOPSYCHIATRIA
14N1,1981--
GEORG THIEME VERLAG
CONTINUES PHARMAKOPSYCHIATRIE
NEURO-PSYCHOPHARMAKOLOGIE.
STUTTGART GERMANY, WEST
IN PROCESS
P11510000
- RIVISTA DI PEDIATRIA PREVENTIVA E SOCIALE
NIPIOLOGIA
30,1980--
EDIZIONI MINERVA MEDICA
CONTINUES MINERVA NIPIOLOGICA.
TORINO ITALY
IN PROCESS
R51931000
- SEMINARS IN NEPHROLOGY
1,1981--
GRUNE AND STATTON
NEW YORK UNITED STATES
ON ORDER
S19266000
- IM ZEITSCHRIFT FUR KINDERCHIRURGIE
31N1,SEP 1980--
HIPPOKRATES VERLAG
CONTINUES ZEITSCHRIFT FUR KINDERCHIRURGIE
UND GRENZGEBIETE.
STUTTGART GERMANY, WEST
IN PROCESS
Z03850000

THE NLM TECHNICAL BULLETIN

JUNE 1981

NO. 146

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TELENET TERMINAL IDENTIFIERS	

DATABASE	TOTAL RECORDS	DATES COVERED	DATE LAST UPDATED	LATEST UPDATE TAG
*AVLINE	9,889	THROUGH 1981	12 JUN 81	
*BIOETHICS	11,846	JAN 73-FEB 81	05 JUN 81	8106(EM)
*CANCERLIT	260,296	JAN 63-JUN 81	22 JUN 81	8106(EM)
*CANCERPROJ	20,626	1976-1981	07 MAY 81	8104(EM)
*CATLINE	210,314	THROUGH 1981	12 JUN 81	
*CHEMLINE	492,292		01 JUN 81	8105(EM)
*CLINPROT	2,455		23 APR 81	8104(EM)
*EPILEPSY HEALTH	36,472 177,810	1945-PRESENT JAN 75-JUL 81	20 OCT 80 15 JUN 81	8107(EM)
*HISTLINE	45,028		11 MAY 81	8105(EM)
MEDLINE	519,942	JAN 79-JUL 81	08 JUN 81	8107(EM)
MED77	511,005	JAN 77-DEC 78	15 DEC 80	
+MED75	642,953	JAN 75-DEC 76	15 DEC 80	
+MED72	669,106	JAN 72-DEC 74	15 DEC 80	
+MED69	668,257	JAN 69-DEC 71	15 DEC 80	
+MED66	501,801	JAN 66-DEC 68	15 DEC 80	
MESH VOC	40,054	1981	15 JUN 81	
*NAME AUTH	116,371		15 JUN 81	
*POPLINE	77,352	1970-JUN 81	15 JUN 81	8106(EM)
*RTECS	47,217	1979 ED.-APR 81	12 JUN 81	
SDILINE	26,027	JUL 81	08 JUN 81	
*SERLINE	37,573	1981	19 MAY 81	
*TDB	3,037		04 MAY 80	
*TOXLINE	491,555		01 JUN 81	8105(EM)
CBAC	248,835	1977-VOL 33(8,9)		
TOXBIB	81,372	1977-JUN 81		
IPA	19,869	1977-VOL 17(17-22)		
HEEP	56,210	1977-VOL 10(6)		
PESTAB	11,724	1977-VOL 14(5)		
EMIC	31,486	1960-APR 81		
ETIC	20,946	1950-MAR 81		
RPROJ	26,865	1978-JUL 81		
TD3	4,248	JAN/MAY 81		
*TOXBACK74	275,506		10 SEP 80	
CBAC	147,332	1974-1976		
TOXBIB	65,433	1974-1976		
IPA	17,582	1974-1976		
HEEP	37,198	1974-1976		
PESTAB	7,961	1974-1976		
+TOXBACK65	387,377		10 SEP 80	
CBAC	196,015	1965-1973		
TOXBIB	112,170	1968-1973		
IPA	21,973	1970-1973		
HEEP	29,662	1971-1973		
HAPAB	12,966	1966-1973		
HAYES	10,039	1940-1966		
TMIC	4,552	1971-1975		

1) * = NLM ONLY

2) + = AVAILABLE ONLY THRU OFFSEARCH

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TECHNICAL NOTES

Whenever applicable, the headings of each Technical Note will include a reference to the section of the NLM Online Services Reference Manual which is considered most relevant to the item being discussed (e.g., Manual 2.9). Users should keep in mind that the item may pertain to other sections of the Manual.

HISTLINE - The following geographics should be added to the list of (Manual 22.10, searchable Geographic Areas (CY) in HISTLINE: Appendix E)

French Guiana
Saudi Arabia

SATURDAY HOURS - NLM has been forced to delay implementation of Saturday hours AT NLM because of software problems. As soon as the problems are resolved, users will be notified.

TELEPHONE - Appendix A is a list of available telephone numbers used to NUMBERS access the NLM and SUNY computers.

PLEASE TYPE NEWS TO SEE THE MOST RECENT NEWS ITEMS ONLINE

PRICE INCREASE ANNOUNCED

Joseph Leiter, Ph.D., Associate Director for Library Operations, NLM

On the advice of the NLM Board of Regents, connect hour charges for online access to NLM's databases will be increased effective October 1, 1981. The increase of \$7 per connect hour will allow NLM to recover operating costs associated with providing the online service. Charges for offprint pages will not change. A summary of the new charges follows.

	<u>Each Hour of Computer Connect Time</u>	
	<u>Nonprime</u>	<u>Prime</u>
MEDLINE and databases other than toxicology-related files	\$15	\$22
TOXLINE, TOXBACK74, TOXBACK65	\$28 (includes royalty charges of \$13)	\$35 (includes royalty charges of \$13)
CHEMLINE	\$52 (includes royalty charges of \$37.64)	\$59 (includes royalty charges of \$37.64)

USING TOXLINE AT NLM

Carolyn G. McHale, Jeanne C. Goshorn, Williamina Himwich, Ph.D.
Specialized Information Services, NLM

Several recent changes in online systems and resources at NLM have improved access to TOXLINE and its backfiles. All MEDLARS users may now use the TOXLINE, TOXBACK74, and TOXBACK65 files at NLM. This availability offers several significant advantages to the TOXLINE user community:

TOXLINE and TOXBACK74 are online
SAVE/SAVESEARCH capability can be used across TOXLINE, TOXBACK74
SORT capability can be used in OFFSEARCH and OFFLINE printing
SDI searches against TOXLINE may be submitted to MMS for all users.

As part of the redistribution of resources between NLM and SUNY, TOXBACK74 is now online at NLM. Its 275,506 records, which have had most duplicate citations removed, are now available for interactive searching. This will allow refinement of searching and more immediate access to literature from an expanded number of publication years.

Since TOXLINE and TOXBACK74 are both online, the SAVE/SAVESEARCH capability (see Section 4.9.22 in the NLM Online Services Reference Manual) can be used to conduct efficient searches across both files. When a search is required of TOXLINE and both backfiles, the user can execute an OFFSEARCH against all three files. The search should be entered while in TOXLINE, requesting the postings option (PSTG), thus allowing the user to check for relevance and completeness of the search strategy.

The new SORT capability (see NLM Technical Bulletin, May 1981, No. 145, page 5) which allows offline sorting of records at the user's initiation, offers several potential advantages to TOXLINE searchers. The precoded sort of Author, Title (AUTI) is particularly useful for grouping duplicate citations that occur due to the subfile structure of TOXLINE. Because of the variable format of the Source (SU) field in TOXLINE, a sort on this field has limited use. However, if a sort based on source fields is desired in a search across MEDLARS files, the precoded sort of JNL must be used. TOXLINE users are also cautioned about requesting a sort on a multiply occurring data element. For example, in a sort on the Registry Number (RN) in TOXLINE, all output records with a given RN may not sort together because the position of the given Registry Number in the RN field can vary from record to record. For example, it could be the first Registry Number in the RN field in one record and the fourth in another.

Since all searches on the TOXLINE file are now done at NLM, this allows all users the possibility of an automatic search run on the current month's update similar to the automatic searches on SDILINE. The search may be stored on the NLM computer using the procedure outlined beginning at Section 5.6 in the NLM Online Services Reference Manual. This search service is initiated by submitting an Automatic SDI request form included in the Online Services Reference Manual (following Section 5.12). The searches are designated by an alphanumeric tag that indicates the file to be searched and the printout format to be used (see the request form). The printout is mailed monthly to the address and name given on the request form. A convenient way to maintain an ongoing file on a given topic is to request both an SDILINE and a TOXLINE search covering the topic. The TOXLINE search strategy in this case should exclude TOXBIB in order to reduce duplication of citations.

RTECS REPRODUCTIVE EFFECTS TOXICITY DATA
Jeanne C. Goshorn, Specialized Information Services, NLM

As announced in an earlier article on toxic effects data in RTECS (NLM Technical Bulletin, March 1981, No. 143, page 4), the National Institute of Occupational Safety and Health (NIOSH) has expanded its reporting of reproductive effects found in mammalian toxicity studies. In order to make some of this information accessible to the online searcher, additional toxic effects terms for searching index strings have been added to TABLE III in the RTECS chapter of the NLM Online Services Reference Manual (Part 14.4.11).

A study reporting reproductive effects will include both 'toxic effects' and 'reproductive' in the index string for the record. In addition, seven specific types of reproductive information will be searchable. Toxicity data index string terms for these are:

Paternal
Maternal
Fertility
Embryotoxicity
Developmental
Newborn effects
Tumor

Each of these terms is separately searchable using the Index String qualifier (IX). Embryotoxicity includes fetal death, effects on extra-embryonic structures (placenta, umbilical cord, etc.), and effects on maternal-fetal exchange as well as toxicity to the fetus or embryo. Developmental includes abnormalities in any body system or the embryo or fetus. A sample partial record from RTECS reporting reproductive effects is shown below:

SI - NIOSH/M06300000
NI - HEXANOIC ACID, 6-AMINO-
RN - 60-32-2
SO - APTOAG Acta Pharmacologica et Toxicologica 22,340,65
TDKW- ORAL;RAT;RODENTS;TDLo;150 gm/kg/60D-C ;TOXIC EFFECTS;
REPRODUCTIVE;MATERNAL

We will continue to present the dosing information for all reproductive studies using the standard study type term (TDLo) and abbreviations for time and duration of treatment. Since some studies report on administration of substances to both parents, the term multiple in place of the route of administration will be used to indicate different routes of administration to the male and female parents. The letter 'm' following a dose amount or duration indicates dosing of the male parent, 'm/f' following a dose amount indicates dosing of both parents, and no letter after the time or duration of dose indicates dosing of the female parent.

The user is reminded that until completion of the conversion of all toxicity data to the new coding system, the term 'teratogenic' will still appear in some records to report reproductive effects.

ADDITION OF RETROSPECTIVE SHEFLIST RECORDS TO CATLINE

Sally K. Sinn, Cataloging Section, NLM

Project Status

Since the beginning of NLM's Retrospective Shelflist Conversion Project in October 1979, 160,000 of the pre-1966 catalog cards from NLM's shelflist have been keyboarded into machine-readable form. The first 20,000 of these records, proof-read and edited by the Contractor and NLM Project Staff, will be released to CATLINE this month (June 1981), and an additional 20,000 will be added each month thereafter until the estimated 220,000 records covered by the Retrospective Conversion have been added to CATLINE.

The majority of these retrospective records represent monographs and books-in-part cataloged prior to 1965 when the Cataloging Section began creating machine-readable records under MEDLARS I. Although shelflist records for serials not classified in the W1 or W2 form numbers are also being converted, the majority of NLM's serials not already in machine-readable form will be converted in a separate effort in order to capture the full MARC content designation for serials. However, all analytic records for monographic issues of serials are being converted, regardless of classification.

Bibliographic Standards

Shelflist records are being keyboarded directly from the bibliographic data available on the catalog cards. No items are being recataloged to conform to current cataloging standards or International Standard Bibliographic Description (ISBD). Thus, while the retrospective shelflist records contain the same bibliographic data elements as current CATLINE records, the descriptive content of the elements may differ in format and punctuation from records created according to either edition of the Anglo-American Cataloging Rules, 1967 (AACR) or the 2nd edition, 1978 (AACR2).

Names and Subject Headings

Headings for personal, corporate and conference name entries and series added entries are being keyboarded as found on the original record. Once the conversion records are added to CATLINE, name and series headings used in these records will be reviewed and upgraded as they are encountered in the course of current AACR2 cataloging. As a result there may be in CATLINE some variant forms for the same heading; these will be resolved as time permits.

Subject headings are being matched against the current MeSH file. If the main heading and all associated subheadings are valid according to the current MeSH, the entire subject heading is being converted to the standard MeSH Heading (MH) format in CATLINE. If any part of the main heading and subheading combination is not in conformance with current MeSH terminology, the entire subject heading combination is converted to a Keyword (KW) field which is directly searchable and textword searchable. The element of the subject heading which failed to match the MeSH terms is flagged with a question mark to facilitate later review and upgrading of the headings (see example below). A retrospective record may have one or more MeSH Heading (MH) fields and one or more Keyword (KW) fields.

Record Format

The retrospective shelflist records contain the same bibliographic data elements as current CATLINE records with the following exceptions:

Country (CY). There is no country of publication element in retrospective records.

Encoding Level (EL). The Encoding Level element indicates the bibliographic level of the record. Current values are 'F' - Full level, 'L' - Limited cataloging, and '8' - Cataloging-in-Publication. Retrospective records contain the single character code 'R' in the Encoding Level element. This value is directly searchable.

Keyword (KW). This field contains subject heading combinations which could not be mapped to current MeSH terms or equivalents. The field is directly searchable and text word searchable.

Holdings Status (HS). This element contains values that explain the status of the volume holdings information in the Holdings (HO) field. The possible values for Holdings Status are:

- P - Holdings partial
- C - Holdings complete
- N - Holdings not available
- O - Holdings omitted
- EP - Special "Edition" Record - Holdings partial
- EC - Special "Edition" Record - Holdings complete
- EN - Special "Edition" Record - Holdings not available
- EO - Special "Edition" Record - Holdings omitted

This information is for NLM internal use in future inventory projects and is therefore not searchable online.

Call Number Parsed (CP). The parsed call number element carries the same call number as the Call Number (CA) field with the separate elements-- classification portion, Table G, cutter number, volume number, and year--discretely identified to facilitate shelflist sorting. Eventually, all records in CATLINE will contain a parsed version of the call number for internal NLM use in producing shelflist sorts of the file. The parsed call number element is not searchable online.

Status (ST). The Status field contains codes to indicate whether the full shelflist record was converted or a partial record was converted for original cards with non-romanized characters. Fully romanized retrospective records contain the value 'R' in the Status field and partial records for which the non-roman data was omitted contain the value 'N' (non-roman). The Status element is not searchable online.

Original Cataloging Date (OCD). This element contains the date or approximate date from the original catalog card in NLM's shelflist in the format YYMMDD. If the specific date of cataloging was not found on the card, a probable date is given as year only, e.g., 560000. The Original Cataloging Date field is not searchable.

Keyboarding Date (KD) This element records the date the record was keyboarded from NLM's shelflist into the machine-readable data entry system in the format YYYYDD. The Keyboarding Date field is not searchable online.

Searching

Retrospective records are indexed for the same searchable elements as other CATLINE records (see Section 8: CATLINE in the Online Services Reference Manual). In addition to the fields that are text word searchable--titles, series, and corporate names--the Keyword (KW) element is text word searchable and directly searchable.

Below is a sample retrospective record in the PRINT DETAILED format from CATLINE highlighting the new fields:

```

MH - Medicine/*/congresses
KW - Insurance / Life ? - congresses
CN - International Congress on Life Assurance Medicine/4th/Stockholm
    /1952
TI - IV Congr:es international de la m:edecine d'assurance sur la
    vie./G
TC - Stockholm 8-11 juin 1952
AS - Ed. par Lars Str:om.
IM - [Stockholm,::1953]
CO - 431 p.:ill.
SE - Acta medica Scandinavica. Supplementum/277/G
GN - Articles are in various languages.
CP - Wl::AC8552:no.277:1953
CA - Wl AC8552 no.277 1953:04NLM
HS - N
Y1 - S:1953
LA - Mul
MT - CORPORATE NAME MAIN ENTRY
RO - 0:CON
RO - C:CON
OCD - 530000
KD - 791101
DA - 810121
EL - R
ST - R
IT - MONOGRAPH
UI - 0010238R
    
```


Since the retrospective cataloging records are integrated into the total CATLINE file, they may be retrieved in regular CATLINE searching. However, in some instances users may want to search only on retrospective records or search only on current records and exclude the retrospective records. The following sample search shows how to include or exclude retrospective records from a search using the directly searchable value 'R' in the Encoding Level (EL) field.

SS 1 /C?
 PSYCHOANALYSIS
 PROG:
 SS (1) PSTG (990)

SS 2 /C?
 USER:
 1 AND R (EL) Limiting search to retrospective records
 PROG:
 SS (2) PSTG (85)

SS 3 /C?
 USER:
 1 AND NOT R (EL) Excluding retrospective records from search
 PROG:
 SS (3) PSTG (905)

NEW ABBREVIATED ENTRIES FOR MESH HEADINGS
 Susanne M. Humphrey, Medical Subject Headings Section, NLM

Medical Subject Headings Section (MeSH) has provided the following two new categories of abbreviated entries. In both cases, the short form omits any punctuation or special characters found in the MeSH headings itself.

NEOPL

All MeSH headings that contain the character string NEOPLAS now have short forms for searching using the abbreviation NEOPL. For example, DNA NEOPL can be used for DNA, NEOPLASM and ANTINEOPL AGENTS can be used for ANTINEOPLASTIC AGENTS.

INFECT

All MeSH headings that contain the character string INFECTION, INFECTIOUS, or INFECTIVE now have short forms for searching using the abbreviation INFECT. For example, ARTHRITIS INFECT can be used for ARTHRITIS, INFECTIOUS. Note that DISINFECT is the abbreviation for DISINFECTION, not DISINFECTANTS, which does not have a short form.

Other categories of shortened headings are described in past issues of the NLM Technical Bulletin (March 1978, No. 107, page 4; April 1981, No. 144, page 6).

MONTHLY HINT: HOW TO SORT ON JOURNAL TITLES
 Lou S. Knecht, MEDLARS Management Section, NLM

The new SORT capability can alphabetize offprints by journal title in those databases that cite journal literature. There are two basic ways to request a journal title sort:

1. use the Precoded Sort name JNL, which will always include the journal title as the first item to be sorted;
2. use a Tailored Sort on the data element that includes the journal title information (this will vary among the databases - TA vs. TJ vs. SO).

Precoded Journal Sort

The format for using the Precoded Sort name JNL is shown in the following example:

```
PROG:
SEARCH TITLE, OR NONE-
USER:
SORT = JNL
```

The chart below summarizes how the SORT program will interpret the 'SORT = JNL' instruction in the named databases:

<u>DATABASE</u>	<u>MEANING OF JNL</u>
BIOETHICS.....	SO A, MI A, IM A
CANCERLIT.....	TA A, YR A, TI A*
EPILEPSY.....	SO A, YR D
HEALTH.....	TA A, DP D, VI D, IP D, PG A
HISTLINE.....	TA A, VI A, TI A
MEDLINE.....	} TA A, DP D, VI D, IP D, PG A
MED77.....	
MED75.....	
MED72.....	
MED69.....	
MED66.....	

*Currently being evaluated. Note that this is the only database using a separate data element for the date where the direction is ascending rather than descending.

<u>DATABASE</u>	<u>MEANING OF JNL</u>
POPLINE.....	TJ A, MI A, DP D, IM A, VI D
SDILINE.....	TA A, DP D, VI D, IP D, PG A
SERLINE.....	TA A
TOXLINE.....	} SO A
TOX74.....	
TOX65.....	

A = Ascending direction (A-Z, 0-9)
D = Descending direction (9-0, Z-A)

The JNL sort format name:

1. is known across appropriate databases regardless of (a) the data elements that actually contain the journal/source information, and (b) the publication types found in a database; and
2. is recommended for OFFSEARCHes that will be searching dissimilar files.

Tailored Journal Sort

The format for using a Tailored Sort for journal titles in MEDLINE is shown below:

```

PROG:
SEARCH TITLE, OR NONE-
USER:
SORT = TA
    
```

Remember that you cannot say 'SORT = SO' in MEDLINE because the MEDLINE Source field is a composite field (i.e., made up of five other data elements). However, for TOXLINE, the instruction would have to be 'SORT = SO' because TOXLINE does not have a TA (Title Abbreviation) field, and its Source field is not a composite field.

A Tailored Sort for journal titles:

1. must be custom-made for each database, and may not be used across all databases indiscriminately;
2. is useful for an OFFLINE print or OFFSEARCH on similar files where a single data element sort is sufficient for your needs.

Remember that any sort is dependent on the data that is to be alphabetized. For example, the TOXLINE database, which is derived from eleven different secondary sources, does not have a standardized format for its SO (Source) field. A journal title from one subfile may be abbreviated with periods while another subfile may omit the periods, e.g.:

SI - CA/092/000716N
SO - Biochem. Biophys. Res. Commun.; VOL 90, ISS 3, 1979,687-93

SI - CA/094/077297A
SO - Biochem. Int.; VOL 1, ISS 6, 1980,597-604

SI - HEEP/79/01526
SO - BIOCHEM BIOPHYS RES COMMUN; 81 (1). 1978 205-211

Note that the first and third example, which are the same journal title, are separated by the second example because the CBAC subfile uses periods in the journal title abbreviations. The periods are treated as spaces for sorting, and two spaces file before one space followed by a letter.

Another example is the secondary data element sort for JNL in MEDLINE, or the DP (Date of Publication) field in descending order. The SORT program reads the entire DP field, which is commonly formatted as a four-digit year followed by a three-character abbreviation for the month. Therefore, the order cannot be in reverse calendar order (i.e., Dec-Jan) but must be in reverse alphabetical order of the name of the month within a given year. For example, a 1980 Sep citation files before a 1980 Dec citation because S comes before D in a descending sort even though December logically comes before September in reverse calendar order.

A third example is the TA field in CANCERLIT. For all non-journal publication types, this field carries the value 'Non-serial'. The Tailored Sort, 'SORT = TA', in this database would cluster all those non-serial citations and file them with the N's rather than alphabetizing by the true source which is found only in the SU field.

Please refer to the article "New Sort Capability" in the May 1981 issue of the NLM Technical Bulletin for further information on sorting offprints.

NEW SERIALS ANNOUNCEMENT - MAY 1981
Serial Records, Technical Services Division, NLM

The following substantive serial titles were received or ordered by the Serial Records Section. IM to the left of the title indicates that the title appears in Index Medicus. ON ORDER, IN PROCESS, or an actual NLM call number appears at the bottom of the entry. Please include the NLM call number on interlibrary loan requests. Of course, NLM cannot fill loans for titles not yet received by the Library. The list is offered as an early announcement and will include price information if known. Information provided is not authorized NLM cataloging data. For further information, contact Ms. Janice Lennox, 301/496-1276, Technical Services Division, NLM.

- ACTA GASTROENTEROLOGICA BOLIVIANA
1,1981--
INSTITUTOS DE GASTROENTEROLOGIA
BOLIVIANO-JAPONES
LA PAZ BOLIVIA
CASILLA NO.8578, LA PAZ, BOLIVIA
IN PROCESS
A05560000
- ADVANCES IN CLINICAL CARDIOLOGY
1,1980--
GERHARD WITZSTROCK
NEW YORK UNITED STATES
GERHARD WITZSTROCK PUBLISHING HOUSE, INC.,
30 E. 40TH ST., NEW YORK, NY 10016
IN PROCESS
A13610000
- BRAIN RESEARCH REVIEWS
1,JUL 1979--
ELSEVIER/NORTH HOLLAND
AMSTERDAM NETHERLANDS
W1 BR1145
B33215000
- BULLETIN SIGNALÉTIQUE; 365: ZOOLOGIE DES
VERTEBRES, ECOLOGIE ANIMALE, PHYSIOLOGIE
APPLIQUEE HUMAINE
40N1,1979--
CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE
CONTINUES BULLETIN SIGNALÉTIQUE; 365:
PHYSIOLOGIE DES VERTEBRES.
PARIS FRANCE
IN PROCESS
B53950000
- CLINICAL RESEARCH CENTRE SYMPOSIUM
N1,1979--
ACADEMIC PRESS
LONDON ENGLAND
ACADEMIC PRESS, 111 FIFTH AVENUE, NEW YORK,
N.Y 10003
IN PROCESS
C26855000
- IM CONSENSUS DEVELOPMENT CONFERENCE SUMMARIES
/ NATIONAL INSTITUTES OF HEALTH
3,1980--
NATIONAL INSTITUTES OF HEALTH
CONTINUES: NIH CONSENSUS DEVELOPMENT
CONFERENCE SUMMARY.
BETHESDA MD UNITED STATES
OFFICE FOR MEDICAL APPLICATIONS OF
RESEARCH, BUILDING 1, RM 216, NATIONAL
INSTITUTES OF HEALTH, BETHESDA, MD. 20014
IN PROCESS
C45865200
- DEVELOPMENTAL BRAIN RESEARCH
1,JAN 1981--
ELSEVIER/NORTH HOLLAND
AMSTERDAM NETHERLANDS
W1 BR1145
D07975000
- ERGEBNISSE DER CHIRURGISCHEN ONKOLOGIE
1,1980--
FERDINAND ENKE VERLAG
STUTTGART GERMANY, WEST
ENKE VERLAG, POB 1304, 7000 STUTTGART 1,
WEST GERMANY
IN PROCESS
E11985000
- INTERNATIONAL JOURNAL OF BEHAVIOURAL SOCIAL
WORK AND ABSTRACTS
1981--
PERGAMON PRESS
NEW YORK UNITED STATES
ON ORDER
I26350000
\$45.00
- MATERNAL AND CHILD HEALTH
6N3,MAR 1981--
BARKER PUBLICATIONS
CONTINUES JOURNAL OF MATERNAL AND CHILD
HEALTH.
RICHMOND SURREY ENGLAND
IN PROCESS
M07490000
- MODERN AGING RESEARCH
1,1980--
ALAN R. LISS
NEW YORK UNITED STATES
ALAN R. LISS, INC., 150 FIFTH AVENUE, NEW
YORK, NY 10011
IN PROCESS
M41210000
- IM NEUROBEHAVIORAL TOXICOLOGY AND TERATOLOGY
3N1,1981--
ANKHO INTERNATIONAL
CONTINUES NEUROBEHAVIORAL TOXICOLOGY.
FAYETTEVILLE NY UNITED STATES
P.O. BOX 426, FAYETTEVILLE, NY 13066
IN PROCESS
N12455000
\$75.00

NEW DIRECTIONS FOR METHODOLOGY OF
BEHAVIORAL SCIENCE
NI,1979--
JOSSEY-BASS
SAN FRANCISCO UNITED STATES
NEW DIRECTIONS SUBSCRIPTIONS, JOSSEY-BASS
INC., PUBLISHERS, 433 CALIFORNIA ST., SAN
FRANCISCO, CA 94104
IN PROCESS
NI4455000
\$30.00

IN NIH CONSENSUS DEVELOPMENT CONFERENCE SUMMARY
2,FEB 16,1979
NATIONAL INSTITUTES OF HEALTH
CONTINUES NATIONAL INSTITUTES OF HEALTH
CONSENSUS DEVELOPMENT CONFERENCE SUMMARIES.
CONTINUED BY CONSENSUS DEVELOPMENT
CONFERENCE SUMMARIES / NATIONAL INSTITUTES
OF HEALTH.
BETHESDA MD UNITED STATES
N3 NI396C
N23025000

ONCOLOGIC MULTIDISCIPLINARY DECISIONS IN
ONCOLOGY
1981--
PERGAMON
OXFORD ENGLAND
PERGAMON PRESS, ELMSFORD, N.Y. 10523
ON ORDER
006650000

SPRINGER SERIES ON BEHAVIOR THERAPY AND
BEHAVIORAL MEDICINE
6,1980--
SPRINGER PUB. CO.
CONTINUES: SPRINGER SERIES IN BEHAVIOR
MODIFICATION.
NEW YORK UNITED STATES
NI SP685NB
S36705300

YEAR BOOK OF CLINICAL PHARMACY
1981--
YEAR BOOK MEDICAL PUBLISHERS
CHICAGO UNITED STATES
IN PROCESS
Y01125000

YEAR BOOK OF EMERGENCY MEDICINE
1981--
YEAR BOOK MEDICAL PUBLISHERS
CHICAGO UNITED STATES
IN PROCESS
Y01290000

PHONES LIST

UNLESS OTHERWISE NOTED, THE SPEED OF THE NUMBERS IS 10-30 CHARACTERS PER SECOND (CPS).

* = DIRECT DIAL NUMBER

FOR 120 CPS USE COMPATIBLE MODEMS INCLUDE:

V3405 = VADIC 3405 MODEM COMPATIBLE. THE FOLLOWING VADIC MODEMS ARE V3405 COMPATIBLE: VA3455P, VA3451P, VA3434. THE FOLLOWING ANDERSON JACOBSON MODEMS ARE V3405 COMPATIBLE: AJ1234 AND AJ1255.

B/V = TELENET VADIC SUPER MODEM (V3467) MODE. USERS WITH EITHER B212A OR V3405-COMPATIBLE MODEMS MAY USE THESE NUMBERS.

B202 = INDICATES MODE IS BELL 202C OR 202S DATA SET COMPATIBLE.

B212A = BELL 212A DATA SET COMPATIBLE.

FOR IBM 2741 TERMINAL ACCESS:

B = INDICATES THAT BOTH CORRESPONDENCE AND EBCDIC CODED TERMINALS ARE SUPPORTED BY TYMNET. THE USER MUST TYPE A P FOLLOWED BY A CARRIAGE RETURN SO THAT TYMNET CAN DETERMINE THE "CODE" TO BE USED. USE CORRECT TERMINAL IDENTIFIER FOR TELENET ACCESS VIA 2741'S. THE NETWORKS DO NOT SUPPORT BCD CODED 2741'S.

ALL PHONE NUMBERS ARE SUBJECT TO CHANGE OR DELETION WITHOUT PRIOR NOTICE.

ST	CITY	TYMNET	TYPE	SPEED	TELENET	TYPE	SPEED
AK	ANCHORAGE	CONTACT ALASKA TELEPHONE COMPANY FOR ACCESS					
AK	JUNEAU	CONTACT ALASKA TELEPHONE COMPANY FOR ACCESS					
AL	BESSEMER				205/251-2495		
AL	BESSEMER				205/326-3420	B/V	120
AL	BIRMINGHAM	205/942-4141	B		205/251-2495		
AL	BIRMINGHAM	205/942-1015	B212A	120	205/326-3420	B/V	120
AL	FLORENCE				205/767-4800		
AL	HUNTSVILLE	205/533-5137	FX B		205/539-2280		
AL	HUNTSVILLE				205/539-2280	B/V	120
AL	MOBILE				205/432-8015		
AL	MOBILE	205/432-3382	B212A	120	205/432-1680	B/V	120
AL	MONTGOMERY	205/834-3410	FX B				
AL	SHEFFIELD				205/767-4800		
AR	FT. SMITH	501/782-3210	B212A	120			
AR	JONESBORO	501/932-6886	B212A	120			
AR	LITTLE ROCK	501/372-5780	FX B		501/374-4100		
AR	LITTLE ROCK	501/376-3768	B212A	120	501/372-4616	B/V	120
AR	SPRINGDALE	501/756-2201	B212A	120			
AZ	MESA				602/257-1552		
AZ	MESA				602/271-0533	B/V	120
AZ	PHOENIX	602/249-9261	B		602/257-1552		
AZ	PHOENIX	602/249-3862	B212A	120	602/271-0533	B/V	120
AZ	SCOTTSDALE				602/257-1552		
AZ	SCOTTSDALE				602/271-0533	B/V	120
AZ	TEMPE				602/257-1552		
AZ	TEMPE				602/271-0533	B/V	120
AZ	TUCSON	602/790-0764	B		602/790-0427		
AZ	TUCSON	602/747-4097	B212A	120	602/745-1666	B/V	120
CA	ALHAMBRA	213/572-0999	FX B		213/956-8235		
CA	ALHAMBRA				213/246-0318	B/V	120
CA	ANAHEIM				714/558-6061		
CA	ANAHEIM				714/558-7078	B/V	120
CA	ANTIOCH	415/757-6855	FX B				
CA	ARCADIA	213/574-7636	FX B				
CA	BAKERSFIELD				805/327-8146		
CA	BAKERSFIELD				805/327-8146	B/V	120
CA	BURLINGAME	415/348-4992	FX B		415/595-0360		
CA	BURLINGAME				415/591-0726	B/V	120
CA	CANOGA PARK				213/822-9287		
CA	CANOGA PARK				210/306-2984	B/V	120
CA	COLTON	714/825-9372	B		714/824-1710		
CA	COLTON	714/824-8170	B212A	120	714/824-3805	B/V	120

ST	CITY	TVMNET	TYPE	SPEED	TELENET	TYPE	SPEED	
CA	CUPERTINO	408/446-7309	B212A	120				
CA	CUPERTINO	408/446-7001	V3405	120	408/279-2425	B/V	120	
CA	CUPERTINO	408/446-1470	B		408/279-8450			
CA	CUPERTINO	408/257-0593	CCITT RESTRICTED FOR OVERSEAS USE ONLY					
CA	EL CONDIDO				714/747-0810			
CA	EL MONTE				213/956-8235			
CA	EL MONTE				213/507-1006	B/V	120	
CA	EL SEGUNDO	213/640-1570	B		213/332-7703			
CA	EL SEGUNDO	213/640-1281	B212A	120				
CA	FRESNO	209/432-1500	B/V	120				
CA	FULLERTON				714/558-6061			
CA	FULLERTON				714/558-7078	B/V	120	
CA	GARDEN GROVE				714/891-5711			
CA	GARDEN GROVE				714/898-9820	B/V	120	
CA	GLENDALE				213/956-8235			
CA	GLENDALE				213/507-1006	B/V	120	
CA	HAYWARD	415/785-3431	B		415/881-1382			
CA	HOLLYWOOD				213/624-5230			
CA	HOLLYWOOD				213/937-3580			
CA	HOLLYWOOD				213/689-9040			
CA	HOLLYWOOD				213/624-2251	B/V	120	
CA	HUNTINGTON BEACH				714/558-6061			
CA	HUNTINGTON BEACH				714/558-7078	B/V	120	
CA	INGLEWOOD				213/624-5230			
CA	INGLEWOOD				213/937-3580			
CA	INGLEWOOD				213/689-9040			
CA	INGLEWOOD				213/624-2251	B/V	120	
CA	LONG BEACH				213/549-5150			
CA	LONG BEACH	213-435-7088	FX B212A	120	213/548-6141	B/V	120	
CA	LOS ALTOS				415/856-9930			
CA	LOS ALTOS				415/856-9995	B/V	120	
CA	LOS ANGELES	213/683-0451	B		213/624-5230			
CA	LOS ANGELES	213/629-3451	B		213/689-9040			
CA	LOS ANGELES	213/629-1561	B		213/937-3580			
CA	LOS ANGELES	213/623-8500	V3405	120	213/624-2251	B/V	120	
CA	LOS ANGELES	213/626-0365	B212A	120				
CA	MARINA DEL REY	213/821-2257	FX B		213/822-9287			
CA	MARINA DEL REY				213/306-2984	B/V	120	
CA	MISSION HILLS	213/365-2013	FX B					
CA	MODESTO	209/578-4236	FX B		209/576-2852			
CA	MODESTO				209/576-2852	B/V	120	
CA	MOUNTAIN VIEW	415/961-7971	B		415/856-9930			
CA	MOUNTAIN VIEW	415/941-8450	B					
CA	MOUNTAIN VIEW	415/949-0330	B212A	120	415/856-9995	B/V	120	
CA	NEWPORT BEACH	714/540-9560	B		714/558-6061			
CA	NEWPORT BEACH	714/540-0951	B212A	120	714/558-7078	B/V	120	
CA	NORTHRIDGE	213/998-4872	FX B212A	120				
CA	NORWALK	213/865-2066	FX B212A	120				
CA	OAKLAND	415/836-8700	B		415/836-4884			
CA	OAKLAND	415/836-8900	B212A	120	415/836-4911	B/V	120	
CA	OXNARD	805/487-0482	B		805/659-4660			
CA	OXNARD	805/486-4536	B212A	120	805/647-6760	B/V	120	
CA	PALM SPRINGS				714/320-7491			
CA	PALO ALTO	415/856-9080	B		415/856-9930			
CA	PALO ALTO				415/856-9995	B/V	120	
CA	PASADENA	213/577-8722	FX B212A	120	213/956-8235			
CA	PASADENA				213/507-1006	B/V	120	
CA	REDWOOD CITY				415/595-0360			
CA	REDWOOD CITY				415/591-0726	B/V	120	
CA	RIVERSIDE				714/824-1710			
CA	RIVERSIDE	714/824-8170	B212A	120	714/824-3805	B/V	120	
CA	SACRAMENTO	916/441-6550	B		916/443-7921			
CA	SACRAMENTO	916/448-8151	B212A	120	916/448-6262	B/V	120	
CA	SALINAS	408/443-4333	FX B		408/443-4980			
CA	SALINAS				408/443-4940	B/V	120	
CA	SAN BERNADINO				714/824-1710			
CA	SAN BERNADINO				714/824-3805	B/V	120	
CA	SAN CARLOS				415/595-0360			
CA	SAN CARLOS				415/591-0726	B/V	120	
CA	SAN CLEMENTE	714/498-3130	FX B					
CA	SAN DIEGO	714/291-8700	B		714/231-1922			
CA	SAN DIEGO	714/293-3590	B212A	120	714/233-0233	B/V	120	
CA	SAN FRANCISCO	415/986-8200	B		415/362-6200			
CA	SAN FRANCISCO	415/397-4300	V3405	120	415/956-5777	B/V	120	
CA	SAN FRANCISCO	415/788-7955	B212A	120				
CA	SAN JOSE	408/446-1470	B		408/279-8450			
CA	SAN JOSE	408/446-7001	V3405	120				

ST	CITY	TYMNET	TYPE	SPEED	TELENET	TYPE	SPEED
CA	SAN JOSE	408/446-7309	B212A	120	408/279-2425	B/V	120
CA	SAN MATEO				415/595-0360		
CA	SAN MATEO				415/591-0726	B/V	120
CA	SAN PEDRO	213/830-0775	FX B		213/549-5150		
CA	SAN PEDRO				213/548-6141	B/V	120
CA	SANTA ANA				714/558-6061		
CA	SANTA ANA				714/558-7078	B/V	120
CA	SANTA BARBARA	805/687-6119	FX B		805/682-5361		
CA	SANTA BARBARA				805/682-5361	B/V	120
CA	SANTA CLARA				408/279-8450		
CA	SANTA CLARA				408/279-2425	B/V	120
CA	SANTA CRUZ	408/429-9572	B212A	120			
CA	SANTA MONICA				213/822-9287		
CA	SANTA MONICA				213/306-2984	B/V	120
CA	SANTA ROSA	707/546-1050	B				
CA	SANTA ROSA	707/546-6776	B212A	120			
CA	SUNNYVALE				408/279-8450		
CA	SUNNYVALE				408/279-2425	B/V	120
CA	TORPANCE				213/549-5150		
CA	VAN NUYS	213/986-9503	FX B				
CA	VENTURA	805/487-0482	B		805/659-4660		
CA	VENTURA	805/486-4536	B212A	120	805/647-6760	B/V	120
CA	VISTA	714/727-6011	FX B				
CA	WEST COVINA	213/331-3954	B				
CA	WOODLAND HILLS				213/992-0144		
CA	WOODSIDE				415/856-9930		
CA	WOODSIDE				415/856-9995	B/V	120
CO	AURORA				303/623-0876		
CO	AURORA				303/629-1821	B/V	120
CO	BOULDER				303/623-0876		
CO	BOULDER				303/629-1821	B/V	120
CO	COLO. SPRINGS	303/475-2121	FX B		303/634-5676		
CO	COLO. SPRINGS	303/633-9599	B212A	120	303/473-0263	B/V	120
CO	DENVER	303/830-9003	B		303/623-0876		
CO	DENVER	303/830-9043	B				
CO	DENVER	303/830-9116	V3405	120			
CO	DENVER	303/830-9083	B212A	120	303/629-1821	B/V	120
CO	LAKWOOD				303/623-0876		
CO	LAKWOOD				303/629-1821	B212A	120
CT	BRIDGEPORT	203/579-7820	FX B				
CT	DANBURY	203/743-1340	FX B		203/794-9075		
CT	DANBURY	203/743-1650	B212A	120	203/794-9075	B/V	120
CT	DARIEN	203/655-8931	B				
CT	DARIEN	203/655-7951	B212A	120			
CT	FAIRFLD/BRDGPT	203/333-4926	B212A	120			
CT	GREENWICH				203/357-1800		
CT	GREENWICH				203/348-0787	B/V	120
CT	HARTFORD	203/568-2610	B		203/522-0344		
CT	HARTFORD	203/569-3643	B212A	120	203/247-9479	B/V	120
CT	MILFORD				203/789-0211		
CT	MILFORD				203/624-5954	B/V	120
CT	NEW HAVEN	203/789-0579	B		203/789-0211		
CT	NEW HAVEN	203/787-1702	B212A	120	203/624-5954	B/V	120
CT	STAMFORD				203/357-1800		
CT	STAMFORD				203/348-0787	B/V	120
CT	WATERBURY	203/755-1153	FX B				
CT	WEST HARTFORD				203/522-0344		
CT	WEST HARTFORD				203/247-9479	B/V	120
DC	WASHINGTON	202/442-3900	B				
DC	WASHINGTON	703/841-0200	B		202/347-1400		
DC	WASHINGTON	703/841-9560	B		202/783-2050		
DC	WASHINGTON	703/734-3900	B				
DC	WASHINGTON	301/770-1680	B				
DC	WASHINGTON	703/841-9330	V3405	120	202/347-6093	V3405	120
DC	WASHINGTON	703/734-8370	B212A	120	202/347-3061	B212A	120
DC	WASHINGTON	703/442-7800	B212A	120			
DC	WASHINGTON	703/841-3550	B212A	120			
DC	WASHINGTON	703/442-3960	B/V	120	202/347-6757	B/V	120
DC	WASHINGTON*	301/492-3150	BELL	30/120			
	(AUTOM. SPEED DETECTOR - ENTER P (CR))						
DC	WASHINGTON*	301/492-3142	B2025	120			
DC	WASHINGTON*	301/492-3129	V3405	120			
DC	WASHINGTON*	301/492-3132	V3405	120			
DC	WASHINGTON*	301/492-3134	V3405	120			
DC	WASHINGTON*	301/492-3135	V3405	120			
DE	WILMINGTON	302/658-5261	FX B		302/737-8550		
DE	WILMINGTON	302/658-8611	B212A	120	302/737-8883	B/V	120

ST	CITY	TVMNET	TYPE	SPEED	TELENET	TYPE	SPEED
FL	CLEARWATER				813/823-3223		
FL	DAYTONA BEACH	904/252-4481	FX B				
FL	FT LAUDERDALE	305/467-7550	FX B		305/764-8880		
FL	FT LAUDERDALE	305/467-3807	B212A	120	305/764-4505	B/V	120
FL	HOLLY HILL				904/252-6637		
FL	JACKSONVILLE	904/721-8100	B		904/356-0790		
FL	JACKSONVILLE				904/356-2264	B/V	120
FL	MIAMI	305/374-7120	B		305/371-4801		
FL	MIAMI	305/358-7271	B212A	120	305/371-4822	B/V	120
FL	ORLANDO	305/851-3530	(30 CPS ONLY)		305/849-9600		
FL	ORLANDO	305/859-7670	B212A	120	305/422-4088	B/V	120
FL	PENSACOLA	904/434-0134	FX B				
FL	ST PETERSBURG	813/535-6441	B		813/823-3223		
FL	ST PETERSBURG	813/535-1446	B212A	120	813/323-4026	B/V	120
FL	SARASOTA	813/365-3526	FX B212A	120			
FL	TAMPA				813/225-1005		
FL	TAMPA	813/977-2400	B		813/224-9920		
FL	TAMPA	813/977-2400	B212A	120	813/223-1088	B/V	120
FL	W PALM BEACH	305/622-2871	FX B		305/833-6691		
GA	ATLANTA	404/659-6670	B		404/577-8911		
GA	ATLANTA	404/659-2910	B				
GA	ATLANTA	404/581-0619	B212A	120	404/523-0834	B/V	120
GA	COLUMBUS				404/324-0684		
GA	GAINESVILLE				402/534-0535		
GA	MACON	912/236-1904	V3405	120			
GA	SAVANNAH	912/352-7259	FX B		912/236-2605		
GA	SAVANNAH	912/236-1904	FX V3405	120			
HI	HONOLULU	CONTACT HAWAII TELEPHONE COMPANY FOR ACCESS(TELENET)					
HI	HONOLULU	CONTACT WESTERN UNION INT'L FOR ACCESS(TVMNET)					
IA	CEDAR RAPIDS	319/363-2482	FX B		319/363-2393		
IA	CEDAR RAPIDS	319/363-9019	FX B212A	120			
IA	COUNCIL BLUFFS				402/341-7570		
IA	COUNCIL BLUFFS				402/341-7733	B/V	120
IA	DAVENPORT	319/324-7197	V3405	120			
IA	DES MOINES	515/288-6640	B		515/288-7163		
IA	DES MOINES				515/288-4403	B/V	120
IA	IOWA CITY	319/354-7371	FX B				
IA	WATERLOO	319/233-9227	B212A	120			
ID	BOISE	208/343-4851	B		208/344-7823		
ID	BOISE	208/344-4311	B212A	120			
IL	ARLINGTON HTS				312/372-4901		
IL	ARLINGTON HTS				312/263-3069	B212A	120
IL	ARLINGTON HTS				312/726-1957	V3405	120
IL	ARLINGTON HTS				312/263-3638	B/V	120
IL	CHAMPAIGN				217/384-0011		
IL	CHAMPAIGN				217/384-6428	B/V	120
IL	CHICAGO	312/346-4961	B		312/372-4901		
IL	CHICAGO	312/368-4700	B		301/938-0600	B/V	120
IL	CHICAGO	312/368-4607	B		312/263-3638	B/V	120
IL	CHICAGO	312/641-1630	B212A	120	312/263-3069	B212A	120
IL	CHICAGO	312/372-0391	V3405	120	312/726-1957	V3405	120
IL	CICERO				312/372-4901		
IL	CICERO				312/263-3069	B212A	120
IL	CICERO				312/726-1957	V3405	120
IL	CICERO				312/263-3638	B/V	120
IL	E. ST. LOUIS				314/231-8800		
IL	E. ST. LOUIS				314/241-8150	B/V	120
IL	FREEPORT	815/233-5585	B				
IL	JOLIET	815/723-9854	B212A	120			
IL	OAK PARK				312/372-4901		
IL	OAK PARK				312/263-3069	B212A	120
IL	OAK PARK				312/726-1957	V3405	120
IL	OAK PARK				312/263-3638	B/V	120
IL	OAK PARK				312/938-0600	B/V	120
IL	PEORIA	309/673-2156	FX B		309/637-8601		
IL	PEORIA				309/637-8570	B/V	120
IL	ROCKFORD	815/398-6090	B				
IL	SKOKIE				312/372-4901		
IL	SKOKIE				312/263-3069	B212A	120
IL	SKOKIE				312/726-1957	V3405	120
IL	SKOKIE				312/263-3638	B/V	120
IL	SPRINGFIELD	217/753-7905	B		217/753-1362		
IL	SPRINGFIELD	217/753-7900	B212A	120	217/753-1373	B/V	120
IL	URBANA				217/384-0011		
IL	URBANA				217/384-6428	B/V	120
IN	EVANSVILLE	812/423-6885	FX B				
IN	FT WAYNE	219/424-5162	FX B				

ST	CITY	TVMNET	TYPE	SPEED	TELENET	TYPE	SPEED
IN	GARY				219/882-6300		
IN	GARY				219/882-8800	B/V	120
IN	HIGHLAND	219/836-5452	FX B				
IN	INDIANAPOLIS	317/257-3461	B		317/635-9630		
IN	INDIANAPOLIS	317/926-1253	B212A	120	317/634-5708	B/V	120
IN	KOKOMO				317/456-3851		
IN	MARION	317/662-0091	FX B				
IN	MERRILLVILLE	219/769-7254	FX B				
IN	MISHAWKA				219/234-9071		
IN	MISHAWKA				219/233-7104	B/V	120
IN	OSCEOLA				219/234-9071		
IN	OSCEOLA				219/233-7104	B/V	120
IN	SOUTH BEND	219/233-4163	B		219/234-9071		
IN	SOUTH BEND				219/233-7104	B/V	120
KS	KANSAS CITY	913/677-2833	B		816/474-1600		
KS	KANSAS CITY	913/677-0707	B212A	120	816/421-0375	B/V	120
KS	SHAWNEE MISSION	913/677-2833	B				
KS	SHAWNEE MISSION	913/677-0707	B212A	120			
KS	TOPEKA	913/233-0690	FX B		913/232-6816		
KS	WICHITA	316/265-1241	B				
KS	WICHITA	316/264-7386	B212A	120			
KY	FRANKFORT				502/223-1841		
KY	LEXINGTON	606/253-3463	B		606/233-0312		
KY	LEXINGTON	606/253-3498	B212A	120			
KY	LOUISVILLE	502/361-3881	B		502/589-7520		
KY	LOUISVILLE	502/361-2645	B212A	120	502/589-5580	B/V	120
LA	BATON ROUGE	504/292-4050	B		504/343-0753		
LA	BATON ROUGE	504/292-2650	B212A	120			
LA	LAFAYETTE	318/235-3501	FX B				
LA	MONROE				318/387-6330		
LA	NEW ORLEANS	504/586-1071	B		504/524-0783		
LA	NEW ORLEANS	504/524-4371	B212A	120	504/524-4094	B212A	120
LA	SHREVEPORT				318/221-2984		
LA	SHREVEPORT	318/688-4666	FX B212A	120	318/221-5833	B/V	120
MA	ARLINGTON	617/482-4677	B				
MA	ARLINGTON	617/482-5622	B		617/338-1400		
MA	ARLINGTON	617/482-3386	B212A	120	617/542-0754	B/V	120
MA	ARLINGTON	617/482-1854	V3405	120			
MA	BOSTON	617/482-4677	B				
MA	BOSTON	617/482-5622	B		617/338-1400		
MA	BOSTON	617/482-3386	B212A	120	617/542-0754	B/V	120
MA	BOSTON	617/482-1854	V3405	120			
MA	BROOKLINE	617/482-4677	B				
MA	BROOKLINE	617/482-5622	B		617/338-1400		
MA	BROOKLINE	617/482-3386	B212A	120	617/542-0754	B/V	120
MA	BROOKLINE	617/482-1854	V3405	120			
MA	CAMBRIDGE	617/482-4677	B				
MA	CAMBRIDGE	617/482-5622	B		617/338-1400		
MA	CAMBRIDGE	617/482-3386	B212A	120	617/542-0754	B/V	120
MA	CAMBRIDGE	617/482-1854	V3405	120			
MA	CHICOPEE	413/781-6830	B		413/739-7221		
MA	CHICOPEE	413/781-0145	B212A	120			
MA	HOLYOKE	413/781-6830	B		413/739-7221		
MA	HOLYOKE	413/781-0145	B212A	120			
MA	LEXINGTON				617/863-1550		
MA	LEXINGTON				617/863-1565	B/V	120
MA	MEDFORD	617/482-4677	B				
MA	MEDFORD	617/482-5622	B		617/338-1400		
MA	MEDFORD	617/482-3386	B212A	120	617/542-0754	B/V	120
MA	MEDFORD	617/482-1854	V3405	120			
MA	NEWTON	617/482-4677	B				
MA	NEWTON	617/482-5622	B		617/338-1400		
MA	NEWTON	617/482-3386	B212A	120	617/542-0754	B/V	120
MA	NEWTON	617/482-1854	V3405	120			
MA	QUINCY	617/482-4677	B				
MA	QUINCY	617/482-5622	B		617/338-1400		
MA	QUINCY	617/482-3386	B212A	120	617/542-0754	B/V	120
MA	QUINCY	617/482-1854	V3405	120			
MA	SOMERVILLE	617/482-4677	B				
MA	SOMERVILLE	617/482-5622	B		617/338-1400		
MA	SOMERVILLE	617/482-3386	B212A	120	617/542-0754	B/V	120
MA	SOMERVILLE	617/482-1854	V3405	120			
MA	SPRINGFIELD	413/781-6830	B		413/739-7221		
MA	SPRINGFIELD	413/781-0145	B212A	120			
MA	WALTHAM	617/482-4677	B				
MA	WALTHAM	617/482-5622	B		617/338-1400		
MA	WALTHAM	617/482-3386	B212A	120	617/542-0754	B/V	120

ST	CITY	TYMNET	TYPE	SPEED	TELENET	TYPE	SPEED
MA	WALTHAM	617/482-1854	V3405	120			
MA	WORCESTER	617/754-9451	FX B		617/755-4810		
MA	WORCESTER	617/755-5601	B212A	120	617/755-4740	B/V	120
MD	ANNAPOLIS	301/547-8100	B		301/266-6886		
MD	ANNAPOLIS	301/685-2845	B212A	120			
MD	BALTIMORE	301/547-8100	B		301/962-5010		
MD	BALTIMORE	301/244-8959	B212A	120	301/685-3339	B/V	120
MD	BETHESDA	703/841-0200	B		202/347-1400		
MD	BETHESDA	301/770-1680	B				
MD	BETHESDA	703/524-9215	B212A	120	202/347-3061	B212A	120
MD	BETHESDA	703/841-9330	V3405	120	202/347-6093	V3405	120
MD	COLLEGE PARK	703/841-0200	B		202/347-1400		
MD	COLLEGE PARK	703/524-9215	B212A	120	202/347-3061	B212A	120
MD	COLLEGE PARK	703/841-9330	V3405	120	202/347-6093	V3405	120
MD	DUNDALK	301/547-8100	B		301/962-5010		
MD	DUNDALK	301/244-8959	B212A	120	301/685-3339	B/V	120
MD	ROCKVILLE	703/841-0200	B		202/347-1400		
MD	ROCKVILLE	301/770-1680					
MD	ROCKVILLE	703/524-9215	B212A	120	202/347-3061	B212A	120
MD	ROCKVILLE	703/841-9330	V3405	120	202/347-6093	V3405	120
MD	SILVER SPRING	301/770-1680	B				
MD	SILVER SPRING	703/841-0200	B		202/347-1400		
MD	SILVER SPRING	703/524-9215	B212A	120	202/347-3061	B212A	120
MD	SILVER SPRING	703/841-9330	V3405	120	202/347-6093	V3405	120
MD	TOWSON	301/547-8100	B		301/962-5010		
MD	TOWSON	301/244-8959	B212A	120	301/685-3339	B/V	120
ME	PORTLAND	207/773-2029	FX B212A	120			
MI	ANN ARBOR	313/665-2627	B		313/996-0351		
MI	ANN ARBOR	313/662-8282	B212A	120	313/996-5995	B/V	120
MI	CADILLAC	616/775-1261	B212A	120			
MI	DETROIT	313/963-3388	B		313/964-5538		
MI	DETROIT	313/963-8880	B212A	120	313/964-2988	B/V	120
MI	DETROIT	313/963-2353	V3405	120			
MI	FLINT				313/233-3050		
MI	FLINT	313/732-7303	B212A	120	313/233-3050	B/V	120
MI	GRAND RAPIDS	616/459-5069	FX B		616/458-1200		
MI	GRAND RAPIDS	616/456-9092	B212A	120	616/774-0966	B/V	120
MI	JACKSON	517/787-9461	B				
MI	KALAMAZOO	616/385-3150	B		616/385-0160		
MI	KALAMAZOO	616/349-6753	B212A	120			
MI	KALAMAZOO	616/388-3534	V3405	120			
MI	LANSING	517/487-2040	FX B		517/372-5400		
MI	LANSING				517/372-5420	B/V	120
MI	MANISTEE	616/723-8760	FX B				
MI	PLYMOUTH	313/459-8900	B				
MI	PLYMOUTH	313/459-8100	B212A	120			
MI	SAGINAW				517/790-5166		
MI	SOUTHFIELD	313/569-8350	B				
MI	ST JOSEPH	616/429-2568	FX B				
MI	TRAVERSE CITY	616/946-0002	FX B				
MI	WARREN				313/575-9230		
MN	DULUTH				218/722-0906		
MN	MANKATO	507/625-1684	B212A	120			
MN	MINNEAPOLIS	612/339-5200	B		612/339-0150		
MN	MINNEAPOLIS	612/339-8086	B				
MN	MINNEAPOLIS	612/339-2415	B212A	120	612/338-3782	B/V	120
MN	ROCHESTER	507/282-3741	B212A	120			
MN	ST. PAUL	612/339-5200	B		612/339-0150		
MN	ST. PAUL	612/339-2415	B212A	120	612/338-3782	B/V	120
MO	BRIDGETON	314/731-2304	FX B				
MO	COLUMBIA	314/875-1150	FX B				
MO	FLORISSANT				314/231-8800		
MO	FLORISSANT				314/241-8150	B/V	120
MO	JEFFERSON CITY	314/634-3273	B212A	120			
MO	JOPLIN	417/782-3037	B212A	120			
MO	KANSAS CITY	913/677-2833	B		816/474-1600		
MO	KANSAS CITY	913/677-0707	B212A	120	816/421-0375	B/V	120
MO	SPRINGFIELD	417/831-0566	B212A	120			
MO	ST JOSEPH	816/232-0624	B212A	120			
MO	ST LOUIS	314/421-5110	B		314/231-8800		
MO	ST LOUIS	314/621-4660	B212A	120	314/421-3615	B/V	120
MS	JACKSON	601/944-0860	FX B		601/969-0036		
MS	JACKSON	601/969-5141	B212A	120			
MS	PASCAGOULA	601/769-6502	B				
MS	PASCAGOULA	601/769-6673	B212A	120			
MT	BUTTE	406/494-2998	B212A	120			
MT	HELENA				406/443-0000		

ST	CITY	TYMNET	TYPE	SPEED	TELENET	TYPE	SPEED
NE	LINCOLN	402/475-8659	FX B/V				
NE	OMAHA	402/392-2970	B		402/341-7570		
NE	OMAHA				402/341-7733	B/V	120
NC	ASHEVILLE	704/255-0021	B212A	120	704/253-3517		
NC	ASHEVILLE				704/253-3517	B/V	120
NC	CHARLOTTE	704/376-2545	FX B		704/374-0371		
NC	CHARLOTTE	704/376-2544	FX B212A	120	704/332-3131	B/V	120
NC	DAVIDSON	919/549-0441	B		919/549-8311		
NC	DAVIDSON				919/549-8139	B/V	120
NC	DURHAM	919/549-0441	B		919/549-8311		
NC	DURHAM	919/549-8910	B212A	120	919/549-8139	B/V	120
NC	GREENSBORO	919/379-0034	FX B		919/275-0231		
NC	GREENSBORO	919/275-9455	FX B212A	120	919/273-2851	B/V	120
NC	RALEIGH/DURHAM	919/549-0441	B		919/549-8311		
NC	RALEIGH/DURHAM	919/832-6592	FX B212A	120	919/549-8139	B/V	120
NC	RES. TRI. PARK	919/549-0441	B		919/549-8311		
NC	RES. TRI. PARK				919/549-8139	B/V	120
NC	WINSTON-SALEM	919/725-1414	B		919/761-1957		
NC	WINSTON-SALEM	919/725-9252	B212A	120	919/725-2126		
ND	BISMARCK				701/663-5081		
ND	MANDAN				701/663-5081		
NH	CONCORD				603/224-8110		
NH	CONCORD				603/224-1024	B/V	120
NH	MANCHESTER	603/669-0493	FX B				
NH	NASHUA	603/889-8618	FX B				
NH	PORTSMOUTH				603/431-2302		
NJ	ATLANTIC CITY				609/348-0561		
NJ	BAYONNE				201/623-6818		
NJ	BAYONNE				201/623-0469	B/V	120
NJ	ENGLEWOOD CLFS	201/894-8250	B				
NJ	JERSEY CITY				201/623-6818		
NJ	JERSEY CITY				201/623-0469	B/V	120
NJ	LYNDHURST	201/460-0100	B				
NJ	LYNDHURST	201/460-0180	B212A	120			
NJ	MARLTON				609/983-9650		
NJ	MARLTON				609/983-8351	B/V	120
NJ	MOORESTOWN	609/235-3761	FX B				
NJ	MORRISTOWN				201/455-0266		
NJ	MORRISTOWN	201/267-3997	B212A	120	201/455-0275	B/V	120
NJ	NEW BRUNSWICK				201/246-1090		
NJ	NEWARK	201/483-5937	B		201/623-6818		
NJ	NEWARK	201/483-4878	B212A	120	201/623-0469	B/V	120
NJ	PASSAIC				201/777-0952		
NJ	PATERSON				201/742-0858		
NJ	PATERSON				201/278-5960	B/V	120
NJ	PISCATAWAY	201/981-1900	B				
NJ	PRINCETON	609/452-8970					
NJ	PRINCETON	609/452-8560	B212A	120			
NJ	TRENTON				609/392-6101		
NJ	TRENTON				609/989-8847	B/V	120
NJ	UNION	201/483-5937	B				
NJ	UNION	201/483-4878	B212A	120			
NJ	UNION CITY				201/623-6818		
NJ	UNION CITY				201/623-0469	B/V	120
NJ	WAYNE	201/785-4480	B				
NM	ALBUQUERQUE				505/243-7701		
NM	ALBUQUERQUE	505/843-6301	B212A	120	505/243-4479	B/V	120
NM	SANTE FE				505/982-4282		
NV	BOULDER CITY	702/293-0300	B				
NV	CARSON CITY	702/882-7810	B				
NV	CARSON CITY	702/883-6546	B212A	120			
NV	LAS VEGAS	702/293-0300	B		702/733-2158		
NV	LAS VEGAS				702/737-6861	B/V	120
NV	RENO	702/882-7810	B				
NV	RENO	702/883-6546	B212A	120			
NY	ALBANY	518/463-3111	FX B		518/445-9111		
NY	ALBANY	518/434-2633	B212A	120	518/465-8444	B/V	120
NY	BINGHAMPTON				607/722-0650		
NY	BINGHAMPTON				607/772-6642		
NY	BUFFALO	716/856-1400	B		716/847-0600		
NY	BUFFALO	716/847-0500	B212A	120	716/847-1440	B/V	120
NY	CORNING	607/962-5071	B				
NY	CORNING	607/936-4151	B212A	120			
NY	DEER PARK				516/586-7810		
NY	ELMIRA	607/737-9010	B212A	120			
NY	HEMPSTEAD, LI	516/794-3390	FX B		516/292-0320		
NY	HEMPSTEAD, LI	516/872-6612	B212A	120	516/481-6012	B/V	120

ST	CITY	TYMNET	TYPE	SPEED	TELENET	TYPE	SPEED	
NY	HUNTINGTON, LI	516/673-5780	FX	B				
NY	HUNTINGTON, LI	516/421-1614	B212A	120				
NY	NEW YORK	212/344-7445	B		212/279-1000			
NY	NEW YORK	212/683-0131	B					
NY	NEW YORK	212/532-0437	B		212/736-0099			
NY	NEW YORK	212/685-4414	B					
NY	NEW YORK	212/668-0130	B212A	120	212/947-9600	B/V	120	
NY	NEW YORK	212/532-8101	B212A	120				
NY	NEW YORK	212/684-6363	V3405	120				
NY	NEW YORK	212/344-3392	(30 CPS ONLY)					
NY	NIAGARA FALLS	716/285-6691	FX	B				
NY	NIAGARA FALLS	716/285-3114	FX	B212A	120			
NY	POUGHKEEPSIE				914/473-5600			
NY	ROCHESTER	716/248-8000	B		716/454-3430			
NY	ROCHESTER	716/248-8350	B212A	120	716/454-1020	B/V	120	
NY	SCHENECTADY				518/445-9111			
NY	SCHENECTADY				518/465-8444	B/V	120	
NY	SYRACUSE	315/437-7111	B		315/472-5503			
NY	SYRACUSE	315/437-1117	B212A	120	315/472-5583	B/V	120	
NY	TROY				518/445-9111			
NY	TROY				518/465-8444	B/V	120	
NY	WHITE PLAINS	914/694-9361	B		914/682-8777			
NY	WHITE PLAINS	914/694-8960	B212A	120	914/946-3176	B/V	120	
OH	AKRON	216/535-1861	B		216/762-9791			
OH	CANTON				216/452-0903			
OH	CINCINNATI	513/891-7211	B		513/621-7017			
OH	CINCINNATI	513/791-5311	B212A	120	513/579-0390	B/V	120	
OH	CINCINNATI	513/793-8893	V3405	120				
OH	CLEVELAND	216/781-7050	B		216/241-0940			
OH	CLEVELAND	216/861-5383	B212A	120	216/696-4225	B/V	120	
OH	COLUMBUS	614/421-7270	B		614/463-1400			
OH	COLUMBUS	614/421-1650	B212A	120	614/461-1853	B/V	120	
OH	DAYTON	513/223-3847	B		513/461-1570			
OH	DAYTON	513/461-6400	B212A	120	513/461-5254	B/V	120	
OH	EUCLID				216/241-0940			
OH	EUCLID				216/696-4225	B/V	120	
OH	KENT				216/678-5115			
OH	MARYSVILLE	513/642-2015	FX	B212A	120			
OH	PARMA				216/241-0940			
OH	PARMA				216/696-4225	B/V	120	
OH	SPRINGFIELD				513/323-8433			
OH	TOLEDO	419/243-3144	FX	B	419/225-7805			
OH	TOLEDO	419/255-2946	FX	B212A	120	419/225-7881	B/V	120
OH	YOUNGSTOWN				216/743-2296			
OH	YOUNGSTOWN	216/744-5326	B212A	120				
OK	BARTLESVILLE				918/336-0020			
OK	BETHANY	405/947-0561	B		405/232-4550			
OK	BETHANY	405/949-0125	B212A	120	405/232-4546	B/V	120	
OK	NORMAN	405/947-0561	B		405/232-4550			
OK	NORMAN	405/949-0125	B212A	120	405/232-4546	B/V	120	
OK	OKLAHOMA CITY	405/947-0561	B		405/232-4550			
OK	OKLAHOMA CITY	405/949-0125	B212A	120	405/232-4546	B/V	120	
OK	STILLWATER				405/624-1112			
OK	TULSA	918/663-2220	B		918/584-3215			
OK	TULSA	918/665-2750	B212A	120	918/584-3247	B/V	120	
OR	PORTLAND	503/231-4050	B		503/243-2800			
OR	PORTLAND	503/231-4077	B212A	120	503/243-2815	B/V	120	
PA	ALLENTOWN	215/433-6131	FX	B	215/435-8268			
PA	ALLENTOWN	215/432-5926	B212A	120	215/425-3330	B/V	120	
PA	ALTOONA	814/946-8888	B212A	120				
PA	ERIE	814/453-7161	B		814/453-7561			
PA	ERIE				814/453-6859	B/V	120	
PA	HARRISBURG	717/236-1190	FX	B	717/236-3202			
PA	HARRISBURG				717/236-6882	B/V	120	
PA	JOHNSTOWN				814/535-7576			
PA	JOHNSTOWN				814/835-8541	B/V	120	
PA	PENN HILLS				412/288-9950			
PA	PENN HILLS				412/288-9974	B/V	120	
PA	PHILADELPHIA	215/561-6120	B		215/574-0620			
PA	PHILADELPHIA	215/567-1381	B212A	120	215/574-9462	B/V	120	
PA	PITTSBURGH	412/765-1320	B		412/288-9950			
PA	PITTSBURGH	412/261-4151	B212A	120	412/288-9974	B/V	120	
PA	SCRANTON				717/961-5321			
PA	SHARON				412/346-6576			
PA	UPPER DARBY				215/574-0620			
PA	UPPER DARBY				215/574-9462	B/V	120	
PA	VALLEY FORGE	215/666-9190	B					

ST	CITY	TYMNET	TYPE	SPEED	TELENET	TYPE	SPEED
PA	VALLEY FORGE	215/666-0930	B212A	120			
PA	YORK				717/846-6550		
PA	YORK				717/846-6550	B/V	120
RI	PROVIDENCE	401/273-0200	FX B		401/272-9290		
RI	PROVIDENCE	401/273-0201	B212A	120	401/751-7912	B/V	120
RI	WARWICK	401/274-5783	FX B		401/272-9290		
RI	WARWICK	401/831-5566	B212A	120	401/751-7912	B/V	120
SC	CHARLESTON				803/722-4352		
SC	CHARLESTON				803/722-4303	B/V	120
SC	COLUMBIA	803/252-0840	FX B		803/254-1108		
SC	COLUMBIA	803/256-5238	FX B212A	120	803/254-0695	B/V	120
SC	GREENVILLE	803/271-2418	FX B		803/233-3488		
SC	GREENVILLE	803/271-9967	FX B		803/233-3486	B/V	120
SC	SPARTANBURG				803/583-5421		
SD	PIERRE				605/224-6188		
TN	CHATTANOOGA	615/756-5856	B		615/756-5323		
TN	CHATTANOOGA	615/756-0561	B212A	120	615/756-1161	B/V	120
TN	KNOXVILLE	615/637-3118	FX B		615/523-5500		
TN	KNOXVILLE	615/523-7458	FX B212A	120	615/523-5500	B/V	120
TN	MEMPHIS	901/529-0170	B		901/525-2563		
TN	MEMPHIS	901/520-0183	B212A	120	901/521-0215	B/V	120
TN	NASHVILLE	615/367-9382	B		615/244-8310		
TN	NASHVILLE	615/361-7566	B212A	120	615/244-5099	B/V	120
TX	ABILENE				915/676-7701		
TX	AUSTIN	512/444-3280	B		512/926-4360		
TX	AUSTIN	512/444-5800	B212A	120	512/928-3560	B/V	120
TX	BAYTOWN	713/427-5856	FX B				
TX	BEAUMONT	713/832-2589	FX B				
TX	CORPUS CHRISTI	512/882-3641	FX B				
TX	DALLAS	214/638-8888	B		214/748-0127		
TX	DALLAS	214/688-1444	B212A	120	214/748-6371	B/V	120
TX	EL PASO	915/544-9590	B				
TX	EL PASO	915/532-1936	B212A	120			
TX	FORT WORTH	214/263-4581	FX B		817/336-7791		
TX	FORT WORTH	214/263-0278	B212A	120	817/332-4307	B/V	120
TX	HOUSTON	713/975-0500	B		713/224-3380		
TX	HOUSTON	713/977-4080	B				
TX	HOUSTON	713/780-7390	B				
TX	HOUSTON	713/780-7496	V3405	120			
TX	HOUSTON	713/977-7671	B212A	120	713/225-9359	B/V	120
TX	LACKLAND				512/227-7784		
TX	LACKLAND				512/227-0182	B/V	120
TX	LONGVIEW	214/758-1756	FX B				
TX	LUBBOCK	806/762-0136	FX B				
TX	MIDLAND	915/683-5645	B				
TX	MIDLAND	915/683-9833	B212A	120			
TX	NEDERLAND				713/724-2341		
TX	ODESSA	915/563-3745	FX B		915/332-6883		
TX	SAN ANGELO				915/944-9670		
TX	SAN ANGELO				915/944-8502	B/V	120
TX	SAN ANTONIO	512/696-4002	B		512/227-7784		
TX	SAN ANTONIO	512/699-9627	B212A	120	512/227-0182	B/V	120
UT	SALT LAKE CITY	801/582-8972	B		801/364-2644		
UT	SALT LAKE CITY	801/582-6060	B212A	120	801/359-0149	B/V	120
VA	CHESAPEAKE				804/625-8291		
VA	CHESAPEAKE				804/625-1186	B/V	120
VA	HERNDON				703/435-3333		
VA	NEWPORT NEWS	804/596-5754	FX B		804/596-6600		
VA	NEWPORT NEWS				804/596-6600	B/V	120
VA	NORFOLK				804/625-8291		
VA	NORFOLK	804/625-8301	B212A	120	804/625-1186	B/V	120
VA	PORTSMOUTH				804/625-8291		
VA	PORTSMOUTH				804/625-1186	B/V	120
VA	RICHMOND	804/649-3050	FX B		804/358-1941		
VA	RICHMOND	804/788-4604	B212A	120	804/780-0426	B/V	120
VA	VIRGINIA BEACH				804/625-8291		
VA	VIRGINIA BEACH				804/525-1186	B/V	120
VT	BURLINGTON	802/864-0054	FX B212A	120			
VT	MONTPELIER				802/229-4966		
WA	AUBURN				206/939-8200		
WA	BELLEVUE	206/625-9937	B212A	120	206/625-9612	B/V	120
WA	BELLEVUE	206/625-9900	B		206/447-9012		
WA	ENUMCLAW	206/825-6909	FX B				
WA	LONGVIEW				206/577-5835		
WA	OLYMPIA	206/943-4190	FX B				
WA	RICHLAND	509/375-1975	B				
WA	RICHLAND	509/375-3367	B212A	120			

ST	CITY	TYMNET	TYPE	SPEED	TELENET	TYPE	SPEED
WA	SEATTLE	206/625-9900	B		206/447-9012		
WA	SEATTLE	206/625-9937	B212A	120	206/625-9612	B/V	120
WA	SPOKANE				509/455-7601		
WA	SPOKANE	509/838-8226	B212A	120	509/455-4071	B/V	120
WA	TACOMA	206/952-6800	FX B		206/627-1717		
WA	TACOMA				206/627-1719	B/V	120
WI	APPLETON	414/734-9940	FX B				
WI	EAU CLAIRE	715/834-7863	FX B212A	120	715/835-4641		
WI	GREEN BAY	414/468-6808	B212A	120			
WI	MADISON	608/221-4211	B		608/251-5904		
WI	MADISON	608/221-0891	B212A	120	608/257-5010	B/V	120
WI	MILWAUKEE	414/257-3482	B		414/271-2560		
WI	MILWAUKEE	414/257-1703	B212A	120	414/271-3914	B/V	120
WI	NEENAH	414/722-5580	V3405	120			
WI	OSHKOSH	414/235-4594	FX B				
WV	CHARLESTON	304/345-2908	B212A	120	304/345-6450		
WV	CHARLESTON				304/345-6471	B/V	120
WV	HUNTINGTON	304/522-6261	FX B				
WY	CHEYENNE				307/778-2721		
WY	CHEYENNE				307/632-0575	B/V	120

TELENET TERMINAL IDENTIFIERS

Telenet has published a new list of terminal model identifiers as of January 1981. They suggest that these identifiers be used to get the best performance from your terminal. If your terminal model is not listed, simply enter a CARRIAGE RETURN to the TERMINAL = prompt during the login procedure.

<u>Terminal Model</u>	<u>ID</u>	<u>Terminal Model</u>	<u>ID</u>
ADDS CONSUL 520, 580, 980	D1	IBM 2741 (EBCD Code)	
ADDS ENVOY 620, REGENT	D1	TYPESPHERE ELEMENT Code: #938,	
ALANTHUS DATA TERMINAL T-133	A1	939,961,962,997	E2
T-300	A8	942, 943	E3
T-1200	A3	947, 948	E4
ALANTHUS MINITERM	A2	IBM 2741 (CORRESPONDENCE CODE)	
AM-JACQUARD AMTEXT 425	D1	TYPESPHERE ELEMENT Code #001,	
ANDERSON JACOBSEN 510	D1	005, 007,008,022,030,050,053,	
ANDERSON JACOBSEN 630	B1	067,070,085	C1
ANDERSON JACOBSEN 830,832	B3	006,010,015,019,059,090	C2
ANDERSON JACOBSEN 841	*	021,025-029,031-039,060,068,	
ANDERSON JACOBSEN 860	B5	086,123,129-145,156,161	C3
APPLE II	D1	043,054	C4
ATARI 400, 800	D1	IBM 3101	D1
AT&T DATASPEED 40/1,40/2,40/3	D1	INFORMER 1304, D304	D1
BEEHIVE MINIBEE, MICROBEE	D1	INFOTON 100,200,400, VISTAR	D1
CENTRONICS 761	A8	INTELLIGENT SYSTEMS INTECOLOR	D1
COMMODORE PET	D1	INTERTEC INTERTUBE II	D1
COMPU-COLOR II	D1	LANIER WORD PROCESSOR	D1
COMPUTER DEVICES CDI 1030	A2	LEAR SIEGLER ADM SERIES	D1
COMPUTER DEVICES TELETERM 1132	A8	LEXITRON 1202, 1303	D1
COMPUTER DEVICES MINITERM 1200		MEMOREX 1240	A2
SERIES	A2	MICOM 2000, 2001	D1
COMPUTER TRANSCEIVER EXECUPORT 300	A2	NBI 3000	D1
COMPUTER TRANSCEIVER EXECUPORT		NCR 260	A2
1200	A9	PERKIN-ELMER MODEL 1100, OWL,	
COMPUTER TRANSCEIVER EXECUPORT		BANTAM	D1
4000	A8	PERKIN-ELMER CAROUSEL 300 SERIES	A8
CPT 6000, 8000	D1	RADIO SHACK TRS 80	D1
DATAMEDIA ELITE	D1	RESEARCH INC. TELERAY	D1
DATAPPOINT 1500,1800,2200,3000,		TEKTRONIX 4000-4024	D1
3300,3600,3800	D1	TELETYPE MODEL 33, 35	A1
DATA PRODUCTS PORTATERM	A1	TELETYPE MODEL 40	D1
DATA TERMINAL & COMMUNICATIONS		TELETYPE MODEL 43	B3
DTC 300,302	B3	TELETYPE MODEL 40/1,40/2,40/3	D1
DIABLO HYTERM	B3	TEXAS INSTRUMENT 725	A7
DIGI-LOG 33 & TELECOMPUTER II	D1	733	A2
DIGITAL EQUIPMENT		735	A6
(LA 35-36) DECWRITER II	A8	743,745,763,765	D1
(LA 120) DECWRITER III	A8	820	B3
DIGITAL EQUIPMENT VT50, VT52,		99/4	D1
VT100, WS78, WS200	D1	TRENDA 1000,1500,2000	*
GEN-COMM SYSTEMS 300	B3	4000 (ASCII)	B1
GE TERMINET 30	A5	TYMSHARE 110, 212	A2
GE TERMINET 300	A4	315	A8
GE TERMINET 120, 1200	A3	325	B3
GENERAL TERMINAL GT-100A, GT-101,		UNIVAC DCT 500	B4
GT110, GT-400, GT-400B	D1	WANG 20,25,30,015,130,145	D1
HAZELTINE 1500, 1400, 2000	D1	WESTERN UNION EDT 33,35	A1
HEWLETT PACKARD 2621	D3	300	A3
HEWLETT PACKARD 2640 SERIES	D1	XEROX 800, 850, 860	D1
IBM 2741 (EBCD Code)		XEROX 1700	B3
TYPESPHERE ELEMENT Code: #963,			
996, 998	E1	*USE IBM 2741 CODES	

THE NLM TECHNICAL BULLETIN

JULY 1981

NO. 147

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<u>ONLINE SERVICES REFERENCE MANUAL:</u> INTRODUCTION TO THE INDEX	APPENDIX A

DATABASE	TOTAL RECORDS	DATES COVERED	DATE LAST UPDATED	LATEST UPDATE TAG
*AVLINE	10,014	THROUGH 1981	17 JUL 81	
*BIOETHICS	11,846	JAN 73-FEB 81	05 JUN 81	8106(EM)
*CANCERLIT	260,296	JAN 63-JUN 81	22 JUN 81	8106(EM)
*CANCERPROJ	20,626	1978-1981	07 MAY 81	8104(EM)
*CATLINE	232,071	THROUGH 1981	17 JUL 81	
*CHEMLINE	500,555		13 JUL 81	8107(EM)
*CLINPROT	2,611		16 JUL 81	8107(EM)
*EPILEPSY	36,472	1945-PRESENT	20 OCT 80	
HEALTH	179,998	JAN 75-AUG 81	13 JUL 81	8108(EM)
*HISTLINE	45,028		11 MAY 81	8105(EM)
MEDLINE	543,051	JAN 79-AUG 81	06 JUL 81	8108(EM)
MED77	511,005	JAN 77-DEC 78	15 DEC 80	
+MED75	642,953	JAN 75-DEC 76	15 DEC 80	
+MED72	669,106	JAN 72-DEC 74	15 DEC 80	
+MED69	668,257	JAN 69-DEC 71	15 DEC 80	
+MED66	501,801	JAN 66-DEC 68	15 DEC 80	
MESH VOC	40,543	1981	20 JUL 81	
*NAME AUTH	116,800		20 JUL 81	
*POPLINE	78,212	1970-JUL 81	13 JUL 81	8107(EM)
*RTECS	47,217	1979 ED.-APR 81	12 JUN 81	
SDILINE	23,130	AUG 81	06 JUL 81	
*SERLINE	37,764	1981	02 JUL 81	
*TDB	3,037		04 MAY 80	
*TOXLINE	504,046		29 JUN 81	8106(EM)
CBAC	255,150	1977-VOL 33(10,11)		
TOXBIB	83,847	1977-JUL 81		
IPA	21,223	1977-VOL 17(23), VOL 18(1,2)		
HEEP	57,386	1977-VOL 10(7)		
PESTAB	12,022	1977-VOL 14(6)		
EMIC	31,486	1960-APR 81		
ETIC	20,946	1950-MAR 81		
RPROJ	27,738	1978-AUG 81		
TD3	4,248	JAN/MAY 81		
*TOXBACK74	275,506		10 SEP 80	
CBAC	147,332	1974-1976		
TOXBIB	65,433	1974-1976		
IPA	17,582	1974-1976		
HEEP	37,198	1974-1976		
PESTAB	7,961	1974-1976		
+TOXBACK65	387,377		10 SEP 80	
CBAC	196,015	1965-1973		
TOXBIB	112,170	1968-1973		
IPA	21,973	1970-1973		
HEEP	29,662	1971-1973		
HAPAB	12,966	1966-1973		
HAYES	10,039	1940-1966		
TMIC	4,552	1971-1975		

1) * = NLM ONLY

2) + = AVAILABLE ONLY THRU OFFSEARCH

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 8600 Rockville Pike
 Bethesda, Maryland 20209

TECHNICAL NOTES

Whenever applicable, the headings of each Technical Note will include a reference to the section of the NLM Online Services Reference Manual which is considered most relevant to the item being discussed (e.g., Manual 2.9). Users should keep in mind that the item may pertain to other sections of the Manual.

SORT AVAILABILITY AT SUNY - The SORT capability was made available at SUNY on Monday, June 22, 1981. Details can be found in the SORT article (May 1981 Bulletin), Monthly Hint (June 1981 Bulletin), and the online EXPLAIN (type 'EXPLAIN SORT' online).

ONLINE NEWS - The online news at NLM and SUNY is now identical. This will eliminate the need to query the news on both computers.

NEW PUBLICATION - The following publication will be available from the Government Printing Office in September 1981:
The National Library of Medicine Classification, Fourth Edition, revised 1981
 S/N 017-052-00222-8, Price: \$14.00 (\$17.50 Foreign)

Orders are now being accepted for this publication.

SUBS ADD COMMAND (Manual 4.9.25) - The command SUBS ADD can be used to include additional sub-headings to those subheadings already applied with a previously entered SUBS APPLY command.

This is illustrated in the following example:

```
SS 1 /C
USER:
SUBS APPLY ae, po
PROG:
SUBHEADINGS ACCEPTED.
```

**subheadings ADVERSE EFFECTS
and POISONING applied**

```
SS 1 /C
USER:
aspirin
PROG:
SS (1) PSTG (320)
```

MeSH heading entered

```
SS 2 /C
USER:
subs add to
PROG:
SUBHEADINGS ACCEPTED.
```

**subheading TOXICITY added to
those previously applied**

```
SS 2 /C
USER:
aspirin
PROG:
SS (2) PSTG (350)
```

**MeSH heading reentered;
retrieval increased**

CHEMLINE
EXPLAINS
(Manual -
Part 13)

- As a new service to users at NLM, individual 'EXPLAINS' are available for searchable CHEMLINE data elements. For example, typing 'EXPLAIN N1' at any point will provide a brief description of the CAS Type 1 Name and its uses. A more detailed explanation of this feature and the CHEMLINE unit record can be obtained by using the 'EXPLAIN CHEMLINE' command.

PLEASE TYPE NEWS TO SEE MOST RECENT NEWS ITEMS ONLINE

KNOW YOUR STRATEGY

We present here a little puzzle to let you test your understanding of Boolean logic as applied to MEDLARS searching. The following search strategies involve 4 search terms, - a, b, c, d, - combined in three different ways. Which strategy is capable of retrieving the most citations, and which the fewest? Can you prove it?

Strategy A

SS1: a or b
SS2: c
SS3: d
SS4: 1 and 2 and 3

Strategy B

SS1: a or b
SS2: c or d
SS3: 1 and 2

Strategy C

SS1: a
SS2: b
SS3: c
SS4: d
SS5: 1 or 2
SS6: 3 or 4
SS7: 3 and 4 and 5
SS8: 1 and 2 and 6
SS9: 7 or 8

The answer will appear next month in the Technical Bulletin.

ONLINE SERVICES REFERENCE MANUAL INDEX STUDY
Carole Stock, Online Coordinator, Region X
University of Washington Health Sciences Library, Seattle

At the 1980 Online Users Meeting, held during the Medical Library Association Annual Meeting, I agreed to collect comments from users on the deficiencies and problems with the Index to the Online Services Reference Manual. A written request for users' comments was included in the August 1980 NLM Technical Bulletin. Over the next few months I received many oral and a few written comments. I considered these in addition to making my own study and reported my findings and recommendations to MEDLARS Management Section, NLM.

Many problems in using the Index seem to have arisen because users had not seen the explanatory introduction page. Of those I asked, some users discovered the page to be missing from their copies of the Manual, as it was from my own; but others had simply not noticed it. [Note that a copy of this page is enclosed as Appendix A with this issue of the Bulletin for those who do not have it.]

Users pointed out the need to include references to new or revised material in the Index as soon as possible, and I have recommended including either new Index pages or Index annotation instructions with future mailings of Manual revisions and updates. With three or four exceptions, all other "omissions" noted by users were, in fact, items that were present but seem to have eluded a hurried search.

Problems such as these in using the Index for rapid reference indicated that the major difficulties with the Index lie in format and typography rather than content. To a number of a useful suggestions from users, I added a few of my own; MMS is studying these for feasibility. Several users recommended Tables of Contents for each section. Others expressed a need for a quick-reference mini-manual. I have forwarded these suggestions to MMS with my endorsement.

I was pleased to find that the indexing of the Manual is generally of very high quality. In a line-by-line check of one entire section and of random pages of other sections, I found no indexing omissions. As a reference librarian I was impressed.

A few users still seem to be using previous editions of the Manual. I recommend that anyone doing so obtain the latest edition as soon as possible.*

I would like to thank all the users who took the time to express their concerns and to suggest changes.

*One copy of each edition of the Online Services Reference Manual is sent free to each online user code. Additional copies of the 1980 edition may be purchased from:

National Technical Information Service
5285 Port Royal Road
Springfield, Virginia 22161

The price is \$10.50; the order number is PB80-114531.

A new edition is in progress; a late summer 1981 publication date is anticipated.

NLM Online Users' Meetings
 Medical Library Association Annual Meeting
 Montreal, Canada
 June 1, 1981 12:30-1:30 p.m.
 and
 June 3, 1981 1:00-2:00 p.m.

The following questions are those that were posed at the recent NLM Online Users' Meetings held at the Medical Library Association's Annual Meeting in Montreal, Canada. Due to conflicts in the meeting schedule, two meetings were held this year to give all NLM users the opportunity to attend a users' meeting.

The questions from both meetings are included together, generally in the order in which they were asked. The answers are formal responses drafted after the meetings.

1. Q. Why isn't AVLINE available on tape in MARC format?
 A. The programs to convert AVLINE to MARC format have not yet been developed. This development of the appropriate conversion programs will take place in MEDLARS III when all the NLM tapes will be available in MARC format.
2. Q. Is the MeSH Vocabulary file available in MARC format?
 A. No, it is not currently available in MARC format. This too should be made available in MARC format with MEDLARS III.
3. Q. Is NLM any closer to developing a way for a searcher to retrieve from MEDLINE those general articles indexed without subheadings, that is, those citations that appear up front in Index Medicus?
 A. This capability does not exist in the current system, but it has been requested for MEDLARS III.
4. Q. Are there any plans to make CANCERLIT searchable using MeSH Headings?
 A. Citations to articles included in the CANCERLIT database have been indexed using MeSH vocabulary since January 1980. However, due to errors in the tapes delivered to NLM, NLM was unable to process the CANCERLIT file containing MeSH Headings. Corrections have been made to these tapes and a new CANCERLIT database should be available in the summer of 1981 that will allow searching using MeSH Headings for citations published in 1980 through 1981. Citations input prior to January 1980 will still only be retrievable using Text Words or Title Fragments.
5. Q. Why is it that sometimes when I put in a SAVESEARCH, I am unable to use it later in a search? It does list out when I do a SAVE LIST.
 A. This may occur if you have not named the SAVESEARCH according to the naming conventions. Those naming conventions are listed in the STORESEARCH part (Part 5) of the Online Services Reference Manual. They are the same as those required for a STORESEARCH, that is:

- a) The name may not exceed 30 characters in length (blanks count as characters)
- b) Boolean operators, AND, AND NOT, OR, may not be used in any search name
- c) Special characters (e.g., #, /, etc.) may not be part of the search name
- d) The search name may not be purely numeric

Remember, too, that in executing a SAVESEARCH, the (SN) qualifier must be used, e.g.:

```
SS 1 /C?  
USER:  
CAFFEINE INTERACTIONS (SN)
```

If you encounter any problems in the storage, display, or execution of a SAVESEARCH, please call MEDLARS Management Section (301/496-6193 or 800/638-8480) as soon as possible and the MMS staff will try to help you resolve the problem.

- 6. Q. What are the long term prospects for making additional backfiles available online?
 - A. NLM will take this request under consideration.
- 7. Q. Are there any plans to allow individual users the capability to cancel their own OFFSEARCHes and OFFLINE PRINTS?
 - A. At the present time, OFFSEARCHes may only be cancelled by calling MMS between 8:30 a.m.-5:00 p.m. Eastern Time and requesting cancellation of a search input that same day. It has never been possible to cancel OFFLINE PRINTS once the "OFFLINE PRINT COMPLETED" message has been received. Under MEDLARS III, a capability should exist to allow users to cancel their own OFFSEARCHes and OFFLINE PRINTS prior to printing in the evening. This capability cannot be activated sooner due to the extensive, costly programming involved.
- 8. Q. Is it possible to put the Bibliography of Medical Reviews in Abridged Index Medicus?
 - A. NLM will take this request under consideration.
- 9. Q. Will there be any increase of non-prime time hours in the future?
 - A. It is unlikely that non-prime time hours during the day will be increased in the future. If additional evening hours are added or Saturday access becomes available, these will likely be non-prime hours.

10. Q. During the past year it has been relatively easy to get a user ID code for MEDLARS access. Will it continue to be easy to get a code in the future?

A. Yes, it should continue to be relatively simple for eligible users to make an application for and receive a MEDLARS user ID code.

11. Q. Do you anticipate making more changes to the MeSH Vocabulary in 1982 in the area of psychiatric terminology based on DSM III?

A. No changes will be made in the psychiatric terms in the 1982 MeSH Vocabulary based on DSM III (the Diagnostic and Statistical Manual of Mental Disorders, third edition, published by the American Psychiatric Association). These changes were incorporated in the 1981 MeSH (see article in NLM Technical Bulletin, August 1980, p. 13-22). A few headings will be added to the MeSH Vocabulary in the area of psychiatry in 1982.

12. Q. Is there a possibility of introducing a check tag for in-patient vs. out-patient care?

A. This will be considered for the 1983 MeSH Vocabulary.

13. Q. When will the Laboratory Animal Data Bank and the Hepatitis Knowledge Base become available?

A. The Laboratory Animal Data Bank (LADB) has been available online through contract with the Battelle Research Laboratories, Columbus, Ohio. It was developed by NLM for the Department of Health and Human Service's Committee to Coordinate Environmental Programs, and several other governmental agencies (National Cancer Institute, National Center for Toxicological Research, Environmental Protection Agency, Interagency Regulatory Liaison Group, etc.). Due to the lack of continued interagency funds, NLM is terminating LADB as a governmental operation. Continuation by non-governmental institutions is being made possible by a license procedure through the National Technical Information Service (NTIS) in August, 1981. It is hoped that this will provide a means of transferring and continuing the LADB services with little or no interruption.

There are no plans at present to make the Hepatitis Knowledge Base (HKB) generally available. The HKB, along with the prototype knowledge bases in human genetics and peptic ulcer disease, is part of a long-term research project which is still in an early stage of development.

14. Q. When will the SUNY primary access users of Canada be given full access to MEDLINE and its backfiles on the NLM computer?

A. NLM is currently reviewing the access of all users to the NLM and SUNY computers. Until the review is complete, certain users will only have access to MEDLINE, its backfiles, and the HEALTH PLANNING & ADMINISTRATION databases at SUNY. However, all users have access through the NLM computer to those databases not available at SUNY. SDILINE and the MESH VOCABULARY FILE are available to all users at both NLM and SUNY.

15. Q. How many individuals do you have using the MEDLARS system (as opposed to institutional users), especially how many individual physicians are using the system?

A. Approximately 1500 institutions/individuals currently have user ID codes giving them direct access to the MEDLARS system. That number grows at approximately 20 per month. Of that 1500, very few are individual users. It is likely this trend will continue in the future given the state-of-the-art of the software/hardware available.

16. Q. As stipulated in the Memorandum of Understanding (MOU), institutions that access the MEDLARS system are required to provide searches for individuals from outside their own institutions. Given the wide distribution of the MEDLINE tapes, which now makes MEDLINE available through Bibliographic Retrieval Services (BRS) and Lockheed's DIALOG, will this requirement be relaxed to allow an institution to provide searches only for its own staff?

A. With the wide availability of MEDLINE over the last few years, there does not seem to be a problem in anyone gaining access to the system through some online center in his/her vicinity. The requirement that an institution provide access to anyone requesting it was essential in the early days, when few online centers had access, to assure the availability of MEDLINE to anyone needing a search. The Memorandum of Understanding is currently being examined and this requirement is being reviewed.

17. Q. Would NLM like to see more end-users using the MEDLARS system, and if so, would NLM make it easier for them to get a code, e.g., by easing the training requirement?

A. NLM will provide an access code to any qualified individual end-user who applies. Generally these individuals do come to a formal training course as it is to their advantage to do so. As with individuals from institutions that have been accepted, training can be waived in those instances where an individual has sufficient knowledge of the online systems. When regular training is waived, individuals might consider attending the 3-day Abbreviated Initial course now being offered regularly. This course contains all the lectures, discussions, and demonstrations of the regular 5-day Initial course plus an introduction to some databases not generally covered at the Initial level. There are no hands-on terminal exercises in this course.

18. Q. Does NLM have any plans to increase prices in the near future?

A. On June 3, 1981, NLM announced a price increase for all its databases effective October 1, 1981. This price increase involves online connect time only and not offline print page charges. Detailed information on the price increase is contained in the June 1981 Technical Bulletin. Additionally, a letter was sent to all online centers in June informing them of the increase.

19. Q. How does one search in MEDLINE for the current contraindications of using specific drugs? Can a separate indexing category be established for this?

A. The Index Section is aware that this is a difficult area to search as the subheading, ADVERSE EFFECTS, which is currently available, is not specific enough in combination with a drug term when searching contraindications. A subheading to express the concept contraindications or counterindications has been requested along with various subheadings to express normal indications, current usage, and chemistry. These are currently under review for 1983 MeSH.

20. Q. Are there any plans to update EPILEPSYLINE?

A. NLM is not responsible for updating EPILEPSYLINE. Update tapes are provided by the National Institute for Neurological and Communicative Disorders and Stroke (NINCDS) which underwrites the database. When these update tapes are received, NLM immediately updates the file. Recently NINCDS issued a Request for Proposal (RFP) for updating EPILEPSYLINE on a regular basis. When this contract is awarded, it is likely that EPILEPSYLINE will be more frequently updated.

21. Q. Is it possible to add timely announcements of the Continuing Education course offerings of the National Medical Audiovisual Center to the NLM News?

A. NLM will take this under consideration.

22. Q. Are there any plans to correct the problem of duplicate citations in TOXLINE?

A. When TOXLINE was regenerated in September 1980, a check for duplicate citations input to the database prior to 1979, based on a priority system, was performed. Currently, checking for duplicates is performed at each file regeneration; it is not performed with each monthly file update. The process of checking for duplicate citations is currently under review, and it is likely that a new scheme for eliminating duplicates on a more timely basis will be developed.

23. Q. How do you decide which citation to keep when you have duplicates? Do you keep the citation with a royalty citation or the non-royalty citation?

A. This is a good illustration of the complexity of the problem in deciding which duplicate records to eliminate. Sometimes a record with a royalty charge offers unique information not available on a record without a royalty charge. In this instance, it is difficult to decide which record to keep. Again, the process of checking for duplicates is currently under review, and it is hoped that whatever scheme is developed, it will most benefit the user both in terms of cost and information provided.

24. Q. Does NLM ever plan to change the print limit in OFFLINE PRINTS and OFFSEARCH prints from 300, 500 citations respectively?

A. These limits on OFFLINE PRINTS (300 citations) and OFFSEARCH prints (500 citations per search statement up to five search statements) were put in the system to protect the user from exorbitant print page costs should the user ask a question that would cause an entire database or a substantial part of it to be printed offline. The limits are also a protection for NLM to avoid the possibility that one user could monopolize the printer most of the evening with an unusually large request, thus delaying the printing of other users' prints. The 300 citation limit in OFFLINE PRINTS can be exceeded by inputting more than one OFFLINE PRINT command together with a SKIP option. If entry dates are used in an OFFSEARCH when a large retrieval on a search is expected, more than 500 citations may be retrieved for a specific search by using multiple search statements. The user should then request these search statements that combine the strategy with different entry date ranges in the SSNOS/OVERRIDES part of the OFFSEARCH. Please consult the Online Services Reference Manual for information on the use of entry dates in MEDLINE searching (Part 7.3.6) and the SKIP option in OFFLINE PRINTS (Part 4). A list of the Date of Entry (DA) ranges is published annually in the NLM Technical Bulletin.

25. Q. What effect will the policies of the current administration and the study by the Office of Technology Assessment (OTA) have on the future of the online system?

A. It is difficult to determine what effect, if any, these factors will have on the future of the online system.

26. Q. Will adjacency searching be available on the MEDLARS system any time in the near future?

A. The capability for adjacency searching has been requested in the functional specifications for MEDLARS III. Adjacency searching would require major software modifications so it will not be implemented before MEDLARS III.

27. Q. NTIS has announced that there is an NLM STORESEARCH available on Parkinson Disease Information. Could you provide me with information on this?

A. A letter was sent by the National Technical Information Service to all recipients of the recurring bibliography, Parkinson's Disease and Related Disorders, informing them that this bibliography would cease publication in December 1980. This letter suggested that those persons who would like to receive citations on Parkinsonism on a regular basis should contact their medical librarian about having a search stored on the NLM system for monthly processing via the NLM Automatic SDI program. There is no one formulated STORESEARCH available from NLM to replace this bibliography as implied in the letter. Search analysts may formulate a search strategy to meet the individual requester's needs and may call the MEDLARS Management Section for assistance.

28. Q: Official lists of participants for the annual regional update sessions and the NLM Advanced Online Services Training courses do not seem to be getting to MLA. This affects the awarding of continuing education (CE) credits. How is this handled?

A: When an individual attends an Initial or Advanced training class at NLM or one of the NLM training centers (the University of California at Los Angeles or the University of Nebraska), official class lists are sent with a cover memo to MLA. To our knowledge MLA has all of the class lists since the recertification program began. NLM does not award CE credits. When an individual is seeking recertification, he/she should write to MLA giving the dates of NLM class attendance and the type of training. At that time MLA will award CE credits; no verification of CE credit is given prior to the application for recertification. If you request recertification based on participation in an NLM training class and MLA cannot verify your attendance, please contact the MEDLARS Management Section and MMS will check the files. CE credits are not awarded for class attendance prior to January 1978, the date the MLA certification program began. Full participants at an NLM training course (i.e., with hands-on experience) are awarded 35 contact hours which translates into 3.5 CE credits; auditors are awarded 21 contact hours or 2.1 CE credits. Twenty-one contact hours (or 2.1 CE credits) are awarded for special 3-day Initial and Advanced courses.

Beginning with the 1981 update sessions held in the Fall of 1980, lists of participants for the regional update sessions are being forwarded to MLA by the various regions. Prior to the 1981 updates, NLM forwarded lists to MLA. Again, these CE credits or contact hours (the exact number varies year to year) are awarded by MLA at the time of recertification application. If MLA cannot verify your attendance at a particular update session, please contact your Regional Medical Library for updates 1981 and after and NLM for updates prior to 1981.

29. Q: Physicians tend to define "review" articles differently from the way NLM defines them. What they really mean is an "overview" article. Is there any possibility that there can be a check tag or some other way to distinguish an "overview" article of a particular field from a "review" article as NLM currently defines it?

A: The criteria for review articles as defined by NLM is outlined in detail in the Indexing Manual. Basically, for inclusion in the Bibliography of Medical Reviews, a review article must contain current references (generally the last ten years) and present in-depth coverage of a particular subject area. NLM will examine whether or not there is a sufficient number of "overview" articles in the literature to warrant an additional checktag or MeSH heading for this type of article as opposed to "review" articles as defined by NLM. It would be very helpful to us if you could send us some examples of this type of "overview" article for our consideration. These should be sent to Dr. Clifford A. Bachrach, Head, MeSH Section.

30. Q: Is there any plan to review the MeSH terms used for the field of ophthalmology?

A: Any request to review the terminology of MeSH should be sent in writing to Dr. Clifford A. Bachrach, Head, MeSH Section. Include specific examples of the types of problems you are encountering in searching a particular area.

31. Q: Review articles are very useful to our practitioners, nurses, etc. At one point it was possible to retrieve review articles that were dated earlier than the coverage of the current MEDLINE database. This policy of including reviews older than the current coverage of the MEDLINE file has been discontinued. Would it be possible to bring up a separate database that has a longer time coverage for review articles?

A: At the time NLM encountered space problems with the computer, we discontinued the practice of incorporating older review articles in the current online MEDLINE file. Those that had been included in the various backfiles were left in those backfiles. Now that NLM has made MED77 available online, access is available to a five-year run of review articles. As more years become available online, the need for separate databases which are MEDLINE subsets decreases. NLM would rather make more years of MEDLINE available online than use the online space for MEDLINE subsets as this is most useful to the users. Remember, you can limit any MEDLINE or MED77 retrieval to review articles by ANDing your subject retrieval with the MeSH Heading REVIEW.

32. Q: Is it possible to have the online print commands default to printing in the compressed format?

A: NLM will consider this suggestion and investigate the possibility of doing this.

33. Q: Are there any plans to make automatic SDIs available in the HEALTH PLANNING & ADMINISTRATION database?

A: NLM will try to implement this as soon as possible.

34. Q: Is it possible to include in the online NEWS information about the National Medical Audiovisual Center (NMAC), the services NMAC provides, and the individuals to contact for these services?

A: The purpose of the online NEWS is to provide users with daily information affecting the online system. It is a limited capability due to space constraints, and, therefore, information about various NLM operations cannot be included.

When NMAC moved from Atlanta to Bethesda, Maryland, various services were interrupted. In addition, NMAC lost a substantial number of their staff due to the relocation. In the last year, staff has been added and services are now fully operational. In July 1981, NMAC plans to send an information packet to those persons and institutions on the NLM and NMAC mailing lists. This packet will contain brochures and fact sheets that describe the services provided by NMAC, contact persons, etc.

35. Q: At the beginning of May there was an online NEWS message to the online user community informing them that NLM had been requested, under the Freedom of Information Act, to provide information about individual users and their hours of online usage on particular databases to an unspecified company. Could you elaborate on this request?

A: NLM received the Freedom of Information Act request from a law firm representing a company. We do not know what the purpose of this request was or why the information was sought. Under the Freedom of Information Act, NLM is required to make records in its possession available to anyone who requests them unless security or proprietary information is involved. The reason we input the NEWS message was to inform our user community and give them the opportunity to identify any issues that should be considered in complying with the request. We have received a number of responses, mostly from commercial organizations, who objected because they believe that release of this information might provide their competitors with information about their commercial products or activity. We have not yet resolved the issue. It is currently under consideration by both the legal counsel for NLM and the law firm making the request.

36. Q: Is it possible to have an Explosion map to a Pre-Explosion if one exists for the part of the Tree you wish to Explode?

A: The capability of making Pre-Explosions transparent to the user, that is, if you Explode the term or use the designated Pre-Explosion with the (PX) qualifier you will get the same result in the same amount of time, has been requested for MEDLARS III. It is not possible to do it at this time due to the nature of the present software. If you Explode a term and get a substantial number of Time Overflow messages, you should consult the list of Pre-Explosions available. The annual list of Pre-Explosions is made available in the NLM Technical Bulletin. A list of Pre-Explosions may also be obtained online by NEIGHBORing a known Pre-Explosion term using the (PX) qualifier and listing up and down in the NEIGHBOR display. For example:

NBR HEART DISEASES (PX)

For an online explanation of Pre-Explosions, type:

EXPLAIN PRE-EXPLOSION

This explanation also includes a current list of Pre-Explosions.

37. Q: Is it possible to review the journals included in Abridged Index Medicus (AIM)? For instance, almost all the clinics, medical clinics, surgical clinics, etc., are not included in the AIM subset of Index Medicus?

A: The general journal, Medical Clinics of North America, is included in AIM, as are: Nursing Clinics of North America, Pediatric Clinics of North America, Orthopedic Clinics of North America, Surgical Clinics of North America, and Radiologic Clinics of North America. Others, e.g., dental clinics, are not. Requests to review journal coverage for inclusion in AIM should be directed to Dr. Clifford A. Bachrach, Head, MeSH Section. NLM does review the journal titles for Index Medicus frequently; journals for inclusion in AIM are reviewed approximately every two years.

38. Q: Is there any way that SUNY primary access users can have access to MEDLINE at NLM when SUNY is down and NLM is up? Also, will SUNY primary access users be given access to NLM for MEDLINE when NLM institutes Saturday hours?

A: NLM is currently working on the software necessary to give SUNY primary access users access to MEDLINE at NLM when SUNY is down and NLM is up and on Saturdays when Saturday searching becomes available. We are also exploring the possibility of increased hours for the NLM computer that will not significantly affect the evening processing of OFFLINE and OFFSEARCH prints. If NLM evening hours for MEDLINE increase, the new software we are developing will allow SUNY primary access users to search NLM MEDLINE during these hours.

39. Q: In the MLA Newsletter, Hospital Library Section, there was a reference to the development of a database of 300 clinical journals. Can you comment on this?

A: Last year NLM received a request from the hospital library community for a database that would cover the Abridged Index Medicus (AIM) clinical journal titles. This database would be a subset of the MEDLINE database. Rather than develop a separate AIM database, NLM elected to use the computer space available to make a backfile, MED77, available online. The mounting of these additional MEDLINE years gives all users access to a five-year run of MEDLINE citations online. If you would like to limit your retrieval to citations from AIM, simply AND your subject retrieval with A (SB). For example:

3 AND A (SB)

This strategy will produce a bibliography from AIM. A (SB) indicates to the computer the AIM subset of MEDLINE, and it is available in MEDLINE and all its backfiles.

40. Q: Earlier it was stated that some individuals now have access to the MEDLARS system. In the past, NLM required that MEDLARS users have a library collection to back up MEDLINE service. Is this still a requirement; and if so, how did these users get access? Are they SUNY primary access users?

A: As stated previously, individuals who apply for access and meet the NLM qualifications and requirements can get a user code. It is no longer a requirement that MEDLARS users have a library collection to back up MEDLINE service. Originally a collection was required because of the

limited number of users given access. NLM wanted to assure that if an institution was given a code it could provide the best possible service to the public. Now there are over 1500 users with MEDLARS centers very widely distributed, and there is no longer any need to have a requirement of this type. All new users, including individual users, given access at this time are designated SUNY primary access users.

41. Q: Is there any time schedule for the elimination of SUNY primary access and giving all users full access to all the databases at NLM?

A: No timetable has been developed for elimination of SUNY primary access user codes. As stated previously, NLM is currently evaluating policy in this area, and some decision on this should be reached sometime in the fall.

42. Q: Is it possible to develop a better interface between the Ohio College Library Center (OCLC) interlibrary loan system (ILL) and NLM's interlibrary loan system?

A: At the present time, the OCLC system is not designed to handle a high volume lender such as NLM. Eventually NLM would like to work with OCLC so that ILL requests on their system could be transferred from their system to the NLM ILL system. NLM does not have the staff to process the OCLC ILL requests in their present format. Devoting staff to the processing of ILL requests from OCLC would remove personnel from the main ILL processing stream thus delaying NLM turnaround time.

43. Q: Would it be possible to develop a better interface between OCLC and the various regions?

A: Individual regions have their own policies on OCLC ILL requests. These policies will have to be discussed with the individual regions.

44. Q. Sometimes when Exploding a term in MEDLINE, I receive a multi-meaning message that lists the various tree numbers for a term occurring in more than one Tree. This multi-meaning message allows me to choose only one Tree number. If I want to Explode the term in all the Trees in which it occurs, I must Explode each Tree number separately and OR the results together. Is there any way to Explode a term (not a Tree number) that occurs in multiple Trees and automatically have all the Trees Exploded?

A. No, when searching online in the present ELHILL system, there is no way to Explode a term that occurs in more than one Tree and have the computer automatically Explode all the Trees listed. A multi-meaning message will always be received and only one Tree number can be selected. The multi-meaning message is designed to alert the searcher to the fact that a term that occurs in multiple Trees may not have the same terms indented under it. It is suggested that before a term is Exploded, the various Trees in which it occurs should be checked manually, or the online Tree command should be used to determine which Tree is appropriate to the search. The appropriate Trees should then be Exploded by Tree number and the results ORed together. If the terms under the various Trees are all the same, the term may be Exploded since any selection from the multi-meaning will retrieve the same result.

In OFFSEARCH, the opposite is true. When entering a search in the OFFSEARCH mode, an Exploded term that occurs in more than one Tree will still generate a multi-meaning message online. However, regardless of the online response, all the Trees in which the term occurs will be Exploded during actual processing offline. In an OFFSEARCH then, if you want all the Trees Exploded, this is done "automatically" by inputting the term; if only one Tree is desired on the Explosion, the Tree number must be used.

\$ENSIBLE \$EARCHING

EDITOR'S NOTE:

This new column will present brief ideas for cost-effective use of the online system. Readers who would like to share their personal suggestions via this column are encouraged to send them to:

National Library of Medicine
 MEDLARS Management Section
 Bldg. 38A, Room 4N421
 Bethesda MD 20209

Attn: Rose M. Woodsmall

Ideas need not be complex or sophisticated; sometimes the obvious is overlooked by both the novice and experienced searcher.

For example.....

Remember to use Pre-exploded terms in files for which they are available (i.e., MEDLINE and its backfiles and the HEALTH PLANNING & ADMINISTRATION database). A list of available Pre-exploded terms was distributed with the October 1980 Bulletin; you can also print them at the terminal by typing EXPLAIN PRE-EXPLOSION or EXPLAIN PX.

Using the pre-exploded term saves online connect time because the computer does not have to perform the actual operation of gathering a list of citations indexed to that term and its indentions (narrower terms). The pre-exploded list already exists within the computer.

To demonstrate the connect time savings, a test was done using the MeSH heading HEALTH SERVICES in the HEALTH PLANNING & ADMINISTRATION database. The test was performed at 11:30 AM ET on the NLM computer with 87 simultaneous users. Entering EXPLODE HEALTH SERVICES produced 25 time overflows and took about four minutes; using HEALTH SERVICES (PX) produced the postings count immediately.

NEW SERIALS ANNOUNCEMENT - JUNE 1981
 Serial Records, Technical Services Division, NLM

The following substantive serial titles were received or ordered by the Serial Records Section. IM to the left of the title indicates that the title appears in Index Medicus. ON ORDER, IN PROGRESS, or an actual NLM call number appears at the bottom of the entry. Please include the NLM call number on interlibrary loan requests. Of course, NLM cannot fill loans for titles not yet received by the Library. The list is offered as an early announcement and will include price information if known. Information provided is not authorized NLM cataloging data. For further information, contact Ms. Janice Lennox, 301/496-1276, Technical Services Division, NLM.

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| <p>IM ACTA BIO-MEDICA DE L ATENEO PARMENSE
 DIREZIONE E REDAZIONE
 CONTINUES ATENEO PARMENSE ACTA BIO-MEDICA.
 PARMA ITALY
 IN PROCESS
 A04534100</p> <p>ACTA DE ODONTOLOGIA PEDIATRICA
 1,1980--
 CENTRO DE ODONTOLOGIA PEDIATRICA
 SANTO DOMINGO DOMINICAN REPUBLIC
 JOSE JOAQUIN PEREZ NO.101, ZONA 1, ADARTADO
 POSTAL NO.2822, SANTO DOMINGO, REPUBLICA
 DOMINICANA
 ON ORDER
 A07460000</p> <p>ADRENAL MEDULLA
 1,1979--
 EDEN PRESS
 MONTREAL CANADA
 EDEN MEDICAL RESEARCH INC., P.O. BOX 51,
 ST. ALBANS, VT 05478
 IN PROCESS
 A12670000</p> <p>ADVANCES IN DEVELOPMENTAL PSYCHOLOGY
 1,1981--
 LAWRENCE ERLBAUM ASSOCIATES
 HILLSDALE NJ UNITED STATES
 ON ORDER
 A13735000</p> <p>ASIA OCEANIA CONGRESS OF PERINATOLOGY
 1ST, 1979--
 MTP PRESS
 LANCASTER ENGLAND
 IN PROCESS
 A69302000</p> <p>ASSOCIATION PUBLICATIONS IN PRINT
 1981--
 BOWKER
 NEW YORK UNITED STATES
 ON ORDER
 A70307000
 \$110.00</p> <p>BASIC AND CLINICAL ENDOCRINOLOGY
 1,1981--
 MARCEL DEKKER
 NEW YORK UNITED STATES
 ON ORDER
 B01085000</p> | <p>IM BRITISH JOURNAL OF CLINICAL PSYCHOLOGY
 20,1981--
 BRITISH PSYCHOLOGICAL SOCIETY
 CONTINUES IN PART BY BRITISH JOURNAL OF
 SOCIAL AND CLINICAL PSYCHOLOGY.
 LETCHWORTH ENGLAND
 IN PROCESS
 B34551000</p> <p>IM BRITISH JOURNAL OF SOCIAL PSYCHOLOGY
 20,1981--
 BRITISH PSYCHOLOGICAL SOCIETY
 CONTINUES IN PART BRITISH JOURNAL OF SOCIAL
 AND CLINICAL PSYCHOLOGY.
 LETCHWORTH ENGLAND
 IN PROCESS
 B35610000</p> <p>CHEMISTRY IN ECOLOGY
 1,1981--
 GORDON AND BREACH
 LONDON ENGLAND
 ON ORDER
 C16490000
 \$199.00</p> <p>CLINICAL RESEARCH REVIEWS
 1,1981--
 JANSEN PHARMACEUTICAL
 BUCKINGHAMSHIRE ENGLAND
 IN PROCESS
 C26890000</p> <p>CLINICAL SURGERY INTERNATIONAL
 1,1981--
 CHURCHILL LIVINGSTONE
 EDJNBURGH SCOTLAND
 ON ORDER
 C27030000</p> <p>CLINICS IN LABORATORY MEDICINE
 1,MAR 1981--
 SAUNDERS
 PHILADELPHIA UNITED STATES
 IN PROCESS
 C27455600</p> <p>IM EXPERIMENTAL PATHOLOGY
 19,1981--
 VEB GUSTAV FISCHER VERLAG
 CONTINUES EXPERIMENTAL PATHOLOGIE
 JENA GERMANY, WEST
 IN PROCESS
 E19610000</p> |
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NLM TECHNICAL BULLETIN - JUL 1981

	<p>GENE AMPLIFICATION AND ANALYSIS 1,1981-- ELSEVIER/NORTH-HOLLAND NEW YORK ON ORDER G03750000</p>	<p>UNITED STATES</p>		<p>NEW COMPREHENSIVE BIOCHEMISTRY 1,1981-- ELSEVIER/NORTH-HOLLAND BIOMEDICAL AMSTERDAM ON ORDER M14365000</p>	<p>NETHERLANDS</p>
	<p>HEALTH POLICY 1,1981-- MARCEL DEKKER NEW YORK ON ORDER H07335000</p>	<p>UNITED STATES</p>		<p>ONCOLOGIC 1,1981?-- PERGAMON PRESS NEW YORK ON ORDER 006645000</p>	<p>UNITED STATES</p>
	<p>HUMAN CANCER IMMUNOLOGY 1,1981-- ELSEVIER/NORTH-HOLLAND AMSTERDAM ON ORDER H21870000</p>	<p>NETHERLANDS</p>		<p>PERSPECTIVES ON BEHAVIORAL MEDICINE 1,1981-- ACADEMIC PRESS NEW YORK ON ORDER P08887000</p>	<p>UNITED STATES</p>
	<p>INFECTIOUS DISEASES AND ANTIMICROBIAL AGENTS 1,1981-- MARCEL DEKKER NEW YORK ON ORDER I13005000</p>	<p>UNITED STATES</p>		<p>PROGRESS IN APPLIED SOCIAL PSYCHOLOGY 1,1981-- WILEY CHICHESTER, WEST SUSSEX ON ORDER P47010000</p>	<p>ENGLAND</p>
IM	<p>INPRACTICE 1, JAN 1979-- BRITISH VETERINARY ASSOCIATION SUPPLEMENT TO VETERINARY RECORD. LONDON IN PROCESS I17250000</p>	<p>ENGLAND</p>		<p>IM QUARTERLY JOURNAL OF EXPERIMENTAL PSYCHOLOGY. SECTION A: HUMAN EXPERIMENTAL PSYCHOLOGY 33,1981-- ACADEMIC PRESS CONTINUES IN PART QUARTERLY JOURNAL OF EXPERIMENTAL PSYCHOLOGY. NEW YORK IN PROCESS Q01661000</p>	<p>UNITED STATES</p>
IM	<p>JOURNAL OF ASTHMA 18,1981-- ASTHMA PUBLICATIONS SOCIETY CONTINUES JOURNAL OF ASTHMA RESEARCH. BALTIMORE IN PROCESS J13561000</p>	<p>UNITED STATES</p>		<p>IM QUARTERLY JOURNAL OF EXPERIMENTAL PSYCHOLOGY. SECTION B: COMPARATIVE AND PHYSIOLOGICAL PSYCHOLOGY 33,1981-- ACADEMIC PRESS CONTINUES IN PART QUARTERLY JOURNAL OF EXPERIMENTAL PSYCHOLOGY. NEW YORK IN PROCESS Q01662000</p>	<p>UNITED STATES</p>
	<p>JOURNAL OF CEREBRAL BLOOD FLOW AND METABOLISM 1,1981-- RAVEN PRESS NEW YORK ON ORDER J15565000 \$95.00</p>	<p>UNITED STATES</p>		<p>IM SOCIAL SCIENCE AND MEDICINE: PART A. MEDICAL SOCIOLOGY 15,1981-- PERGAMON PRESS CONTINUES IN PART SOCIAL SCIENCE AND MEDICINE: MEDICAL PSYCHOLOGY AND MEDICAL SOCIOLOGY. OXFORD IN PROCESS S28702000</p>	<p>ENGLAND</p>
	<p>JOURNAL OF NEPHROLOGY FALL, 1981-- CHARLES B. SLACK THOROFARE NJ ON ORDER J30910000 \$35.00</p>	<p>UNITED STATES</p>		<p>IM SOCIAL SCIENCE AND MEDICINE: PART E. MEDICAL PSYCHOLOGY 15,1981-- PERGAMON PRESS CONTINUES IN PART SOCIAL SCIENCE AND MEDICINE; PART A. MEDICAL PSYCHOLOGY AND MEDICAL SOCIOLOGY. OXFORD IN PROCESS S28703000</p>	<p>ENGLAND</p>
	<p>JOURNAL OF SOMATIC EXPERIENCE 1,1978-- HUMAN SCIENCES PRESS NEW YORK SAMPLE J39070000</p>	<p>UNITED STATES</p>			
IM	<p>JOURNAL OF SUPRAMOLECULAR STRUCTURE AND CELLULAR BIOCHEMISTRY 15,1981-- ALAN R LISS CONTINUES JOURNAL OF SUPRAMOLECULAR STRUCTURE. NEW YORK IN PROCESS J39830000</p>	<p>UNITED STATES</p>			

INDEX

Numbers in this index refer to hierarchical sections, not to pages, of the Manual. For example, the entry Pre-explosions has the reference 4.5.4.1 which means:

4	Part 4 - ELHILL Searching
4.5	Special Search Capabilities
4.5.4	Explosions
4.5.4.1	Pre-explosions

In general, the first number given is for the general discussion of that entry unless there is a subentry for definition or discussion. Many entries do have subentries to indicate the content of the section, e.g.,

Online services, NLM	
charges	1.6
hours	1.5

Subentries with no corresponding section numbers serve to explain more fully the information found in the next higher entry; refer to the number of the higher level entry. For example:

PRINT command	
BIOETHICS (Table)	21.3
Standard	21.5
PRINT (PRT)	
PRINT DETAILED (PRT DL)	
PRINT FULL (PRT FU)	

A plus sign following a number indicates that further subdivisions (which are not listed but which do pertain to the subject entry) exist, e.g., Audiovisuals 9+ means that all of PART 9 - AVLINE deals with audiovisuals.

Under each database name is an alphabetical listing of data elements found in its unit record. All mnemonics for data elements appear in the index filed as one word with their English language equivalents enclosed in parentheses, e.g.,

HT (Hierarchical terms)	
CANCERPROJ	17.3.8
	17.4
CLINPROT	18.3.8
Hyphen	
as term delimiter in TOXLINE	12.6.1

The names of all data elements are likewise indexed with their two-letter mnemonic abbreviations enclosed in parentheses, e.g.,

Hierarchical terms (HT)	
CANCERPROJ	17.3.8
	17.4
CLINPROT	18.3.8

Commands and messages have been indexed individually as well as under the general entries of Commands, Communications messages, and Program messages. Cross references have been kept to a minimum by the method of repeating necessary information throughout the index; however cross references from old mnemonics to their standardized mnemonics are in the index.

Filing in this index is word by word with numerics preceding alphabetic and ignoring internal punctuation, e.g.,

Publication date (PD) see Date of publication (DP)
Publication, place of
Publication type (PT)

Entries which are not followed by qualifiers in parentheses precede entries which do have qualifiers, e.g.,

Language subheadings
Language subheadings (SH)

In entries which have more than one qualifier, alphabetical order is determined by the qualifiers, e.g.,

CT (Citation terms) see CW (Citation words)

CT (Content note)
AVLINE 9.5.12
CATLINE 8.5.13

THE NLM TECHNICAL BULLETIN

AUGUST 1981

NO. 148

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U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
 Public Health Service
 National Institutes of Health

NLM TECHNICAL BULLETIN - AUG 81

DATABASE	TOTAL RECORDS	DATES COVERED	DATE LAST UPDATED	LATEST UPDATE TAG
*AVLINE	10,093	THROUGH 1981	14 AUG 81	
*BIOETHICS	11,846	JAN 73-FEB 81	05 JUN 81	8106(EM)
*CANCERLIT	264,682	JAN 63-AUG 81	17 AUG 81	8108(EM)
*CANCERPROJ	20,276	1978-1981	28 JUL 81	8107(EM)
*CATLINE	253,481	THROUGH 1981	14 AUG 81	
*CHEMLINE	500,555		13 JUL 81	8107(EM)
*CLINPROT	2,611		16 JUL 81	8107(EM)
*EPILEPSY	36,472	1945-PRESENT	20 OCT 80	
HEALTH	182,336	JAN 75-SEP 81	10 AUG 81	8109(EM)
*HISTLINE	46,385		13 AUG 81	8108(EM)
MEDLINE	565,575	JAN 79-SEP 81	03 AUG 81	8109(EM)
MED77	511,005	JAN 77-DEC 78	15 DEC 80	
+MED75	642,953	JAN 75-DEC 76	15 DEC 80	
+MED72	669,106	JAN 72-DEC 74	15 DEC 80	
+MED69	668,257	JAN 69-DEC 71	15 DEC 80	
+MED66	501,801	JAN 66-DEC 68	15 DEC 80	
MESH VOC	40,933	1981	10 AUG 81	
*NAME AUTH	117,233		17 AUG 81	
*POPLINE	79,042	1970-AUG 81	10 AUG 81	8108(EM)
*RTECS	47,217	1979 ED.-APR 81	12 JUN 81	
SDILINE	22,610	SEP 81	03 AUG 81	
*SERLINE	37,764	1981	02 JUL 81	
*TDB	3,222		17 AUG 81	
*TOXLINE	515,721		27 JUL 81	8107(EM)
CBAC	255,150	1977-VOL 33(10,11)		
TOXBIB	83,847	1977-JUL 81		
IPA	21,223	1977-VOL 17(23), VOL 18(1,2)		
HEEP	57,386	1977-VOL 10(7)		
PESTAB	12,022	1977-VOL 14(6)		
EMIC	31,486	1960-APR 81		
ETIC	20,946	1950-MAR 81		
RPROJ	27,738	1978-AUG 81		
TD3	4,248	JAN/MAY 81		
*TOXBACK74	275,506		10 SEP 80	
CBAC	147,332	1974-1976		
TOXBIB	65,433	1974-1976		
IPA	17,582	1974-1976		
HEEP	37,198	1974-1976		
PESTAB	7,961	1974-1976		
+TOXBACK65	387,377		10 SEP 80	
CBAC	196,015	1965-1973		
TOXBIB	112,170	1968-1973		
IPA	21,973	1970-1973		
HEEP	29,662	1971-1973		
HAPAB	12,966	1966-1973		
HAYES	10,039	1940-1966		
TMIC	4,552	1971-1975		

1) * = NLM ONLY

2) + = AVAILABLE ONLY THRU OFFSEARCH

Editor: Carolyn B. Tilley
 Assistant Editor: Rose Marie Woodsmall
 Technical Notes Editor: Patti Patterson
 301/496-6193

Direct inquiries to:
 MEDLARS Management Section
 National Library of Medicine
 8600 Rockville Pike
 Bethesda, Maryland 20209

TECHNICAL NOTES

Whenever applicable, the headings of each Technical Note will include a reference to the section of the NLM Online Services Reference Manual which is considered most relevant to the item being discussed (e.g., Manual 2.9). Users should keep in mind that the item may pertain to other sections of the Manual.

DEMONSTRATION CODES - A demonstration code normally has the following profile:

```

SS 1 /C?
USER:
PROFILE LIST
PROG:
PASSWORD      XXXXX
PAGELENGTH    00025
PAGEWIDTH     00072
PROFILE COMPLETED.
    
```

If any of the specifications are changed for a demonstration (e.g., adding a stored address, increasing page length), please remember as a courtesy to others to change the profile back to the normal configuration.

AMPLIFIER FOR TEXAS INSTRUMENTS MODEL 785 TERMINAL - The Texas Instruments model 785 terminal is sensitive to noise generated by the carbon amplifier, which is standard equipment in most telephone mouthpieces. The noise generated by the carbon particles may cause the user to be dropped from the system. A condenser (linear) microphone can be easily installed to eliminate this noise problem.

SORT MESSAGE EXPLANATION - The SORT message, SORT WAS NOT REQUESTED, is routinely printed on all offline prints and offsearches when a searcher has chosen not to arrange the retrieval in either alphabetical or numerical order. This is not an error message, but merely a standard way of informing users of the status of the printout.

SORT FOR AUTOMATIC SDIs - NLM is planning to introduce the SORT capability in the Automatic SDI Program sometime in the fall of 1981. Watch for an announcement later this year.

MESH VOCABULARY FILE -- DATA ELEMENT PA - The MeSH VOCABULARY file data element PHARMACOLOGICAL ACTION (PA), which occurs on chemical term records, now prints as the last data element in a PRINT STANDARD command.

MESH TOOLS, 1982 - The following 1982 MeSH tools are now available from NTIS:

Annotated MeSH, 1982 PB81-227480 Price \$17.00
 Tree Structures, 1982 PB81-227472 Price \$12.00

Orders for the 1982 Permuted MeSH may be placed with NTIS now for a late October 1981 mailing date:

Permuted MeSH, 1982 PB81-227464 Price \$12.00

CANCERPROJ/CLIN-
 PROT INDEX TERMS
 (Manual PARTS
 17 & 18)

- A cumulated listing of the CLINPROT hierarchical index terms, July 1981, is enclosed with this issue. A copy has been sent to all users since there have been numerous changes made for the July update. Also, a new copy of the CANCERPROJ index terms for July will be sent to those who request it from either MEDLARS Management or the International Cancer Research Data Bank, Westwood Building, 10A-18, Bethesda, MD 20205.

CORRECTION
 CHARACTERS
 (Manual 4.4.1)

- The following are the correction characters that can be used on each computer for deletion of a single character:

	<u>NLM</u>	<u>SUNY</u>
Control H	Yes	No
Backward Arrow (←)	Yes	No
Backward Slash (\)	Yes	Yes
Backspace	Yes	No
Underscore	Yes	No
Control 7 creates the Backward Slash (\) on TI 785	Yes	Yes

The dollar sign (\$) will delete an entire line of input at both NLM and SUNY. MEDLEARN (at NLM) specifies the allowable correction character for your particular terminal.

PLEASE TYPE NEWS TO SEE MOST RECENT NEWS ITEMS ONLINE

NATIONAL LIBRARY OF MEDICINE INTERLIBRARY LOAN REQUEST STANDARDS
 Jim Cain, Circulation and Control Section, NLM

While NLM staff has filled more than 147,800 interlibrary loan requests so far this fiscal year (October 1980 - July 1981), more than 20,000 requests have been rejected by NLM's Circulation and Control Section during this period. "Rejects" are requests that are returned with no or limited searching because the form was incorrectly filled out, the material requested was out of scope, the request did not follow the Regional Medical Library Network procedures, etc. Rejection and subsequent resubmission of a request adds an estimated two weeks to processing time. Librarians can avoid such delays by rechecking their requests, before they are sent, against the standards that follow. NLM in turn will make every effort to provide quality service for document delivery as expeditiously as possible.

Standards:

1. Requests must be submitted on either standard ALA Interlibrary Loan Request Forms in triplicate, or by TWX. Examples of both, with guidelines for use, follow after the standards.
2. Requests must be signed (ALA form) by the individual responsible for interlibrary loans. On TWX requests the name of the responsible individual must be entered.
3. Requests for photocopy service must carry a statement of U. S. Copyright Compliance. Either conformance to the copyright law (CCL) or the copyright guidelines (CCG) must be indicated, but not both. NLM prefers that requests for original loans also carry the statement in order to facilitate the initial sorting process.
4. Citations should contain the required bibliographic elements. NLM prefers that requests be verified, though this is not required. Those requests that are not verified will receive limited searching while verified requests will be searched more thoroughly. If there are insufficient bibliographic elements to attempt a search, the request will be rejected immediately.

 If the verification gives an NLM database as the source of the citation, state the specific name of the file from which the citation has been taken. MEDLINE is only one of our 19 databases. Do not put "MEDLINE" if the citation was found, for example, in TOXLINE or CATLINE.

 If a citation is from an NLM database, and the NLM Call Number is present, this must be included on the request, or the request may be returned.
5. Requests must include a complete address with zip code. TWX users please take note of this point.
6. Requests must be submitted one per ALA form or TWX message. Our system of locating and processing items requires that each item must be requested on a separate form.
7. Requests must be typed.

8. Requests must be submitted through a library. Materials are available only as interlibrary loans, and not directly to individuals.
9. Requests must follow the RML Network procedures. Only certain libraries may submit requests directly to NLM; all others must send their requests to a Resource or Regional Library. (Foreign libraries may submit directly if the material requested is not available locally.)
10. The subject content of requests must be within the scope of the NLM collection. (The Scope and Coverage Manual of the National Library of Medicine is available from the National Technical Information Service, PB-271-252, \$5.25.)

USE OF TELETYPEWRITER EXCHANGE SERVICES
FOR INTERLIBRARY LOAN REQUESTS
(Revised June, 1981)

The National Library of Medicine can access requests through two teletypewriter exchange services as part of its program to speed interlibrary loan service. Through the Western Union service the numbers are 710-824-9615 and 710-824-9616. Through the Bell System service the number is 301-492-1817.

The format to be used for teletypewriter requests is based on the standard ALA interlibrary loan form. To facilitate teletype use, examples of requests are shown on the next page.

Message identification. Every request must contain, as the second line of information, the date of transmission, immediately preceded by the serial number of the message. When several requests are included in a single message transmission, each separate request must bear its own date, identification number, and return address, since copies of articles are forwarded in a specially designed mailer which uses a copy of the loan request for the address. The mailing address must include the ZIP CODE.

Standard abbreviations (followed by the sequential serial number and date) will be used to identify the type of message, and will be considered as part of the serial number:

ILLRQ - Interlibrary Loan Requests.
ILLRP - Interlibrary Loan Reports.

Each message should be numbered sequentially to permit rapid referral in replies. Message date should read as follows: 22/JUN/81.

Please insert 5 or 6 spaces between messages to allow speedier separation of messages.

Message fees. The borrowing library will pay all teletypewriter message fees involving ILL communication with NLM.

SAMPLE OF TELETYPEWRITER ILL REQUEST FOR A PERIODICAL ARTICLE

DNLMBETHESDA

ILLRQ 88 19/APR/81

INTERLIBRARY LOAN
DUKE UNIVERSITY MEDICAL CENTER LIBRARY
DURHAM, NORTH CAROLINA 27706

DR. J. SMITH RESIDENT OB-GYN

NEW ZEAL MED J 59: (DEC) 1960
LILEY, A. W. : TECHNIQUES AND COMPLICATION OF AMNIOCENTESIS
581-596.

VER: CIM 2: A-844, 1961

AUTHR: J. BROWN (Name of authorizing official)

REMARKS: WE LACK THIS VOLUME.

CCL (or CCG)

END ILLRQ 88
NDC-M DURHAM
END

SAMPLE OF TELETYPEWRITER ILL REQUEST FOR A BOOK

DNLMBETHESDA

ILLRQ 89 19/APR/81

INTERLIBRARY LOAN
DUKE UNIVERSITY MEDICAL CENTER LIBRARY
DURHAM, NORTH CAROLINA 27706

DR. J. SMITH RESIDENT SURGERY

EUSTERMAN, GEORGE BYSSHE
THE STOMACH AND DUODENUM. SAUNDERS, PHILA., 1936.

VER: INDEX CAT. (S.4) 5:664, 1940

AUTHR: J. BROWN (Name of authorizing official)

CCL (or CCG)

END ILLRQ 89
NCD-M DURHAM

END.

DIRECTIONS FOR PREPARING REQUEST FOR ARTICLE IN PERIODICAL

STANDARD FORM 162 (REV. 5 - 78)

Prescribed by Library of Congress Interlibrary Loan Code

Not needed after: (2) 4/5/79 Requester's order no. (3) 79-152

INTERLIBRARY LOAN REQUEST

Request for LOAN or PHOTOCOPY
According to the A.L.A. Interlibrary Loan Code and the Federal Library Committee's I.L.L. Code

REPORTS: Checked by
SENT BY: Library rate
Charges \$ _____ Insured for \$ _____
Date sent _____
DUE _____

RESTRICTIONS: For use in library only.
 Copying not permitted _____

NOT SENT BECAUSE: In use Not Owned
 Non Circulating
 Request of _____

Estimated Cost of: Microfilm _____
 Hard copy _____

BORROWING LIBRARY RECORD:
Date received _____
Date returned _____
By Library rate _____
Postage enclosed \$ _____ Insured for \$ _____
RENEWALS: No renewals
Requested on _____
Renewed to _____

(or period of renewal)
Note the receiving library assumes responsibility for notification of non-receipt

162-102

(1)

Date of request: 3/2/79

Call No.	NAME AND ADDRESS OF BORROWING LIBRARY
(5)	
W1	
J0542k	

A
REQUEST

For use of (6) J. Smith Status (7) Resident Dept. (8) Int. Med.
Book author: OR: periodical title, vol. and date

(9) Journal of Applied Physiology
v. 18 July 1963

Book title, edition, place, year, series: OR: periodical article author, title, pages. This edition only.

(10) Mohammed, S. Thermal indicator sampling and injection sites for cardiac output.

pp. 742-45

Verified in: OR: item cited in (11) Cumulated Index Medicus-v.-4 1963

ISBN, or ISSN, of LC card, or OCLC, or other number if known p. A-946

If non-circulating, & cost does not exceed \$ _____, please supply Microfilm Hard copy.

(12) National Library of Medicine Circulation and Control Section 8600 Rockville Pike Bethesda, Maryland 20209

(13) Request complies with
 108(g)(2) Guidelines (CCG)
 other provisions of copyright law (CCL)
AUTHORIZED BY: (14) _____ (Signature)
(FULL NAME) Title ILL Librarian

1. Date request is prepared.
2. Date after which material is no longer needed.
3. Requester's order number.
4. Complete name and address of borrowing library including zip code.
This address is used as the mailing label for the completed request.
If more than one request is sent at one time, complete name and address must be included on each form.
5. NLM call number - for items verified in NLM database or publications.
- 6-8. Identification of borrower for whom request is made.
9. Complete title of periodical, volume, number and date (Do not enter author of article in this space.)
10. Complete citation: author, title of article and inclusive pagination.
11. Complete bibliographic source of reference, i.e.: Cumulated Index Medicus, v.4, 1963, p.A -946.
12. Complete address of the National Library of Medicine.
13. Statement of compliance with the U.S. Copyright Law. Check only one box, whichever applies. This is required.
14. Signature and title of librarian or staff member authorized to request loans.

PREPARE A SEPARATE FORM FOR EACH ITEM REQUESTED.
DETACH AND RETAIN BOTTOM SHEET OF FORM ONLY.
ALL REQUESTS MUST BE TYPED.

DIRECTIONS FOR PREPARING REQUEST FOR LOANS OF ORIGINAL MATERIAL

STANDARD FORM 162 (REV 5 - 78)

Prescribed by Library of Congress Interlibrary Loan Code

Date of request (1) 6/18/81 Not needed after (2) 7/18/81 Requester's order no (3) 81-35

Call No (5) QZ 4 qM823t 1951	NAME AND ADDRESS OF BORROWING LIBRARY
---	--

A
REQUEST

For use of (6) J. Smith Status (7) Resident Dept (8) Int. Med.
Book author OR periodical title, vol and date
(9) Moore, Robert Allen

Book title, edition, place, year, series OR periodical article author, title, pages This edition only

(10) Textbook of Pathology. 2d ed., 1951
Saunders, Philadelphia

Verified in OR item cited in (11) CRI 1949-52 p. 1290
ISBN or ISSN, of LC card, or OCLC, or other number if known _____
If non-circulating, & cost does not exceed \$ _____, please supply Microfilm Hard copy

(12) National Library of Medicine Circulation and Control 8600 Rockville Pike Bethesda, Maryland 20209

(13) Request complies with
 108(g)(2) Guidelines (CCG)
 other provisions of copyright law (CCL)
AUTHORIZED BY (14) (Signature)
(FULL NAME) Title ILL Librarian

INTERLIBRARY LOAN REQUEST

Request for LOAN or PHOTOCOPY
According to the A L A Interlibrary Loan Code
and the Federal Library Committee's I L L Code

REPORTS: Checked by _____
SENT BY Library rate _____
Charges \$ _____ Insured for \$ _____
Date sent _____
DUE _____

RESTRICTIONS: For use in library only
 Copying not permitted _____

NOT SENT BECAUSE: In use Not Owned
 Non Circulating
 Request of _____

Estimated Cost of Microfilm _____
 Hard copy _____

BORROWING LIBRARY RECORD:
Date received _____
Date returned _____
By Library rate _____
Postage enclosed \$ _____ Insured for \$ _____

RENEWALS: No renewals
Requested on _____
Renewed to _____
(or period of renewal)

Note the receiving library assumes responsibility for notification of non receipt

162-102

1. Date request is prepared.
2. Date after which material is no longer needed.
3. Requester's order number.
4. Complete name and address of borrowing library including zip code.
This address is used as the mailing label for the completed request.
If more than one request is sent at one time, complete name and address must be included on each form.
5. NLM call number - for items verified in NLM database or publications.
- 6-8. Identification of borrower for whom request is made.
9. Name of author or editor with first name or initial.
10. Title of book with edition, date and place of publication.
11. Complete bibliographic source of reference.
12. Complete address of the National Library of Medicine.
13. Check only one box in the copyright compliance area--not both. This speeds the processing of the request during the initial sorting of incoming requests, and is needed in case a few pages, chapter, or table of contents can be supplied for non-circulating material.
14. Signature and title of librarian or staff member authorized to request loans.

PREPARE A SEPARATE FORM FOR EACH ITEM REQUESTED.
DETACH AND RETAIN BOTTOM SHEET OF FORM ONLY.
ALL REQUESTS MUST BE TYPED.

NON-NLM TITLES IN NLM ONLINE FILES:
 INTERLIBRARY LOAN LIBRARIANS TAKE NOTE!
 Jim Cain, Circulation and Control Section, NLM

Please note that in POPLINE, HEALTH and several "Special List" indexes (e.g., Dental and Nursing) some serials are included that are not in the NLM collection. These titles are indicated in SERLINE by: 1. a note stating they are not in the NLM collection, and 2. the indexing source instead of a call number in the Call Number (CA) field. This is illustrated in the following SERLINE record:

TI - ACADEMY OF MANAGEMENT REVIEW
 TA - ACAD MANAGE REV
 FL - 1,1958--
 PL - MISSISSIPPI STATE MS
 PU - MISSISSIPPI STATE UNIVERSITY
 GN - THIS TITLE IS NOT IN THE NLM COLLECTION — GENERAL NOTES FIELD
 IS - 0001-4273
 AI - PA
 AI - HLI
 AI - MAP
 FR - G
 OC - OPEN
 LA - ENG
 CY - UNITED STATES
 CA - AHA — INDEXING SOURCE: AHA
 UI - A02730000

To avoid delays and confusion, do not send requests for these non-NLM titles directly to NLM. NLM does not refer loans to these "Special List" indexing sources. Such requests are returned to the requesting library. If the item is not available through the RML Network, you may wish to contact these sources directly for their loan and photocopy policies. A list of possible values for the Call Number (CA) field with addresses of the organizations to contact follows:

- ADA - Bureau of Library Services
 American Dental Association
 211 East Chicago Avenue
 Chicago, Illinois 60611

- AHA - Library of the American Hospital Association
 840 North Lake Shore Drive
 Chicago, Illinois 60611

- ANA - American Journal of Nursing Company
 Library
 555 West 57th Street
 New York, New York 10019

CPFH - Population Information Program Resource Center
Johns Hopkins University
624 North Broadway
Baltimore, Maryland 21205

Attn: Document Delivery

PIP - Center for Population and Family Health
Library/Information Program
Columbia University
60 Haven Avenue
New York, New York 10032

Attn: Document Delivery

\$ensible \$earching

Do you perform current awareness or SDI (Selective Dissemination of Information) searches each month? If so, you can save money by participating in the NLM Automatic SDI program. At the present time, searches can be processed automatically against the SDILINE (current MEDLINE month), TOXLINE, and CANCERLIT databases. Updates are provided monthly for all three databases. The cost is minimal: connect time used for initially storing the search (a one-time charge) and page charges for each monthly printout. There is no charge for storage of the search or for monthly processing.

The Automatic SDI program is available on the NLM computer only (not SUNY). All users have access to the Automatic SDI service databases at NLM, i.e., SDILINE, TOXLINE, and CANCERLIT. Part 5 of the Online Services Reference Manual contains detailed instructions on storing your searches and initiating the service. Please call the MEDLARS Management Service Desk if you have questions regarding the procedure. The basic steps are as follows:

- > Login to the NLM computer
- > Enter the appropriate file (SDILINE, TOXLINE, CANCERLIT)
- > Store the search strategy using the STORESEARCH command. Be sure to name the search following both STORESEARCH naming conventions and Automatic SDI conventions.
- > Complete and send the Automatic SDI Request Form (see Part 5.12 of the Manual) to MMS.

The monthly printouts are sent to you for further distribution to your users. Once the service has been started, additional searches can be stored as the need arises. Likewise, searches no longer needed can be deleted by using the PURGESEARCH command.

REPRODUCTIVE TOXIC EFFECTS DATA IN RTECS

Jeanne C. Goshorn & Carolyn G. McHale, Specialized Information Services, NLM

As reported in the June 1981 issue of the NLM Technical Bulletin, the National Institute of Occupational Safety and Health (NIOSH) has expanded its reporting of reproductive toxic effects found in mammalian toxicity studies. This additional information has been incorporated into the Toxicity Data Keyword (TDKW) field of the RTECS file. Remember that the Toxicity Data Index Strings (IX) is the search category and the Toxicity Data Keyword (TDKW) is the print category. A study reporting reproductive effects will include the index terms TOXIC EFFECTS and REPRODUCTIVE in the TDKW field. (See the June 1981 NLM Technical Bulletin for additional reproductive effects terms.)

In order for the online user to be able to interpret the data presented in the TDKW field, the criteria used for reporting these reproductive toxic effects will be presented and clarified.

Basic criteria for reporting data:

- Only positive results are reported
- Only mammalian reproductive data are reported
- No in vitro teratogenesis data are reported
- Only dose amounts resulting in statistical significant effects are reported
- Total amount of a substance administered to both parents is reported
- Time of administration of substance is reported
- Multigeneration studies are reported
- Surveillance studies are reported

Further understanding of the last four criteria is essential for the accurate interpretation of the data presented in the TDKW field for these reproductive toxic effects.

Dose Amounts:

The RTECS article in the June 1981 issue of the Bulletin indicated a reference system using "M," "M/F," " " " attached to the dose amount to indicate parent(s) receiving the substance. Instead, the word "male" will be used to designate exposure of the male parent. No designation of sex will indicate exposure of the female parent. The dose amount value will still be reported as the total amount received by both parents. If both parents receive the dose, the amount given to each is not specified.

Time of Administration:

The time of administration of a substance is an important consideration and is contained in the TDKW field when available. This information follows the total amount administered and enclosed in parentheses. The time of administration is divided into four categories:

1. Indicated by the word MALE:
Total number of days of administration to males prior to copulation
2. Indicated by the word PRE:
Total number of days of administration to females prior to copulation
3. Indicated by the word PREG:
First day of administration to pregnant females during gestation

Last day of administration to pregnant females during gestation
4. Indicated by the word POST:
Total number of days of administration to lactating mother after birth of offspring

Example:

TDKW - SUBCUTANEOUS;MOUSE;RODENTS;TDLo;450 mg/kg/(6-14D preg);TOXIC EFFECTS
TERATOGENIC;REPRODUCTIVE;FERTILITY;DEVELOPMENTAL

Interpretation:

1. Route - subcutaneous
2. Species - mouse
3. Generic species - rodent
4. Study Type - TDLo (Toxic Dose Low)
5. Value - 450 mg/kg/ - amount of substance administered
6. Time of administration - (6-14D preg)
First dose of substance is administered on the 6th day of gestation of a pregnant female.

Last dose of substance is administered on the 14th day of gestation of a pregnant female.

If only one day is given (e.g., 14D preg) it can be assumed to be the only dose administered.
7. Toxic effects - Teratogenic; reproductive; fertility; developmental (Teratogenic is the term used previous to the new reproductive effects notation and will soon be dropped.)

The time of administration can appear in multiple formats if both parents receive the substance.

(3D male/4D pre/1-7D preg/10D post)

Interpretation:

1. Male received substance for 3 days prior to copulation
2. Female received substance for 4 days prior to copulation
3. Pregnant female received substance from the 1st to 7th day of gestation.
4. Lactating female received substance for 10 days after birth of offspring.

Multigeneration Studies:

When multigeneration studies are reported, the abbreviation MGN will follow the dose amount.

Surveillance studies:

Surveillance type studies of reproduction in human populations are reported in the RTECS file. However, this information is found in the TOXICOLOGY AND CANCER REVIEWS data element (Text Word searchable) rather than the TDKW field.

ANSWER TO LAST MONTH'S "KNOW YOUR STRATEGY"

The three strategies may be expanded, - or restated, - as follows:

Strategy A

(a and c and d), or
(b and c and d).

Strategy B

(a and c), or
(a and d), or
(b and c), or
(b and d).

Strategy C

(a and c and d), or
(b and c and d), or
(a and b and c), or
(a and b and d).

It becomes apparent that each of the four component statements in Strategy C corresponds to one of the components of Strategy B, but that each of the Strategy C components has one additional "ANDed" term, limiting the potential retrieval. Because Strategy A contains only two of the four "ORed" components of Strategy c, its potential is still more limited. So Strategy B may retrieve more than Strategy C which, in turn, may retrieve more citations than Strategy A.

NEW SERIALS ANNOUNCEMENT - JUL 1981
 Serial Records, Technical Services Division, NLM

The following substantive serial titles were received or ordered by the Serial Records Section. IM to the left of the title indicates that the title appears in Index Medicus. ON ORDER, IN PROCESS, or an actual NLM call number appears at the bottom of the entry. Please include the NLM call number on interlibrary loan requests. Of course, NLM cannot fill loans for titles not yet received by the Library. The list is offered as an early announcement and will include price information if known. Information provided is not authorized NLM cataloging data. For further information, contact Ms. Janice Lennox, 301/496-1276, Technical Services Division, NLM.

<p>IM ACTA EMBRYOLOGIAE ET MORPHOLOGIAE EXPERIMENTALIS NS1,1980-- HALOCYNTHIA ASSOCIATION SUPERSEDES ACTA EMBRYOLOGIAE EXPERIMENTALIS. PALERMO ITALY IN PROCESS A05240000</p> <p>ADVANCES IN CELL CULTURE 1,1981-- ACADEMIC PRESS NEW YORK UNITED STATES IN PROCESS A13505000</p> <p>AKTUELLE ONKOLOGIE 1,1981-- W.ZUCKSCHWERDT VERLAG MUNCHEN GERMANY, WEST ZUCKSCHWERDT VERLAG GMBH, WALDKLAUSENWEG 3, D-8000 MUNCHEN 70, WEST GERMANY IN PROCESS A19340950</p> <p>AMERICAN JOURNAL OF SOCIAL PSYCHIATRY IN1, APR 1981-- AMERICAN ASSOCIATION FOR SOCIAL PSYCHIATRY SANTA BARBARA CA UNITED STATES 2323 OAK PARK LANE, SANTA BARBARA, CALIFORNIA, 93105; (805) 682-7784 IN PROCESS A24935000 \$30.00</p>	<p>CURRENT HEMATOLOGY 1,1981-- WILEY MEDICAL NEW YORK UNITED STATES ON ORDER C55723000 \$55.00</p> <p>HUMAN TOXICOLOGY 1,1981-- MACMILLAN PUBLISHERS BASINGSTOKE ENGLAND MACMILLAN PUBLISHERS, HOUNDSMILLS, BASINGSTOKE, HAMPSHIRE RG21 2XS ON ORDER H22617000 \$95.00</p> <p>HYPERLIPOPROTEINAEMIAS AND ATHEROSCLEROSIS 1,1979-- EDEN PRESS MONTREAL CANADA 1538 SHERBROOKE STREET WEST, SUITE 201, MONTREAL, QUEBEC H3G 1L5 CANADA IN PROCESS H23805000</p> <p>INTERNATIONAL JOURNAL OF PERIODONTICS AND RESTORATIVE DENTISTRY IN1,1981-- QUINTESSENCE PUBLISHING COMPANY CHICAGO UNITED STATES QUINTESSENCE PUBLISHING COMPANY, INC., 10 SOUTH LA SALLE STREET, SUITE 1338 CHICAGO, ILL. 60603 ON ORDER I27692000</p> <p>INTERNATIONAL SYMPOSIUM MUNSTER 1, JAN 1980-- GEORG THIEME VERLAG STUTTGART GERMANY, WEST HERDWEG 63, P.O. BOX 732, D 7000 STUTTGART 1, FRG IN PROCESS I33585000</p>
<p>IM ANNALES DE PATHOLOGIE NS1,1981-- MASSON CONTINUES: ANNALES D ANATOMIE PATHOLOGIQUE. PARIS FRANCE WI AN374C A33110000</p> <p>CHUNG-HUA WEI SHENG WU HSUEH HO MIEN I HSUEH TSA CHIH = ZHONGHUA WEISHENGWUXE HE MIANYIXUE ZAZHI = CHINESE JOURNAL OF MICROBIOLOGY AND IMMUNOLOGY 1, FEB 1981-- CHINESE MEDICAL ASSOCIATION BEIJING CHINA IN PROCESS C21231000</p>	

IM ISRAEL JOURNAL OF PSYCHIATRY AND RELATED SCIENCES
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IM POPULATION REPORTS. SERIES M; SPECIAL TOPICS
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IM REVIEWS IN PURE AND APPLIED PHARMACOLOGICAL SCIENCES
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SOCIOECONOMIC ISSUES OF HEALTH
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 AMERICAN MEDICAL ASSOCIATION
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TOXICOLOGICAL AND ENVIRONMENTAL CHEMISTRY
 3N3/4,MAR 1981--
 GORDON AND BREACH SCIENCE PUBLISHERS
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 NEW YORK UNITED STATES
 GORDON AND BREACH, SCIENCE PUBLISHERS, ONE PARK AVENUE, NEW YORK N.Y. 10016
 IN PROCESS
 T13795000

CLINPROT INDEX TERMS

JULY 1981

The frequencies appearing on the attached list are included to assist you in formulating searches before going online.

All terms preceded by an asterisk (*) are broad category terms, which are not used to index records. The frequency number following these terms represents the total number of projects indexed to specific terms indexed under the broad category. You will receive a No Postings message should you enter an asterisk term in CLINPROT.

To retrieve protocols using Subject Captions (SC) the most specific terms must be used. When all protocols within a broad category are desired, one must enter the Hierarchical Subject Code in truncated form.

CLINPROT INDEX TERMS JULY 1981
CAPTIONS

CODES		FREQUENCY
0780.	*Clinical Protocols	2611
0780.05	*Cancer Types	1111
0780.05.005	*Leukemia	353
0780.05.005.10	Acute Lymphocytic Leukemia	135
0780.05.005.20	Acute Nonlymphocytic Leukemia	139
0780.05.005.25	Acute Leukemia-unspecified	77
0780.05.005.30	Chron Lymphocytic Leukemia	24
0780.05.005.40	Chron Nonlymphocytic Leukemia	49
0780.05.005.70	Extramedullary Leukemia	24
0780.05.005.97	Leukemia-unspecified	17
0780.05.015	*Lymphoma	217
0780.05.015.10	Hodgkin'S Disease	97
0780.05.015.20	Reticulum Cell Sarcoma	20
0780.05.015.30	Lymphosarcoma	16
0780.05.015.90	Lymphoma -ot	26
0780.05.015.95	Lymphoma-unspecified	133
0780.05.030	Myeloma	67
0780.05.040	Polycythemia Vera	9
0780.05.045	Mycosis Fungoides	8
0780.05.050	Hematologic Cancer-unspecified	18
0780.05.052	Germ Cell Tumors	24
0780.05.055	*Pediatric Solid Tumors	127
0780.05.055.10	Wilm'S Embryoma	18
0780.05.055.20	Neuroblastoma	47
0780.05.055.30	Retinoblastoma	7
0780.05.055.40	Rhabdomyosarcoma	26
0780.05.055.50	Ewing'S Sarcoma	30
0780.05.055.60	Histiocytosis	8
0780.05.055.95	Ped. Solid Tumors-other	6
0780.05.055.97	Ped. Solid Tumors-unspecified	28
0780.05.061	*Skin Tumors	197
0780.05.061.05	Melanoma	192
0780.05.061.95	Skin Tumor -ot.	8
0780.05.065	*Sarcoma	159
0780.05.065.10	Osteogenic Sarcoma	98
0780.05.065.20	Soft Tissue Sarcoma	121
0780.05.070	Carcinoid	5
0780.05.080	Solid Tumors-unspecified	66
0780.05.090	Cancer-unspecified	55
0780.07	*Disease Parameters	1525
0780.07.010	Metastatic Disease	983
0780.07.020	Nonmetastatic Disease	198
0780.07.030	Resectable Tumor	190
0780.07.040	Nonresectable Tumor	393
0780.07.050	Recurrent Disease	412
0780.07.995	Disease Parameters-other	5
0780.10	*Body Sites	1652
0780.10.010	Breast	368
0780.10.020	*Central Nervous System	101
0780.10.020.10	Brain	97
0780.10.020.95	CNS-other	7
0780.10.030	*Endocrine System	18
0780.10.030.10	Adrenal	2
0780.10.030.20	Endocrine Pancreas	8

CODES	CLINPROT INDEX TERMS CAPTIONS	JULY 1981 FREQUENCY
0780.10.030.30	Thyroid	8
0780.10.040	*Gastrointestinal System	370
0780.10.040.10	Esophagus	45
0780.10.040.20	Stomach	91
0780.10.040.30	Pancreas	76
0780.10.040.40	Liver/Gall Bladder	41
0780.10.040.50	Colorectal	199
0780.10.040.97	Gastrointestinal-unspecified	25
0780.10.050	*Genitourinary System	229
0780.10.050.10	Bladder	79
0780.10.050.20	Kidney	62
0780.10.050.30	Prostate	65
0780.10.050.40	Testis	56
0780.10.050.95	Genitourinary-other	5
0780.10.050.97	Genitourinary-unspecified	9
0780.10.060	*Gynecologic System	206
0780.10.060.10	Cervix	64
0780.10.060.20	Ovary	113
0780.10.060.30	Uterus	36
0780.10.060.50	Vagina	3
0780.10.060.60	Vulva	7
0780.10.060.97	Gynecologic-unspecified	14
0780.10.070	Head & Neck	147
0780.10.075	Mesothelioma	9
0780.10.080	*Lung	367
0780.10.080.10	Lung-Small Cell (Oat Cell)	116
0780.10.080.20	Lung-Adenocarcinoma	134
0780.10.080.30	Lung-Large Cell	115
0780.10.080.40	Lung-Squamous Cell	135
0780.10.080.97	Lung-unspecified	93
0780.10.993	Body Sites - Multiple	5
0780.15	*Therapy Modalities	2611
0780.15.010	Surgery	265
0780.15.015	Mastectomy	2
0780.15.030	*Immunotherapy	488
0780.15.030.01	Bacteria/Bacterial Substances	22
0780.15.030.05	Virus/Viral Substances	11
0780.15.030.10	Nonspecific Stimulants	400
0780.15.030.15	Antibody Therapy	3
0780.15.030.20	Tumor Cells/Cell Fractions	42
0780.15.030.30	Other Cells/Cell Fractions	14
0780.15.030.70	Autologous Bone Marrow Therapy	20
0780.15.030.75	Bone Marrow Transplant	10
0780.15.030.80	Interferon	12
0780.15.030.95	Immunotherapy-other	2
0780.15.030.97	Immunotherapy -unspecified	4
0780.15.040	Chemotherapy	2249
0780.15.041	Hyperthermia	8
0780.15.043	Radioprotection	1
0780.15.044	Radiosensitization	40
0780.15.045	*Radiotherapy	649
0780.15.045.05	High-LET heavy ions	6
0780.15.045.10	High-LET neutrons	28
0780.15.045.15	High-LET pions	5

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0780.15.045.20	Low-LET Co-60 gamma rays	402
0780.15.045.25	Low-LET Implant	27
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0780.15.045.35	Low-LET photons above 4 Mev	344
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0780.15.045.45	Low-LET -unspecified	146
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0780.15.050	*Endocrine Therapy	514
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0780.15.050.10.005	Ovariectomy	15
0780.15.050.10.010	Adrenalectomy	8
0780.15.050.10.015	Hypophysectomy	5
0780.15.050.10.020	Orchiectomy	10
0780.15.050.10.995	Ablative Surgery-other	1
0780.15.050.20	*Hormonal Therapy	497
0780.15.050.20.010	Anti-estrogen Therapy	64
0780.15.050.20.020	Steroid Therapy	444
0780.15.050.20.030	Adrenal Blockade	11
0780.15.050.20.040	Replacement Therapy	4
0780.15.050.20.997	Hormonal Therapy -gen	1
0780.15.060	Nutritional Therapy	19
0780.15.065	Vitamin Therapy	18
0780.15.080	Antibiotic Therapy	26
0780.15.085	Supportive Therapy	28
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0780.21.100.20	Mode 1 Endocrine Therapy	80
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0780.21.100.40	Mode 1 Radiotherapy	253
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0780.21.100.60	Mode 1 Hyperthermia	2
0780.21.200	*Bimodal Combinations	970
0780.21.200.05	Mode 2 Chemo/Endo	328
0780.21.200.10	Mode 2 Chemo/Imm	233
0780.21.200.15	Mode 2 Chemo/Rad	252
0780.21.200.20	Mode 2 Chemo/Surg	75
0780.21.200.25	Mode 2 Endo/Imm	4
0780.21.200.30	Mode 2 Endo/Rad	11
0780.21.200.35	Mode 2 Endo/Surg	9
0780.21.200.40	Mode 2 Imm/Rad	25
0780.21.200.45	Mode 2 Imm/Surg	26
0780.21.200.50	Mode 2 Rad/Surg	82
0780.21.200.60	Mode 2 Chemo/Hyper	5
0780.21.200.65	Mode 2 Chemo/Antibio	1
0780.21.200.70	Mode 2 Rad/Hyper	3
0780.21.300	*Trimodal Combinations	304
0780.21.300.05	Mode 3 Chemo/Endo/Imm	44
0780.21.300.10	Mode 3 Chemo/Endo/Rad	125
0780.21.300.15	Mode 3 Chemo/Endo/Surg	14

CODES	CLINPROT INDEX TERMS CAPTIONS	JULY 1981 FREQUENCY
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0780.21.300.25	Mode 3 Chemo/Imm/Surg	16
0780.21.300.30	Mode 3 Chemo/Rad/Surg	73
0780.21.300.35	Mode 3 Endo/Imm/Rad	1
0780.21.300.45	Mode 3 Endo/Rad/Surg	1
0780.21.300.50	Mode 3 Imm/Rad/Surg	5
0780.21.400	*Tetramodal Combinations	38
0780.21.400.05	Mode 4 Chemo/Endo/Imm/Rad	13
0780.21.400.10	Mode 4 Chemo/Endo/Imm/Surg	2
0780.21.400.15	Mode 4 Chemo/Endo/Rad/Surg	10
0780.21.400.20	Mode 4 Chemo/Imm/Rad/Surg	15
0780.21.500	*Pentamodal Combinations	2
0780.21.500.05	Mode 5 Chemo/Endo/Imm/Rad/Surg	2
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0780.23.005	Therapy Schedule	98
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0780.23.015	Cyclic	88
0780.23.020	Intermittent	431
0780.23.025	Sequential	229
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0780.25.020	Maintenance	501
0780.25.050	Reinforcement	37
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0780.27.010	Phase I	142
0780.27.015	Phase II	351
0780.27.020	Phase III	376
0780.27.030	Adjuvant Studies	304
0780.27.035	Phase IV	11
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0780.27.050	Ancillary Studies	18
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0780.29	*Populations	399
0780.29.010	*Age of Population	375
0780.29.010.10	Adult	146
0780.29.010.20	Child	231
0780.29.015	*Sex of Population	25
0780.29.015.10	Female	15
0780.29.015.20	Male	10
0780.31	*Stratification Parameters	1788
0780.31.010	Age	195
0780.31.015	Sex	86
0780.31.020	Blood Counts	32
0780.31.022	Prognostic Risk	93
0780.31.023	Immune Status	37
0780.31.030	Cardiac Status	19
0780.31.032	Bone Marrow Status	69
0780.31.035	CNS Involvement	21

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0780.31.047	Endocrine Status	23
0780.31.048	Renal Function	10
0780.31.049	Hepatic Function	5
0780.31.050	Hepatic Involvement	31
0780.31.055	Histologic Grade	186
0780.31.057	Hormone Receptor Status	12
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0780.31.070	Nodal Status	113
0780.31.075	Participating Institutions	1239
0780.31.080	Performance Status	331
0780.31.085	Prior Chemotherapy	181
0780.31.086	Prior Endocrine Therapy	10
0780.31.087	Prior Immunotherapy	3
0780.31.090	Prior Radiotherapy	139
0780.31.093	Prior Therapy-unspecified	98
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0780.31.103	Extent of Tumor	224
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0780.33.009	Chemotherapeutic Agents -nine	14
0780.33.010	Chemotherapeutic Agents -ten	7
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0780.35.065	Intralymphatic	1

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0780.40.023	Ad-32	1
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0780.40.029	Aminoglutethimide	12
0780.40.030	Aminopterin	2
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0780.40.032	Amphotericin-b	5
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0780.40.037	Anguidine	12
0780.40.038	Antibiotics	15
0780.40.039	APD	1
0780.40.040	Cytosine Arabinoside	174
0780.40.045	Asaley	1
0780.40.047	L-asparaginase	78
0780.40.048	Aspirin	3
0780.40.050	Azacytidine	29
0780.40.060	Azapicyl	1
0780.40.063	Azaribine	1
0780.40.065	Azaserine	1
0780.40.067	Azathioprine	3
0780.40.075	Azauridine	1
0780.40.079	Azimexon	1
0780.40.082	AZQ	19
0780.40.085	Baker'S Antifol	36
0780.40.089	Bcg-Cell Wall Skeleton	2
0780.40.090	Connaught-bcg	32
0780.40.093	Bcg-glaxo	16
0780.40.094	Bcg-R.I.V.	1
0780.40.095	Mer Bcg	64
0780.40.100	Pasteur Bcg	34
0780.40.102	Bcg-Lilly	1
0780.40.103	Bcg-Trudeau	1
0780.40.105	Tice Bcg	53
0780.40.106	Bcg-unspecified	49
0780.40.107	BCNU	119
0780.40.108	Benadryl	6
0780.40.110	Bleomycin	201
0780.40.115	5-bromodeoxyuridine	1
0780.40.117	Bruceantin	4
0780.40.120	Busulfan	10
0780.40.125	Butocin	1

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0780.40.128	Calcium Gluconate		2
0780.40.130	Calusterone		4
0780.40.135	Camptothecin		2
0780.40.142	Carminomycin		5
0780.40.145	CCNU		149
0780.40.150	Chlorambucil		41
0780.40.152	Chlorozotocin		32
0780.40.155	Chromomycin A3		6
0780.40.158	Cimetidine		1
0780.40.160	Cisclomiphene		1
0780.40.165	Cis-platinum		305
0780.40.167	Citrovorum Factor		133
0780.40.169	Coenzyme-g		2
0780.40.170	Colchicine		2
0780.40.175	C. Parvum Burroughs		52
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0780.40.181	C. Parvum unspecified		17
0780.40.185	Cortisone		3
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0780.40.205	Cyclophosphamide		776
0780.40.206	Cyclosporin A		1
0780.40.210	Cytembena		2
0780.40.213	Cyproterone Acetate		1
0780.40.214	Danazol		2
0780.40.215	Daunomycin		82
0780.40.216	Daunomycin-DNA complex		2
0780.40.219	Ddmp		3
0780.40.220	Deazauridine		2
0780.40.222	Dehydroemetine		2
0780.40.227	2-Deoxycoformycin		1
0780.40.233	Dexamethasone		36
0780.40.235	Dhea Mustard		1
0780.40.240	Dianhydrogalactitol		34
0780.40.245	Dibromodulcitol		37
0780.40.260	Dichloromethotrexate		5
0780.40.265	Diethylstilbestrol		16
0780.40.270	Diglycoaldehyde		7
0780.40.272	Dihydroxyanthracenedione		35
0780.40.275	Dimethylsulfoxide		2
0780.40.276	Dinitrofluorobenzene		1
0780.40.278	DON		1
0780.40.279	Dncb		2
0780.40.286	Dromostanolone Propionate		1
0780.40.290	Dtic		134
0780.40.292	Duborimycin		1
0780.40.293	Dipyridamole		1
0780.40.298	Epodyl		1
0780.40.300	Estracyt		13
0780.40.305	Estradiol		1
0780.40.317	Estrogens, conjugated		2
0780.40.323	Ethinyl Estradiol		1
0780.40.328	F3tdr		2
0780.40.330	Fluorodeoxyuridine		8

CODES	CLINPROT INDEX TERMS CAPTIONS	JULY 1981 FREQUENCY
0780.40.331	Florinef	2
0780.40.336	Fludrocortisone	2
0780.40.340	5-fluorouracil	423
0780.40.349	Flurbiprofen	1
0780.40.350	Fluoxymesterone	14
0780.40.351	Freund'S Complete Adjuvant	4
0780.40.353	Furosemide	4
0780.40.355	Ftorafur	27
0780.40.357	Gallium Nitrate	7
0780.40.360	Guanazole	2
0780.40.370	Hexamethylmelamine	62
0780.40.381	Hycanthone Mesylate	3
0780.40.385	Hydrocortisone	33
0780.40.390	Hydroxyurea	60
0780.40.391	Hyperbaric Oxygen	2
0780.40.392	Interferon	12
0780.40.393	Icrf-159	26
0780.40.395	Indicine-n-oxide	3
0780.40.396	Imidazole Mustard	1
0780.40.399	Isoniazide	10
0780.40.400	Ifosfamide	22
0780.40.401	Icrf-187	3
0780.40.413	Levamisole	73
0780.40.414	Lithium Carbonate	7
0780.40.415	Maytansine	21
0780.40.417	Medroxyprogesterone Acetate	25
0780.40.418	Megestrol Acetate	7
0780.40.419	Mannitol	53
0780.40.420	Melphalan	115
0780.40.421	MBEH	1
0780.40.425	6-mercaptopurine	88
0780.40.426	6-mercaptopurine riboside	1
0780.40.433	Methadone	1
0780.40.435	Methotrexate	551
0780.40.440	Methyl-ccnu	104
0780.40.445	Methyl-gag	31
0780.40.447	Methylprednisolone	6
0780.40.452	Metoclopramide	1
0780.40.453	Metronidazole	2
0780.40.454	Misonidazole	38
0780.40.455	Mithramycin	2
0780.40.460	Mitomycin-c	91
0780.40.463	Mitotane	2
0780.40.465	Nafoxidine	1
0780.40.467	Naloxone	1
0780.40.470	Neocarzinostatin	12
0780.40.475	Nitrogen Mustard	48
0780.40.477	Norethisterone Acetate	1
0780.40.479	Nutritional Support	1
0780.40.481	OK-432	5
0780.40.483	Oxymetholone	2
0780.40.484	Peptichemio	6
0780.40.485	Phenestrin	1
0780.40.486	Papaverine	2

CODES	CLINPROT INDEX TERMS CAPTIONS	JULY 1981 FREQUENCY
0780.40.487	Pala	24
0780.40.488	Pcnu	16
0780.40.489	Penberol	1
0780.40.491	Pepleomycin	1
0780.40.493	Phosphorus-32	7
0780.40.495	Piperazinedione	16
0780.40.496	Placebo	19
0780.40.499	Poly Au	1
0780.40.500	Poly IC	2
0780.40.501	Poly ICLC	6
0780.40.509	Prednimustine	3
0780.40.510	Prednisolone	22
0780.40.515	Prednisone	344
0780.40.520	Procarbazine	109
0780.40.522	Prochlorperazine	1
0780.40.524	Promethazine	1
0780.40.525	Progesterone	2
0780.40.528	Psk	2
0780.40.535	Pyrazofurin	9
0780.40.537	Pyrimethamine	1
0780.40.538	Quelamycin	1
0780.40.539	Retinoids	1
0780.40.541	Rubidazone	23
0780.40.543	Shionogi	1
0780.40.544	Sodium Fluoride	1
0780.40.546	Sodium Butyrate	1
0780.40.548	Spirogermanium	4
0780.40.550	Spironolactone	1
0780.40.552	Stanozolol	4
0780.40.555	Streptonigrin	7
0780.40.557	Stilphostrol	1
0780.40.560	Streptozotocin	38
0780.40.563	Tamoxifen	63
0780.40.565	Testolactone	2
0780.40.575	Testosterone Enanthate	3
0780.40.583	Tetrahydrocannabinol	1
0780.40.587	Tetrahydrouridine	1
0780.40.595	Beta Tgdr	10
0780.40.600	Thalicarpine	1
0780.40.604	Thiabendazole	1
0780.40.607	Thiazolidine carboxylic acid	1
0780.40.610	Thioguanine	78
0780.40.620	Thiotepa	18
0780.40.622	Thymidine	4
0780.40.623	Thymosin	12
0780.40.632	Triiodothyronine	1
0780.40.636	Trimethoprim	3
0780.40.637	Trofosfamid	1
0780.40.638	Trioxifene mesylate	1
0780.40.640	Tubercidin	1
0780.40.642	Urokinase	1
0780.40.645	Vinblastine	113
0780.40.650	Vincristine	627
0780.40.651	Dava	40

CODES	CLINPROT INDEX TERMS CAPTIONS	JULY 1981 FREQUENCY
0780.40.653	Vitamin D	3
0780.40.655	Vm-26	50
0780.40.660	Vp-16	141
0780.40.665	Yoshi-864	7
0780.40.670	Vitamin A	4
0780.40.675	Vitamin-B	3
0780.40.680	Vitamin-C	8
0780.40.688	Warfarin	2
0780.40.690	WR-2721	1
0780.45	*Drug Combinations	438
0780.45.001	Abcm	1
0780.45.005	Abvd	5
0780.45.006	Acfucy	1
0780.45.009	AC	2
0780.45.011	Ace	2
0780.45.012	Ace-II	1
0780.45.014	Acop	1
0780.45.015	Acopp	1
0780.45.017	AD	3
0780.45.019	Aim	1
0780.45.020	Adconfu	2
0780.45.022	Adoap	4
0780.45.023	Alomad	2
0780.45.025	Bacon	1
0780.45.026	AV	10
0780.45.027	Baco	1
0780.45.028	Avr	3
0780.45.030	Bacop	2
0780.45.031	Bap	1
0780.45.032	Bamon	1
0780.45.033	Bavip	1
0780.45.035	Bcop	2
0780.45.040	Bcvp	2
0780.45.045	Bcvpp	3
0780.45.055	Bhd	5
0780.45.057	Bhd-v	1
0780.45.063	Cavp-16	1
0780.45.066	Bleo-MOPP	2
0780.45.068	Bmp	1
0780.45.069	Bomb	1
0780.45.070	Caf	12
0780.45.071	Ca-bop	1
0780.45.072	Cad	2
0780.45.073	Cameleon	2
0780.45.074	Cafvp	5
0780.45.075	Calasp	1
0780.45.076	Cam	2
0780.45.077	Camp	2
0780.45.079	Cap-i	15
0780.45.080	Cap	10
0780.45.081	Cap-ii	3
0780.45.083	Cavp	1
0780.45.084	Ccm	7
0780.45.085	Cat	4

CODES	CLINPROT INDEX TERMS CAPTIONS	JULY 1981	FREQUENCY
0780.45.086	Ccnu-op		1
0780.45.087	Cho		3
0780.45.090	Chop		19
0780.45.091	Chad		3
0780.45.092	Ccv		2
0780.45.093	Ccvv		1
0780.45.094	Cfp		3
0780.45.095	Chopbleo		9
0780.45.096	Ccvvp		1
0780.45.097	Ccavv		1
0780.45.098	Cep		1
0780.45.099	Chd-r		1
0780.45.101	Cia		1
0780.45.102	Chvp		1
0780.45.103	C-mopp		3
0780.45.104	Cics		1
0780.45.105	Cmf		48
0780.45.107	Cmfv		1
0780.45.108	Cmf-bleo		1
0780.45.109	Cmfp		10
0780.45.110	Coap		11
0780.45.111	Cob		1
0780.45.112	Com		1
0780.45.115	Comf		2
0780.45.117	Comb		3
0780.45.118	Conpadri-1		2
0780.45.119	Cmfp-va		1
0780.45.120	Cop		14
0780.45.121	Coma-a		1
0780.45.122	Cmfvp		3
0780.45.125	Copa		3
0780.45.126	Cofac		1
0780.45.130	Copb		2
0780.45.135	Copp		5
0780.45.140	CP		1
0780.45.144	Cropam		1
0780.45.145	Cpob		1
0780.45.146	Crop		2
0780.45.147	Cvpp		4
0780.45.148	Cva		4
0780.45.149	Cy-va-dic		3
0780.45.150	Cvm		3
0780.45.151	Cvf		4
0780.45.152	Cy-va-dact		1
0780.45.155	Dcmp		3
0780.45.158	Dap-ii		1
0780.45.159	DAT		1
0780.45.160	Dccmp		1
0780.45.163	Dv		1
0780.45.164	Dvlp		1
0780.45.165	Dzapo		1
0780.45.166	Ebap		1
0780.45.167	Echo		2
0780.45.169	Facp		3

CLINPROT	INDEX TERMS	JULY	1981	FREQUENCY
CODES	CAPTIONS			
0780.45.170	Fac			19
0780.45.171	Fac-bcg			2
0780.45.172	Fam			14
0780.45.173	Fame			2
0780.45.174	Fap			2
0780.45.177	Fime			1
0780.45.180	Fum			2
0780.45.181	Furam			1
0780.45.182	Hdmtx			7
0780.45.184	Hoap			3
0780.45.186	L-am			1
0780.45.187	Lapoca			2
0780.45.188	Lvvp			1
0780.45.191	Macc			6
0780.45.193	MF			1
0780.45.194	Mcbp			1
0780.45.196	M-bacod			1
0780.45.197	Mopp			31
0780.45.198	Mop			1
0780.45.200	Kac			1
0780.45.204	Mait			2
0780.45.205	Oap			9
0780.45.206	Mifa			1
0780.45.207	Mof			4
0780.45.208	Omad			1
0780.45.209	Lmf			2
0780.45.210	Opal			2
0780.45.211	Patco			1
0780.45.212	Pep			1
0780.45.213	PF			1
0780.45.215	PAF			1
0780.45.216	Pip			1
0780.45.218	Poca			3
0780.45.219	Pocc			2
0780.45.220	Pomp			14
0780.45.221	Roap			6
0780.45.222	Rubidic			1
0780.45.224	Smf			4
0780.45.225	Tad			2
0780.45.227	T-coap			1
0780.45.228	T-mop			1
0780.45.230	Vab			1
0780.45.232	Vab-ii			1
0780.45.235	Vab-iii			1
0780.45.236	Vab-v			2
0780.45.240	Vac			16
0780.45.244	Vadrc			5
0780.45.245	Vacar			1
0780.45.246	Vap			5
0780.45.248	Vafac			1
0780.45.249	Vath			2
0780.45.250	Vbap			5
0780.45.251	Vbp			4
0780.45.254	Var			3

CODES	CLINPROT INDEX TERMS CAPTIONS	JULY 1981	FREQUENCY
0780.45.257	Vav		1
0780.45.258	Vbmcp		1
0780.45.259	Vcap-i		2
0780.45.260	Vcap		3
0780.45.261	Vcf		1
0780.45.262	Vcp		3
0780.45.263	Vcp-1		1
0780.45.264	Vemp		1
0780.45.267	Vlp		2
0780.45.269	Vmc		1
0780.45.270	Vmcp		5
0780.45.271	Vmv		1
0780.45.272	Vocab		1
0780.45.273	Vp		1
0780.45.274	Vocap		1
0780.45.275	Vpcmf		1
0780.45.276	Voca		1
0780.45.277	VMF		1
0780.45.404	Abcx		1
0780.45.405	AB-DIC		1
0780.45.406	Abdv		2
0780.45.409	APVV		1
0780.45.411	Atop		1
0780.45.413	AVEC		1
0780.45.415	Avm		1
0780.45.416	Avp-16		1
0780.45.418	BCD		1
0780.45.420	Bop		1
0780.45.421	CA		1
0780.45.422	CD		1
0780.45.435	BT		1
0780.45.439	Cafp		1
0780.45.440	Cav		1
0780.45.445	Camf		1
0780.45.450	Cv		1
0780.45.451	CHEXM		1
0780.45.452	Compadri-V		1
0780.45.453	Chap-5		1
0780.45.454	Cmc		1
0780.45.455	Fa		2
0780.45.456	Fac-S		1
0780.45.457	Facvp		1
0780.45.458	Caffi		1
0780.45.459	Fam-S		1
0780.45.460	FAM-T		1
0780.45.465	Fomi		1
0780.45.540	Hac		1
0780.45.541	Had		1
0780.45.544	Ham		1
0780.45.545	Ham-ii		1
0780.45.547	Hcap		1
0780.45.549	Hop		2
0780.45.550	Hp		1
0780.45.551	Hexa-caf		1

CODES	CLINPROT INDEX TERMS CAPTIONS	JULY 1981	FREQUENCY
0780.45.562	Ihop		1
0780.45.565	IMVP-16		1
0780.45.640	Ma		1
0780.45.642	Mac		2
0780.45.643	MEPH		1
0780.45.646	Moad		1
0780.45.647	Mefa		1
0780.45.649	Mp		1
0780.45.651	Mof-Strep		1
0780.45.655	Mvpd-26		1
0780.45.678	Oap-BLEO		1
0780.45.680	Oca		1
0780.45.681	Odap		1
0780.45.685	Opp		1
0780.45.701	PACCO		1
0780.45.702	PAC		2
0780.45.703	Pace		1
0780.45.704	Pce		1
0780.45.705	PFT		1
0780.45.706	Poach		1
0780.45.707	Pomp-24		1
0780.45.708	PentaCOP		1
0780.45.710	Prime		1
0780.45.714	PromACE		3
0780.45.716	Pvb		3
0780.45.719	PVBV		1
0780.45.740	Sam		1
0780.45.770	Scab		1
0780.45.781	T-cap		3
0780.45.800	Vdp		1
0780.45.803	Vfam		1
0780.50	*Cooperative Groups		2293
0780.50.003	Cancer & Leukemia Coop Group B		116
0780.50.007	Breast Cancer Task Force		5
0780.50.008	Baltimore Cancer Res. Program		62
0780.50.009	Brain Tumor Research Center		7
0780.50.010	Brain Tumor Chemother St Grp		5
0780.50.012	Canadian Cooperative Groups		3
0780.50.015	Central Oncology Grp		38
0780.50.020	Children's Cancer St Grp		72
0780.50.021	Children's Hosp.Oncol.Center-		8
0780.50.023	Children's Hospital of Philade		3
0780.50.025	Coop Breast Cancer Grp		7
0780.50.027	Comprehensive Ca Ctr - Florida		12
0780.50.028	Children's Orthop Hosp&Med Ctr		1
0780.50.029	Non-USA Protocol-other		11
0780.50.030	Eastern Coop Oncology Group		164
0780.50.031	Eortc		102
0780.50.032	Gi Tumor Study Group		24
0780.50.033	Gatla		3
0780.50.034	Georgetown Univ. Med. Oncology		14
0780.50.035	Gynecologic Oncology Grp		50
0780.50.036	Intl Group Study of Melanoma		3
0780.50.037	Natl Tumor Institute of Italy		9

CODES	CLINPROT INDEX TERMS CAPTIONS	JULY 1981 FREQUENCY
0780.50.039	Lung Cancer Study Group	5
0780.50.040	Malignant Melanoma Grp	1
0780.50.042	Mayo Clinic	132
0780.50.047	MD Anderson	330
0780.50.051	Melanoma Cancer Chemother Grp	1
0780.50.053	Mts	12
0780.50.059	NCI-Cancer Center Prgm.	31
0780.50.060	NCI-Clinical Oncology Prgm.	54
0780.50.061	Natl Bladder Cancer Project	3
0780.50.062	Natl Bladder Cancer Coll Grp A	3
0780.50.063	No.Calif Oncology Grp.	43
0780.50.064	Ncctg	16
0780.50.066	Natl.Cancer Inst.of Canada	19
0780.50.100	Natl Prostatic Cancer Project	13
0780.50.101	National Wilms Tumor Study Grp	1
0780.50.102	Ositc	1
0780.50.103	Ovarian Cancer Study Group	4
0780.50.105	Polycythemia Vera Study Grp	11
0780.50.107	POG	1
0780.50.110	Natl. Surg. Adj. Breast Proj.	13
0780.50.115	Radiation Therapy Oncology Grp	89
0780.50.120	Radiother Hodgkins Disease Grp	1
0780.50.123	Swiss Grp.for Clin.Cancer Res.	16
0780.50.125	Roswell Park Memorial Inst	11
0780.50.130	Southeastern Cancer Study Grp	119
0780.50.135	Sidney Farber Cancer Inst.	35
0780.50.137	SIOP	4
0780.50.140	Sloan Kettering	75
0780.50.143	Sjcrh	28
0780.50.144	St.Vincent's Hosp.,Nyc	1
0780.50.145	Southwest Oncology Group	292
0780.50.146	Univ.Arizona,Tucson	3
0780.50.147	Univ.Calif.-Los Angeles	7
0780.50.150	Uicc	119
0780.50.152	Uro-oncology Res. Grp.	3
0780.50.153	Univ.Michigan	6
0780.50.154	Univ.Texas-San Antonio	1
0780.50.155	Va Lung Cancer Study Grp	5
0780.50.160	Va Surg Adj Cancer Chem St Grp	11
0780.50.161	Vasog	1
0780.50.162	Wisconsin Clin. Ca. Ctr.	12
0780.50.163	Wake Forest Univ.-Bowman-Gray	26
0780.50.165	Wayne State University	41
0780.50.170	Western Cancer Study Group	47
0780.50.180	Working Party for Lung Tumors	14
0780.50.183	Yale University	23
0780.50.185	Yorkshire Regional Chemo Grp	2
0780.60	*Participating Countries	417
0780.60.010	Argentina	34
0780.60.015	Australia	8
0780.60.030	Belgium	33
0780.60.035	Brazil	11
0780.60.040	Canada	34
0780.60.044	Chile	5

CODES	CLINPROT INDEX TERMS CAPTIONS	JULY 1981	FREQUENCY
0780.60.046	Colombia		3
0780.60.047	Costa Rica		4
0780.60.048	Czechoslovakia		3
0780.60.050	Denmark		4
0780.60.070	France		58
0780.60.080	Germany		17
0780.60.090	Greece		1
0780.60.095	Hungary		1
0780.60.100	India		1
0780.60.115	Israel		3
0780.60.120	Italy		48
0780.60.130	Japan		17
0780.60.160	Mexico		2
0780.60.170	Netherlands		19
0780.60.175	New Zealand		1
0780.60.180	Norway		2
0780.60.188	Peru		7
0780.60.190	Poland		10
0780.60.205	South Africa		7
0780.60.207	Spain		1
0780.60.210	Sweden		4
0780.60.220	Switzerland		23
0780.60.240	United Kingdom		80
0780.60.250	Uruguay		9
0780.60.255	Venezuela		1
0780.60.260	Yugoslavia		2
0780.70	*Protocol Status		1983
0780.70.010	Protocol Status Active		1189
0780.70.050	Protocol Status-Closed		544
0780.70.060	Protocol Status Not Available		114
0780.70.090	Protocol Status-Terminated		135

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DATABASE	TOTAL RECORDS	DATES COVERED	DATE LAST UPDATED	LATEST UPDATE TAG
*AVLINE	10,220	THROUGH 1981	18 SEP 81	
*BIOETHICS	11,846	JAN 73-FEB 81	05 JUN 81	8106(EM)
*CANCERLIT	264,682	JAN 63-AUG 81	17 AUG 81	8108(EM)
*CANCERPROJ	20,276	1978-1981	28 JUL 81	8107(EM)
*CATLINE	304,072	THROUGH 1981	18 SEP 81	
*CHEMLINE	506,271		14 SEP 81	8109(EM)
*CLINPROT	2,611		16 JUL 81	8107(EM)
*EPILEPSY	36,472	1945-PRESENT	20 OCT 80	
HEALTH	184,992	JAN 75-OCT 81	14 SEP 81	8110(EM)
*HISTLINE	46,338		24 AUG 81	8108(EM)
MEDLINE	590,014	JAN 79-OCT 81	08 SEP 81	8110(EM)
MED77	510,995	JAN 77-DEC 78	15 DEC 80	
+MED75	642,953	JAN 75-DEC 76	15 DEC 80	
+MED72	669,106	JAN 72-DEC 74	15 DEC 80	
+MED69	668,257	JAN 69-DEC 71	15 DEC 80	
+MED66	501,801	JAN 66-DEC 68	15 DEC 80	
MESH VOC	41,390	1981	14 SEP 81	
*NAME AUTH	117,434		08 SEP 81	
*POPLINE	80,009	1970-SEP 81	14 SEP 81	8109(EM)
*RTECS	48,569	1979 ED.-JUL 81	31 AUG 81	
SDILINE	24,470	OCT 81	08 SEP 81	
*SERLINE	37,944	1981	17 AUG 81	
*TDB	3,222		17 AUG 81	
*TOXLINE	528,302		24 AUG 81	8108(EM)
CBAC	266,645	1977-VOL 34(1,2)		
TOXBIB	87,921	1977-SEP 81		
IPA	23,194	1977-VOL 18(7-11)		
HEEP	59,801	1977-VOL 10(9)		
PESTAB	12,320	1977-VOL 14(7)		
EMIC	31,486	1960-APR 81		
ETIC	21,789	1950-JUN 81		
RPROJ	30,128	1978-OCT 81		
TD3	5,008	OCT 79-JAN 81		
*TOXBACK74	275,506		10 SEP 80	
CBAC	147,332	1974-1976		
TOXBIB	65,433	1974-1976		
IPA	17,582	1974-1976		
HEEP	37,198	1974-1976		
PESTAB	7,961	1974-1976		
+TOXBACK65	387,377		10 SEP 80	
CBAC	196,015	1965-1973		
TOXBIB	112,170	1968-1973		
IPA	21,973	1970-1973		
HEEP	29,662	1971-1973		
HAPAB	12,966	1966-1973		
HAYES	10,039	1940-1966		
TMIC	4,552	1971-1975		

1) * = NLM ONLY

2) + = AVAILABLE ONLY THRU OFFSEARCH

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301/496-6193

Direct inquiries to:
 MEDLARS Management Section
 National Library of Medicine
 8600 Rockville Pike
 Bethesda, Maryland 20209

TECHNICAL NOTES

Whenever applicable, the headings of each Technical Note will include a reference to the section of the Online Services Reference Manual that is considered most relevant to the item being discussed (e.g., Manual 2.9). Users should keep in mind that the item may pertain to other sections of the Manual.

- SDILINE
AUTOMATIC
SDIs
- The SDILINE Automatic SDIs will be processed one week prior to that month's update being available online. This procedure was first implemented with the 8109 (EM) update. The September Automatic SDI searches were processed and mailed the last week of July. The 8109 (EM) SDILINE was available for online searching August 3 as scheduled. This new procedure will enable users to have their Automatics in hand the same week that the scheduled update is available online.
- CORRECTING
NLM LOG IN
- Those correction characters that are used to correct single characters on the NLM computer can also be used in correcting the USERID/PASSWORD at NLM. The SUNY log in remains unchanged and cannot be corrected. The August 1981 issue of the NLM Technical Bulletin contains a technical note outlining the allowable correction characters for both computers.
- ERROR MESSAGE
CHANGE
- The error message received following the user input: NEWS (TW) has been changed from "ILLEGAL NEWS COMMAND IGNORED" to "ILLEGAL NEWS COMMAND; FOR TEXT WORD SEARCHING, USE PREQUALIFICATION." This instructs users to enter: (TW) NEWS to search for the text word 'NEWS'.
- NEW
PUBLICATION
- The following publication will be available from NTIS:
 Technical Notes: MEDLARS Indexing
 Instructions, Tumor Key Supplement, 1982
 PB81-242208 Price: \$6.50
- CORRECTION,
AUGUST 81
TECHNICAL
BULLETIN
- The August 1981 issue of the NLM Technical Bulletin contained an error in the article entitled "Non-NLM Titles in NLM Online Files: Interlibrary Loan Librarians Take Note!" on page 11. The possible values for the Call Number (CA) field were inadvertently mismatched with the addresses of their organizations. The organization acronym and the proper corresponding address should read as follows:
 CPFH - Center for Population and Family Health
 Library/Information Program
 Columbia University
 60 Haven Avenue
 New York, New York 10032
 ATTN: Document Delivery

PIP - Population Information Program
Resource Center
Johns Hopkins University
624 North Broadway
Baltimore, Maryland 21205
ATTN: Document Delivery

TOXICOLOGY RESEARCH PROJECTS DIRECTORY - There have been numerous inquiries concerning the hard-copy of the Toxicology Research Projects Directory (TRPD), Volume 06, which appears in the Source (S0) data element of the TOXLINE subfile, RPROJ. Hardcopy publication of the TRPD ceased with the December 1980 issue (Volume 05, Issue 12), but the Source (S0) field citing the TRPD still is used in identifying updates to that subfile of TOXLINE.

Thus, the Source (S0) data element of the RPROJ subfile continues to identify the source as 'Toxicology Research Projects Directory, Volume 06, Issue ## 1981.' We are evaluating other designations to use for the Source (S0) field in this subfile in order to lessen confusion with the previously published hardcopy.

Interlibrary loans for the TRPD can be obtained only for volumes 01-05. Do not request interlibrary loans for volume 06, or any later volumes.

PRICE SEARCH VERSION (PRS) IN SERLINE - The Price Search Version (PRS) data element in SERLINE now contains the correct data. However, the data for this field exists only for a very small percentage of the records. It is expected that additional data will be added to this field when available.

CATLINE/AVLINE UPDATES - CATLINE and AVLINE will be updated on Thursday afternoons between 5:00 PM and 6:30 PM ET beginning September 10, 1981. These files will be unavailable to users during this time period.

ONLINE COMMENT (Manual 4.9.2) - The online COMMENT command is a fast and effective way for users to communicate with the MEDLARS Management Section. Please remember to add your telephone number on the NAME line so that a reply can be made promptly by phone. The phone number and User ID should also be included by those users who request that their offsearches be canceled the same morning that they are input.

TDB RECORDS (Manual Part 15) - A list of names of all 3,222 TDB records is available upon written request from:

Toxicology Data Bank
Specialized Information Services
National Library of Medicine
8600 Rockville Pike
Bethesda, MD 20209

Those users who have requested such lists in the past will automatically receive the new version.

POPLINE
KEYWORDS
(Manual
Part 24.10,
Appendix A)

- The following POPLINE Keywords no longer map to the MeSH vocabulary file in POPLINE:
 - Melengestrol Acetate - formerly mapped to MELENGESTROL
 - Minilyn - formerly mapped to CONTRACEPTIVES, ORAL, COMBINED
 - Norethisterone Acetate - formerly mapped to NORETHINDRONE

These terms can be searched directly in POPLINE by qualifying with (KW).

TELEPHONE
NUMBERS

- Appendix A is a list of available telephone numbers used to access the NLM and SUNY computers.

TB INDEX

- Appendix B is a revised index to the NLM Technical Bulletin, issues January 1978 through June 1981.

PLEASE TYPE NEWS TO SEE THE MOST RECENT NEWS ITEMS ONLINE

CHANGES IN GERMAN LANGUAGE TITLES
IN SERLINE AND NLM SERIAL PUBLICATIONS
Esther Baldinger, Serial Records Section, NLM

In June 1981, the Serial Records Section at NLM began a project to convert the spelling of German language titles with umlauts ("") in order to conform to the spelling in CATLINE records. Prior to this time, the umlaut vowel was spelled and filed with an "e" (e.g., Beitrage = Beitragee). Now the "e" is dropped and words are filed by the simple vowel (Beitrage). This project is almost finished and should be completed by October, 1981.

This change has already taken effect in SERLINE and Health Science Serials. It will also impact on records in the 1982 editions of List of Journals Indexed in Index Medicus and List of Serials and Monographs Indexed for Online Users, and the 1983 edition of Index of NLM Serial Titles.

The list of journals indexed in Index Medicus that will appear in front of the 1981 Cumulated Index Medicus will retain old title abbreviations (i.e., before the umlaut change) because no changes will be made to MEDLINE or Index Medicus citations before 1982. However, the spelling of the full titles in this list will already reflect the change.

The Index of NLM Serial Titles will not be published in 1982. Therefore, please remember that the spelling and filing in the 1981 edition will be different from the spelling in new NLM serial publications and in SERLINE. For further information, please contact the Serial Records Section, NLM, 301/496-1276.

AVLINE UPDATE
 Alice E. Jacobs, Cataloging Section, NLM

OVERVIEW: The following AVLINE Update provides information on the the size and subject content of the database and changes in the review process of AVLINE titles. Search examples are given for the fields affected by the changes in the review process and identification of titles in the NMAC satellite collection. A list of additions and changes to the AVLINE specialties list is also provided.

I. Status Report

A. Content of the File

During the summer of 1981, the AVLINE database reached a milestone in its development. It now includes over 10,000 citations to audiovisual materials in the health sciences. As an indication of the currency of these programs, 6,152 titles, or 64.3%, were produced within the last six years.

The chart below summarizes the subject content of the database. This analysis is based on the broad categories of the National Library of Medicine Classification, 4th ed., and supplemental Library of Congress schedules used in classifying audiovisuals at NLM.

AVLINE CONTENT BY SUBJECT

Subject	Number in AVLINE	% of File
Clinical	7,199	71.09
Pre-Clinical	966	9.54
Nursing	757	7.48
Dentistry	699	6.90
Veterinary Medicine	79	.78
Miscellaneous	<u>426</u>	<u>4.21</u>
	10,126	100 %

B. Changes in the AVLINE Appraisal Process

The review process for AVLINE titles is currently being re-evaluated. From August 1981 through February 1982, NLM will test various methods of gathering assessment data, including the use of producer reviews and professional society reviews.

During this test phase, the category distinctions "A" and "B" are no longer being made and the corresponding Review Data (RD) tag values "PENDING" and "NONE" have been discontinued for all items entering the database after July 31, 1981. (See the Online Services Reference Manual, Parts 9.1 and 9.5.41, for explanations of these previously-used Categories and Review Data values.) The appraisal data collected will include the standard review information (i.e., health science fields, educational levels, learning methods and specialties), except that ratings will not be assigned for producer-supplied reviews. In addition, abstracts for producer reviews will carry as an identifier the prefatory word 'Producer' in the Abstract (AB) field. All reviews, regardless of type, will carry a date of review which appears in the General Notes (GN) field; it is also a searchable tag in the Date of Review (DR) field. The searching implications of this change in the review mechanism are minimal, as outlined in Section II.A. below.

II. Searching Hints

A. Identification of Reviewed Items

1. Use of Date of Review (DR) Field

The presence of this field in AVLINE records is the primary identification for reviewed items. Search this field using the date in YYYY format as follows:

8108 (DR)

2. Date of Review (DR) Field in Combination with Review Data (RD) Tags

Critically reviewed items, i.e., those with assigned ratings, may be retrieved by combining the Review Data tag rating values with a review period of interest.

EXAMPLE A:

SS 1 /C?
 USER:
 8107 (DR)
 PROG:
 SS (1) PSTG (54)

SS 2 /C?
 USER:
 1 AND HIGHLY RECOMMENDED (RD)
 SS (2) PSTG (7)

SS 3 /C?
 USER:
 1 AND RECOMMENDED (RD)
 PROG:
 SS (3) PSTG (38)

SS 4 /C?
 USER:
 1 AND N#T RECOMMENDED (RD)
 PROG:
 SS (4) PSTG (9)

Producer-supplied reviews may be retrieved by searching a review period of interest and excluding the Review Data tags for ratings.

EXAMPLE B:*

SS 1 /C?

USER:

8107 (DR)

SS (1) PSTG (54)

SS 2 /C?

USER:

(RD) NO REVIEW OR RECOMMENDED OR N#T RECOMMENDED OR HIGHLY RECOMMENDED

SS (2) PSTG (6889)

SS 3 /C?

USER:

1 AND NOT 2

SS (3) PSTG (2)

3. Use of Text Word 'Producer '*

A text word search may be done to identify producer reviews, as shown below:

EXAMPLE:*

SS 1 /C?

USER:

8107 (DR) AND PRODUCER (TW)

SS (1) PSTG (4)

(This may produce some false drops but should be fairly reliable.)

B. Identification of NMAC Satellite Collection Titles

A subset of the NMAC videocassette loan collection is available from 11 designated satellite libraries. Each satellite library, one per Region, holds approximately 270 of the 1,000 items in the NMAC videocassette loan collection. Users may contact the Materials Utilization Branch, NMAC, for names and addresses of these sites. These titles are tagged in AVLINE using a newly defined searchable tag: NMAC-ILL(S) in the Procurement Source (PC) field.

A new Shelving Location (SL) value, NMAC(S), may also be used to identify those titles available from participating satellite libraries.

III. Additions to AVLINE Specialties List

Part 9, Appendix C, of the 1980 edition of the Online Services Reference Manual has been updated to include several additions and changes to the list of specialty headings used in AVLINE. An updated Appendix C will be included in the new edition of the Manual. The changes are summarized below:

*NOTE: These are fictitious examples since no producer reviews had been added to the database when this was written.

Additions

Chemistry	Family Therapy
Child Psychology	History of Medicine
Counseling	Marital Therapy
Economics	Mathematics
Education, Dental	Molecular Biology
Education, Medical	Patient Care Team
Education, Special	Philosophy, Dental
Ethics, Dental	Philosophy, Medical
Ethics, Medical	Philosophy, Nursing
Ethics, Nursing	Thoracic Surgery

Changes

Drug Dependence use Substance Dependence

MONTHLY HINT: NAMING STORESEARCHES AND SAVESEARCHES

Our thanks to Jean Lynn Barnard, Reference Librarian at the Taubman Medical Library, University of Michigan, for this useful hint.

Ms. Barnard has developed the following conventions for naming her organization's STOREsearches and SAVEsearches:

STORESEARCHES -

NOT AUTOMATIC SDIs: first element of name is person requesting search
Example: JAMISON HEART

AUTOMATIC SDIs: first element of name is a four-character code*; second element is person requesting search
Example: S010 SMITH LUNG

SAVESEARCHES -

first element of the search name is the searcher's initials
Example: JLB DIABETES

In an organization with multiple searchers, this provides quick identification of the type of search. The searcher's name could also be incorporated into the STORESEARCH name if more than one person handles such searches (Ms. Barnard coordinates all STORESEARCHES in her library, so this is *not necessary*).

When it is time to purge or remove a STORESEARCH or SAVESEARCH, the name of search will indicate which procedure should be used.

*See the Online Services Reference Manual, Part 5.12 and the Automatic SDI Request Form (last page of Part 5).

DEMONSTRATION CODES

If you are planning to demonstrate NLM's online databases in your institution, remember that there are free DEMONSTRATION CODES available for that purpose. These codes are issued for a one-day period and may be obtained from MEDLARS Management Section (MMS). Codes should be used on the SUNY computer unless a database available only at NLM is to be used. There are a limited number of codes available, so it is advisable to call four to five working days in advance of the demonstration.

You will be asked to supply the following information when requesting the code:

- your user ID code for the NLM system
- institution name
- address (city, state)
- telephone number
- your name
- date the demonstration is to be given
- place where the demonstration is to be given
- purpose of the demonstration
- anticipated audience size
- makeup of the audience (nurses, physicians, graduate students, etc.)

After completing the demonstration, you are requested to call MMS with the following information:

- actual size of audience
- online connect time used
- number of offline prints requested, if any

Demonstration codes are not to be used for the purpose of training your library staff to use the system. They are for the purpose of acquainting new users of your library or search center with the capabilities of the system, for public relations programs, etc. There is no set limit on the number of demonstration codes to be issued to any given institution per time period.

NEW SERIALS ANNOUNCEMENT - AUG 1981
 Serial Records, Technical Services Division, NLM

The following substantive serial titles were received or ordered by the Serial Records Section. IM to the left of the title indicates that the title appears in Index Medicus. ON ORDER, IN PROCESS, or an actual NLM call number appears at the bottom of the entry. Please include the NLM call number on interlibrary loan requests. Of course, NLM cannot fill loans for titles not yet received by the Library. The list is offered as an early announcement and will include price information if known. Information provided is not authorized NLM cataloging data. For further information, contact Ms. Janice Lennox, 301/496-1276, Technical Services Division, NLM.

- AANNT JOURNAL
8N1,FEB 1981--
AMERICAN ASSOCIATION OF NEPHROLOGY NURSES
AND TECHNICIANS
CONTINUES JOURNAL OF THE AMERICAN
ASSOCIATION OF NEPHROLOGY NURSES AND
TECHNICIANS.
PITMAN NJ UNITED STATES
IN PROCESS
AC0365000
\$18.00
- AUDIO-DIGEST: OTOLARYNGOLOGY - HEAD AND
NECK SURGERY [SOUND RECORDING]
14N13, JUL 1981--
AUDIO DIGEST FOUNDATION
CONTINUES AUDIO-DIGEST OTCRHINOLARYNGOLOGY.
GLENDALE CA UNITED STATES
IN PROCESS
A74373000
- CARDIOLOGY
1981--
YORKE MEDICAL BOOKS
NEW YORK UNITED STATES
YORKE MEDICAL BOOKS 666 FIFTH AVENUE, NEW
YORK, NY 10103
IN PROCESS
C07350000
- IM COMPTES RENDUS DES SEANCES DE L ACADEMIE
DES SCIENCES. III: SCIENCES DE LA VIE
292,1981--
GAUTHIER VILLARS
CONTINUES COMPTES RENDUS HEBDOMADAIRES DES
SEANCES DE L ACADEMIE DES SCIENCES. D:
SCIENCE NATURELLES. INCLUDES SECTION WITH
TITLE: VIE ACADEMIQUE, ISSUED SEPARATELY AS
A SUPPLEMENT.
PARIS FRANCE
IN PROCESS
C35310000
- EXCERPTA MEDICA. SECTION 50: EPILEPSY
ADSTRACTS
13N1,1980--
EXCERPTA MEDICA FOUNDATION
CONTINUES EPILEPSY ABSTRACTS.
PRINCETON NJ UNITED STATES
IN PROCESS
E18763000
- INTERNATIONAL AUTOTRANSFUSION SYMPOSIUM
1ST,1980--
ELSEVIER/NORTH-HOLLAND
NEW YORK UNITED STATES
IN PROCESS
I20170000
- INTERNATIONAL JOURNAL OF EATING DISORDERS
1N1,AUTUMN 1981--
VAN NOSTRAND REINHOLD
NEW YORK UNITED STATES
ON ORDER
I26750000
- IM JOURNAL OF SUPRAMOLECULAR STRUCTURE AND
CELLULAR BIOCHEMISTRY. SUPPLEMENT
N5,1981--
ALAN R. LISS
CONTINUES JOURNAL OF SUPRAMOLECULAR
STRUCTURE. SUPPLEMENT.
NEW YORK UNITED STATES
IN PROCESS
J39830020
- IM PAIN. SUPPLEMENT
N1,1981--
ELSEVIER/NORTH-HOLLAND
AMSTERDAM NETHERLANDS
IN PROCESS
P01100020
- PSYCHIATRIC RESEARCH
1,1979--
ELSEVIER NORTH-HOLLAND BIOMEDICAL PRESS
AMSTERDAM NETHERLANDS
ON ORDER
P53410000
\$75.50
- IM SOCIAL SCIENCE AND MEDICINE. PART F,
MEDICAL AND SOCIAL ETHICS
15N1, MAR 1981--
PERGAMON PRESS
CONTINUES SOCIAL SCIENCE AND MEDICINE.
PART F, MEDICAL ETHICS.
OXFORD ENGLAND
IN PROCESS
S28704000
- SURGICAL PRACTICE NEWS
9N1,JAN 1980--
MCMAHON PUBLISHING COMPANY
CONTINUES JOURNAL OF SURGICAL PRACTICE.
GEORGETOWN CT UNITED STATES
JOURNAL OF SURGICAL PRACTICE, SUBSCRIPTION
DEPT., 121 SOUTH GERTTUDE AVE., PARAMUS, NJ
07652
IN PROCESS
S48630000
\$28.00
- TOPICS IN STRATEGIC PLANNING FOR HEALTH CARE
1981--
HARVORTH PRESS
NEW YORK UNITED STATES
ON ORDER
T13290000
- YAO WU FEN HSI TSA CHIH = YAOWU FENXI ZAZHI
= CHINESE JOURNAL OF PHARMACEUTICAL ANALYSIS
1N1,JAN 1981--
CHINESE PHARMACEUTICAL ASSOCIATION
BEIJING CHINA
IN PROCESS
Y00693000
- IM JOURNAL OF PSYCHOACTIVE DRUGS
13N1,JAN-MAR 1981--
HAIGHT-ASHBURY PUBLICATIONS
CONTINUES JOURNAL OF PSYCHEDELIC DRUGS.
SAN FRANCISCO UNITED STATES
HAIGHT-ASHBURY 409 CLAYTON ST., SAN
FRANCISCO, CALIFORNIA
IN PROCESS
J36190000

PHONES LIST

UNLESS OTHERWISE NOTED, THE SPEED OF THE NUMBERS IS 10-30 CHARACTERS PER SECOND (CPS).

* = DIRECT DIAL NUMBER

FOR 120 CPS USE COMPATIBLE MODEMS INCLUDE:

V3405 = VADIC 3400 SERIES COMPATIBLE. THE FOLLOWING VADIC EQUIPMENT IS COMPATIBLE: VA3455P AND VA3451P MODEMS AND VA3434 COUPLER. THE FOLLOWING ANDERSON JACOBSON EQUIPMENT IS COMPATIBLE: AJ1255 MODEM AND AJ 1234 COUPLER.

B/V = VADIC SUPER MODEM (V3467) NODE. USERS WITH BELL 103, 113, OR 212A MODEMS OR V3400 SERIES COMPATIBLE MODEMS MAY USE THESE NUMBERS. NOTE: BELL 103 AND 113 ARE LOW SPEED MODEMS.

B202 = INDICATES NODE IS BELL 202C OR 202S DATA SET COMPATIBLE.

B212A = BELL 212A DATA SET COMPATIBLE.

FOR IBM 2741 TERMINAL ACCESS:

B = INDICATES THAT BOTH CORRESPONDENCE AND EBCDIC CODED TERMINALS ARE SUPPORTED BY TYMNET. THE USER MUST TYPE A P FOLLOWED BY A CARRIAGE RETURN SO THAT TYMNET CAN DETERMINE THE "CODE" TO BE USED. USE CORRECT TERMINAL IDENTIFIER FOR TELENET ACCESS VIA 2741'S. THE NETWORKS DO NOT SUPPORT BCD CODED 2741'S.

ALL PHONE NUMBERS ARE SUBJECT TO CHANGE OR DELETION WITHOUT PRIOR NOTICE.

ST	CITY	TYMNET	TYPE	SPEED	TELENET	TYPE	SPEED
AK	ANCHORAGE	CONTACT ALASKA TELEPHONE COMPANY FOR ACCESS					
AK	JUNEAU	CONTACT ALASKA TELEPHONE COMPANY FOR ACCESS					
AL	BESSEMER				205/251-2495		
AL	BESSEMER				205/326-3420	B/V	120
AL	BIRMINGHAM	205/942-4141	B		205/251-2495		
AL	BIRMINGHAM	205/942-1015	B212A	120	205/326-3420	B/V	120
AL	FLORENCE				205/767-4800		
AL	HUNTSVILLE	205/539-5377	FX B		205/539-2280		
AL	HUNTSVILLE	205/539-3753	FX B/V	120	205/539-2280	B/V	120
AL	MOBILE				205/432-8015		
AL	MOBILE	205/432-3382	B212A	120	205/432-1680	B/V	120
AL	MONTGOMERY	205/834-3410	FX B		205/265-1500		
AL	MONTGOMERY				205/265-1500	B/V	120
AL	SHEFFIELD				205/767-4800		
AR	FT. SMITH	501/782-3210	B212A	120			
AR	JONESBORO	501/932-6886	B212A	120			
AR	LITTLE ROCK	501/372-5780	FX B		501/374-4100		
AR	LITTLE ROCK	501/376-3768	B212A	120	501/372-4616	B/V	120
AR	SPRINGDALE	501/756-2201	B212A	120			
AZ	MESA				602/257-1552		
AZ	MESA				602/271-0533	B/V	120
AZ	PHOENIX	602/254-5811	B		602/257-1552		
AZ	PHOENIX	602/254-5811	B/V	120	602/271-0533	B/V	120
AZ	SCOTTSDALE				602/257-1552		
AZ	SCOTTSDALE				602/271-0533	B/V	120
AZ	TEMPE				602/257-1552		
AZ	TEMPE				602/271-0533	B/V	120
AZ	TUCSON	602/790-0764	B		602/745-1666		
AZ	TUCSON	602/747-4097	B212A	120	602/745-1666	B/V	120
CA	ALHAMBRA	213/572-0999	FX B		213/956-8235		
CA	ALHAMBRA				213/246-0318	B/V	120
CA	ANAHEIM				714/558-6061		
CA	ANAHEIM				714/558-7078	B/V	120
CA	ANTIOCH	415/757-6855	FX B				
CA	ARCADIA	213/574-7636	FX B				
CA	BAKERSFIELD				805/327-8146		
CA	BAKERSFIELD				805/327-8146	B/V	120
CA	BURLINGAME	415/348-4992	FX B		415/595-0360		
CA	BURLINGAME				415/591-0726	B/V	120
CA	CANOGA PARK				213/822-9287		
CA	CANOGA PARK				210/306-2984	B/V	120

ST	CITY	TVMNET	TYPE	SPEED	TELENET	TYPE	SPEED	
CA	COLTON	714/825-9372	B		714/824-1710			
CA	COLTON	714/824-8170	B212A	120	714/824-3805	B/V	120	
CA	CUPERTINO	408/446-7309	B212A	120				
CA	CUPERTINO	408/446-7001	V3405	120	408/279-2425	B/V	120	
CA	CUPERTINO	408/446-1470	B		408/279-8450			
CA	CUPERTINO	408/257-0593	CCITT RESTRICTED FOR OVERSEAS USE ONLY					
CA	EL CONDIDO				714/747-0810			
CA	EL MONTE				213/956-8235			
CA	EL MONTE				213/507-1006	B/V	120	
CA	EL SEGUNDO	213/640-1281	B		213/332-7703			
CA	EL SEGUNDO	213/640-1281	B212A	120				
CA	FRESNO	209/432-1500	B/V	120				
CA	FULLERTON				714/558-6061			
CA	FULLERTON				714/558-7078	B/V	120	
CA	GARDEN GROVE				714/898-9820			
CA	GARDEN GROVE				714/898-9820	B/V	120	
CA	GLENDALE				213/956-8235			
CA	GLENDALE				213/507-1006	B/V	120	
CA	HAYWARD	415/785-3431	B		415/881-1382			
CA	HOLLYWOOD				213/624-5230			
CA	HOLLYWOOD				213/937-3580			
CA	HOLLYWOOD				213/689-9040			
CA	HOLLYWOOD				213/624-2251	B/V	120	
CA	HUNTINGTON BEACH				714/558-6061			
CA	HUNTINGTON BEACH				714/558-7078	B/V	120	
CA	INGLEWOOD				213/624-5230			
CA	INGLEWOOD				213/937-3580			
CA	INGLEWOOD				213/689-9040			
CA	INGLEWOOD				213/624-2251	B/V	120	
CA	LONG BEACH				213/549-5150			
CA	LONG BEACH	213-435-7088	FX B212A	120	213/548-6141	B/V	120	
CA	LOS ALTOS				415/856-9930			
CA	LOS ALTOS				415/856-9995	B/V	120	
CA	LOS ANGELES	213/626-0365	B		213/624-5230			
CA	LOS ANGELES	213/626-0365	B212A	120	213/689-9040			
CA	LOS ANGELES	213/626-2400	B212A	120	213/937-3580			
CA	LOS ANGELES	213/623-8500	V3405	120	213/624-2251	B/V	120	
CA	LOS ANGELES	213/626-0365	B212A	120				
CA	MARINA DEL REY	213/821-2257	FX B		213/822-9287			
CA	MARINA DEL REY				213/306-2984	B/V	120	
CA	MISSION HILLS	213/365-2013	FX B					
CA	MODESTO	209/578-4236	FX B		209/576-2852			
CA	MODESTO				209/576-2852	B/V	120	
CA	MOUNTAIN VIEW	415/961-7971	B		415/856-9930			
CA	MOUNTAIN VIEW	415/941-8450	B					
CA	MOUNTAIN VIEW	415/949-0330	B212A	120	415/856-9995	B/V	120	
CA	NEWPORT BEACH	714/540-9560	B		714/558-6061			
CA	NEWPORT BEACH	714/540-0951	B212A	120	714/558-7078	B/V	120	
CA	NORTHRIDGE	213/998-4872	FX B212A	120				
CA	NORWALK	213/865-2066	FX B212A	120				
CA	OAKLAND	415/836-8700	B		415/836-4884			
CA	OAKLAND	415/836-8900	B212A	120	415/836-4911	B/V	120	
CA	OXNARD	805/487-0482	B		805/659-4660			
CA	OXNARD	805/486-4536	B212A	120	805/647-6760	B/V	120	
CA	PALM SPRINGS				714/320-7491			
CA	PALO ALTO	415/856-9080	B		415/856-9930			
CA	PALO ALTO				415/856-9995	B/V	120	
CA	PASADENA	213/577-8722	FX B212A	120	213/956-8235			
CA	PASADENA				213/507-1006	B/V	120	
CA	REDWOOD CITY				415/595-0360			
CA	REDWOOD CITY				415/591-0726	B/V	120	
CA	RIVERSIDE				714/824-1710			
CA	RIVERSIDE	714/824-8170	B212A	120	714/824-3805	B/V	120	
CA	SACRAMENTO	916/441-6550	B		916/443-7921			
CA	SACRAMENTO	916/448-8151	B212A	120	916/448-6262	B/V	120	
CA	SALINAS	408/443-4333	FX B		408/443-4980			
CA	SALINAS				408/443-4940	B/V	120	
CA	SAN BERNADINO				714/824-1710			
CA	SAN BERNADINO				714/824-3805	B/V	120	
CA	SAN CARLOS				415/595-0360			
CA	SAN CARLOS				415/591-0726	B/V	120	
CA	SAN CLEMENTE	714/498-3130	FX B					
CA	SAN DIEGO	714/291-8700	B		714/231-1922			
CA	SAN DIEGO	714/293-3590	B212A	120	714/233-0233	B/V	120	
CA	SAN FRANCISCO	415/986-8200	B		415/362-6200			
CA	SAN FRANCISCO	415/397-4300	V3405	120	415/956-5777	B/V	120	
CA	SAN FRANCISCO	415/788-7955	B212A	120				

ST	CITY	TYMNET	TYPE	SPEED	TELENET	TYPE	SPEED
CA	SAN JOSE	408/446-1470	B		408/279-8450		
CA	SAN JOSE	408/446-7001	V3405	120			
CA	SAN JOSE	408/446-7309	B212A	120	408/279-2425	B/V	120
CA	SAN MATEO				415/595-0360		
CA	SAN MATEO				415/591-0726	B/V	120
CA	SAN PEDRO	213/830-0775	FX B		213/549-5150		
CA	SAN PEDRO				213/548-6141	B/V	120
CA	SANTA ANA				714/558-6061		
CA	SANTA ANA				714/558-7078	B/V	120
CA	SANTA BARBARA	805/682-9641	FX B		805/682-5361		
CA	SANTA BARBARA	805/682-9641	FX B/V	120	805/682-5361	B/V	120
CA	SANTA CLARA				408/279-8450		
CA	SANTA CLARA				408/279-2425	B/V	120
CA	SANTA CRUZ	408/429-9572	B212A	120			
CA	SANTA MONICA				213/822-9287		
CA	SANTA MONICA				213/306-2984	B/V	120
CA	SANTA ROSA	707/546-1050	B				
CA	SANTA ROSA	707/546-6776	B212A	120			
CA	SUNNYVALE				408/279-8450		
CA	SUNNYVALE				408/279-2425	B/V	120
CA	TORRANCE				213/549-5150		
CA	VAN NUYS	213/986-9503	FX B				
CA	VENTURA	805/487-0482	B		805/659-4660		
CA	VENTURA	805/486-4536	B212A	120	805/647-6760	B/V	120
CA	VISTA	714/727-6011	FX B				
CA	WEST COVINA	213/331-3954	B				
CA	WOODLAND HILLS				213/992-0144		
CA	WOODSIDE				415/856-9930		
CA	WOODSIDE				415/856-9995	B/V	120
CO	AURORA				303/623-0876		
CO	AURORA				303/629-1821	B/V	120
CO	BOULDER				303/623-0876		
CO	BOULDER				303/629-1821	B/V	120
CO	COLO. SPRINGS	303/475-2121	FX B		303/634-5676		
CO	COLO. SPRINGS	303/633-9599	B212A	120	303/473-0263	B/V	120
CO	DENVER	303/830-9003	B		303/623-0876		
CO	DENVER	303/830-9043	B				
CO	DENVER	303/830-9116	V3405	120			
CO	DENVER	303/830-9083	B212A	120	303/629-1821	B/V	120
CO	LAKWOOD				303/623-0876		
CO	LAKWOOD				303/629-1821	B212A	120
CT	BRIDGEPORT	203/579-7820	FX B				
CT	DANBURY	203/743-1340	FX B		203/794-9075		
CT	DANBURY	203/743-1650	B212A	120	203/794-9075	B/V	120
CT	DARIEN	203/655-8931	B				
CT	DARIEN	203/655-7951	B212A	120			
CT	FAIRFLD/BRDGPT	203/333-4926	B212A	120			
CT	GREENWICH				203/357-1800		
CT	GREENWICH				203/348-0787	B/V	120
CT	HARTFORD	203/242-7140	B		203/522-0344		
CT	HARTFORD	203/242-7417	B212A	120	203/247-9479	B/V	120
CT	MILFORD				203/789-0211		
CT	MILFORD				203/624-5954	B/V	120
CT	NEW HAVEN	203/789-0579	B		203/789-0211		
CT	NEW HAVEN	203/787-1702	B212A	120	203/624-5954	B/V	120
CT	STAMFORD				203/357-1800		
CT	STAMFORD				203/348-0787	B/V	120
CT	WATERBURY	203/755-1153	FX B				
CT	WEST HARTFORD				203/522-0344		
CT	WEST HARTFORD				203/247-9479	B/V	120
DC	WASHINGTON	202/442-3900	B				
DC	WASHINGTON	703/841-0200	B		202/347-1400		
DC	WASHINGTON	703/841-9560	B		202/783-2050		
DC	WASHINGTON	703/734-3900	B				
DC	WASHINGTON	301/770-1680	B				
DC	WASHINGTON	703/841-9330	V3405	120	202/347-6093	V3405	120
DC	WASHINGTON	703/734-8370	B212A	120	202/347-3061	B212A	120
DC	WASHINGTON	703/442-7800	B212A	120			
DC	WASHINGTON	703/841-3550	B212A	120			
DC	WASHINGTON	703/442-3960	B/V	120	202/347-6757	B/V	120
DC	WASHINGTON*	301/492-3150	BELL	30/120			
	(AUTOM. SPEED DETECTOR - ENTER P (CR))						
DC	WASHINGTON*	301/492-3142	B2025	120			
DC	WASHINGTON*	301/492-3129	V3405	120			
DC	WASHINGTON*	301/492-3132	V3405	120			
DC	WASHINGTON*	301/492-3134	V3405	120			
DC	WASHINGTON*	301/492-3135	V3405	120			

ST	CITY	TYMNET	TYPE	SPEED	TELENET	TYPE	SPEED	
DE	WILMINGTON	302/658-5261	FX B		302/737-8550			
DE	WILMINGTON	302/658-8611	B212A	120	302/737-8883	B/V	120	
FL	CLEARWATER				813/823-3223			
FL	DAYTONA BEACH	904/252-4481	FX B					
FL	FT LAUDERDALE	305/467-7550	FX B		305/764-4505	B/V	120	
FL	FT LAUDERDALE	305/467-3807	B212A	120	305/764-4505	B/V	120	
FL	HOLLY HILL				904/252-6637			
FL	JACKSONVILLE	904/721-8100	B		904/356-0790			
FL	JACKSONVILLE				904/356-2264	B/V	120	
FL	MIAMI	305/374-7120	B		305/371-4801			
FL	MIAMI	305/358-7271	B212A	120	305/371-4822	B/V	120	
FL	ORLANDO	305/851-3530	(30 GPS ONLY)		305/422-7560			
FL	ORLANDO	305/859-7670	B212A	120	305/422-4088	B/V	120	
FL	PENSACOLA	904/434-0134	FX B					
FL	ST PETERSBURG	813/535-6441	B		813/323-4026			
FL	ST PETERSBURG	813/535-1446	B212A	120	813/323-4026	B/V	120	
FL	SARASOTA	813/365-3526	FX B212A	120				
FL	TAMPA				813/225-1005			
FL	TAMPA	813/977-2400	B		813/224-9920			
FL	TAMPA	813/977-2400	B212A	120	813/223-1088	B/V	120	
FL	W PALM BEACH	305/622-2871	FX B		305/833-6691			
GA	ATLANTA	404/659-6670	B		404/577-8911			
GA	ATLANTA	404/659-2910	B					
GA	ATLANTA	404/581-0619	B212A	120	404/523-0834	B/V	120	
GA	COLUMBUS				404/324-0684			
GA	GAINESVILLE				402/534-0535			
GA	MACON	912/236-1904	V3405	120				
GA	SAVANNAH	912/352-7259	FX B		912/236-2605			
GA	SAVANNAH	912/236-1904	FX V3405	120				
HI	HONOLULU	CONTACT HAWAII TELEPHONE COMPANY FOR ACCESS(TELENET)						
HI	HONOLULU	CONTACT WESTERN UNION INT'L FOR ACCESS(TYMNET)						
IA	CEDAR RAPIDS	319/363-2482	FX B		319/364-0911			
IA	CEDAR RAPIDS	319/363-9019	FX B212A	120	319/364-0911	B/V	120	
IA	COUNCIL BLUFFS				402/341-7570			
IA	COUNCIL BLUFFS				402/341-7733	B/V	120	
IA	DAVENPORT	319/324-7197	V3405	120				
IA	DES MOINES	515/288-6640	B		515/288-4403			
IA	DES MOINES				515/288-4403	B/V	120	
IA	IOWA CITY	319/354-7371	FX B					
IA	WATERLOO	319/233-9227	B212A	120				
ID	BOISE	208/343-4851	B		208/344-7823			
ID	BOISE	208/344-4311	B212A	120				
IL	ARLINGTON HTS				312/938-0500			
IL	ARLINGTON HTS				312/938-0600	B/V	120	
IL	ARLINGTON HTS				312/938-0600	B/V	120	
IL	ARLINGTON HTS				312/263-3638	B/V	120	
IL	CHAMPAIGN				217/384-0011			
IL	CHAMPAIGN				217/384-6428	B/V	120	
IL	CHICAGO	312/346-4961	B		312/938-0500			
IL	CHICAGO	312/368-4700	B		301/938-0600	B/V	120	
IL	CHICAGO	312/368-4607	B		312/263-3638	B/V	120	
IL	CHICAGO	312/641-1630	B212A	120	312/938-0600	B/V	120	
IL	CHICAGO	312/372-0391	V3405	120	312/938-0600	B/V	120	
IL	CICERO				312/938-0500			
IL	CICERO				312/938-0600	B/V	120	
IL	CICERO				312/938-0600	B/V	120	
IL	CICERO				312/263-3638	B/V	120	
IL	E. ST. LOUIS				314/231-8800			
IL	E. ST. LOUIS				314/241-8150	B/V	120	
IL	FREEPORT	815/233-5585	B					
IL	JOLIET	815/723-9854	B212A	120				
IL	OAK PARK				312/938-0500			
IL	OAK PARK				312/938-0600	B/V	120	
IL	OAK PARK				312/938-0600	B/V	120	
IL	OAK PARK				312/263-3638	B/V	120	
IL	OAK PARK				312/938-0600	B/V	120	
IL	PEORIA	309/673-2156	FX B		309/637-8601			
IL	PEORIA				309/637-8570	B/V	120	
IL	ROCKFORD	815/398-6090	B					
IL	SKOKIE				312/938-0500			
IL	SKOKIE				312/938-0600	B/V	120	
IL	SKOKIE				312/938-0600	B/V	120	
IL	SKOKIE				312/263-3638	B/V	120	
IL	SPRINGFIELD	217/753-7905	B		217/753-1373			
IL	SPRINGFIELD	217/753-7900	B212A	120	217/753-1373	B/V	120	
IL	URBANA				217/384-6428			
IL	URBANA				217/384-6428	B/V	120	

ST	CITY	TYMNET	TYPE	SPEED	TELENET	TYPE	SPEED
IN	EVANSVILLE	812/423-6885	FX B				
IN	FT WAYNE	219/424-5162	FX B				
IN	GARY				219/882-8800		
IN	GARY				219/882-8800	B/V	120
IN	HIGHLAND	219/836-5452	FX B				
IN	INDIANAPOLIS	317/257-3461	B		317/635-9630		
IN	INDIANAPOLIS	317/926-1253	B212A	120	317/634-5708	B/V	120
IN	KOKOMO				317/456-3851		
IN	MARION	317/662-0091	FX B				
IN	MERRILLVILLE	219/769-7254	FX B				
IN	MISHAWKA				219/234-9071		
IN	MISHAWKA				219/233-7104	B/V	120
IN	OSCEOLA				219/234-9071		
IN	OSCEOLA				219/233-7104	B/V	120
IN	SOUTH BEND	219/233-4163	B		219/234-9071		
IN	SOUTH BEND				219/233-7104	B/V	120
KS	KANSAS CITY	913/677-2833	B		816/474-1600		
KS	KANSAS CITY	913/677-0707	B212A	120	816/421-0375	B/V	120
KS	SHAWNEE MISSION	913/677-2833	B				
KS	SHAWNEE MISSION	913/677-0707	B212A	120			
KS	TOPEKA	913/233-0690	FX B		913/233-9880		
KS	TOPEKA				913/233-9880	B/V	120
KS	WICHITA	316/265-1241	B		316/262-5669		
KS	WICHITA	316/264-7386	B212A	120	316/262-5669	B/V	120
KY	FRANKFORT				502/223-1841		
KY	LEXINGTON	606/253-3463	B		606/233-0312		
KY	LEXINGTON	606/253-3498	B212A	120			
KY	LOUISVILLE	502/361-3881	B		502/589-7520		
KY	LOUISVILLE	502/361-3821	B212A	120	502/589-5580	B/V	120
LA	BATON ROUGE	504/292-4050	B		504/343-0753		
LA	BATON ROUGE	504/292-2650	B212A	120			
LA	LAFAYETTE	318/235-3501	FX B				
LA	MONROE				318/387-6330		
LA	NEW ORLEANS	504/586-1071	B		504/524-0783		
LA	NEW ORLEANS	504/524-4371	B212A	120	504/524-4094	B212A	120
LA	SHREVEPORT				318/221-5833		
LA	SHREVEPORT	318/688-4666	FX B212A	120	318/221-5833	B/V	120
MA	ARLINGTON	617/482-4677	B				
MA	ARLINGTON	617/482-5622	B		617/338-1400		
MA	ARLINGTON	617/482-3386	B212A	120	617/338-7495	B/V	120
MA	ARLINGTON	617/482-1854	V3405	120			
MA	BOSTON	617/482-4677	B				
MA	BOSTON	617/482-5622	B		617/338-1400		
MA	BOSTON	617/482-3386	B212A	120	617/338-7495	B/V	120
MA	BOSTON	617/482-1854	V3405	120			
MA	BROOKLINE	617/482-4677	B				
MA	BROOKLINE	617/482-5622	B		617/338-1400		
MA	BROOKLINE	617/482-3386	B212A	120	617/338-7495	B/V	120
MA	BROOKLINE	617/482-1854	V3405	120			
MA	CAMBRIDGE	617/482-4677	B				
MA	CAMBRIDGE	617/482-5622	B		617/338-1400		
MA	CAMBRIDGE	617/482-3386	B212A	120	617/338-7495	B/V	120
MA	CAMBRIDGE	617/482-1854	V3405	120			
MA	CHICOPEE	413/781-6830	B		413/739-7221		
MA	CHICOPEE	413/781-0145	B212A	120			
MA	HOLYOKE	413/781-6830	B		413/739-7221		
MA	HOLYOKE	413/781-0145	B212A	120			
MA	LEXINGTON				617/863-1550		
MA	LEXINGTON				617/863-1565	B/V	120
MA	MEDFORD	617/482-4677	B				
MA	MEDFORD	617/482-5622	B		617/338-1400		
MA	MEDFORD	617/482-3386	B212A	120	617/338-7495	B/V	120
MA	MEDFORD	617/482-1854	V3405	120			
MA	NEWTON	617/482-4677	B				
MA	NEWTON	617/482-5622	B		617/338-1400		
MA	NEWTON	617/482-3386	B212A	120	617/338-7495	B/V	120
MA	NEWTON	617/482-1854	V3405	120			
MA	QUINCY	617/482-4677	B				
MA	QUINCY	617/482-5622	B		617/338-1400		
MA	QUINCY	617/482-3386	B212A	120	617/338-7495	B/V	120
MA	QUINCY	617/482-1854	V3405	120			
MA	SOMERVILLE	617/482-4677	B				
MA	SOMERVILLE	617/482-5622	B		617/338-1400		
MA	SOMERVILLE	617/482-3386	B212A	120	617/338-7495	B/V	120
MA	SOMERVILLE	617/482-1854	V3405	120			
MA	SPRINGFIELD	413/781-6830	B		413/739-7221		
MA	SPRINGFIELD	413/781-0145	B212A	120			

ST	CITY	TYMNET	TYPE	SPEED	TELENET	TYPE	SPEED
MA	WALTHAM	617/482-4677	B				
MA	WALTHAM	617/482-5622	B		617/338-1400		
MA	WALTHAM	617/482-3386	B212A	120	617/338-7495	B/V	120
MA	WALTHAM	617/482-1854	V3405	120			
MA	WORCESTER	617/754-9451	FX B		617/755-4810		
MA	WORCESTER	617/755-5601	B212A	120	617/755-4740	B/V	120
MD	ANNAPOLIS	301/547-8100	B		301/266-6886		
MD	ANNAPOLIS	301/685-2845	B212A	120			
MD	BALTIMORE	301/547-8100	B		301/962-5010		
MD	BALTIMORE	301/244-8959	B212A	120	301/685-3339	B/V	120
MD	BETHESDA	703/841-0200	B		202/347-1400		
MD	BETHESDA	301/770-1680	B				
MD	BETHESDA	703/524-9215	B212A	120	202/347-3061	B212A	120
MD	BETHESDA	703/841-9330	V3405	120	202/347-6093	V3405	120
MD	COLLEGE PARK	703/841-0200	B		202/347-1400		
MD	COLLEGE PARK	703/524-9215	B212A	120	202/347-3061	B212A	120
MD	COLLEGE PARK	703/841-9330	V3405	120	202/347-6093	V3405	120
MD	DUNDALK	301/547-8100	B		301/962-5010		
MD	DUNDALK	301/244-8959	B212A	120	301/685-3339	B/V	120
MD	ROCKVILLE	703/841-0200	B		202/347-1400		
MD	ROCKVILLE	301/770-1680					
MD	ROCKVILLE	703/524-9215	B212A	120	202/347-3061	B212A	120
MD	ROCKVILLE	703/841-9330	V3405	120	202/347-6093	V3405	120
MD	SILVER SPRING	301/770-1680	B				
MD	SILVER SPRING	703/841-0200	B		202/347-1400		
MD	SILVER SPRING	703/524-9215	B212A	120	202/347-3061	B212A	120
MD	SILVER SPRING	703/841-9330	V3405	120	202/347-6093	V3405	120
MD	TOWSON	301/547-8100	B		301/962-5010		
MD	TOWSON	301/244-8959	B212A	120	301/685-3339	B/V	120
ME	PORTLAND	207/773-2029	FX B212A	120			
MI	ANN ARBOR	313/665-2627	B		313/996-0351		
MI	ANN ARBOR	313/662-8282	B212A	120	313/996-5995	B/V	120
MI	BATTLE CREEK				616/968-0929		
MI	BATTLE CREEK				616/968-0929	B/V	120
MI	CADILLAC	616/775-1261	B212A	120			
MI	DETROIT	313/963-3388	B		313/964-5538		
MI	DETROIT	313/963-8880	B212A	120	313/964-2988	B/V	120
MI	DETROIT	313/963-2353	V3405	120			
MI	FLINT				313/233-3050		
MI	FLINT	313/732-7303	B212A	120	313/233-3050	B/V	120
MI	GRAND RAPIDS	616/459-5069	FX B		616/458-1200		
MI	GRAND RAPIDS	616/456-9092	B212A	120	616/774-0966	B/V	120
MI	JACKSON	517/787-9461	B				
MI	KALAMAZOO	616/385-3150	B		616/385-0160		
MI	KALAMAZOO	616/349-6753	B212A	120			
MI	KALAMAZOO	616/388-3534	V3405	120			
MI	LANSING	517/487-2040	FX B		517/372-5400		
MI	LANSING				517/372-5420	B/V	120
MI	MANISTEE	616/723-8760	FX B				
MI	PLYMOUTH	313/459-8900	B				
MI	PLYMOUTH	313/459-8100	B212A	120			
MI	SAGINAW				517/790-5166		
MI	SOUTHFIELD	313/569-8350	B				
MI	ST JOSEPH	616/429-2568	FX B				
MI	TRAVERSE CITY	616/946-0002	FX B				
MI	WARREN				313/575-9230		
MN	DULUTH				218/722-0906		
MN	MANKATO	507/625-1684	B212A	120			
MN	MINNEAPOLIS	612/339-5200	B		612/339-0150		
MN	MINNEAPOLIS	612/339-8086	B				
MN	MINNEAPOLIS	612/339-2415	B212A	120	612/338-3782	B/V	120
MN	ROCHESTER	507/282-3741	B212A	120			
MN	ST. PAUL	612/339-5200	B		612/339-0150		
MN	ST. PAUL	612/339-2415	B212A	120	612/338-3782	B/V	120
MO	BRIDGETON	314/731-2304	FX B				
MO	COLUMBIA	314/875-1150	FX B				
MO	FLORISSANT				314/231-8800		
MO	FLORISSANT				314/241-8150	B/V	120
MO	JEFFERSON CITY	314/634-3273	B212A	120			
MO	JOPLIN	417/782-3037	B212A	120			
MO	KANSAS CITY	913/677-2833	B		816/474-1600		
MO	KANSAS CITY	913/677-0707	B212A	120	816/421-0375	B/V	120
MO	SPRINGFIELD	417/831-0566	B212A	120			
MO	ST JOSEPH	816/232-0624	B212A	120			
MO	ST LOUIS	314/421-5110	B		314/231-8800		
MO	ST LOUIS	314/621-4660	B212A	120	314/421-3615	B/V	120
MS	JACKSON	601/944-0860	FX B		601/969-0036		

ST	CITY	TYMNET	TYPE	SPEED	TELENET	TYPE	SPEED
MS	JACKSON	601/969-5141	B212A	120			
MS	PASCAGOULA	601/769-6502	B				
MS	PASCAGOULA	601/769-6673	B212A	120			
MT	BUTTE	406/494-2998	B212A	120			
MT	HELENA				406/443-0000		
NE	LINCOLN	402/475-8659	FX B/V				
NE	OMAHA	402/392-2970	B		402/341-7733		
NE	OMAHA				402/341-7733	B/V	120
NC	ASHEVILLE	704/255-0021	B212A	120	704/253-3517		
NC	ASHEVILLE				704/253-3517	B/V	120
NC	CHARLOTTE	704/376-2545	FX B		704/374-0371		
NC	CHARLOTTE	704/376-2544	FX B212A	120	704/332-3131	B/V	120
NC	DAVIDSON	919/549-0441	B		919/549-8311		
NC	DAVIDSON				919/549-8139	B/V	120
NC	DURHAM	919/549-0441	B		919/549-8311		
NC	DURHAM	919/549-8910	B212A	120	919/549-8139	B/V	120
NC	GREENSBORO	919/379-0034	FX B		919/273-2851		
NC	GREENSBORO	919/275-9455	FX B212A	120	919/273-2851	B/V	120
NC	HIGH POINT	919/885-0171	FX B		919/889-2253		
NC	HIGH POINT	919/885-0171	FX B/V	120	919/889-2253	B/V	120
NC	RALEIGH/DURHAM	919/549-0441	B		919/549-8311		
NC	RALEIGH/DURHAM	919/832-6592	FX B212A	120	919/549-8139	B/V	120
NC	RES. TRI. PARK	919/549-0441	B		919/549-8311		
NC	RES. TRI. PARK				919/549-8139	B/V	120
NC	WINSTON-SALEM	919/725-1414	B		919/725-2126		
NC	WINSTON-SALEM	919/725-9252	B212A	120	919/725-2126	B/V	120
ND	BISMARCK				701/663-5081		
ND	MANDAN				701/663-5081		
NH	CONCORD				603/224-8110		
NH	CONCORD				603/224-1024	B/V	120
NH	MANCHESTER	603/669-0493	FX B				
NH	NASHUA	603/882-0435	FX B/V	120			
NH	PORTSMOUTH				603/431-2302		
NJ	ATLANTIC CITY				609/348-0561		
NJ	BAYONNE				201/623-6818		
NJ	BAYONNE				201/623-0469	B/V	120
NJ	ENGLEWOOD CLFS	201/894-8250	B				
NJ	JERSEY CITY				201/623-6818		
NJ	JERSEY CITY				201/623-0469	B/V	120
NJ	LYNDHURST	201/460-0100	B				
NJ	LYNDHURST	201/460-0180	B212A	120			
NJ	MARLTON				609/596-1500		
NJ	MARLTON				609/596-1500	B/V	120
NJ	MOORESTOWN	609/235-3761	FX B				
NJ	MORRISTOWN				201/455-0275		
NJ	MORRISTOWN	201/267-3997	B212A	120	201/455-0275	B/V	120
NJ	NEW BRUNSWICK				201/246-1090		
NJ	NEWARK	201/483-5937	B		201/623-6818		
NJ	NEWARK	201/483-4878	B212A	120	201/623-0469	B/V	120
NJ	PASSAIC				201/777-0952		
NJ	PATERSON				201/684-7560	B/V	120
NJ	PATERSON				201/278-5960	B/V	120
NJ	PISCATAWAY	201/981-1900	B				
NJ	PRINCETON	609/452-8970					
NJ	PRINCETON	609/452-8560	B212A	120			
NJ	TRENTON				609/989-8847		
NJ	TRENTON				609/989-8847	B/V	120
NJ	UNION	201/483-5937	B				
NJ	UNION	201/483-4878	B212A	120			
NJ	UNION CITY				201/623-6818		
NJ	UNION CITY				201/623-0469	B/V	120
NJ	WAYNE	201/785-4480	B				
NM	ALBUQUERQUE				505/243-7701		
NM	ALBUQUERQUE	505/843-6301	B212A	120	505/243-4479	B/V	120
NM	SANTE FE				505/982-4282		
NV	BOULDER CITY	702/293-0300	B				
NV	CARSON CITY	702/882-7810	B/V	120			
NV	CARSON CITY	702/883-6546	B212A	120			
NV	LAS VEGAS	702/293-0300	B		702/733-2158		
NV	LAS VEGAS				702/737-6861	B/V	120
NV	RENO	702/882-7810	B/V	120			
NV	RENO	702/883-6546	B212A	120			
NY	ALBANY	518/463-3111	FX B		518/445-9111		
NY	ALBANY	518/434-2633	B212A	120	518/465-8444	B/V	120
NY	BINGHAMPTON				607/722-0650		
NY	BINGHAMPTON				607/772-6642		
NY	BUFFALO	716/856-1400	B		716/847-C. 30		

ST	CITY	TYMNET	TYPE	SPEED	TELENET	TYPE	SPEED
NY	BUFFALO	716/847-0500	B212A	120	716/847-1440	B/V	120
NY	CORNING	607/962-5071	B				
NY	CORNING	607/936-4151	B212A	120			
NY	DEER PARK				516/586-7810		
NY	ELMIRA	607/737-9010	B212A	120			
NY	HEMPSTEAD, LI	516/872-6500	FX B		516/292-0320		
NY	HEMPSTEAD, LI	516/872-6500	FX B/V	120	516/481-6012	B/V	120
NY	HUNTINGTON, LI	516/549-2780	FX B				
NY	HUNTINGTON, LI	516/549-2780	FX B/V	120			
NY	NEW YORK	212/344-7445	B		212/279-1000		
NY	NEW YORK	212/683-0131	B				
NY	NEW YORK	212/532-0437	B		212/736-0099		
NY	NEW YORK	212/685-4414	B				
NY	NEW YORK	212/668-0130	B212A	120	212/947-9600	B/V	120
NY	NEW YORK	212/532-8101	B212A	120			
NY	NEW YORK	212/684-6363	V3405	120			
NY	NEW YORK	212/344-3392	(30 CPS ONLY)				
NY	NEW YORK	212/785-5400	B/V	120			
NY	NIAGARA FALLS	716/285-6691	FX B				
NY	NIAGARA FALLS	716/285-3114	FX B212A	120			
NY	POUGHKEEPSIE				914/473-5600		
NY	ROCHESTER	716/248-8000	B		716/454-3430		
NY	ROCHESTER	716/248-8350	B212A	120	716/454-1020	B/V	120
NY	SCHENECTADY				518/445-9111		
NY	SCHENECTADY				518/465-8444	B/V	120
NY	SYRACUSE	315/437-7111	B		315/472-5503		
NY	SYRACUSE	315/437-1117	B212A	120	315/472-5583	B/V	120
NY	TROY				518/445-9111		
NY	TROY				518/465-8444	B/V	120
NY	WHITE PLAINS	914/694-9361	B		914/328-9199	B/V	120
NY	WHITE PLAINS	914/694-8960	B212A	120	914/946-3176	B/V	120
OH	AKRON	216/535-1861	B		216/762-9791		
OH	CANTON				216/452-0903		
OH	CINCINNATI	513/891-7211	B		513/621-7017		
OH	CINCINNATI	513/791-5311	B212A	120	513/579-0390	B/V	120
OH	CINCINNATI	513/793-8893	V3405	120			
OH	CLEVELAND	216/781-7050	B		216/241-0940		
OH	CLEVELAND	216/861-5383	B212A	120	216/696-4225	B/V	120
OH	COLUMBUS	614/421-7270	B		614/463-9340	B/V	120
OH	COLUMBUS	614/421-1650	B212A	120	614/461-1853	B/V	120
OH	DAYTON	513/223-3847	B		513/461-1570		
OH	DAYTON	513/461-6400	B212A	120	513/461-5254	B/V	120
OH	EUCLID				216/241-0940		
OH	EUCLID				216/696-4225	B/V	120
OH	KENT				216/678-5115		
OH	MARYSVILLE	513/642-2015	FX B212A	120			
OH	PARMA				216/241-0940		
OH	PARMA				216/696-4225	B/V	120
OH	SPRINGFIELD				513/323-8433		
OH	TOLEDO	419/243-3144	FX B		419/225-7805		
OH	TOLEDO	419/255-2946	FX B212A	120	419/225-7881	B/V	120
OH	YOUNGSTOWN				216/743-2296		
OH	YOUNGSTOWN	216/744-5326	B212A	120			
OK	BARTLESVILLE				918/336-0020		
OK	BETHANY	405/947-0561	B		405/232-4550		
OK	BETHANY	405/949-0125	B212A	120	405/232-4546	B/V	120
OK	NORMAN	405/947-0561	B		405/232-4550		
OK	NORMAN	405/949-0125	B212A	120	405/232-4546	B/V	120
OK	OKLAHOMA CITY	405/947-0561	B		405/232-4546		
OK	OKLAHOMA CITY	405/949-0125	B212A	120	405/232-4546	B/V	120
OK	STILLWATER				405/624-1112		
OK	TULSA	918/663-2220	B		918/584-3247		
OK	TULSA	918/665-2750	B212A	120	918/584-3247	B/V	120
OR	PORTLAND	503/231-4050	B		503/243-2800		
OR	PORTLAND	503/231-4077	B212A	120	503/243-2815	B/V	120
PA	ALLENTOWN	215/433-6131	FX B		215/425-3330		
PA	ALLENTOWN	215/432-5926	B212A	120	215/425-3330	B/V	120
PA	ALTOONA	814/946-8888	B212A	120			
PA	DOWINGTON	215/269-9861	FX B/V	120			
PA	ERIE	814/453-7161	B		814/453-7561		
PA	ERIE				814/453-6859	B/V	120
PA	HARRISBURG	717/236-1190	FX B		717/236-3202		
PA	HARRISBURG				717/236-6892	B/V	120
PA	JOHNSTOWN				814/535-7576		
PA	JOHNSTOWN				814/535-8541	B/V	120
PA	KING OF PRUSSIA	215/337-9900	B		215/337-4300		
PA	KING OF PRUSSIA	215/337-9900	B212A	120	215/337-4300	B/V	120

ST	CITY	TYMNET	TYPE	SPEED	TELENET	TYPE	SPEED
PA	PENN HILLS				412/288-9950		
PA	PENN HILLS				412/288-9974	B/V	120
PA	PHILADELPHIA	215/561-6120	B		215/574-0620		
PA	PHILADELPHIA	215/567-1381	B212A	120	215/574-9462	B/V	120
PA	PITTSBURGH	412/765-1320	B		412/288-9950		
PA	PITTSBURGH	412/261-4151	B212A	120	412/288-9974	B/V	120
PA	SCRANTON				717/961-5321		
PA	SHARON				412/346-6576		
PA	UPPER DARBY				215/574-0620		
PA	UPPER DARBY				215/574-9462	B/V	120
PA	VALLEY FORGE	215/666-9190	B				
PA	VALLEY FORGE	215/666-0930	B212A	120			
PA	YORK				717/846-6550		
PA	YORK	717/846-3900	V3405	120	717/846-6550	B/V	120
RI	PROVIDENCE	401/273-0200	FX B		401/272-9290		
RI	PROVIDENCE	401/273-0201	B212A	120	401/751-7912	B/V	120
RI	WARWICK	401/274-5783	FX B		401/272-9290		
RI	WARWICK	401/831-5566	B212A	120	401/751-7912	B/V	120
SC	CHARLESTON				803/722-4352		
SC	CHARLESTON	803/577-2179	FX B/V	120	803/722-4303	B/V	120
SC	COLUMBIA	803/252-0840	FX B		803/254-1108		
SC	COLUMBIA	803/256-5238	FX B212A	120	803/254-0695	B/V	120
SC	GREENVILLE	803/271-2418	FX B		803/233-3468		
SC	GREENVILLE	803/271-9967	FX B		803/233-3486	B/V	120
SC	SPARTANBURG	803/585-2637	FX B/V	120	803/583-5421		
SD	PIERRE				605/224-6188		
TN	CHATTANOOGA	615/756-5856	B		615/756-5323		
TN	CHATTANOOGA	615/756-0561	B212A	120	615/756-1161	B/V	120
TN	KNOXVILLE	615/637-3118	FX B		615/523-5500		
TN	KNOXVILLE	615/523-7458	FX B212A	120	615/523-5500	B/V	120
TN	MEMPHIS	901/529-0170	B		901/525-2563		
TN	MEMPHIS	901/520-0183	B212A	120	901/521-0215	B/V	120
TN	NASHVILLE	615/367-9382	B		615/244-8310		
TN	NASHVILLE	615/361-7566	B212A	120	615/244-5099	B/V	120
TX	ABILENE				915/676-7701		
TX	AUSTIN	512/444-3280	B		512/928-1130		
TX	AUSTIN	512/444-5800	B212A	120	512/928-1130	B/V	120
TX	BAYTOWN	713/427-5856	FX B				
TX	BEAUMONT	713/832-2589	FX B				
TX	CORPUS CHRISTI	512/882-3641	FX B				
TX	DALLAS	214/638-8888	B		214/748-0127		
TX	DALLAS	214/688-1444	B212A	120	214/748-6371	B/V	120
TX	EL PASO	915/544-9590	B				
TX	EL PASO	915/532-1936	B212A	120			
TX	FORT WORTH	214/263-4581	FX B		817/336-7791		
TX	FORT WORTH	214/263-0278	B212A	120	817/332-4307	B/V	120
TX	HOUSTON	713/975-0500	B		713/224-3380		
TX	HOUSTON	713/977-4080	B				
TX	HOUSTON	713/780-7390	B				
TX	HOUSTON	713/780-7496	V3405	120			
TX	HOUSTON	713/977-7671	B212A	120	713/225-9359	B/V	120
TX	LACKLAND				512/227-7784		
TX	LACKLAND				512/227-0182	B/V	120
TX	LONGVIEW	214/758-1756	FX B				
TX	LUBBOCK	806/762-0136	FX B				
TX	MIDLAND	915/683-5645	B				
TX	MIDLAND	915/683-9833	B212A	120			
TX	NEDERLAND				713/724-2341		
TX	ODESSA	915/563-3745	FX B		915/332-6883		
TX	SAN ANGELO				915/944-9670		
TX	SAN ANGELO				915/944-8502	B/V	120
TX	SAN ANTONIO	512/696-4002	B		512/227-7784		
TX	SAN ANTONIO	512/699-9627	B212A	120	512/227-0182	B/V	120
UT	SALT LAKE CITY	801/582-8972	B		801/364-2644		
UT	SALT LAKE CITY	801/582-6060	B212A	120	801/359-0149	B/V	120
VA	CHESAPEAKE				804/625-8291		
VA	CHESAPEAKE				804/625-1186	B/V	120
VA	HERNDON				703/435-3333		
VA	NEWPORT NEWS	804/596-5754	FX B		804/596-6600		
VA	NEWPORT NEWS				804/596-6600	B/V	120
VA	NORFOLK				804/625-8291		
VA	NORFOLK	804/625-8301	B212A	120	804/625-1186	B/V	120
VA	PORTSMOUTH				804/625-8291		
VA	PORTSMOUTH				804/625-1186	B/V	120
VA	RICHMOND	804/649-3050	FX B		804/788-9902	B/V	120
VA	RICHMOND	804/788-4604	B212A	120	804/780-0426	B/V	120
VA	ROANOKE	703/345-6668	FX B/V	120			

ST	CITY	TVMNET	TYPE	SPEED	TELENET	TYPE	SPEED
VA	VIRGINIA BEACH				804/625-8291		
VA	VIRGINIA BEACH				804/525-1186	B/V	120
VT	BURLINGTON	802/864-0054	FX B212A	120			
VT	MONTPELIER				802/229-4966		
WA	AUBURN				206/939-8200		
WA	BELLEVUE	206/625-9937	B212A	120	206/625-9612	B/V	120
WA	BELLEVUE	206/625-9900	B		206/447-9012		
WA	ENUMCLAW	206/825-6909	FX B				
WA	LONGVIEW				206/577-5835		
WA	OLYMPIA	206/943-4190	FX B				
WA	RICHLAND	509/375-1975	B				
WA	RICHLAND	509/375-3367	B212A	120			
WA	SEATTLE	206/625-9900	B		206/447-9012		
WA	SEATTLE	206/625-9937	B212A	120	206/625-9612	B/V	120
WA	SPOKANE				509/455-7601		
WA	SPOKANE	509/747-4105	B/V	120	509/455-4071	B/V	120
WA	TACOMA	206/952-6800	FX B		206/627-1717		
WA	TACOMA				206/627-1719	B/V	120
WA	WENACHEE				509/662-1901		
WA	WENACHEE				509/662-1901	B/V	120
WI	APPLETON	414/734-9940	FX B				
WI	EAU CLAIRE	715/834-7863	FX B212A	120	715/835-4641		
WI	GREEN BAY	414/468-6808	B212A	120			
WI	MADISON	608/221-4211	B		608/251-5904		
WI	MADISON	608/221-0891	B212A	120	608/257-5010	B/V	120
WI	MILWAUKEE	414/257-3482	B		414/271-2560		
WI	MILWAUKEE	414/257-1703	B212A	120	414/271-3914	B/V	120
WI	NEENAH	414/722-5580	V3405	120			
WI	OSHKOSH	414/235-4594	FX B				
WV	CHARLESTON	304/345-2908	B212A	120	304/345-6471	B/V	120
WV	CHARLESTON				304/345-6471	B/V	120
WV	HUNTINGTON	304/522-6261	FX B				
WY	CHEYENNE				307/778-2721		
WY	CHEYENNE				307/632-0575	B/V	120

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THE NLM TECHNICAL BULLETIN

OCTOBER 1981

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DATABASE	TOTAL RECORDS	DATES COVERED	DATE LAST UPDATED	LATEST UPDATE TAG
*AVLINE	10,297	THROUGH 1981	16 OCT 81	
*BIOETHICS	12,180	JAN 73-JUL 81	16 SEP 81	8109(EM)
*CANCERLIT	269,672	JAN 63-OCT 81	19 OCT 81	8110(EM)
*CANCERPROJ	20,276	1978-1981	28 JUL 81	8107(EM)
*CATLINE	332,754	THROUGH 1981	16 OCT 81	
*CHEMLINE	506,271		14 SEP 81	8109(EM)
*CLINPROT	2,611		16 JUL 81	8107(EM)
*EPILEPSY	36,472	1945-PRESENT	20 OCT 80	
HEALTH	186,999	JAN 75-NOV 81	13 OCT 81	8111(EM)
*HISTLINE	46,337		24 AUG 81	8108(EM)
MEDLINE	613,257	JAN 79-NOV 81	05 OCT 81	8111(EM)
MED77	510,995	JAN 77-DEC 78	15 DEC 80	
+MED75	642,953	JAN 75-DEC 76	15 DEC 80	
+MED72	669,106	JAN 72-DEC 74	15 DEC 80	
+MED69	668,257	JAN 69-DEC 71	15 DEC 80	
+MED66	501,801	JAN 66-DEC 68	15 DEC 80	
MESH VOC	41,759	1981	19 OCT 81	
*NAME AUTH	117,882		05 OCT 81	
*POPLINE	80,752	1970-OCT 81	13 OCT 81	8110(EM)
*RTECS	48,569	1979 ED.-JUL 81	31 AUG 81	
SDILINE	23,248	NOV 81	05 OCT 81	
*SERLINE	38,073	1981	16 SEP 81	
*TDB	3,222		17 AUG 81	
*TOXLINE	548,413		28 SEP 81	8109(EM)
CBAC	276,671	1977-VOL 34(3-5)		
TOXBIB	90,141	1977-OCT 81		
IPA	23,716	1977-VOL 18(13)		
HEEP	60,891	1977-VOL 10(10)		
PESTAB	12,918	1977-VOL 14(8,9)		
EMIC	31,486	1960-APR 81		
ETIC	21,789	1950-JUN 81		
RPROJ	32,960	1978-NOV-DEC 81		
TD3	7,831	OCT 79-AUG 81		
*TOXBACK74	275,506		10 SEP 80	
CBAC	147,332	1974-1976		
TOXBIB	65,433	1974-1976		
IPA	17,582	1974-1976		
HEEP	37,198	1974-1976		
PESTAB	7,961	1974-1976		
+TOXBACK65	387,377		10 SEP 80	
CBAC	196,015	1965-1973		
TOXBIB	112,170	1968-1973		
IPA	21,973	1970-1973		
HEEP	29,662	1971-1973		
HAPAB	12,966	1966-1973		
HAYES	10,039	1940-1966		
TMIC	4,552	1971-1975		

1) * = NLM ONLY

2) + = AVAILABLE ONLY THRU OFFSEARCH

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TECHNICAL NOTES

Whenever applicable, the headings of each Technical Note will include a reference to the section of the NLM Online Services Reference Manual which is considered most relevant to the item being discussed (e.g., Manual 2.9). Users should keep in mind that the item may pertain to other sections of the Manual.

- RTECS TOXIC EFFECTS DATA (Manual 14.4.11.1) - In October 1981, the RTECS file was regenerated to include additional Toxic Effects data from National Institute for Occupational Safety and Health (NIOSH) that is used in the Toxicity Data Index Strings (IX) field. Not all the Toxic Effects data had been included in the RTECS file regenerations made available from March through September 1981 due to tape translation difficulties. Searches now made on Toxic Data terms contained in the Index Strings will retrieve substantially more postings than previously. Other fields in the RTECS record were not affected.
- SPECIAL REQUEST - NLM's Office of Inquiries would like to hear about unusual uses of MEDLINE and the other MEDLARS databases. If you have an interesting anecdote -- e.g., how a MEDLINE search turned up crucial information that led to better patient care, or how a search produced information that influenced the direction of research, or any other search that made you especially glad that MEDLARS exists -- please contact Bob Mehnert, Public Information Officer, National Library of Medicine, Bethesda, Maryland 20209. (Telephone: 301/496-6308)
- MLA CONTACT HOURS FOR ATTENDING REGIONAL UPDATES - In September of each year Technical Resource Persons (TRPs) from each Region attend an Online Services Update at NLM. Following the NLM meeting, each TRP holds at least one update session in his/her own region. Users are encouraged to attend these update sessions to learn of new system features and changes in the MeSH vocabulary. Four Medical Library Association contact hours are awarded for attendance at the 1982 regional update sessions.
- CORRECTION FOR 1982 ANNOTATED MESH - The allowable categories have been omitted from the subheadings listed on page XLIX of the MeSH - Annotated Alphabetic List, 1982. Please add these categories, which can be found on the corresponding page of the 1981 MeSH or on page LI of the 1982 MeSH.

PLEASE TYPE NEWS TO SEE MOST RECENT NEWS ITEMS ONLINE

HOLIDAY
SCHEDULE

- HOLIDAY SCHEDULE FOR 1982:

<u>HOLIDAY</u>	<u>DATE</u>	<u>NLM</u>	<u>SUNY</u>
New Year's Day	Fri, Jan 1	DOWN	DOWN
George Washington's B'day (Observed)	Mon, Feb 15	UP*	UP*
Memorial Day (Observed)	Mon, May 24	DOWN	UP*
Memorial Day (Observed)	Mon, May 31	UP	DOWN
Independence Day (Observed)	Mon, Jul 5	DOWN	DOWN
Labor Day	Mon, Sep 6	DOWN	DOWN
Columbus Day (Observed)	Mon, Oct 11	UP*	UP*
Columbus Day	Tue, Oct 12	UP	UP*
Veteran's Day	Thu, Nov 11	UP*	UP*
Thanksgiving	Thu, Nov 25	DOWN	DOWN
Christmas (Observed)	Fri, Dec 24	DOWN	DOWN
Christmas	Sat, Dec 25	DOWN	DOWN

*Non-prime rates are in effect all day.

YEAR-END
PROCESSING

- The 1982 MEDLINE files will be available online with January 1982 data on December 14, 1981. At that time, all searches using MeSH headings must conform to Medical Subject Headings, 1982. Changes for 1982 are reflected in various lists in the preface of the Medical Subject Headings - Annotated Alphabetic List, 1982. This publication has been available from the National Technical Information Service since mid-August; order information was given in the August 1981 Technical Bulletin.

In using these lists, please note that:

(1) the lists of new headings (with previous indexing, with scope notes and by subcategory) contain only those headings that are not in the 1981 MeSH. They do not include new forms of existing headings; these headings appear in the list titled "New Medical Subject Headings Replacing Deleted Headings."

(2) in the list entitled "Deleted Medical Subject Headings with Replaced-by Headings," those headings followed by (en) or (ep) can still be used as search terms. Those few terms not followed by (en) or (ep) cannot be used as search terms and must be deleted from all stored and/or saved searches. Other terms may remain in the searches and will automatically map to the new term.

(3) there are two lists of topical subheadings by category: since 1975 and 1966-1974. Before 1975, subheadings were allowed for entire categories, i.e., Categories A and B for the subheading anatomy & histology. Beginning 1975, specific subcategories could be specified, i.e., Categories A, B1, B2, B5, B6 for anatomy & histology. Also, for some subheadings, entire categories have been added and/or deleted.

(4) the list of tree number changes is enclosed with this issue. We have included this list since it does not appear in MeSH. Although it is recommended that English main headings be used in the explode command wherever possible, there are circumstances which require the use of the tree number, e.g., when a term is in more than one tree, the trees are different, and only one tree is desired. This list may be used to validate tree numbers.

All stored searches used in the Automatic SDI Program that require changes must be deleted and re-stored by December 11, 1981 for processing against the January 1982 data the following weekend. (This will be a one-week delay from the usual processing schedule.) To facilitate this, you will be able to execute stored searches online between November 23rd and December 12th and the December 1981 SDILINE at NLM will contain 1982 terms at this time. In summary, the 1981 year-end processing schedule is as follows:

- November 9, 1981 - December 1981 MEDLINE/SDILINE data at NLM and SUNY.
 - November 23, 1981 - December 1981 SDILINE with 1982 MeSH terms up on the NLM computer with stored searches executable online.
 - December 14, 1981 - 1982 MEDLINE files available with January 1982 data at NLM and SUNY. MEDLINE, MED79 and MED77 will be online at both NLM and SUNY while MED75, MED72, MED69 and MED66 will be available through OFFSEARCH only.
- Automatic SDI's processed against January 1982 data.

- 1982 UPDATE SCHEDULE - Appendix A is a schedule for updating for MEDLINE/SDILINE, HEALTH, POPLINE, CANCERLIT, and TOXLINE for 1982.
- 1982 MESH TREE NUMBER CHANGES - The following is enclosed with this issue:
MeSH Tree Number Changes - 1982
- MAP OF ONLINE CENTERS - A map showing the number of online centers in the U.S. by state and region is enclosed with this issue.
- DATABASE FACT SHEETS - New Fact Sheets are enclosed for the TOXLINE, CHEMLINE, RTECS, and TDB files.

EXPANDED EVENING & WEEKEND HOURS OF ONLINE SERVICE
 Joseph Leiter, Ph.D., Associate Director for Library Operations, NLM

Beginning October 1, 1981, hours of evening access on both the NLM and SUNY computers were increased. This expansion makes six additional evening hours available at NLM and four additional at SUNY, all at non-prime connect hour rates. There are also eight and one-half new non-prime hours on Saturday at NLM only. In total, the NLM computer is now available for 95.5 hours per week and the SUNY computer for 63 hours.

We hope that the additional evening hours will prove especially useful to those users in the time zones other than Eastern. The implementation of Saturday hours is in response to our user community's request for weekend hours, and we hope this availability is helpful.

Other changes in the hours of availability involve the CATLINE and AVLINE databases at NLM. These databases will be updated on Thursday evenings between 5:00 and 6:30 PM ET. They will be unavailable for searching during the update period.

The software tested on Thursday afternoons during September has also been implemented. This allows SUNY-primary access users to access databases at NLM that they normally cannot access (i.e., MEDLINE and its backfiles and the HEALTH PLANNING AND ADMINISTRATION database). If the SUNY computer is unavailable for more than 30 minutes due to computer failure, this program will be activated and allow these users to access these files at NLM. (All other NLM files are regularly accessed by SUNY-primary access users.) The program will also be in effect on Saturdays to give SUNY-primary access users access to all databases at NLM during this time period.

Offprints (offline prints and offsearch printouts) ordered on the NLM computer on Saturday will be processed on Monday evening and mailed Tuesday morning. Please remember to allow additional time accordingly for receipt of these offprints.

MEDLARS Management Section Service Desk hours will remain the same:
 8:30 AM - 5:00 PM ET, Monday through Friday.

A summary of the new hours for access to online service follows:

NLM	3:00 AM - 8:00 PM ET, Monday, Wednesday, Thursday
	3:00 AM - 9:00 PM ET, Tuesday, Friday
	8:30 AM - 5:00 PM ET, Saturday
SUNY	8:00 AM - 9:00 PM ET, Monday, Wednesday, Thursday
	8:00 AM - 8:00 PM ET, Tuesday, Friday
	No Saturday hours

ADDITIONAL TOXIC EFFECTS TERMS FOR RTECS MUTATION DATA
 Jeanne C. Goshorn, Specialized Information Services, NLM

The regenerated RTECS file made available to MEDLARS users in August 1981 includes terms for three additional mutation test systems now used by the National Institute for Occupational Safety and Health (NIOSH) in reporting results of mutagenicity testing. Twelve additional cell type/microorganism designations are also used in reporting mutation data. These new designations appear in online RTECS as controlled vocabulary terms that are searchable and printable as part of the Toxicity Data Keyword (TDKW) field. The new mutation test systems search terms and their NIOSH definitions are:

<u>Search Term</u>	<u>Definition</u>
DNA INHIBITION	System detects damage that inhibits the synthesis of DNA
PHAGE INHIBITION	System utilizes a lysogenic virus to detect a change in the genetic characteristics by the transformation of the virus from noninfectious to infectious
BODY FLUID ASSAY	System uses two separate species, usually mammalian and bacterial. Test substance is first administered to host, from whom body fluid (e.g., urine, blood) is subsequently taken. This body fluid is then tested in vitro, and mutations are measured in the bacterial species.

The new cell type/microorganism search terms and their generic keywords are:

<u>Specific Search Term</u>	<u>Generic Search Term</u>
H. INFLUENZAE	BACTERIA
C. REINHARDI	PROTOZOA
E. GRACILIS	PROTOZOA
OTHER MICROORGANISMS	---
GRASSHOPPER	INSECTS
SILKWORM	INSECTS
OTHER INSECTS	INSECTS
SALMON	FISH
ASCITES TUMOR	---
KIDNEY	SOMATIC CELLS
SPERM	GAMETE
OTHER CELL	---

As with all other controlled vocabulary terms used to search the Toxicity Data Keyword (TDKW) field in RTECS, these new terms may be entered singly or combined with other controlled vocabulary terms in a search strategy qualified by (IX). Portions of retrieved records that are "hit" in such a search of the Toxicity Data Keyword (TDKW) field (sometimes referred to as the Index Strings) may be printed by using the command PRT TOXDATA (or PRT TDKW if the source line linked to the Keywords is not required). Examples follow.....

SS 1 /C?
USER:
(IX)DNA INHIBITION
PROG:
SS (1) PSTG (93)

SS 2 /C?
USER:
PRT 1 TOXDATA
PROG:

SI - NIOSH/AR7600000
NI - ACRIDINE, 3,6-BIS(DIMETHYLAMINO)-
RN - 494-38-2
SO - MGGEAE MOLECULAR & GENERAL GENETICS. 150,301,77
TDKW - MUTATION;DNA INHIBITION;10 MG/L

SS 2 /C?
USER:
(IX)SILKWORM
PROG:
SS (2) PSTG (6)

SS 3 /C?
USER:
PRT 1 TOXDATA
PROG:

SI - NIOSH/AR7875000
NI - ACRIDINE,
6-CHLORO-9-((4-(DIETHYLAMINO)-1-METHYLBUTYL)AMINO)-2-METHOXY-,
DIHYDROCHLORIDE
RN - 69-05-6
SO - MUREAV MUTATION RESEARCH. 22,295,74
TDKW - MUTATION;SPECIFIC LOCUS;SILKWORM;INSECTS;PARENTERAL;500 UG

Questions concerning searching the RTECS file may be directed to either MEDLARS Management Section on (301)496-6193 or (800)638-8480, or Specialized Information Services on (301)496-1131. As in the past, any questions about the data in the file should be directed to the RTECS Editor's Office at NIOSH, Cincinnati, Ohio on (513)684-8317.

FROM THE OCTOBER 1981 NLM NEWS

TEN YEARS OF MEDLINE

This month marks the tenth year of operation of NLM's MEDLINE (MEDLARS onLINE) system. After a 16-month experiment with the prototype system, AIM-TWX, MEDLINE was made available to the biomedical community in October 1971. It was the first nationally available, local-call, online retrieval system. The initial user group of 25 institutions had grown to 92 by the end of that first year, and as of September 1981, there are over 1,500 U.S. users. Non-U.S. MEDLARS centers include Australia, the Pan American Health Organization, Canada, Colombia, France, West Germany, Italy, Japan, Mexico, Sweden, South Africa, Switzerland, and the United Kingdom.

In addition to MEDLINE, more than 20 other databases have been added to MEDLARS during these last 10 years. These databases include files providing MEDLINE coverage back through 1966 as well as specialized files in chemistry, toxicology, bioethics, cancer, history of medicine, population, biomedical audiovisuals, and health planning and administration. The NLM catalog, name authority file, Medical Subject Headings (MeSH) vocabulary file, and serials collection are also available to online users.

The original MEDLINE file contained citations to more than 130,000 articles in the medical literature. Today, MEDLINE and its older backfiles contain over 3.5 million citations from 1966 to the present. The other specialized files contain nearly another 3 million citations and records. Last year over 1.8 million searches were performed on the MEDLARS system.

During the past ten years, online systems have become an integral part of libraries, information centers, and laboratories. NLM is proud to have played a role in the early use and development of these systems.

NEW SERIALS AND TITLE CHANGES ANNOUNCEMENT - SEPTEMBER 1981 Serial Records, Technical Services Division, NLM

The following substantive serial titles were received or ordered by the Serial Records Section. IM to the left of the title indicates that the title appears in Index Medicus. ON ORDER, IN PROCESS, or an actual NLM call number appears at the bottom of the entry. Please include the NLM call number on interlibrary loan requests. Of course, NLM cannot fill loans for titles not yet received by the Library. The list is offered as an early announcement and will include price information if known. Information provided is not authorized NLM cataloging data. For further information, contact Ms. Janice Lennox, 301/496-1276, Technical Services Division, NLM.

BEITRAGE ZUR AUSGESTALTUNG EINER
ANTHROPOSOPHISCH ORIENTIERTEN PSYCHOTHERAPIE
BD.1,1979--
VERLAG FREIES GEISTESLEBEN
STUTT GART GERMANY, WEST
IN PROCESS
B02970000

BIOLOGY OF CARBOHYDRATES
1,1980--
WILEY
NEW YORK UNITED STATES
W1 BI852M
B17723000

CHUNG-HUA MA TSUI HSUEH TSA CHI = CHINESE
JOURNAL OF ANESTHESIOLOGY
1N1,1981--
ANESTHESIOLOGY ASSOCIATION OF CHINA
CHINA
IN PROCESS
C21074500

CORDE
1N1,OCT 1979--
INSTITUTO DE CARDIOLOGIA Y CIRUGIA
CARDIOVASCULAR
BUENOS AIRES ARGENTINA
AV. BELGRANO 1732, 2 PISO, CAP. FEDERAL
REPUBLICA, ARGENTINA
IN PROCESS
C49081000

CURRENT PSYCHOLOGICAL RESEARCH
1N1,JAN-APR 1981--
PRAEGER
EASTBOURNE, EAST ENGLAND
SUSSEX
1 ST ANNES RD., EASTBOURNS, EAST SUSSEX,
BN21 3UN, UK
ON ORDER
C57130000
\$24.50

CURRENT PSYCHOLOGICAL REVIEWS
1N1,JAN-APR 1981--
PRAEGER
EASTBOURNE, EAST ENGLAND
SUSSEX
1 ST ANNES RD., EASTBOURNE, EAST SUSSEX
BN21 3UN, UNITED KINGDOM
ON ORDER
C57135000
\$24.50

HUMAN LYMPHOCYTE DIFFERENTIATION
1N1,JAN-MAR 1981--
W.B. SAUNDERS
EASTBOURNE, EAST ENGLAND
SUSSEX
ON ORDER
H22310000
\$75.00

LYMPHOKINES
2,1981--
ACADEMIC PRESS
CONTINUES LYMPHOKINE REPORTS.
NEW YORK
IN PROCESS
L13815000

RSNA EDUCATIONAL MATERIALS QUARTERLY
2N1,SPRING 1981--
RADIOLOGICAL SOCIETY OF NORTH AMERICA.
EDUCATIONAL MATERIALS DIVISION
CONTINUES EDUCATIONAL MATERIALS QUARTERLY.
CHICAGO UNITED STATES
RADIOLOGICAL SOCIETY OF NORTH AMERICA,
INC., EDUCATIONAL MATERIALS DIVISION, P.O.
BOX 1897, CHICAGO, IL 60690
IN PROCESS
R55551000

IM SOCIAL SCIENCE AND MEDICINE. PART B,
MEDICAL ANTHROPOLOGY
13BN3,SEP 1979--
PERGAMON PRESS
CONTINUES SOCIAL SCIENCE AND MEDICINE
MEDICAL ANTHROPOLOGY.
OXFORD ENGLAND
IN PROCESS
S28701600
\$182.00

IM SOCIAL SCIENCE AND MEDICINE. PART C,
MEDICAL ECONOMICS
13CN4,DEC 1979--
PERGAMON PRESS
CONTINUES SOCIAL SCIENCE AND MEDICINE.
MEDICAL ECONOMICS.
OXFORD ENGLAND
IN PROCESS
S28702100
\$182.00

IM SOCIAL SCIENCE AND MEDICINE. PART D,
MEDICAL GEOGRAPHY
13DN3,NOV 1979--
PERGAMON PRESS
CONTINUES SOCIAL SCIENCE AND MEDICINE.
MEDICAL GEOGRAPHY.
OXFORD ENGLAND
IN PROCESS
S28702110

IM ZENTRALBLATT FUR BAKTERIOLOGIE
MIKROBIOLOGIE UND HYGIENE. 1.ABT.
ORIGINALE. A: MEDIZINISCHE MIKROBIOLOGIE.
INFEKTIONSKRANKHEITEN UND PARASITOLOGIE
247N1,JUN 1980--
GUSTAV FISCHER VERLAG
CONTINUES ZENTRALBLATT FUR BAKTERIOLOGIE.
1. ABT. ORIGINALE. A: MEDIZINISCHE
MIKROBIOLOGIE, INFEKTIONSKRANKHEITEN UND
PARASITOLOGIE.
STUTT GART GERMANY, WEST
IN PROCESS
Z06615500

IM ZENTRALBLATT FUR BAKTERIOLOGIE
MIKROBIOLOGIE UND HYGIENE. 1. ABT.
ORIGINALE. B: UMWELTHYGIENE.
KRANKENHAUSHYGIENE. ARBEITSHYGIENE.
PRAEVENTIVE MEDIZIN.
V171N1,1980--
GUSTAV FISCHER VERLAG
CONTINUES ZENTRALBLATT FUR BAKTERIOLOGIE.
1.ABT. ORIGINALE. B: HYGIENE,
KRANKENHAUSHYGIENE, BETRIEBSHYGIENE
PRAEVENTIVE MEDIZIN.
STUTT GART GERMANY, WEST
IN PROCESS
Z06616000

DATABASE UPDATE SCHEDULE FOR 1982

<u>UPDATE MONTH</u>	<u>UPDATED MEDLINE & SDILINE AVAILABLE</u>	<u>UPDATED HEALTH AVAILABLE**</u>	<u>UPDATED POPLINE AVAILABLE</u>	<u>UPDATED CANCERLIT AVAILABLE</u>	<u>UPDATED TOXLINE AVAILABLE</u>
JAN	DEC 14	DEC 21	JAN 11	JAN 18	JAN 25
FEB	JAN 4	JAN 11	FEB 15	FEB 22	MAR 1
MAR	FEB 8	FEB 15	MAR 15	MAR 22	MAR 29
APR	MAR 8	MAR 15	APR 12	APR 19	APR 26
MAY	APR 5	APR 12	MAY 10	MAY 17	MAY 25
JUN	MAY 3	MAY 10	JUN 14	JUN 21	JUN 28
JUL	JUN 7	JUN 14	JUL 12	JUL 19	JUL 26
AUG	JUL 6*	JUL 12	AUG 9	AUG 23	AUG 30
SEP	AUG 2	AUG 9	SEP 13	SEP 20	SEP 27
OCT	SEP 7*	SEP 13	OCT 11	OCT 18	OCT 25
NOV	OCT 4	OCT 11	NOV 15	NOV 22	NOV 22*
DEC	NOV 8	NOV 15	DEC 13	DEC 20	DEC 20*

*Modified due to holiday.

**Available at SUNY one week later.

THE NLM TECHNICAL BULLETIN

NOVEMBER 1981

NO. 151

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DATABASE	TOTAL RECORDS	DATES COVERED	DATE LAST UPDATED	LATEST UPDATE TAG
*AVLINE	10,355	THROUGH 1981	13 NOV 81	
*BIOETHICS	12,180	JAN 73-JUL 81	16 SEP 81	8109(EM)
*CANCERLIT	269,672	JAN 63-OCT 81	19 OCT 81	8110(EM)
*CANCERPROJ	21,117	1978-1981	12 NOV 81	8110(EM)
*CATLINE	334,257	THROUGH 1981	13 NOV 81	
*CHEMLINE	515,110		17 NOV 81	8111(EM)
*CLINPROT	2,860		17 NOV 81	8110(EM)
*EPILEPSY	36,472	1945-PRESENT	20 OCT 80	
HEALTH	189,622	JAN 75-DEC 81	17 NOV 81	8112(EM)
*HISTLINE	47,509		16 NOV 81	8110(EM)
MEDLINE	638,374	JAN 79-DEC 81	09 NOV 81	8112(EM)
MED77	510,972	JAN 77-DEC 78	15 DEC 80	
+MED75	642,953	JAN 75-DEC 76	15 DEC 80	
+MED72	669,106	JAN 72-DEC 74	15 DEC 80	
+MED69	668,257	JAN 69-DEC 71	15 DEC 80	
+MED66	501,801	JAN 66-DEC 68	15 DEC 80	
MESH VOC	41,758	1981	26 OCT 81	
*NAME AUTH	119,637		17 NOV 81	
*POPLINE	81,363	1970-NOV 81	17 NOV 81	8111(EM)
*RTECS	48,569	1979 ED.-JUL 81	31 AUG 81	
SDILINE	25,310	DEC 81	09 NOV 81	
*SERLINE	38,203	1981	16 NOV 81	
*TDB	3,222		17 AUG 81	
*TOXLINE	562,130		26 OCT 81	8110(EM)
CBAC	283,441	1977-VOL 34(6,7)		
TOXBIB	92,223	1977-NOV 81		
IPA	24,297	1977-VOL 18(15,16)		
HEEP	51,970	1977-VOL 10(11)		
PESTAB	13,213	1977-VOL 14(10)		
EMIC	32,985	1960-OCT 81		
ETIC	22,899	1950-OCT 81		
RPROJ	32,960	1978-NOV-DEC 81		
TD3	8,142	OCT 79-OCT 81		
*TOXBACK74	275,506		10 SEP 80	
CBAC	147,332	1974-1976		
TOXBIB	65,433	1974-1976		
IPA	17,582	1974-1976		
HEEP	37,198	1974-1976		
PESTAB	7,961	1974-1976		
+TOXBACK65	387,377		10 SEP 80	
CBAC	196,015	1965-1973		
TOXBIB	112,170	1968-1973		
IPA	21,973	1970-1973		
HEEP	29,662	1971-1973		
HAPAB	12,966	1966-1973		
HAYES	10,039	1940-1966		
TMIC	4,552	1971-1975		

1) * = NLM ONLY

2) + = AVAILABLE ONLY THRU OFFSEARCH

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 Bethesda, Maryland 20209

TECHNICAL NOTES

Whenever applicable, the headings of each Technical Note will include a reference to the section of the Online Services Reference Manual that is considered most relevant to the item being discussed (e.g., Manual 2.9). Users should keep in mind that the item may pertain to other sections of the Manual.

SEARCHING TW - Reminder: When the TF (Title Word field) was first added
AND TF IN - to CANCERLIT in July 1980, the TW field was mistakenly
CANCERLIT - changed to include terms from the abstract only and not
from the title. When an unqualified search term was entered
at that time, a multi-meaning message was received which
requested users to select TF or TW or both. This informa-
tion was reported in the online news that month.

The multi-meaning message was removed in January 1981 in anticipation of the file regeneration scheduled for February at which time the TW problem was to be corrected. Because the file has not yet been regenerated, this problem still exists. Users are therefore reminded to continue to type in the word ALL in front of each search term in CANCERLIT until this problem is corrected. The alternative would be to type in each term twice, postqualifying with TW and TF.

CLINPROT INDEX - A cumulated listing of the CLINPROT hierarchical index terms,
TERMS (Manual - October 1981, is now available. Copies can be requested
Part 18) - from either the MEDLARS Management Section or the Inter-
national Cancer Research Data Bank, Westwood Building,
10A-18, Bethesda, MD 20205.

INDEXING - Indexing Technical Notes numbers 241, 242 and 243 are
TECHNICAL - enclosed with this issue. These Indexing Technical Notes
NOTES - are written by Senior Technical Adviser, Index Section,
NLM. They are intended to be used by both indexers and
searchers as the authority on indexing practices. The
purpose of the Indexing Technical Notes is to discuss
practices applied to groups of concepts which fall
between the general principles in the Indexing Manual and
the specificity of MeSH annotations. The source of subjects
discussed in the Indexing Technical Notes is queries and
problems posed by indexers and searchers. The notes have
been prepared with the participation of revisers and
specialists in the Index Section and with the suggestions
of scientists outside the Library. These notes are distrib-
uted with the Technical Bulletin as they become available.

POPLINE - The POPLINE brochure is enclosed with this issue. See the
BROCHURE - POPLINE article on page 10 for search information on this
database.

PRE-EXPLOSIONS - A complete list of pre-explosions is enclosed with this
1982 issue. New pre-explosions for 1982 are preceded by (82).

HEALTH UPDATE - The Health Planning and Administration database update
CHANGE for January 1982 should be completed on December 14, 1981,
instead of December 21 as announced in the "Database Update
Schedule for 1982" issued with the October 1981 Technical
Bulletin.

----- PLEASE TYPE NEWS TO SEE MOST RECENT NEWS ITEMS ONLINE -----

CATLINE AND AVLINE UPDATE

Carolyn N. Davis, Cataloging Section, Technical Services Division

During a two-week period this past month, the CATLINE and AVLINE files were modified to include additions and changes to the data elements to accommodate changes in the cataloging record format resulting from the Anglo-American Cataloguing Rules, 2nd ed., (AACR2) and to provide maintenance for whole classes of names that have been affected by AACR2 rules for construction of name headings.

At the same time, some new searching features were introduced to increase accessibility of cataloging data. These format changes and searching features are described below.

Personal Names

As a result of AACR2 rules for establishing personal names, the name headings appearing in the Personal Name (PN) and Personal Name as Subject (PS) fields of CATLINE and AVLINE have been reformatted to include a Name Qualifier sub-element for the parenthetical forenames added to qualify a personal name that contains initials for all or some of the forenames. The Name Qualifier sub-element, if present, occurs after the name and honorific but before the name date.

Example: PN Hedinger, Chr. E//(Christoph Ernst)/1917-

Some AACR2 forms for personal names added to the files prior to October will contain the parenthetical qualifier as part of the first name sub-element, instead of the new Name Qualifier subelement.

Example: PN Zeitler, E. (Eberhard)///1930-

In either case, personal name headings in the PN and PS fields should still be searched by truncating the name with the colon (:) after the surname, comma, and first initial.

Examples: Hedinger, C:
Zeitler, E:

Note also that in browsing the index to CATLINE or AVLINE through the neighbor command, NBR, these personal name headings with qualifier subelement appear with no commas for punctuation between the name, honorific, name qualifier, and name date subelements.

Example: Osler, William Sir 1849-1919 (PN)
 Zeitler, E. (Eberhard) 1930- (PN)
 Hedinger, Chr. E. (Christoph Ernst) 1917- (PN)

International Standard Book Number and International Standard Serial Number

In order to print the Standard Number and Terms of Availability Area in the correct format for AACR2, the International Standard Book Number (ISBN) and the International Standard Serial Number (ISSN) carried in the BN and IS fields, respectively, are now preceded by the data 'ISBN' and 'ISSN'. The BN field is now a repeating field in order to include multiple ISBN's for a given title:

Example: BN ISBN 0-343-43314-0 (set).
 BN ISBN 0-343-43362-0 (pbk.).

Search: 0-343-43314-0

General Material Designation

A new field has been added for the General Material Designation (GMD) that is to be used in descriptive cataloging to identify the medium for nonbook materials. Commonly referred to as the "GMD," this material designation is required for audiovisuals cataloged for AVLINE and CATLINE and microforms cataloged for CATLINE. Prior to the addition of a specific field for the GMD, it appeared as a descriptor in brackets following the title continuation in the TC field of AVLINE and CATLINE. The new provisions of AACR2 require that the GMD appear immediately after the title proper (TI) field and before any title continuation (TC) or statement of responsibility (AS). Users constructing catalog records from CATLINE and AVLINE data should be aware that the GMD field does not now appear in the records formatted in the PRT CC command. The TI, TC, AS, and GMD fields print in AVLINE as follows:

Example: TI Can your patient hear?
 (AVLINE) GMD [videorecording]
 AS / developed by Gail P. Fine,
 Alice A. O'Donell ;
 consultant, Ellen Feinstein

Construct your local record, including the GMD as below:

Can your patient hear? [videorecording] / developed by Gail P. Fine, Alice A. O'Donell ; consultant, Ellen Feinstein.

New Main Entry Type

Retrospective Records with Conference Name Main Entries (pre-1965 cataloging, encoding level 'R') will contain the value 'F' in the Main Entry Type (MT) field. In the near future, all conference names in CATLINE and AVLINE will be redefined from Corporate name (CN) to Conference Name (CNA) and, if the new CNA field is the main entry, the value of the MT field will be changed from 'C' to 'F'.

Headings Changed by Class Maintenance

Several Corporate Name headings in the CATLINE and AVLINE files that appeared more than 100 times in the bibliographic records were changed automatically to new AACR2 forms as a result of "class maintenance." These include changes to all headings previously entered under Gt. Brit. (now Great Britain) and U. S. (now United States). The following list shows the names changed by system programming, giving the old form and the new changed form. These names were changed in the Corporate Name (CN), Corporate Name as Subject (CS), and Corporate Name/Title Series (CE) fields wherever a corporate name heading began with the old form as shown below, which resulted in thousands of name changes. Note that if the original CN, CS, or CE field contained any deviation in spelling, punctuation, or spacing from the format shown, the system programs did not recognize it, and therefore, it would not have been changed in this "class maintenance." Any exceptions not changed automatically will be maintained individually to comply with the new AACR2 form.

<u>Old Name Heading</u>	<u>New Name Heading</u>
Gt. Brit. (all names beginning with Gt. Brit. and followed by 2 spaces)	Great Britain
National Academy of Sciences	National Academy of Sciences (U.S.)
National Cancer Institute	National Cancer Institute (U.S.)
National Center for Health Statistics	National Center for Health Statistics (U.S.)
National Institute of Mental Health	National Institute of Mental Health (U.S.)
National Institutes of Health	National Institutes of Health (U.S.)
National Library of Medicine	National Library of Medicine (U.S.)
National Research Council	National Research Council (U.S.)
Russia (U.S.S.R.)	Soviet Union
U.S. (all names beginning with U.S. and followed by 2 spaces)	United States (followed by 2 spaces)
University of California, Los Angeles	University of California (Los Angeles)

Complete lists of all name and series heading changes made to NLM records since adoption of AACR2 in January, 1981 appear in "Notes for Medical Catalogers" in the appendix of each 1981 quarterly Current Catalog.

Main Heading Changes

A similar "class maintenance" as described above was performed to change all occurrences of U. S. and Gt. Brit. to United States and Great Britain, respectively, as geographic subheadings in the Main Heading (MH) fields.

New Search Features

Text Word Searching: The text word searching capability previously applied to the Title (TI), Series (SE, CE and PE), and Corporate Name (CN and CS) fields, has been extended to include the Title Continuation (TC), Authorship Statement (AS), Personal Name (PN), and Personal Name as Subject (PS) fields.

Ranging: In AVLINE, the Date of Review (DR) and Last Revision Date (LR) have been made rangeable elements. The ranging of the date of review (DR) field permits the identification of a review period of interest and is particularly useful in light of the changes in the appraisal process for AVLINE titles (see Sept. 1981 issue of the NLM Technical Bulletin).

When ranging avoid using LESS THAN because misleading retrieval will result. This is caused by our modifying records in the CATLINE and AVLINE files. The best way to range is GREATER THAN or FROM _____ TO _____.

Examples: GREATER THAN 810916 (LR)
 FROM 810917 TO 811109 (LR)
 GREATER THAN 8109 (DR)
 FROM 8110 TO 8111 (DR)

THE LATINIZATION OF THE B2 CATEGORY;
 IMPLICATIONS FOR SEARCHING RATS AND MICE
 P.E. Pothier, MEDLARS Management Section, NLM

The shift to Latin biological nomenclature in the B2 Category of MeSH, which in 1981 turned unspecified frogs and toads into ANURA and unspecified monkeys into ANTHROPOIDEA, continues in the 1982 MeSH. However, the 1982 changes will have a greater impact on searching because although the English terms RATS and MICE (which are pre-printed check tags on the indexers' data form) have been left in English, their scope has been changed.

When the 1981 changes were implemented, the searcher could rely on the fact that all citations that were indexed to Frogs or Toads or Monkeys and not to a specific genus and species of the Ranidae, Bufonidae, or Anthropeida were revised so that the terms ANURA or ANTHROPOIDEA appear on the records. The searcher can thus retrieve all frogs and toads by exploding ANURA and all monkeys by exploding ANTHROPOIDEA.

But the 1982 changes are less obvious and must be noted particularly with regard to RATS and MICE. Although the English terms RATS and MICE remain, they now refer only to the laboratory rat, *Rattus norvegicus*, and the laboratory mouse, *Mus musculus*. The check tags will no longer be used for creatures commonly called "rats" and "mice" but which do not belong to these species. For example, if an article discusses the black rat, *Rattus rattus*, as a vector of plague, it will be indexed to MURIDAE, the family to which both rats and mice belong, but the tag RATS will not be added. Similarly, an article on diseases carried by white-footed mice will be indexed to the genus PEROMYSCUS and NOT to MICE, since the white-footed mouse is not a member of the species *Mus musculus*.

Furthermore, exploding RATS and MICE will retrieve only the same citations as will be retrieved by searching on the check tags, since under RATS are subsumed only the inbred and mutant strains of *Rattus norvegicus*, and under MICE are subsumed only inbred and mutant strains of *Mus musculus*. If the requester wants all rats, including the common black rat, the searcher must explode the family MURIDAE. If the requester wants unspecified mice or mice of species of *Mus* other than *Mus musculus*, the searcher again must search MURIDAE exploded, remembering that some genera of wild mice belong to other families such as the Cricetidae.

These changes in the scope of RATS and MICE should be kept in mind, as they will not be immediately apparent from the retrieval. The new indexing rules for RATS and MICE apply to citations indexed using the 1982 MeSH. Citations to articles on black rats and wild mice indexed before 1982 will contain the headings RATS and MICE. Thus, a search on rats as vectors of plague done by ANDing PLAGUE with RATS will retrieve pre-1982 citations. To include 1982 citations in the retrieval, the strategy must contain the family name MURIDAE and/or the text words "RAT," "RATS" and "RATTUS."

THE TOXICOLOGY DATA BANK: FALL 1981 UPDATE
 Carol B. Haberman, Specialized Information Services

The Toxicology Data Bank (TDB) has been available to the public since 1978. The number of completed records has increased approximately fivefold since that time. With the new Fall version (October 26, 1981) there are now over 2,600 completed and reviewed records in the file. We have long recognized the need to update records that were prepared at an earlier time. Since these early records were developed, record building procedures have been improved and new sources have become available. Therefore, this latest version of TDB contains 84 updated records and one revised record. The file has a new data element to alert the user to the fact that the information content of the record has been modified. The update/revision process is continuing and it is expected that future file versions will have increasing numbers of such records. The purpose of this article is to describe the new feature that permits the user to identify updated/revised records, and to describe several other changes in the TDB.

Beginning with this version, the Last Revision (LR) field is being used in TDB. It is formatted YYYYDD and indicates when data in the record were altered. The LR field is directly searchable and will print after the ST field when any of the pre-established print options for TDB are used. Data are changed by addition, deletion, or modification. An updated record is one where additional sources have been examined in order to make the information in the file more current. A revised record has had errors in information content corrected.

For example, a user request to PRT the Hexachlorophene record will result in the following:

NM - HEXACHLOROPHENE
 RN - 70-30-4
 MF - C13-H6-CL6-02
 ST - 801001COMPLETE WITH PEER REVIEW COMMENTS INCORPORATED
 LR - 801001

The Status (ST) field date applies to the statement following it. The date has been reformatted to YYMMDD. When the LR and ST fields show the same date, this means that the Peer Review Committee* has reviewed and approved the record.

We anticipate updating records using especially pertinent new sources approved by the Committee as these sources become available. In procedures approved by the Peer Review Committee, these source-updated records will be reviewed by the committee at some future time, but meanwhile the record will be in TDB. The user can identify such records because the ST date will be earlier than the LR date. This situation will also exist for a record if data are revised to correct errors of content.

The newest version of the TDB file contains 85 records that have LR field information. Of these, 84 are updates that have been reviewed by the Peer Review Committee; in these records, the ST date and the LR date are identical. The remaining record, TDBN 0918 (Cyclohexylamine, CAS Registry Number 108-91-8), is an example in which the LR and ST dates differ. The record had contained a Peer Review Committee statement that the Committee later wished modified. This was accomplished for the new version. Because the technical content of the record was altered, the date of the change was assigned to the LR field. As the record was not re-reviewed by the Committee, the ST date accompanying the statement 'COMPLETE WITH PEER REVIEW COMMENTS INCORPORATED' remains as it was, showing the time of the inclusion of changes and comments resulting from the Peer Review Committee's review of the record.

In addition to the modifications already described, the user will observe that the name of the Animal Toxicity Excerpt (ATEX) field has been changed to Animal/Non-Human Toxicity Excerpt. The new name is a more accurate description of the information that has always been carried in that field. Please note that the search and print mnemonics have remained unchanged.

Additional refinements to the TDB have occurred or are expected shortly. New procedures have eliminated concatenated terms in the Index Strings (IX). Print formats are being modified within system limitations so that output occurs in a more logical and useful manner.

A rewritten Users Manual now available from Specialized Information Services, NLM, should make searching the database more effective. (Identical information will appear in the forthcoming edition of the Online Services Reference Manual.) Many of our efforts toward improvement in the TDB result from users' suggestions. Yours are welcome, and can be offered by writing or by reaching us by telephone at 301/496-1131.

*The Toxicology Data Bank Peer Review Committee is an ad hoc study section of the Division of Research Grants, NIH. The Committee members are toxicologists who have served on the NIH Toxicology Study Section. Records in TDB have been reviewed by the Committee to ensure that the information accurately reflects what is known about the toxicity of the chemical.

MONTHLY HINT: SEARCHING WITH THE POPLINE THESAURUS
 Ann J. Preiss, Johns Hopkins University, MEDLARS Management Section, NLM

The POPLINE Thesaurus became available in October 1981; copies are available free of charge for a limited time. This thesaurus provides a single listing of the controlled vocabulary known as Keywords (KW) used for indexing the documents cited in POPLINE. Searching with these keywords will be faster and retrieval will be more precise.

The following example shows a search using MeSH and Text Words to search for cervical caps and compares that to searching with the specific keyword from the thesaurus:

file popline
 PROG:
 YOU ARE NOW CONNECTED TO THE POPLINE FILE.

SS 1 /C?
 USER:
 #contraceptive devices, female
 PROG:
 SS (1) PSTG (770)

This is the MeSH heading that is used for cervical caps. MeSH is too broad for this subject.

SS 2 /C?
 USER:
 (tw)cervical and all cap#
 PROG:
 SS (2) PSTG (125)

Text Words are used to narrow the retrieval to cervical cap or caps.

SS 3 /C?
 USER:
 1 and 2
 PROG:
 SS (3) PSTG (84)

SS 4 /C?
 USER:
 prt 2 compr
 PROG:

1
 SI - PIP/002037
 AU - Anonymous
 TI - Cervical cap stirs interest of practitioners and patients.
 SO - Contraceptive Technology Update. 1980 Dec;1(9):124-5.

2
 SI - PIP/000427
 AU - Fairbanks B ; Scharfman B
 TI - The cervical cap: past and current experience.
 SO - WOMEN AND HEALTH. 1980 Fall;5(3):61-77.

These titles look good, but . . .

SS 4 /C?
 USER:
 #cervical cap (kw)
 PROG:
 SS (4) PSTG (119)

using the specific keyword from the POPLINE THESAURUS gives more complete retrieval.

SS 5 /C?
 USER:
 4 and not 3
 PROG:
 SS (5) PSTG (52)

NOTE: 52 citations are not retrieved by the MeSH heading/Text Word combination above.

SS 6 /C?
 USER:
 prt 3 compr
 PROG:

1
 SI - PIP/776559
 AU - Rozenbaum H
 TI - [Clinical studies TA-RO-CAP.]
 SO - Paris, Laboratoires Human-Pharm, 1977. 48 p.

2
 SI - PIP/746737
 AU - Marchesi F ; Cittadini E ; Quartararo P ; Rubino SM
 TI - [Mechanical contraception and future fertility.]
 SO - In: Marchesi F, Cittadini E, eds. Fertilita e sterilita.
 Taormina, Italy, Minerva Medica, 1974. :309-63.

Specific types of cervical caps
 are discussed in these articles.
 These were not retrieved with
 the Text Word search.

3
 SI - PIP/640407
 AU - Kleinman RL
 TI - Tests and standards for chemical spermicides and rubber
 appliances.
 SO - In: Kleinman RL ed. Medical handbook. Pt. 1. Contraception.
 2nd ed. London, International Planned Parenthood Federation,
 1964. :69-77.

The following two pages are exact copies of the "Guide to the Format" from the POPLINE Thesaurus. The information given for each entry in the thesaurus not only helps the individuals who do the indexing for POPLINE, but also aids the searcher. Scope notes are given for many keywords, as well as related terms, MeSH headings, references from nonused terms to used terms, and hints for using deleted descriptors and added terms.

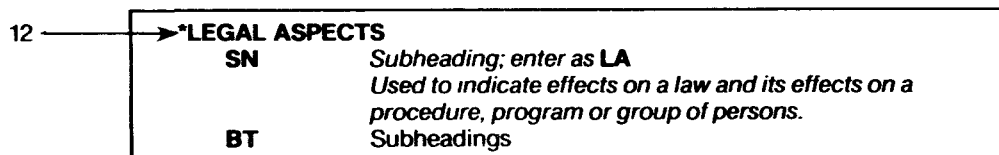
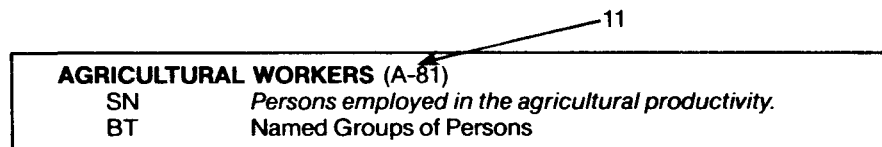
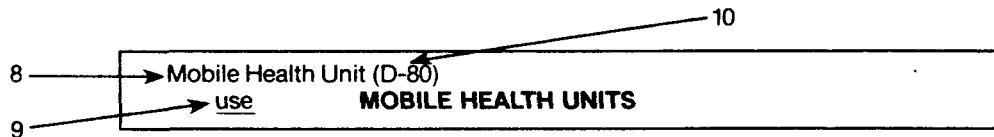
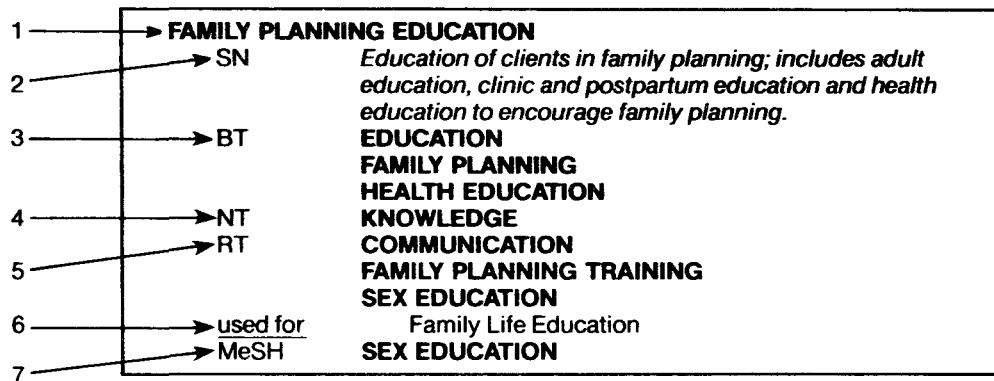
How do you get your free copy? Write to either the Population Information Program or the Center for Population and Family Health Library/Information Program. The addresses are listed in the enclosed POPLINE brochure.

NOTE: The POPLINE brochure was printed prior to the October 1981 changes in hours and charges. The hourly charges are the same as for MEDLINE (\$22/prime; \$15/nonprime). POPLINE is available only on the NLM computer.

From the POPLINE THESAURUS

GUIDE TO THE FORMAT

Elements of a descriptor record may include:



From the POPLINE THESAURUS

GUIDE TO THE FORMAT

- (1) **TERM IN BOLD FACE TYPE:** May be used for indexing and searching. **SEARCHERS:** Any used (boldface) term that contains the word "AND" must be disguised by using the variable character symbol #, as in A#D.
- (2) **SN (SCOPE NOTE):** Provided when a definition of a used descriptor is necessary or desirable or an explanation is needed to indicate how the term is used in POPLINE.
- (3) **BT (BROADER TERM):** Indicates a more general concept.
- (4) **NT (NARROWER TERM):** Indicates a more specific term.
- (5) **RT (RELATED TERM):** Leads the user to other descriptors that are similar in concept.
- (6) **used for:** The reciprocal of **use**.
- (7) **MeSH:** POPLINE descriptors are computer mapped to equivalent terms from the National Library of Medicine's publication, *Medical Subject Headings* (MeSH). Due to the specificity of POPLINE descriptors, some MeSH terms will have more than one POPLINE descriptor mapped to them. Searchers may use the MeSH descriptors as search terms, but subheadings (see 12) cannot be applied to these headings.
- (8) **TERM IN UPPER AND LOWER CASE:** Nonused term; may not be used for indexing or searching.
- (9) **use:** Directs the indexer or searcher from a nonused term to the used descriptor.
- (10) **D-80 or D-81:** Denotes descriptor that is no longer used for indexing. The digits indicate the year the term was dropped from use. **SEARCHERS:** For comprehensive retrieval, use this deleted descriptor and the **use** term.
- (11) **A-80 or A-81:** Digits indicate the year that the descriptor was added for indexing and searching.
- (12) ***** : Indicates terms that are subheadings and are used in conjunction with a POPLINE descriptor. The **SN** gives the abbreviated form to be used in searching and indexing. Subheadings must be preceded by "— —"; for example, **FAMILY PLANNING EDUCATION— —LA**. Refer to the section on Subheadings in this thesaurus for a complete list of subheadings and their abbreviations.

NEW SERIALS AND TITLE CHANGES ANNOUNCEMENT - OCT 1981
 Serial Records, Technical Services Division, NLM

The following substantive serial titles were received or ordered by the Serial Records Section. IM to the left of the title indicates that the title appears in Index Medicus. ON ORDER, IN PROCESS, or an actual NLM call number appears at the bottom of the entry. Please include the NLM call number on interlibrary loan requests. Of course, NLM cannot fill loans for titles not yet received by the Library. The list is offered as an early announcement and will include price information if known. Information provided is not authorized NLM cataloging data. For further information, contact Ms. Janice Lennox, 301/496-1276, Technical Services Division, NLM.

- | | |
|---|--|
| <p>ALTERNATIVES TO LABORATORY ANIMALS
 9N1, JUN 1981--
 FUND FOR THE REPLACEMENT OF ANIMALS IN
 MEDICAL EXPERIMENTS
 CONTINUES: ATLA ABSTRACTS.
 LONDON , ENGLAND
 ZQY 50 A16Y
 A22321000
 \$40.00</p> | <p>IM EUROPEAN JOURNAL OF CANCER AND CLINICAL
 ONCOLOGY
 1N1, JUL 1981--
 PERGAMON PRESS
 CONTINUES: EUROPEAN JOURNAL OF CANCER.
 NEW YORK UNITED STATES
 PERGAMON PRESS INC., MAXWELL HOUSE,
 FAIRVIEW PARK, ELMSFORD NY 10523
 IN PROCESS
 E15970000</p> |
| <p>ARCHIVES FOR METEOROLOGY, GEOPHYSICS, AND
 BIOCLIMATOLOGY. SERIES B: CLIMATOLOGY,
 ENVIRONMENTAL METEOROLOGY RADIATION RESEARCH
 29N1/2, 1981--
 SPRINGER VERLAG
 CONTINUES ARCHIV FUR METEOROLOGIE,
 GEOPHYSIK, UND BIOKLIMATOLOGIE. SERIE B:
 KLIMATOLOGIE, UMWELTMETEOROLOGIE,
 STRAHLUNGSFORSCHUNG.
 WIEN AUSTRIA
 IN PROCESS
 A61634000</p> | <p>FORUM SERIES / THE ROYAL SOCIETY OF MEDICINE
 N1, 1980--
 ROYAL SOCIETY OF MEDICINE
 LONDON ENGLAND
 THE ROYAL SOCIETY OF MEDICINE, 1 WIMPOLE
 STREET, LONDON ENGLAND
 IN PROCESS
 F12815000</p> |
| <p>BULLETINS ON SCIENCE AND TECHNOLOGY FOR THE
 HANDICAPPED
 1, 1980--
 AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF
 SCIENCE
 WASHINGTON UNITED STATES
 AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF
 SCIENCE, OFFICE OF OPPORTUNITIES IN
 SCIENCE, 1515 MASSACHUSETTS AVE., N.W.,
 WASHINGTON, D.C. 20005
 W1 BU936X
 B58330000</p> | <p>HEALTH POLICY AND EDUCATION
 1, 1979--
 ELSEVIER
 AMSTERDAM NETHERLANDS
 W1 HE474
 H07340000
 \$70.00</p> |
| <p>DEVELOPMENTAL REVIEW
 1, 1981--
 ACADEMIC PRESS
 NEW YORK UNITED STATES
 ON ORDER
 D08150000</p> | <p>IMAGING FOR MEDICINE
 1, 1980--
 PLENUM
 NEW YORK UNITED STATES
 ON ORDER
 I05775000
 \$59.90</p> |
| <p>ELECTROPHORESIS
 1N1, AFR 1980--
 VERLAG CHEMIE
 WEINHEIM GERMANY, WEST
 ON ORDER
 E05370000</p> | <p>JOURNAL DE MEDECINE LEGALE DROIT MEDICAL
 24N1, JAN/FEB?--
 MASSON
 CONTINUES IN PART MEDECINE LEGALE
 TOXICOLOGIE.
 PARIS FRANCE
 MASSON, 120 BD SAINT-GERMAIN, 75280 PARIS,
 FRANCE
 IN PROCESS
 J28570000</p> |
| <p>IM ENDOCRINE REVIEWS
 1, WINTER 1980--
 WILLIAMS AND WILKINS
 BALTIMORE UNITED STATES
 W1 EN367R
 E06970000
 \$25.00</p> | <p>JOURNAL DE TOXICOLOGIE MEDICALE
 1N1, JAN/MAR 1981?--
 MASSON
 SUPERSEDES IN PART MEDECINE LEGALE
 TOXICOLOGIE
 PARIS FRANCE
 MASSON, 120 BD. SAINT GERMAIN, 75280 PARIS
 IN PROCESS
 J40510000</p> |

MASSON MONOGRAPHS IN PEDIATRIC
HEMATOLOGY/ONCOLOGY
1,1980--
MASSON PUBLISHING USA
NEW YORK
ON ORDER
M05095000
UNITED STATES

MODERN PROBLEMS IN KIDNEY DISEASE
1,1981--
MASSON PUBLISHING USA
NEW YORK
ON ORDER
M41910000
\$32.50
UNITED STATES

NEW DIRECTIONS FOR EXCEPTIONAL CHILDREN
N1,1980--
JOSSEY-BASS
SAN FRANCISCO
UNITED STATES
NEW DIRECTIONS SUBSCRIPTIONS, JOSSEY-BASS,
INC., 433 CALIFORNIA ST., SAN FRANCISCO
IN PROCESS
N14444000
\$30.00

241. SNAKES and SNAKE VENOMS

On the basis of research by Miss Sirja Hantsoo of MeSH, the annotation in the 1978 MeSH listed many snakes by family. Those listed were venomous snakes.

The indexer is not interested in SNAKES per se because venomous or not, the main heading SNAKES is adequate for our system. The genus or family of a snake is important to an indexer because of the breakdown of specific terms under SNAKE VENOMS by the snake family. The identity of the genus of snake leads to the correct specific venom heading.

In addition to those suggested by Miss Hantsoo in 1978, she is suggesting additional genera. The table below gives indexing instructions on all venomous snakes with regard to the snake-venom heading. The 1982 annotation will amplify the data under SNAKES to include new genera among those shown below.

<u>Genus</u>	<u>Common Name</u>	<u>Venom Headings</u>
Acanthophis	Australian death adder	ELAPID VENOMS
Agkistrodon	American copperhead; water moccasin	CROTALID VENOMS
Ancistrodon	same as above	CROTALID VENOMS
Astrotia		HYDROPHID VENOMS
Atractaspis	mole viper	VIPER VENOMS
Austrelaps	Australian copperhead	ELAPID VENOMS
Bitis	puff adder; Gaboon viper	VIPER VENOMS
Bothrops	fer-de-lance	CROTALID VENOMS
Bungarus	krait	ELAPID VENOMS
Causus	night adder	VIPER VENOMS
Cerastes	horned viper; sand viper	VIPER VENOMS
Crotalus	rattlesnake	CROTALID VENOMS
Dendroaspis	mamba	ELAPID VENOMS
Denisonia	Australian copperhead	ELAPID VENOMS
Dispholidus	boomslang	SNAKE VENOMS
Echis	saw-scaled viper; carpet viper	VIPER VENOMS

<u>Genus</u>	<u>Common Name</u>	<u>Venom Heading</u>
Enhydrina		HYDROPHID VENOMS
Hemachatus	ringhals, rinkals; spitting cobra	COBRA VENOMS
Hydrophis		HYDROPHID VENOMS
Lachesis	bushmaster	CROTALID VENOMS
Lapemis		HYDROPHID VENOMS
Laticauda		HYDROPHID VENOMS
Micrurus	coral snake	ELAPID VENOMS
Naja	cobra	COBRA VENOMS
Notechis	tiger snake	ELAPID VENOMS
Oxyuranus	taipan	ELAPID VENOMS
Parademansia	Australian fierce snake	ELAPID VENOMS
Pelamis		HYDROPHID VENOMS
Pseudechis	Australian black snake; king brown snake	ELAPID VENOMS
Sistrurus	pygmy rattlesnake	CROTALID VENOMS
Thelotornis	bird snake; twig snake; vine snake	SNAKE VENOMS
Trimeresurus	habu	CROTALID VENOMS
Vipera	European adder; European viper; Russell's viper	VIPER VENOMS

IMMUNITY headings

An immunologist has reviewed the IMMUNITY citations appearing in INDEX MEDICUS and has made the following recommendations which we have adopted. The general tone relates to the indexing of these terms as NIM in keeping with the indexing policy of the past and with the need to make the printed INDEX MEDICUS more serviceable.

IMMUNITY, according to the present MeSH annotation in effect since 1977, is IM for general articles only. The immune process in a specific disease is indexed under the disease with the subheading /immunology (IM) and IMMUNITY (NIM), as ARTHRITIS /immunology (IM) + IMMUNITY (NIM). This has been flagrantly disregarded from the evidence of the 1980 CUMULATED INDEX MEDICUS. Please apply this principle of making IM the general concept only. The only exception recommended by the immunologist is that the immune process in physiological states and other selected concepts - none of which can be indexed with the subheading /immunology - be made IM. That is, "the immune process in pregnancy" is correctly indexed as PREGNANCY (IM) + IMMUNITY (IM); similarly AGING and NUTRITION as other examples. The rule, however, of IMMUNITY (NIM) with a specific disease or a disease group should be adhered to rigidly.

IMMUNITY, ACTIVE as IM for general only and NIM with specific diseases is exactly like the policy for IMMUNITY above.

IMMUNITY, PASSIVE, immunity through the introduction of preformed antibody, includes maternal-fetal transfer of immunity or maternal-neonatal transfer through milk or colostrum. Most articles either use the expression "passive immunity" in the title or refer to maternal transfer. It has been recommended that we continue to make this term IM.

IMMUNIZATION, PASSIVE is a Category E term and therefore refers to an immunizing technic; IMMUNITY, PASSIVE is a Category G physiological concept. IMMUNIZATION, PASSIVE articles are generally heralded by the expressions "adoptive transfer", "adoptive transfer of cells", "passive transfer of cells", "passive transfer of antibodies." When IMMUNIZATION, PASSIVE is indexed, it too should be made IM.

IMMUNITY, CELLULAR and IMMUNITY, HUMORAL see ANTIBODY FORMATION will present no problem. You are reminded that they too should be NIM when the specific disease is IM. Read also the annotation under ANTIBODY FORMATION.

243. TRANSPLANTATION

Since the introduction of the TRANSPLANTATION headings we have always coordinated one of the specific types routinely with the organ or tissue transplanted. Because of the state of transplantation in medicine today, routine coordination is not necessary.

The transplantation method is usually predetermined by the nature of the disease to be treated and the identity of the organ to be transplanted. Because this is presumed to be basic medical knowledge, the type of transplantation as a coordinate is not needed every time for every article. That is, for skin grafts, autologous transplants are used; for kidney and heart transplants, homologous organs are used.

Effective in 1982 do not coordinate routinely the organ qualified by /transplantation with TRANSPLANTATION, AUTOLOGOUS, TRANSPLANTATION, HOMOLOGOUS or TRANSPLANTATION, ISOGENEIC. Index these terms only when they are the point of the article or are especially discussed or are compared with each other.

This means that in most articles on skin grafting, SKIN /transplantation (IM) is adequate without TRANSPLANTATION, AUTOLOGOUS; in most articles on HEART /transplantation, KIDNEY /transplantation, CORNEA /transplantation, etc., TRANSPLANTATION, HOMOLOGOUS is no longer added.

Because in transplantation immunology heterologous transplantation is still largely experimental, continue to use TRANSPLANTATION, HETEROLOGOUS as a coordinate and, in fact, make it usually IM.

Of all four specific transplantation headings in our system TRANSPLANTATION, AUTOLOGOUS will now be little used. TRANSPLANTATION, HETEROLOGOUS will continue as before. TRANSPLANTATION, ISOGENEIC, a more specific type of homograft, will follow the practice on TRANSPLANTATION, HOMOLOGOUS and will be indexed as a coordinate only when the strain of animal is at issue.

Do not confuse XENOGRAFT see TRANSPLANTATION, HETEROLOGOUS with XENOGRAFT BIOPROSTHESIS or XENOGRAFT DRESSINGS. Read all annotations and X references under BIOPROSTHESIS and BIOLOGICAL DRESSINGS.

AVAILABLE PRE-EXPLOSIONS

Pre-explosions added for 1982 are preceded by (82).

<u>Pre-explosion Name (PX)</u>	<u>Tree No.</u>
ANTIBIOTICS	D20.85
BACTERIA	B3
BACTERIAL INFECTIONS	C1.252
BEHAVIOR	F1.145
(82)BEHAVIOR AND BEHAVIOR MECHANISMS	F1
BRAIN	A8.186.211
CARBOHYDRATES	D9.203
CARDIOVASCULAR DISEASES	C14
CELLS	A11
CENTRAL NERVOUS SYSTEM	A8.186
CENTRAL NERVOUS SYSTEM DISEASES	C10.228
DENTISTRY	E6
(82)DIGESTIVE SYSTEM DISEASES	C6
ENZYMES	D8.586
(82)GENETICS	G5
HEALTH FACILITIES	N2.278
HEALTH SERVICES	N2.421
HEART DISEASES	C14.280
HORMONES	D6.472
(82)IMMUNOLOGIC FACTORS	D24.611
LIPIDS	D10.516
MAMMALS	B2.649
MENTAL DISORDERS	F3.709
METABOLIC DISEASES	C18.452
(82)MISCELLANEOUS TECHNIQS	E5
MOUTH AND TOOTH DISEASES	C7
NEOPLASMS	C4
NERVOUS SYSTEM	A8
NERVOUS SYSTEM DISEASES	C10
NEUROLOGIC MANIFESTATIONS	C10.597
(82)ORGANIZATION AND ADMINISTRATION	N4.452
PROTEINS	D12.776
RESPIRATORY TRACT DISEASES	C8
SIGNS AND SYMPTOMS	C23.888
STEROIDS	D4.808
SURGERY, OPERATIVE	E4
UNITED STATES MC [as MeSH heading]	Z1.107.567.875
UNITED STATES [as place of publication]	Z1.107.567.875
(82)VASCULAR DISEASES	C14.907
VERTEBRATE VIRUSES	B4.909
VERTEBRATES	B2
VIRUS DISEASES	C2
(82)VIRUSES	B4
WOUNDS AND INJURIES	C21.866

Remember to disguise the AND in names of pre-explosions just as you do for regular searching on MeSH headings with embedded ANDs.

THE NLM TECHNICAL BULLETIN

DECEMBER 1981

NO. 152

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NLM TECHNICAL BULLETIN - DEC 81

DATABASE	TOTAL RECORDS	DATES COVERED	DATE LAST UPDATED	LATEST UPDATE TAG
*AVLINE	10,423	THROUGH 1981	17 DEC 81	
*BIOETHICS	12,180	JAN 73-JUL 81	16 SEP 81	8109(EM)
*CANCERLIT	271,964	JAN 63-NOV 81	23 NOV 81	8111(EM)
*CANCERPROJ	21,117	1978-1981	12 NOV 81	8110(EM)
*CATLINE	353,893	THROUGH 1981	11 DEC 81	
*CHEMLINE	515,110		17 NOV 81	8111(EM)
*CLINPROT	2,860		17 NOV 81	8110(EM)
*EPILEPSY	36,472	1945-PRESENT	20 OCT 80	
HEALTH	192,077	JAN 75-JAN 82	14 DEC 81	8201(EM)
*HISTLINE	47,509		16 NOV 81	8110(EM)
MEDLINE	396,892	JAN 80-JAN 82	14 DEC 81	8201(EM)
MED79	264,528	JAN 79-DEC 79	14 DEC 81	
MED77	510,972	JAN 77-DEC 78	14 DEC 81	
+MED75	642,934	JAN 75-DEC 76	14 DEC 81	
+MED72	669,105	JAN 72-DEC 74	14 DEC 81	
+MED69	668,257	JAN 69-DEC 71	14 DEC 81	
+MED66	501,801	JAN 66-DEC 68	14 DEC 81	
MESH VOC	42,392	1982	14 DEC 81	
*NAME AUTH	120,768		11 DEC 81	
*POPLINE	82,280	1970-DEC 81	14 DEC 81	8112(EM)
*RTECS	50,179	1979 ED.-OCT 81	14 DEC 81	
SDILINE	23,047	JAN 82	14 DEC 81	
*SERLINE	38,203	1981	16 NOV 81	
*TDB	3,276		26 OCT 81	
*TOXLINE	572,996		23 NOV 81	8111(EM)
CBAC	289,021	1977-VOL 34(8,9)		
TOXBIB	94,376	1977-DEC 81		
IPA	24,297	1977-VOL 18(15,16)		
HEEP	52,998	1977-VOL 10(12)		
PESTAB	13,213	1977-VOL 14(10)		
EMIC	32,985	1960-OCT 81		
ETIC	22,899	1950-OCT 81		
RPROJ	34,490	1978-JAN 82		
TD3	8,717	GRA & I 21-23 1981		
*TOXBACK74	275,506		10 SEP 80	
CBAC	147,332	1974-1976		
TOXBIB	65,433	1974-1976		
IPA	17,582	1974-1976		
HEEP	37,198	1974-1976		
PESTAB	7,961	1974-1976		
+TOXBACK65	387,377		10 SEP 80	
CBAC	196,015	1965-1973		
TOXBIB	112,170	1968-1973		
IPA	21,973	1970-1973		
HEEP	29,662	1971-1973		
HAPAB	12,966	1966-1973		
HAYES	10,039	1940-1966		
TMIC	4,552	1971-1975		

1) * = NLM ONLY

2) + = AVAILABLE ONLY THRU OFFSEARCH

Editor: Carolyn B. Tilley
 Assistant Editor: Rose Marie Woodsmall
 Technical Notes Editor: Patti Patterson
 301/496-6193

Direct inquiries to:
 MEDLARS Management Section
 National Library of Medicine
 8600 Rockville Pike
 Bethesda, Maryland 20209

TECHNICAL NOTES

Whenever applicable, the headings of each Technical Note will include a reference to the section of the Online Services Reference Manual that is considered most relevant to the item being discussed (e.g., Manual 2.9). Users should keep in mind that the item may pertain to other sections of the Manual.

CHEMLINE AND TOXLINE PRICE INCREASE - Significant increases in royalty payments to Chemical Abstracts Service (CAS) and the American Society for Hospital Pharmacists (ASHP) for use of their data require NLM to increase CHEMLINE, TOXLINE, TOXBACK74, and TOXBACK65 charges effective January 1, 1982. The charges to domestic users will be:

TOXLINE/TOXBACK74/TOXBACK65*

PRIME: \$52/CONNECT HOUR (includes \$30.26 royalty)
 NON-PRIME: \$45/CONNECT HOUR (includes \$30.26 royalty)
 PAGE CHARGES: \$0.35/PAGE (includes \$0.20 royalty)
 Automatic SDI Charge: \$1.00 per execution against TOXLINE (CAS royalty)

*No Connect Hour Charge for TOXBACK65

CHEMLINE

PRIME: \$101/CONNECT HOUR (includes \$78.97 CAS royalty)
 NON-PRIME: \$94/CONNECT HOUR (includes \$78.97 CAS royalty)
 PAGE CHARGES: \$0.45/PAGE (includes \$0.30 CAS royalty)

Letters regarding these changes have been mailed out to Technical Bulletin addressees. If you did not receive the letter, please contact MMS at 301/496-6193. MEDLARS centers in other countries will be contacted by CAS and ASHP directly for renegotiations of their royalty fees.

NAME AUTHORITY - FILE CHANGES (Manual, Chapter 10) - The following changes have been made to the Name Authority File:

1. Conference Names -- the NAF now has the AACR 2 format for conference names, e.g.: International Conference on Eye Diseases (3rd : 1980 : London, England). The old form of the name appears in the A1 (Pre-AACR 2 heading), previously known as the A2 field. The A1 field is both directly and Text Word searchable.

2. Personal Names -- Personal Names are now being established with name qualifiers in the Name Qualifier (NQ) field. Eventually qualifiers that were put in the Name (NA) field will be moved to the NQ field.

SEARCHING FOR GEOGRAPHICS - The system has now been redefined to interpret a geographic (e.g., Brazil) only as a MeSH Heading (MH). Previously, the system automatically searched both the MH and CY (Country) fields for a geographic resulting in larger retrieval than was anticipated by the user. The latter data element, CY, refers to the country of publication of a journal and appears only in SDILINE, MED72, MED69, MED66, and POPLINE. You must now qualify a geographic with (CY) if you want country of publication information in these files, e.g.: BRAZIL (CY). Remember that you can also search for country of publication information in all MEDLINE files by using the tree number of the geographic qualified by (ZN), which stands for MeSH Z Tree Number, e.g.: Z1.107.757.176. (ZN) for Brazil alone (remember the closing period), or EXP Z1.107.757: (ZN) for all of South America.

SEARCHING MESH TERMS WITH 30+ CHARACTERS - It is now possible to enter all MeSH terms without restrictions because of the length of the full form. Previously, terms exceeding 30 characters had to be truncated. In addition, there were several MeSH entry terms (listed in the September and October 1978 Technical Bulletins) that could not be searched with an asterisk (*) or with subheadings. This list included print entry terms (searchable "see" references printed in MeSH), non-print entry terms (searchable terms not printed in MeSH as "see" references), and entry versions (also called data form abbreviations). These terms were previously not searchable because the MeSH main headings to which they map exceeded a specific length; therefore, the computer could not perform the "mapping." It is now possible to enter these entry terms with an asterisk (*) or subheading.

The following examples illustrate the different combinations described above:

TERM WITH OVER 30 CHARACTERS ----

```

SS 1 /C?
USER:
idiopathic hypertrophic subvalvular stenosis      -- full form
PROG:
SS (1) PSTG (420)

SS 2 /C?
USER:
idiopathic hypertrophic subvalv:                  -- truncated form
PROG:
SS (2) PSTG (420)

SS 3 /C?
USER:
subvalv stenosis                                  -- data form abbreviation
PROG:
SS (3) PSTG (420)
    
```

SS 4 /C?
 USER:
 *idiopathic hypertrophic subvalvular stenosis -- asterisked full form
 PROG:
 SS (4) PSTG (311)

SS 5 /C?
 USER:
 *subvalv stenosis -- asterisked data form
 PROG:
 SS (5) PSTG (311)

SS 6 /C?
 USER:
 subvalv stenosis/co -- data form with
 PROG: subheading
 SS (6) PSTG (75)

SS 7 /C?
 USER:
 *subvalv stenosis/co -- asterisked data form
 PROG: with subheading
 SS (7) PSTG (48)

ENTRY TERMS ----

SS 1 /C?
 USER:
 antithrombin v1 -- print version
 PROG:
 SS (1) PSTG (303)

SS 2 /C?
 USER:
 *antithrombin v1 -- asterisked
 PROG:
 SS (2) PSTG (138)

SS 3 /C?
 USER:
 antithrombin v1/pd -- with subheading
 PROG:
 SS (3) PSTG (24)

SS 4 /C?
 USER:
 *antithrombin v1/pd -- asterisked with
 PROG: subheading
 SS (4) PSTG (20)

MODEM SELECTION - REMINDER: Users who are upgrading their terminals to 1200 baud should consult the Phones List that is issued quarterly with the Technical Bulletin (see Appendix A). The Phones List indicates whether a Bell or Vadic communications line is available in node cities. This may influence the user's decision in purchasing a modem.

PHONES LIST - Appendix A is a list of available telephone numbers used to access the NLM and SUNY computers.

AUTOMATIC SDI SERVICE: NEW FEATURES FOR 1982

Joseph Leiter, Ph.D., Associate Director, Library Operations, NLM

Automatic SDI service has been available through the National Library of Medicine online system since mid-1976. At present, approximately 15,000 searches are processed automatically each month. In response to requests from search analysts, three enhancements to the NLM Automatic SDI Service are expected to become available in January 1982:

- 1) The Health Planning & Administration database will be available for Automatic SDI service;
- 2) All citations retrieved by Automatic SDI searches will be sorted, either by journal and publication date or by elements and directions specified by the searcher;
- 3) Greater flexibility for print formats will be offered.

Health Planning & Administration Automatic SDI Service

Searchers may now store searches that are to be performed against the HEALTH file each month after it is updated. These searches must be stored on the NLM computer and use the letter H as the first character of the name. To facilitate the storing of these searches while connected to the HEALTH file, searchers who can usually only access the HEALTH file at SUNY will be able to access this database at NLM between 12 noon and 1:00 pm ET daily (Monday-Friday) and every Saturday between 8:30 am and 5:00 pm ET during the month of January. After January, searchers ordinarily having access to the HEALTH file only at SUNY will be able to access HEALTH at NLM between 12 noon and 1:00 pm ET every Tuesday and every Saturday between 8:30 and 5 ET. Alternatively, any user may store searches for HEALTH file Automatic SDI service while connected to the SDILINE file, at any time. Any searcher who wishes to begin Automatic SDI service on the HEALTH file should complete and return an Automatic SDI Service Request Form, enclosed with this issue of the Technical Bulletin, to the MEDLARS Management Section, NLM. This form may be freely reproduced for your use. The first Automatic SDI processing for the HEALTH file is expected to occur with the February update on January 11. Any forms received or searches input after this date will be processed on February 15 for the March update.

SORT for Automatic SDI Citations

Each of the databases available through the NLM Automatic SDI service has a default SORT for Automatic SDI searches assigned to it; printouts from these databases will be sorted according to journal and then by date of publication as specified by the precoded SORT, 'JNL,' for that database. The 'JNL' SORT format for NLM databases is described in detail in the June 1981 Technical Bulletin, page 10. The data elements used for the 'JNL' SORT for each database are:

SDILINE - TA A, DP D, VI D, IP D, PG A A = Ascending

TOXLINE - SO A D = Descending

CANCERLIT - TA A, YR A, TI A

HEALTH - TA A, DP D, VI D, IP D, PG A

As shown on the enclosed Automatic SDI Service Request Form, the searcher may specify a different SORT for any number range in any database. However, it is suggested that searchers use a precoded format, such as AUTI, rather than a tailored one. Alternatively, the searcher may specify NO SORT for any number range for any database; in that case, the citations will be printed out as they were previously: the last citation entered will be the first citation printed.

Tailored PRINT Formats For All Number Ranges

Previously, stored searches named within a particular number range (for example, S011 VIRAL SEQUENCE is in the 001-200 range) could produce printouts only in the one print format available for that range. Now, however, the searcher may request any print format for any number range. A search named S011 VIRAL SEQUENCE (processed automatically on SDILINE) will have any citations retrieved printed out in the Standard format (AU, TI, SO) unless the searcher has submitted an Automatic SDI Service Request Form indicating that the S001-S200 number range should produce some other print format. If the searcher has requested that the S001-200 range print out AU, TI, SO, AB, LA, then these data elements will be printed instead for S011 VIRAL SEQUENCE.

Note

Remember to send in an Automatic SDI Service Request Form whenever you wish to change one of the following:

- database(s) on which you want to have Automatic SDI service;
- print specifications for a number range;
- SORT specifications for a number range;
- mailing address.

Please do not send in a form for each search stored; only one form is needed to begin service. HEALTH Automatic SDI processing of searches will begin with the February update on January 11. Searches will be processed against HEALTH during the week of January 11-15. The sorting of printouts and the ability to specify print elements on all ranges will be utilized beginning in January for all files for which Automatic SDI service is provided.

The Automatic SDI Service Request Form is enclosed with this issue.

PLEASE TYPE NEWS TO SEE MOST RECENT
NEWS ITEMS ONLINE

ORGANIZATION AND ADMINISTRATION:
VOCABULARY SEARCH GUIDE

Anne Kiger, American Hospital Association, Index Section, NLM

OVERVIEW: The following article provides guidance in selecting terms from Medical Subject Headings (MeSH) for searching the concept of organization and administration in the health care system. Terms are arranged alphabetically within topics. In addition, use of both the subheading and the new pre-explosion for organization and administration is discussed.

The literature of health care delivery has received increased coverage in MEDLARS due to the ongoing, cooperative project between the Library of the American Hospital Association and the National Library of Medicine. Journal literature on this topic is cited in the Health Planning and Administration database (HEALTH) and, more selectively, in the Hospital Literature Index (HLI); monographic literature concerning the health care system may be found in CATLINE and also in HLI. The vocabulary of health care in MeSH has been augmented considerably since 1977 in response to the increased coverage of this topic.

Organizational and administrative aspects of the health care system are a significant feature of this literature. Terms most directly related are found in MeSH in category N (Health Care), specifically in subcategory N4 (Health Services Administration). However, because MeSH is an interdisciplinary vocabulary encompassing biomedicine and related disciplines and fields, many organization-related terms are listed in N subcategories other than N4 and within other (non-N) categories in MeSH.

The purpose of this guide is to present an outline for searching administrative, management, and organization-related concepts in MeSH with special reference to health administration. Terms listed are taken from Medical Subject Headings - Tree Structures, 1982. Several small sections of Tree Structures are listed in their hierarchical form, but searchers should be aware that these terms may also be repeated in other hierarchies in MeSH. Some terms have narrower terms that should be considered by the searcher and in these cases the MeSH tree number will be given below the term.

The following vocabulary guide is general in nature; searchers should choose from the broad divisions presented in planning retrieval strategies for particular search requests. The outline is arranged in the order of relevance to health administration with the most highly related divisions of terms presented first. Within each section the listing of terms is alphabetical. Also, the distinctions that divide the non-N terms (from categories E-L) in outline sections 5 through 8 should not be considered mutually exclusive; these sections classify a large group of terms without duplication or repetition and terms from one of these sections may apply to other sections as well.

1. Health care - Health services administration (N4). Most of the administrative concepts specific to health care delivery may be found in this subcategory. Very broadly, it includes such aspects as hospital administration and management systems, personnel management, types of professional practice and their management, organizational relationships, management of patient care, records, and quality assurance.
2. Health care organizational activities (N1-3). These terms relate to institutional or organizational activities specifically concerning health care or the health delivery system that are found in subcategories N1, N2, and N3. However, a number of the terms are listed in other categories in addition to category N and these have a more general applicability than those found only in category N.

COMMITMENT OF MENTALLY ILL	INSTITUTIONALIZATION
CONFIDENTIALITY	DEINSTITUTIONALIZATION
(82) CONSUMER ADVOCACY	INSURANCE CLAIM REPORTING
CONSUMER PARTICIPATION	MARKETING OF HEALTH SERVICES
PATIENT PARTICIPATION	MEDICAL STAFF PRIVILEGES
COSTS AND COST ANALYSIS (N3.219.151)	PATIENT ADVOCACY
EMPLOYMENT	POLICY MAKING
FACILITY DESIGN AND CONSTRUCTION	PUBLIC POLICY
HOSPITAL DESIGN AND CONSTRUCTION	HEALTH POLICY
FINANCIAL MANAGEMENT (N3.219.463)	RESEARCH SUPPORT
HEALTH FACILITY MERGER	SOCIAL CHANGE
HEALTH FACILITY MOVING	SOCIAL CONTROL, FORMAL
HEALTH PLANNING (N3.349)	CREDENTIALING
HEALTH PLANNING SUPPORT	ACCREDITATION
HOSPITALIZATION (N2.421.589.473)	CERTIFICATION
INFORMED CONSENT	LICENSURE (N3.706.110.510)
	FACILITY REGULATION AND CONTROL
	TRAINING SUPPORT
	UNEMPLOYMENT

3. Organizations related to health care (N2-3). The following groups of terms found in subcategories N2 and N3 denote organizations, institutions, regulatory agencies, and professional societies whose activities may administratively influence the provision of health services by the various facilities and personnel listed in N2.

CONSUMER ORGANIZATIONS	LABORATORIES
GOVERNMENT AGENCIES (N3.540.427)	MEDICAL OFFICE BUILDINGS
HEALTH PLANNING ORGANIZATIONS (N3.540.452)	(82) ORGANIZATIONS, NONPROFIT
INSURANCE CARRIERS	POISON CONTROL CENTERS
INTERNATIONAL AGENCIES (N3.540.514)	SOCIETIES (N3.540.828)
JOINT COMMISSION ON ACCREDITATION OF HOSPITALS	SPECIALTY BOARDS
LABOR UNIONS	TISSUE BANKS (N2.278.920)
	VOLUNTARY HEALTH AGENCIES (N3.540.630.780)

4. Health facility personnel (N2, M1). Terms for administrative and institutional personnel specific to health facilities are listed in N2 and also in M1.

ADMINISTRATIVE PERSONNEL	MEDICAL RECORD ADMINISTRATORS
HEALTH FACILITY ADMINISTRATORS	
HOSPITAL ADMINISTRATORS	MEDICAL STAFF
MEDICAL DIRECTORS	MEDICAL STAFF, HOSPITAL
(82) NURSE ADMINISTRATORS	
DENTAL STAFF	NURSING STAFF
DENTAL STAFF, HOSPITAL	NURSING STAFF, HOSPITAL
HOSPITAL VOLUNTEERS	PERSONNEL, HOSPITAL
HOSPITAL AUXILIARIES	(N2.350.685)

5. Institutions, systems, theories (non-N). The following are related terms from categories E through L that concern institutions and organizational systems, theories, or conditions affecting in varying degrees the delivery of health care.

AUTOMATION	INDUSTRY
	DRUG INDUSTRY
COMMERCE	
DECISION THEORY	INFORMATION CENTERS (L1.346)
GROUP PROCESSES	INFORMATION SYSTEMS
GROUP STRUCTURE	AUTOMATIC DATA PROCESSING
	ONLINE SYSTEMS
	PUNCHED-CARD SYSTEMS

5. (Continued)

INFORMATION THEORY	MODELS, THEORETICAL
INTERNATIONAL COOPERATION	PROBABILITY THEORY
EUROPEAN ECONOMIC COMMUNITY	
INTERNATIONAL EDUCATIONAL EXCHANGE	PUBLIC OPINION
MEDICAL MISSIONS, OFFICIAL	
LIBRARY ASSOCIATIONS	SCHOOLS, HEALTH OCCUPATIONS (12.783.660)
MAN-MACHINE SYSTEMS	SOCIAL WELFARE CHARITIES
MASS MEDIA	SYSTEMS THEORY

6. Management environment (non-N). General management activities, directives, and qualities include these terms from categories E through L.

ADVERTISING	FEASIBILITY STUDIES
COMPUTERS	FORECASTING
MICROCOMPUTERS	
MINICOMPUTERS	GOALS
CONSERVATION OF ENERGY RESOURCES	JUDGMENT
CREATIVENESS	LEADERSHIP
DATA COLLECTION (L1.280)	LIBRARY ADMINISTRATION
DECISION MAKING	PILOT PROJECTS
CHOICE BEHAVIOR	POLITICS
CAREER CHOICE	(82) LOBBYING
(82) DIAGNOSTIC TESTS, ROUTINE	PROBLEM SOLVING
DIFFUSION OF INNOVATION	PROFESSIONAL COMPETENCE
DISASTER PLANNING	QUALITY CONTROL
DOCUMENTATION	SOCIAL CONTROL, INFORMAL
ABSTRACTING AND INDEXING	SOCIAL PLANNING (11.880.709)
FILES AND FILING	
ETHICS, INSTITUTIONAL	SOCIAL RESPONSIBILITY
ETHICS, PROFESSIONAL	SYSTEMS ANALYSIS OPERATIONS RESEARCH
EVALUATION STUDIES	

7. Personnel management (non-N). Categories E through L also list terms having a close relationship to personnel management.

ACCIDENT PREVENTION	HUMAN ENGINEERING
AWARDS AND PRIZES	TASK PERFORMANCE AND ANALYSIS
COMMUNICATION	TIME AND MOTION STUDIES
COMMUNICATION BARRIERS	WORK SIMPLIFICATION
PERSUASIVE COMMUNICATION	INSERVICE TRAINING
DISABILITY EVALUATION	INTERVIEWS
WORK CAPACITY EVALUATION	PSYCHOLOGY, INDUSTRIAL
FEEDBACK	VOCATIONAL GUIDANCE
	REWARD

8. Staff environment (non-N). Related concepts from categories E through L that reflect staff attitudes, work relationships and conditions, patient relations, and staff activities having an administrative impact may include the following terms.

ABSENTEEISM	HIERARCHY, SOCIAL
APTITUDE	INTERPERSONAL RELATIONS (F1.829.401)
ASSERTIVENESS	MALINGERING
ATTITUDE	MORALE
ATTITUDE OF HEALTH PERSONNEL	MOTIVATION
ATTITUDE TO DEATH	ACHIEVEMENT
ATTITUDE TO HEALTH	CONFLICT (PSYCHOLOGY)
PERSONAL SATISFACTION	RETIREMENT
JOB SATISFACTION	ROLE
COMPETITIVE BEHAVIOR	PHYSICIAN'S ROLE
COOPERATIVE BEHAVIOR	SAFETY
CRIME	SOCIAL BEHAVIOR
FRAUD	ALTRUISM
THEFT	HELPING BEHAVIOR
EFFICIENCY	STEREOTYPING
(82) EQUIPMENT DESIGN	STRESS, PSYCHOLOGICAL
(82) EQUIPMENT FAILURE	TRUTH DISCLOSURE
(82) EQUIPMENT SAFETY	UNDERACHIEVEMENT

9. Subheading /organization and administration. Organizational aspects may be searched through the use of this subheading with the following categories and subcategories.

- I2 - education
- L - information sciences, communication methods & services
- N2 - health care facilities, manpower and services
- N3 - health care economics, organizations and social controls
- N4 - health care services administration

10. ORGANIZATION A#D ADMINISTRATION (PX). This new pre-explosion is available to online users of HEALTH and MEDLINE in 1982. The use of this pre-explosion retrieves all citations whose records contain any terms found in the Tree Structures under N4.452.

In addition to this vocabulary guide, the searcher should be aware of several other conditions in designing retrieval strategies for online or manual searching in the field of health care delivery. First, there is often a considerable overlap between economic, personnel, and organizational aspects and terms. The organizational aspect is considered to be the most general of these concepts in that it can include the other two. Second, minor descriptors are of considerable importance in searching this literature due to their specificity. Remember that minor descriptors are searchable both in HEALTH and in HLI. Third, subject headings appearing in HLI have been preselected for the continued value of citations retrieved to the user of the printed index. While certain terms in this guide are valuable for online coordination, they are not as helpful in a printed bibliography and will not be contained in the preselected list of HLI subject headings.

Finally, searchers should look for a number of new main headings, cross references, and entry terms in 1982 MeSH relating to organizational aspects of the health care system. Several of these new main headings are previously listed in this guide. Additional new 1982 main headings that are covered by the general term/tree number combinations in the guide are specifically listed below.

ADVERSION	NUCLEAR MEDICINE DEPARTMENT, HOSPITAL
CASE MIX	ORGANIZATIONAL INNOVATION
EDUCATION DEPARTMENT, HOSPITAL	ORGANIZATIONAL OBJECTIVES
ECONOMIC COMPETITION	SPERM BANKS
EMPLOYEE DISCIPLINE	UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
FINANCIAL MANAGEMENT, HOSPITAL	UNITED STATES FEDERAL TRADE COMMISSION
MANAGEMENT AUDIT	UNITED STATES HEALTH CARE FINANCING ADMINISTRATION
NATIONAL CENTER FOR HEALTH CARE TECHNOLOGY	UNITED STATES OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
NATIONAL CENTER FOR HEALTH STATISTICS (U.S.)	

PROG:
PRINTSPECS?

USER:

ar

PROG:

PRINT ELEMENTS, IF ANY, WILL BE EVALUATED AGAINST THE BACK79 FILE.
OK? (Y/N/C/ADDRESS)

USER:

Y

PROG:

ENTER SEARCH-

STS SS 1 /C?

USER:

cholelithiasis or diabetes mellitus or colonic neoplasms

PROG:

SS (1) PSTG (4834)

STS SS 2 /C?

USER:

dietary fiber

PROG:

SS (2) PSTG (355)

STS SS 3 /C?

USER:

1 and 2

PROG:

SS (3) PSTG (92)

STS SS 4 /C?

USER:

finished

PROG:

SSNOS/OVRIDES?

USER:

3

PROG:

SEARCH TITLE, OR NONE-

USER:

fiber backfiles

PROG:

REQUESTER'S NAME, OR SAME-

USER:

same

PROG:

OFFSEARCH COMPLETED.

OFFSEARCH
OF
BACKFILES
COMPLETED

SS 4 /C?
USER:
print offline ar
PROG:
REQUESTER'S NAME, OR SAME-

USER:
same
PROG:
SEARCH TITLE, OR NONE-

USER:
fiber medline
PROG:
OK? (Y/N/C/ADDRESS)

USER:
Y
PROG:
OFF-LINE-PRINT COMPLETED.

OFFLINE
PRINT
OF
MEDLINE

OPTION 3

SS 1 /C?
USER:
savesearch
PROG:
ENTER SEARCH-

STS SS 1 /C?
USER:
cholelithiasis or diabetes mellitus or colonic neoplasms
PROG:
SS (1) PSTG (4834)

STS SS 2 /C?
USER:
dietary fiber
PROG:
SS (2) PSTG (355)

STS SS 3 /C?
USER:
1 and 2
PROG:
SS (3) PSTG (92)

SAVESEARCH
IN
MEDLINE

STS SS 4 /C?

USER:
finished
PROG:
SEARCHNAME?

USER:
fiber
PROG:
SEARCH SET FROM SS 1 SAVED AS 'FIBER'.
SAVESEARCH COMPLETED.

SAVESEARCH
COMPLETED

SS 4 /C?

USER:
print ar offline
PROG:
REQUESTER'S NAME, OR SAME-

USER:
same
PROG:
SEARCH TITLE, OR NONE-

OFFLINE
PRINT
OF
MEDLINE

USER:
fiber medline
PROG:
OK? (Y/N/C/ADDRESS)

USER:
Y
PROG:
OFF-LINE-PRINT COMPLETED.

SS 4 /C?

USER:
offsearch
PROG:
TASKNAME = S4074514
ON-LINE OUTPUT:--NPS/PSTG/NONE?

OFFSEARCH
OF
BACKFILES
USING
SAVESEARCH

USER:
nps
PROG:
FILES?

USER:
med79, med77, med75, med72, med69, med66
PROG:
PRINTSPECS?

USER:
ar

PROG:
PRINT ELEMENTS, IF ANY, WILL BE EVALUATED AGAINST THE BACK79 FILE.
OK? (Y/N/C/ADDRESS)

USER:

Y

PROG:

ENTER SEARCH-

STS SS 1 /C?

USER:

fiber (sn)

PROG:

STS SS 2 /C?

USER:

finished

PROG:

SSNOS/OVRIDES?

USER:

1

PROG:

SEARCH TITLE, OR NONE-

USER:

fiber backfiles

PROG:

REQUESTER'S NAME, OR SAME-

USER:

same

PROG:

OFFSEARCH COMPLETED.

OFFSEARCH
COMPLETED

NEW SERIALS AND TITLE CHANGES ANNOUNCEMENT - NOVEMBER 1981
 Serial Records, Technical Services Division, NLM

The following substantive serial titles were received or ordered by the Serial Records Section. IM to the left of the title indicates that the title appears in Index Medicus. ON ORDER, IN PROCESS, or an actual NLM call number appears at the bottom of the entry. Please include the NLM call number on interlibrary loan requests. Of course, NLM cannot fill loans for titles not yet received by the Library. The list is offered as an early announcement and will include price information if known. Information provided is not authorized NLM cataloging data. For further information, contact Ms. Janice Lennox, 301/496-1276, Technical Services Division, NLM.

	ADVANCES IN ANALYSIS OF BEHAVIOUR 1, 1979-- WILEY NEW YORK ON ORDER A12985000 \$36.00	UNITED STATES	CURRENT ENDOCRINOLOGY: BASIC AND CLINICAL ASPECTS 1, 1981-- ELSEVIER/NORTH HOLLAND AMSTERDAM NETHERLANDS ON ORDER C55650000 \$32.00
	ADVANCES IN MENTAL HANDICAP RESEARCH 1, 1979-- WILEY CHICHESTER ON ORDER A14420000	ENGLAND	CURRENT TOPICS IN THE MANAGEMENT OF RESPIRATORY DISEASES 1, 1981-- CHURCHILL LIVINGSTON NEW YORK ON ORDER C57850000
IM	BRAZILIAN JOURNAL OF MEDICAL AND BIOLOGICAL RESEARCH = REVISTA BRASILEIRA DE PESQUISAS MEDICAS E BIOLOGICAS 14N1, APR 1981-- ASSOCIACAO BRASILEIRA DE DIVULGACAO CIENTIFICA CONTINUES: REVISTA BRASILEIRA DE PESQUISAS MEDICAS E BIOLOGICAS. RIBEIRAO PRETO WI BR189N B33355000	BRAZIL	DEVELOPMENTS IN PERINATAL MEDICINE 1, 1981-- NIJHOFF HAGUE NETHERLANDS KLUWER BOSTON INC., 190 OLD DERBY ST., HINGHAM MA 02043 IN PROCESS D08385940
	CHRONIC DISEASES IN CANADA 1, 1980-- HEALTH AND WELFARE CANADA OTTAWA ON ORDER C20470000 \$5.55	CANADA	FLESchNER SERIES IN CRITICAL CARE NURSING 1, 1980?-- FLESchNER PUBLISHING COMPANY BETHANY CT UNITED STATES FLESchNER PUBLISHING CO., 41 VILLAGE LANE, BETHANY, CT 06525 IN PROCESS F06615000
	CHUNG-HUA HU LI TSA CHIH = CHINESE JOURNAL OF NURSING 1, FEB 1981-- CHINESE NURSING ASSOCIATION BEIJING IN PROCESS C20994300	CHINA	FOODS NUTRITION AND DENTAL HEALTH 1, 1980-- PATHOTOX PUBLISHERS PARK FOREST SOUTH UNITED STATES IL PATHOTOX PUBLISHERS, 2405 BOND ST, PARK FOREST SOUTH IL 60466 ON ORDER F10245000 \$47.00
	CLINICS IN EMERGENCY MEDICINE 1, 1981-- CHURCHILL LIVINGSTONE NEW YORK ON ORDER C27395000	UNITED STATES	HISTORIA SCIENTIARUM N19, SEP 1980-- HISTORY OF SCIENCE SOCIETY OF JAPAN CONTINUES JAPANESE STUDIES IN THE HISTORY OF SCIENCE. TOKYO JAPAN IN PROCESS H14110000
	CONCEPTS IN PEDIATRIC NEUROSURGERY 1, 1981-- KARGER PUBLISHED FOR AMERICAN SOCIETY OF PEDIATRIC NEUROSURGERY BASEL ON ORDER C36845000	SWITZERLAND	

INVASION AND METASTASIS

1N1,SEP 1981--

KARGER

BASEL

SWITZERLAND

IN PROCESS

I37455000

\$96.00

MODERN TECHNIQS IN SURGERY. PLASTIC SURGERY

1,1981--

FUTURA PUBLISHING

MOUNT KISCO NY

UNITED STATES

FUTURA PUBLISHING CO., INC, 295 MAIN

STREET, P.O. BOX 330, MOUNT KISCO, NEW YORK

10549

IN PROCESS

M42055000

MOLECULAR AND CELLULAR BIOPHYSICS

1, 1980--

GORDON AND BREACH

LONDON

ENGLAND

ON ORDER

M43295000

IM MONATSSCHRIFT KINDERHEILKUNDE

128N8,AUG 1980--

SPRINGER-VERLAG

CONTINUES: MONATSSCHRIFT FUR

KINDERHEILKUNDE.

BERLIN

GERMANY, WEST

IN PROCESS

M43850000

ONCOLOGIC

3,1981--

PERGAMON

SPONSORED BY THE AMERICAN COLLEGE OF

RADIOLOGY, EARLIER VOLS ISSUED IN AN

UNNUMBERED SERIES CALLED MOMENTS OF

DECISION SERIES

NEW YORK

UNITED STATES

ON ORDER

006646000

RADIOLOGY OF IATROGENIC DISORDERS

1,1981--

SPRINGER VERLAG

NEW YORK

UNITED STATES

ON ORDER

R01683000

RECENT ADVANCES IN UROLOGY/ANDROLOGY

N3,1981--

CHURCHILL LIVINGSTONE

CONTINUES RECENT ADVANCES IN UROLOGY.

EDINBURGH

SCOTLAND

IN PROCESS

R06381000

PHONES LIST

UNLESS OTHERWISE NOTED, THE SPEED OF THE NUMBERS IS 10-30 CHARACTERS PER SECOND (CPS).

* = DIRECT DIAL NUMBER

FOR 120 CPS USE COMPATIBLE MODEMS INCLUDE:

V3405 = VADIC 3400 SERIES COMPATIBLE. THE FOLLOWING VADIC EQUIPMENT IS COMPATIBLE: VA3455P AND VA3451P MODEMS AND VA3434 COUPLER. THE FOLLOWING ANDERSON JACOBSON EQUIPMENT IS COMPATIBLE: AJ1255 MODEM AND AJ 1234 COUPLER.

B/V = VADIC SUPER MODEM (V3467) NODE. USERS WITH BELL 103, 113, OR 212A MODEMS OR V3400 SERIES COMPATIBLE MODEMS MAY USE THESE NUMBERS. NOTE: BELL 103 AND 113 ARE LOW SPEED MODEMS.

B202 = INDICATES NODE IS BELL 202C OR 202S DATA SET COMPATIBLE.

B212A = BELL 212A DATA SET COMPATIBLE.

FOR IBM 2741 TERMINAL ACCESS:

B = INDICATES THAT BOTH CORRESPONDENCE AND EBCDIC CODED TERMINALS ARE SUPPORTED BY TYMNET. THE USER MUST TYPE A P FOLLOWED BY A CARRIAGE RETURN SO THAT TYMNET CAN DETERMINE THE "CODE" TO BE USED. USE CORRECT TERMINAL IDENTIFIER FOR TELENET ACCESS VIA 2741'S. THE NETWORKS DO NOT SUPPORT BCD CODED 2741'S.

ALL PHONE NUMBERS ARE SUBJECT TO CHANGE OR DELETION WITHOUT PRIOR NOTICE.

ST	CITY	TYMNET	TYPE	SPEED	TELENET	TYPE	SPEED
AK	ANCHORAGE	CONTACT ALASKA TELEPHONE COMPANY FOR ACCESS					
AK	JUNEAU	CONTACT ALASKA TELEPHONE COMPANY FOR ACCESS					
AL	BESSEMER				205/251-2495		
AL	BESSEMER				205/326-3420	B/V	120
AL	BIRMINGHAM	205/942-4141	B/V	120	205/326-3420		
AL	BIRMINGHAM	205/942-1015	B212A	120	205/326-3420	B/V	120
AL	FLORENCE				205/767-4800		
AL	HUNTSVILLE	205/539-5377	FX B		205/539-2281		
AL	HUNTSVILLE	205/539-3753	FX B/V	120	205/539-2281	B/V	120
AL	MOBILE				205/432-1680		
AL	MOBILE	205/432-3382	B/V	120	205/432-1680	B/V	120
AL	MONTGOMERY	205/834-3410	FX B		205/265-1500		
AL	MONTGOMERY				205/265-1500	B/V	120
AL	SHEFFIELD				205/767-4800		
AR	FT. SMITH	501/782-3210	B212A	120			
AR	JONESBORO	501/932-6886	B212A	120			
AR	LITTLE ROCK	501/372-5780	FX B		501/374-4100		
AR	LITTLE ROCK	501/376-3768	B212A	120	501/372-4616	B/V	120
AR	SPRINGDALE	501/756-2201	B212A	120			
AZ	MESA				602/257-1552		
AZ	MESA				602/271-0533	B/V	120
AZ	PHOENIX	602/254-5811	B		602/257-1552		
AZ	PHOENIX	602/254-5811	B/V	120	602/271-0533	B/V	120
AZ	SCOTTSDALE				602/257-1552		
AZ	SCOTTSDALE				602/271-0533	B/V	120
AZ	TEMPE				602/257-1552		
AZ	TEMPE				602/271-0533	B/V	120
AZ	TUCSON	602/790-0764	B		602/745-1666		
AZ	TUCSON	602/747-4097	B/V	120	602/745-1666	B/V	120
CA	ALHAMBRA	213/572-0999	FX B		213/956-8235		
CA	ALHAMBRA				213/507-1006	B/V	120
CA	ANAHEIM				714/558-6061		
CA	ANAHEIM				714/558-7078	B/V	120
CA	ANTIOCH	415/757-6855	FX B				
CA	ARCADIA	213/574-7636	FX B				
CA	BAKERSFIELD				805/327-8146		
CA	BAKERSFIELD				805/327-8146	B/V	120
CA	BURLINGAME	415/348-4992	FX B		415/595-0360		
CA	BURLINGAME				415/591-0726	B/V	120
CA	CANOGA PARK				213/822-9287		
CA	CANOGA PARK				210/306-2984	B/V	120

ST	CITY	TYMNET	TYPE	SPEED	TELENET	TYPE	SPEED	
CA	COLTON	714/825-9372	B		714/824-1710			
CA	COLTON	714/824-8170	B212A	120	714/824-3805	B/V	120	
CA	CUPERTINO	408/446-7309	B212A	120				
CA	CUPERTINO	408/446-7001	V3405	120	408/279-2425	B/V	120	
CA	CUPERTINO	408/446-1470	B		408/279-8450			
CA	CUPERTINO	408/257-0593	CCITT RESTRICTED FOR OVERSEAS USE ONLY					
CA	EL CONDIDO				714/747-0810			
CA	EL MONTE				213/956-8235			
CA	EL MONTE				213/507-1006	B/V	120	
CA	EL SEGUNDO	213/640-1281	B		213/332-7703			
CA	EL SEGUNDO	213/640-1281	B212A	120				
CA	FRESNO				209/233-0961	B/V	120	
CA	FULLERTON				714/558-6061			
CA	FULLERTON				714/558-7078	B/V	120	
CA	GARDEN GROVE				714/898-9820			
CA	GARDEN GROVE				714/898-9820	B/V	120	
CA	GLENDALE				213/956-8235			
CA	GLENDALE				213/507-1006	B/V	120	
CA	HAYWARD	415/785-3431	B		415/881-1382			
CA	HOLLYWOOD				213/624-5230			
CA	HOLLYWOOD				213/937-3580			
CA	HOLLYWOOD				213/689-9040			
CA	HOLLYWOOD				213/624-2251	B/V	120	
CA	HUNTINGTON BEACH				714/558-6061			
CA	HUNTINGTON BEACH				714/558-7078	B/V	120	
CA	INGLEWOOD				213/624-5230			
CA	INGLEWOOD				213/937-3580			
CA	INGLEWOOD				213/689-9040			
CA	INGLEWOOD				213/624-2251	B/V	120	
CA	LONG BEACH				213/549-5150			
CA	LONG BEACH	213-435-7088	FX B212A	120	213/548-6141	B/V	120	
CA	LOS ALTOS				415/856-9930			
CA	LOS ALTOS				415/856-9995	B/V	120	
CA	LOS ANGELES	213/626-0365	B		213/624-5230			
CA	LOS ANGELES	213/626-0365	B212A	120	213/689-9040			
CA	LOS ANGELES	213/626-2400	B212A	120	213/937-3580			
CA	LOS ANGELES	213/623-8500	V3405	120	213/624-2251	B/V	120	
CA	MARINA DEL REY	213/821-2257	FX B212A	120	213/822-9287			
CA	MARINA DEL REY				213/306-2984	B/V	120	
CA	MISSION HILLS	213/365-2013	FX B212A	120				
CA	MODESTO	209/578-4236	FX B212A	120	209/576-2852	B/V	120	
CA	MOUNTAIN VIEW	415/941-8450	B		415/856-9930			
CA	MOUNTAIN VIEW	415/949-0330	B212A	120	415/856-9995	B/V	120	
CA	NEWPORT BEACH	714/540-9560	B		714/558-6061			
CA	NEWPORT BEACH	714/540-0951	B212A	120	714/558-7078	B/V	120	
CA	NORTHRIDGE	213/998-4872	FX B212A	120				
CA	NORWALK	213/865-2066	FX B212A	120				
CA	OAKLAND	415/836-8700	B		415/836-4884			
CA	OAKLAND	415/836-8900	B212A	120	415/836-4911	B/V	120	
CA	OXNARD	805/486-4811	B/V	120	805/659-4660			
CA	OXNARD				805/656-6760	B/V	120	
CA	PALM SPRINGS	714/320-0772	FX B		714/320-7491			
CA	PALO ALTO	415/966-8550	B/V	120	415/856-9930			
CA	PALO ALTO				415/856-9995	B/V	120	
CA	PASADENA	213/577-8722	FX B212A	120	213/956-8235			
CA	PASADENA				213/507-1006	B/V	120	
CA	PLEASANT HILL	415/798-2093	FX B					
CA	REDWOOD CITY				415/595-0360			
CA	REDWOOD CITY				415/591-0726	B/V	120	
CA	RIVERSIDE	714/825-9372	B		714/824-1710			
CA	RIVERSIDE	714/824-8170	B212A	120	714/824-3805	B/V	120	
CA	SACRAMENTO	916/441-6550	B		916/443-7921			
CA	SACRAMENTO	916/448-8151	B212A	120	916/448-6262	B/V	120	
CA	SALINAS	408/443-4333	FX B		408/443-4980			
CA	SALINAS				408/443-4940	B/V	120	
CA	SAN BERNADINO				714/824-1710			
CA	SAN BERNADINO				714/824-3805	B/V	120	
CA	SAN CARLOS				415/595-0360			
CA	SAN CARLOS				415/591-0726	B/V	120	
CA	SAN CLEMENTE	714/498-3130	FX B					
CA	SAN DIEGO	714/291-8700	B		714/231-1922			
CA	SAN DIEGO	714/293-3590	B212A	120	714/233-0233	B/V	120	
CA	SAN DIEGO	714/692-0219	B212A	120				
CA	SAN FRANCISCO	415/986-8200	B		415/362-6200			
CA	SAN FRANCISCO	415/397-4300	V3405	120	415/956-5777	B/V	120	
CA	SAN FRANCISCO	415/788-7955	B212A	120				
CA	SAN JOSE	408/446-1470	B		408/279-8450			

ST	CITY	TYMNET	TYPE	SPEED	TELENET	TYPE	SPEED
CA	SAN JOSE	408/446-7001	V3405	120			
CA	SAN JOSE	408/446-7309	B212A	120	408/279-2425	B/V	120
CA	SAN MATEO				415/595-0360		
CA	SAN MATEO				415/591-0726	B/V	120
CA	SAN PEDRO	213/830-0775	FX B212A	120	213/549-5150		
CA	SAN PEDRO				213/548-6141	B/V	120
CA	SANTA ANA				714/558-6061		
CA	SANTA ANA				714/558-7078	B/V	120
CA	SANTA BARBARA	805/682-9641	FX B		805/682-5361		
CA	SANTA BARBARA	805/682-9641	FX B/V	120	805/682-5361	B/V	120
CA	SANTA CLARA				408/279-8450		
CA	SANTA CLARA				408/279-2425	B/V	120
CA	SANTA CRUZ	408/429-9572	B212A	120			
CA	SANTA MONICA				213/822-9287		
CA	SANTA MONICA				213/306-2984	B/V	120
CA	SANTA ROSA	707/546-1050	B				
CA	SANTA ROSA	707/546-6776	B212A	120			
CA	SUNNYVALE				408/279-8450		
CA	SUNNYVALE				408/279-2425	B/V	120
CA	TORRANCE				213/549-5150		
CA	TORRANCE				213/548-6141	B/V	120
CA	VAN NUYS	213/986-9503	FX B				
CA	VENTURA	805/486-4811	B/V	120	805/659-4660		
CA	VENTURA				805/656-6760	B/V	120
CA	VISTA	714/727-6011	FX B				
CA	WALNUT CREEK	415/932-0116	FX B				
CA	WEST COVINA	213/331-3954	B				
CA	WOODLAND HILLS				213/992-0144		
CA	WOODSIDE				415/856-9930		
CA	WOODSIDE				415/856-9995	B/V	120
CO	AURORA				303/773-8500		
CO	AURORA				303/741-4000	B/V	120
CO	BOULDER				303/773-8500		
CO	BOULDER				303/741-4000	B/V	120
CO	COLO. SPRINGS	303/475-2121	FX B/V	120	303/634-5676		
CO	COLO. SPRINGS				303/473-0263	B/V	120
CO	DENVER	303/830-9210	B/V	120	303/773-8500		
CO	DENVER	303/830-9116	V3405	120	303/741-4000	B/V	120
CO	LAKEWOOD				303/773-8500		
CO	LAKEWOOD				303/741-4000	B/V	120
CT	BRIDGEPORT	203/367-6021	B/V	120			
CT	DANBURY	203/743-1340	FX B		203/794-9075		
CT	DANBURY	203/743-1650	B212A	120	203/794-9075	B/V	120
CT	DARIEN	203/655-8931	B				
CT	DARIEN	203/655-7951	B212A	120			
CT	FAIRFIELD/BRDGPT	203/333-4926	B212A	120			
CT	GREENWICH				203/357-1800		
CT	GREENWICH				203/348-0737	B/V	120
CT	HARTFORD	203/242-7140	B		203/522-0344		
CT	HARTFORD	203/242-7417	B212A	120	203/247-9479	B/V	120
CT	MILFORD				203/624-5954		
CT	MILFORD				203/624-5954	B/V	120
CT	NEW HAVEN	203/789-0579	B		203/624-5954		
CT	NEW HAVEN	203/787-1702	B212A	120	203/624/5954	B/V	120
CT	STAMFORD				203/357-1800		
CT	STAMFORD				203/348-0787	B/V	120
CT	WATERBURY	203/755-1153	FX B				
CT	WEST HARTFORD				203/522-0344		
CT	WEST HARTFORD				203/247-9479	B/V	120
DC	WASHINGTON	202/442-3900	B				
DC	WASHINGTON	703/841-0200	B		202/347-1400		
DC	WASHINGTON	703/841-9560	B		202/783-2050		
DC	WASHINGTON	703/734-3900	B				
DC	WASHINGTON	301/770-1680	B				
DC	WASHINGTON	703/841-9330	V3405	120	202/347-6093	B/V	120
DC	WASHINGTON	703/734-8370	B212A	120	202/347-3061	B212A	120
DC	WASHINGTON	703/442-7800	B212A	120			
DC	WASHINGTON	703/841-3550	B212A	120			
DC	WASHINGTON	703/442-3960	B/V	120	202/347-6757	B/V	120
DC	WASHINGTON*	301/492-3150	BELL	30/120			
	(AUTOM. SPEED DETECTOR - ENTER P (CR))						
DC	WASHINGTON*	301/492-3142	B202S	120			
DC	WASHINGTON*	301/492-3129	V3405	120			
DC	WASHINGTON*	301/492-3132	V3405	120			
DC	WASHINGTON*	301/492-3134	V3405	120			
DC	WASHINGTON*	301/492-3135	V3405	120			
DE	WILMINGTON	302/658-5261	FX B		302/454-7710		

ST	CITY	TYMNET	TYPE	SPEED	TELENET	TYPE	SPEED
DE	WILMINGTON	302/658-8611	B212A	120	302/454-7710	B/V	120
FL	CLEARWATER				813/323-4026	B/V	120
FL	DAYTONA BEACH	904/252-4481	FX B		904/252-6637		
FL	FT LAUDERDALE	305/467-3807	B/V	120	305/764-4505	B/V	120
FL	HOLLY HILL				904/252-6637		
FL	JACKSONVILLE	904/721-8100	B		904/356-0790		
FL	JACKSONVILLE				904/356-2264	B/V	120
FL	MELBOURNE	305/725-8011	FX B				
FL	MELBOURNE	305/724-9972	B212A	120			
FL	MIAMI	305/624-7900	B/V	120	305/371-4801		
FL	MIAMI				305/371-4822	B/V	120
FL	ORLANDO	305/851-3530	(30 CPS ONLY)		305/422-4088		
FL	ORLANDO	305/859-7670	B212A	120	305/422-4088	B/V	120
FL	PENSACOLA	904/434-0134	FX B/V	120			
FL	ST PETERSBURG	813/535-6441	B		813/323-4026		
FL	ST PETERSBURG	813/535-1446	B212A	120	813/323-4026	B/V	120
FL	SARASOTA	813/365-3526	FX B212A	120			
FL	TAMPA	813/977-2400	B		813/224-9920		
FL	TAMPA	813/977-2400	B212A	120	813/223-1088	B/V	120
FL	W PALM BEACH	305/622-2871	FX B/V	120	305/833-6691		
GA	ATLANTA	404/659-6670	B		404/577-8911		
GA	ATLANTA	404/659-2910	B				
GA	ATLANTA	404/581-0619	B212A	120	404/523-0834	B/V	120
GA	COLUMBUS				404/324-0684		
GA	GAINESVILLE				402/534-0535		
GA	MACON	912/236-1904	V3405	120			
GA	SAVANNAH	912/352-7259	FX B		912/236-2605		
GA	SAVANNAH	912/236-1904	FX B/V	120			
HI	HONOLULU	CONTACT HAWAII TELEPHONE COMPANY FOR ACCESS(TELENET)					
HI	HONOLULU	CONTACT WESTERN UNION INT'L FOR ACCESS(TYMNET)					
IA	CEDAR RAPIDS	319/363-2482	FX B		319/364-0911		
IA	CEDAR RAPIDS	319/363-9019	FX B212A	120	319/364-0911	B/V	120
IA	COUNCIL BLUFFS				402/341-7733		
IA	COUNCIL BLUFFS				402/341-7733	B/V	120
IA	DAVENPORT	319/322-5642	FX B				
IA	DAVENPORT	319/324-7197	B/V	120			
IA	DES MOINES	515/288-6640	B		515/288-4403		
IA	DES MOINES	515/288-8097	B212A	120	515/288-4403	B/V	120
IA	IOWA CITY	319/354-7371	B				
IA	IOWA CITY	319/354-9532	B212A	120			
IA	WATERLOO	319/233-9227	B212A	120			
ID	BOISE	208/343-4851	B		208/343-0611		
ID	BOISE	208/344-4311	B212A	120	208/343-0611	B/V	120
IL	ARLINGTON HTS				312/938-0500		
IL	ARLINGTON HTS				312/938-0600	B/V	120
IL	CHAMPAIGN				217/384-6428		
IL	CHAMPAIGN				217/384-6428	B/V	120
IL	CHICAGO	312/346-4961	B		312/938-0500		
IL	CHICAGO	312/368-4700	B		301/938-0600	B/V	120
IL	CHICAGO	312/368-4607	B				
IL	CHICAGO	312/641-1630	B212A	120	312/938-0600	B/V	120
IL	CHICAGO	312/372-0391	V3405	120			
IL	CICERO				312/938-0500		
IL	CICERO				312/938-0600	B/V	120
IL	E. ST. LOUIS				314/421-4990		
IL	E. ST. LOUIS				314/421-4990	B/V	120
IL	FREEMPORT	815/233-5585	B				
IL	JOLIET	815/723-9854	B212A	120			
IL	OAK PARK				312/938-0500		
IL	OAK PARK				312/938-0600	B/V	120
IL	PEORIA	309/673-2156	FX B		309/637-8601		
IL	PEORIA				309/637-8570	B/V	120
IL	ROCKFORD	815/398-6090	B				
IL	SKOKIE				312/938-0500		
IL	SKOKIE				312/938-0600	B/V	120
IL	SPRINGFIELD	217/753-7905	B/V	120	217/753-1373		
IL	SPRINGFIELD				217/753-1373	B/V	120
IL	URBANA				217/384-6428		
IL	URBANA				217/384-6428	B/V	120
IN	EVANSVILLE	812/423-6885	FX B				
IN	FT WAYNE	219/424-5162	FX B				
IN	GARY				219/882-8800		
IN	GARY				219/882-8800	B/V	120
IN	HIGHLAND	219/836-5452	FX B				
IN	INDIANAPOLIS	317/257-3461	B		317/635-9630		
IN	INDIANAPOLIS	317/926-1253	B212A	120	317/634-5708	B/V	120
IN	KOKOMO				317/456-3851		

ST	CITY	TVMET	TYPE	SPEED	TELENET	TYPE	SPEED	
IN	MARION	317/662-0091	FX	B				
IN	MERRILLVILLE	219/769-7254	FX	B				
IN	MISHAWKA				219/233-7104	B/V	120	
IN	OSCEOLA				219/233-7104	B/V	120	
IN	SOUTH BEND	210/233-4163	B		219/233-7104	B/V	120	
KS	KANSAS CITY	913/677-2833	B		816/221-9900			
KS	KANSAS CITY	913/677-0707	B212A	120	816/221-9900	B/V	120	
KS	SHAWNEE MISSION	913/677-2833	B					
KS	SHAWNEE MISSION	913/677-0707	B212A	120				
KS	TOPEKA	913/233-0690	FX	B	913/233-9880			
KS	TOPEKA				913/233-9880	B/V	120	
KS	WICHITA	316/265-1241	B/V	120	316/262-5669			
KS	WICHITA				316/262-5669	B/V	120	
KY	FRANKFORT				502/223-1841			
KY	LEXINGTON	606/253-3463	B		606/233-0312			
KY	LEXINGTON	606/253-3498	B212A	120				
KY	LOUISVILLE	502/361-3881	B		502/589-7520			
KY	LOUISVILLE	502/361-3821	B212A	120	502/589-5580	B/V	120	
LA	BATON ROUGE	504/292-4050	B		504/343-0753			
LA	BATON ROUGE	504/292-2650	B212A	120				
LA	LAFAYETTE	318/237-9500	B/V	120				
LA	MONROE				318/387-6330			
LA	NEW ORLEANS				504/524-0783			
LA	NEW ORLEANS	504/524-4371	B/V	120	504/524-4094	B212A	120	
LA	SHREVEPORT				318/221-5833			
LA	SHREVEPORT	318/688-4666	FX	B212A	120	318/221-5833	B/V	120
MA	ARLINGTON	617/482-4677	B					
MA	ARLINGTON	617/482-5605	B		617/338-1400			
MA	ARLINGTON	617/482-7035	B/V	120	617/338-7495	B/V	120	
MA	BOSTON	617/482-4677	B					
MA	BOSTON	617/482-5605	B		617/338-1400			
MA	BOSTON	617/482-7035	B/V	120	617/338-7495	B/V	120	
MA	BROOKLINE	617/482-4677	B					
MA	BROOKLINE	617/482-5605	B		617/338-1400			
MA	BROOKLINE	617/482-7035	B/V	120	617/338-7495	B/V	120	
MA	CAMBRIDGE	617/482-4677	B					
MA	CAMBRIDGE	617/482-5605	B		617/338-1400			
MA	CAMBRIDGE	617/482-7035	B/V	120	617/338-7495	B/V	120	
MA	CHICOPEE	413/781-6830	B		413/739-7221			
MA	CHICOPEE	413/781-0145	B212A	120				
MA	HOLYOKE	413/781-6830	B		413/739-7221			
MA	HOLYOKE	413/781-0145	B212A	120				
MA	LEXINGTON				617/863-1550			
MA	LEXINGTON				617/863-1565	B/V	120	
MA	MEDFORD	617/482-4677	B					
MA	MEDFORD	617/482-5605	B		617/338-1400			
MA	MEDFORD	617/482-7035	B/V	120	617/338-7495	B/V	120	
MA	NEWTON	617/482-4677	B					
MA	NEWTON	617/482-5605	B		617/338-1400			
MA	NEWTON	617/482-7035	B/V	120	617/338-7495	B/V	120	
MA	QUINCY	617/482-4677	B					
MA	QUINCY	617/482-5605	B		617/338-1400			
MA	QUINCY	617/482-7035	B/V	120	617/338-7495	B/V	120	
MA	SOMERVILLE	617/482-4677	B					
MA	SOMERVILLE	617/482-5605	B		617/338-1400			
MA	SOMERVILLE	617/482-7035	B/V	120	617/338-7495	B/V	120	
MA	SPRINGFIELD	413/781-6830	B		413/739-7221			
MA	SPRINGFIELD	413/781-0145	B212A	120				
MA	WALTHAM	617/482-4677	B					
MA	WALTHAM	617/482-5622	B		617/338-1400			
MA	WALTHAM	617/482-3386	B212A	120	617/338-7495	B/V	120	
MA	WALTHAM	617/482-1854	V3405	120				
MA	WORCESTER	617/754-9451	FX	B	617/755-4810			
MA	WORCESTER	617/755-5601	B212A	120	617/755-4740	B/V	120	
MD	ANNAPOLIS	301/547-8100	B		301/266-6886			
MD	ANNAPOLIS	301/685-2845	B212A	120				
MD	BALTIMORE	301/547-8100	B		301/962-5010			
MD	BALTIMORE	301/244-8959	B212A	120	301/727-6060	B/V	120	
MD	BETHESDA	703/841-0200	B		202/347-1400			
MD	BETHESDA	301/770-1680	B					
MD	BETHESDA	703/524-9215	B212A	120	202/347-3061	B212A	120	
MD	BETHESDA	703/841-9330	V3405	120	202/347-6093	B/V	120	
MD	COLLEGE PARK	703/841-0200	B		202/347-1400			
MD	COLLEGE PARK	703/524-9215	B212A	120	202/347-3061	B212A	120	
MD	COLLEGE PARK	703/841-9330	V3405	120	202/347-6093	V3405	120	
MD	DUNDALK	301/547-8100	B		301/962-5010			
MD	DUNDALK	301/244-8959	B212A	120	301/727-6060	B/V	120	

ST	CITY	TYMNET	TYPE	SPEED	TELENET	TYPE	SPEED
MD	ROCKVILLE	703/841-0200	B		202/347-1400		
MD	ROCKVILLE	301/770-1680					
MD	ROCKVILLE	703/524-9215	B212A	120	202/347-3061	B212A	120
MD	ROCKVILLE	703/841-9330	V3405	120	202/347-6093	B/V	120
MD	SILVER SPRING	301/770-1680	B				
MD	SILVER SPRING	703/841-0200	B		202/347-1400		
MD	SILVER SPRING	703/524-9215	B212A	120	202/347-3061	B212A	120
MD	SILVER SPRING	703/841-9330	V3405	120	202/347-6093	B/V	120
MD	TOWSON	301/547-8100	B		301/962-5010		
MD	TOWSON	301/244-8959	B212A	120	301/727-6060	B/V	120
ME	AUGUSTA				207/623-5136	B/V	120
ME	PORTLAND	207/773-2029	FX B212A	120			
MI	ANN ARBOR	313/665-2627	B		313/996-0351		
MI	ANN ARBOR	313/662-8282	B212A	120	313/996-5995	B/V	120
MI	BATTLE CREEK				616/968-0929		
MI	BATTLE CREEK				616/968-0929	B/V	120
MI	CADILLAC	616/775-1261	B/V	120			
MI	DETROIT	313/963-3388	B		313/964-5538		
MI	DETROIT	313/963-8880	B212A	120	313/964-2988	B/V	120
MI	DETROIT	313/963-2353	V3405	120			
MI	FLINT				313/233-3050		
MI	FLINT	313/732-7303	B212A	120	313/233-3050	B/V	120
MI	GRAND RAPIDS	616/459-5069	FX B/V	120	616/458-1200		
MI	GRAND RAPIDS				616/774-0966	B/V	120
MI	JACKSON	517/787-9461	B				
MI	KALAMAZOO	616/385-3150	B		616/385-0160		
MI	KALAMAZOO	616/388-3534	B/V	120			
MI	KALAMAZOO	616/388-3534	B/V	120			
MI	LANSING	517/487-2040	FX B/V	120	517/372-5400		
MI	LANSING				517/372-5420	B/V	120
MI	MANISTEE	616/723-8373	FX B/V	120			
MI	PLYMOUTH	313/459-8900	B				
MI	PLYMOUTH	313/459-8100	B212A	120			
MI	SAGINAW				517/790-5166		
MI	SOUTHFIELD	313/569-8350	B				
MI	ST JOSEPH	616/429-2568	FX B/V	120			
MI	TRAVERSE CITY	616/946-0002	FX B/V	120			
MI	WARREN				313/575-9230		
MN	DULUTH				218/722-0906		
MN	DULUTH				218/722-1719	B/V	120
MN	MANKATO	507/625-1684	B212A	120			
MN	MINNEAPOLIS	612/339-5200	B		612/339-0150	B/V	120
MN	MINNEAPOLIS	612/339-8086	B				
MN	MINNEAPOLIS	612/339-2415	B212A	120	612/338-3782	B/V	120
MN	ROCHESTER	507/282-3741	B212A	120			
MN	ST. PAUL	612/339-5200	B		612/339-0150	B/V	120
MN	ST. PAUL	612/339-2415	B212A	120	612/338-3782	B/V	120
MO	BRIDGETON	314/731-2304	FX B				
MO	COLUMBIA	314/875-1150	FX B				
MO	FLORISSANT				314/421-4990	B/V	120
MO	JEFFERSON CITY	314/634-3273	B212A	120			
MO	JOPLIN	417/782-3037	B212A	120			
MO	KANSAS CITY	913/677-2833	B		816/221-9900		
MO	KANSAS CITY	913/677-0707	B212A	120	816/221-9900	B/V	120
MO	SPRINGFIELD	417/831-0566	B212A	120			
MO	ST JOSEPH	816/232-0624	B212A	120			
MO	ST LOUIS	314/421-5110	B		314/421-4990		
MO	ST LOUIS	314/621-4660	B212A	120	314/421-4990	B/V	120
MS	JACKSON	601/944-0860	FX B		601/969-0036		
MS	JACKSON	601/969-5141	B212A	120			
MS	PASCAGOULA	601/769-6502	B				
MS	PASCAGOULA	601/769-6673	B212A	120			
MT	BUTTE	406/494-2998	B212A	120			
MT	HELENA				406/443-0000		
NE	LINCOLN	402/475-8659	FX B/V	120			
NE	OMAHA	402/392-2970	B		402/341-7733		
NE	OMAHA	402/397-0414	B212A	120	402/341-7733	B/V	120
NC	ASHEVILLE	704/255-0021	B212A	120	704/253-3517	B/V	120
NC	CHARLOTTE	704/376-2545	FX B		704/374-0371		
NC	CHARLOTTE	704/376-2544	FX B212A	120	704/332-3131	B/V	120
NC	DAVIDSON	919/549-0441	B		919/549-8311		
NC	DAVIDSON				919/549-8139	B/V	120
NC	DURHAM	919/549-0441	B		919/549-8311		
NC	DURHAM	919/549-8910	B212A	120	919/549-8139	B/V	120
NC	GREENSBORO	919/379-0470	B/V	120	919/273-2851	B/V	120
NC	HIGH POINT	919/885-0171	FX B		919/889-2253		
NC	HIGH POINT	919/885-0171	FX B/V	120	919/889-2253	B/V	120

ST	CITY	TVMNET	TYPE	SPEED	TELENET	TYPE	SPEED
NC	RALEIGH/DURHAM	919/549-0441	B		919/549-8311		
NC	RALEIGH/DURHAM	919/832-6592	FX B212A	120	919/549-8139	B/V	120
NC	RES. TRI. PARK	919/549-0441	B		919/549-8311		
NC	RES. TRI. PARK				919/549-8139	B/V	120
NC	WINSTON-SALEM	919/725-1414	B		919/725-2126		
NC	WINSTON-SALEM	919/725-9252	B212A	120	919/725-2126	B/V	120
ND	BISMARCK				701/663-5081		
ND	MANDAN				701/663-5081		
NH	CONCORD				603/224-8110		
NH	CONCORD				603/224-1024	B/V	120
NH	MANCHESTER	603/669-0493	FX B				
NH	NASHUA	603/882-0435	FX B/V	120			
NH	PORTSMOUTH				603/431-2302		
NJ	ATLANTIC CITY				609/348-0561		
NJ	BAYONNE				201/623-6818		
NJ	BAYONNE				201/623-0469	B/V	120
NJ	ENGLEWOOD CLFS	201/894-8250	B				
NJ	JERSEY CITY				201/623-6818		
NJ	JERSEY CITY				201/623-0469	B/V	120
NJ	LYNDHURST	201/460-0100	B				
NJ	LYNDHURST	201/460-0180	B212A	120			
NJ	MARLTON				609/596-1500	B/V	120
NJ	MOORESTOWN	609/235-3761	FX B				
NJ	MORRISTOWN	201/267-3997	B212A	120	201/455-0275	B/V	120
NJ	NEW BRUNSWICK				201/246-1090		
NJ	NEWARK	201/483-5937	B		201/623-6818		
NJ	NEWARK	201/483-4878	B212A	120	201/623-0469	B/V	120
NJ	PASSAIC				201/777-0952		
NJ	PATERSON				201/684-7560	B/V	120
NJ	PISCATAWAY	201/981-1900	B				
NJ	PRINCETON	609/452-8970			609/683-1312		
NJ	PRINCETON	609/452-8560	B212A	120	609/683-1312	B/V	120
NJ	RIDGEWOOD	201/447-6175	FX B				
NJ	TRENTON				609/989-8847	B/V	120
NJ	UNION	201/483-5937	B				
NJ	UNION	201/483-4878	B212A	120			
NJ	UNION CITY				201/623-6818		
NJ	UNION CITY				201/623-0469	B/V	120
NJ	WAYNE	201/785-4480	B				
NM	ALBUQUERQUE				505/243-7701		
NM	ALBUQUERQUE	505/843-6301	B/V	120	505/243-4479	B/V	120
NM	SANTE FE				505/982-4282		
NV	BOULDER CITY	702/293-0300	B				
NV	CARSON CITY	702/882-7810	B/V	120			
NV	LAS VEGAS	702/293-0300	B/V	120	702/733-2158		
NV	LAS VEGAS				702/737-6861	B/V	120
NV	RENO	702/882-7810	B/V	120			
NY	ALBANY	518/463-3111	FX B		518/445-9111		
NY	ALBANY	518/434-2633	B212A	120	518/465-8444	B/V	120
NY	BINGHAMPTON				607/772-6642	B/V	120
NY	BUFFALO	716/845-6610	B		716/847-0600		
NY	BUFFALO	716/847-0500	B212A	120	716/847-1440	B/V	120
NY	CORNING	607/962-5071	B				
NY	CORNING	607/936-4151	B212A	120			
NY	DEER PARK				516/586-7810		
NY	ELMIRA	607/737-9010	B212A	120			
NY	HEMPSTEAD, LI	516/872-6500	FX B		516/292-0320		
NY	HEMPSTEAD, LI	516/872-6500	FX B/V	120	516/292-3800	B/V	120
NY	HUNTINGTON, LI	516/549-2780	FX B				
NY	HUNTINGTON, LI	516/549-2780	FX B/V	120			
NY	MINOLA	516/222-1423	FX B212A	120			
NY	NEW YORK	212/344-7445	B		212/279-1000		
NY	NEW YORK	212/683-0131	B				
NY	NEW YORK	212/532-0437	B		212/736-0099		
NY	NEW YORK	212/685-4414	B				
NY	NEW YORK	212/668-0130	B212A	120	212/947-9600	B/V	120
NY	NEW YORK	212/532-8101	B212A	120			
NY	NEW YORK	212/684-6363	B/V	120			
NY	NEW YORK	212/785-5400	B/V	120			
NY	NIAGARA FALLS	716/285-6691	FX B				
NY	NIAGARA FALLS	716/285-3114	FX B212A	120			
NY	POUGHKEEPSIE	914/473-7815	FX B		914/473-5600		
NY	ROCHESTER	716/248-8000	B		716/454-3430		
NY	ROCHESTER	716/248-8350	B212A	120	716/454-1020	B/V	120
NY	ROME				315/797-0920	B/V	120
NY	SCHENECTADY				518/445-9111		
NY	SCHENECTADY				518/465-8444	B/V	120

ST	CITY	TYMNET	TYPE	SPEED	TELENET	TYPE	SPEED
NY	SYRACUSE	315/437-7111	B		315/472-5503		
NY	SYRACUSE	315/437-1117	B212A	120	315/472-5583	B/V	120
NY	TROY				518/445-9111		
NY	TROY				518/465-8444	B/V	120
NY	UTICA				518/465-8444	B/V	120
NY	WHITE PLAINS	914/694-9361	B		914/328-9199	B/V	120
NY	WHITE PLAINS	914/694-8960	B212A	120	914/328-9199	B/V	120
OH	AKRON	216/535-1861	B		216/762-9791	B/V	120
OH	CANTON				216/452-0903		
OH	CINCINNATI	513/891-7211	B		513/621-7017		
OH	CINCINNATI	513/791-5311	B212A	120	513/579-0390	B/V	120
OH	CINCINNATI	513/793-8893	B/V	120			
OH	CLEVELAND	216/781-7050	B		216/241-0940		
OH	CLEVELAND	216/861-5383	B212A	120	216/696-4225	B/V	120
OH	COLUMBUS	614/421-7270	B		614/463-9340	B/V	120
OH	COLUMBUS	614/421-1650	B212A	120			
OH	DAYTON	513/223-3847	B		513/461-1570		
OH	DAYTON	513/461-6400	B212A	120	513/461-5254	B/V	120
OH	EUCLID				216/241-0940		
OH	EUCLID				216/696-4225	B/V	120
OH	KENT				216/678-5115		
OH	MARYSVILLE	513/642-2015	FX B212A	120			
OH	PARMA				216/241-0940		
OH	PARMA				216/696-4225	B/V	120
OH	SPRINGFIELD				513/323-8433		
OH	TOLEDO	419/243-3144	FX B		419/225-7805		
OH	TOLEDO	419/255-2946	FX B212A	120	419/225-7881	B/V	120
OH	YOUNGSTOWN	216/744-5326	B212A	120	216/743-2296	B/V	120
OK	BARTLESVILLE				918/336-0020		
OK	BETHANY	405/947-0561	B				
OK	BETHANY	405/949-0125	B212A	120	405/232-4546	B/V	120
OK	NORMAN	405/947-0561	B				
OK	NORMAN	405/949-0125	B212A	120	405/232-4546	B/V	120
OK	OKLAHOMA CITY	405/947-0561	B		405/232-4546		
OK	OKLAHOMA CITY	405/949-0125	B212A	120	405/232-4546	B/V	120
OK	STILLWATER				405/624-1112		
OK	TULSA	918/582-0507	B		918/584-3247		
OK	TULSA	918/582-0498	B212A	120	918/584-3247	B/V	120
OR	PORTLAND	503/231-4050	B		503/295-3000		
OR	PORTLAND	503/231-4077	B212A	120	503/295-3028	B/V	120
OR	SALEM				503/378-7712	B/V	120
PA	ALLENTOWN	215/433-6131	FX B		215/425-3330		
PA	ALLENTOWN	215/432-5926	B212A	120	215/425-3330	B/V	120
PA	ALTOONA	814/946-8888	B212A	120			
PA	DOWINGTON	215/269-9861	FX B/V	120			
PA	ERIE	814/453-7161	B		814/453-7561		
PA	ERIE				814/453-6859	B/V	120
PA	HARRISBURG	717/236-1190	FX B		717/236-6882		
PA	HARRISBURG	717/233-8531	FX B212A	120	717/236-6882	B/V	120
PA	JOHNSTOWN				814/535-7576		
PA	JOHNSTOWN				814/535-8541	B/V	120
PA	KING OF PRUSSIA	215/337-9900	B212A	120	215/337-4300	B/V	120
PA	PENN HILLS				412/288-9950		
PA	PENN HILLS				412/288-9974	B/V	120
PA	PHILADELPHIA	215/561-6120	B		215/574-0620		
PA	PHILADELPHIA	215/567-1381	B212A	120	215/574-9462	B/V	120
PA	PITTSBURGH	412/765-1320	B		412/288-9950		
PA	PITTSBURGH	412/261-4151	B212A	120	412/288-9974	B/V	120
PA	SCRANTON				717/961-5321		
PA	SHARON				412/346-6576		
PA	UPPER DARBY				215/574-0620		
PA	UPPER DARBY				215/574-9462	B/V	120
PA	VALLEY FORGE	215/666-9190	B				
PA	VALLEY FORGE	215/666-0930	B212A	120			
PA	YORK	717/846-3900	B/V	120	717/846-6550	B/V	120
RI	PROVIDENCE	401/273-0200	FX B		401/272-9290		
RI	PROVIDENCE	401/273-0201	B212A	120	401/751-7912	B/V	120
RI	WARWICK	401/274-5783	FX B		401/272-9290		
RI	WARWICK	401/831-5566	B212A	120	401/751-7912	B/V	120
SC	CHARLESTON				803/722-4352		
SC	CHARLESTON	803/577-2179	FX B/V	120	803/722-4303	B/V	120
SC	COLUMBIA	803/252-0840	FX B		803/254-1108		
SC	COLUMBIA	803/256-5238	FX B212A	120	803/254-0695	B/V	120
SC	GREENVILLE	803/271-2418	FX B		803/233-3488		
SC	GREENVILLE	803/271-9967	FX B		803/233-3486	B/V	120
SC	SPARTANBURG	803/585-2637	FX B/V	120			
SD	PIERRE				605/224-6188		

ST	CITY	TYMNET	TYPE	SPEED	TELENET	TYPE	SPEED
TN	CHATTANOOGA	615/756-5856	B		615/756-5323		
TN	CHATTANOOGA	615/756-0561	B212A	120	615/756-1161	B/V	120
TN	KNOXVILLE	615/637-3118	FX B		615/523-5500		
TN	KNOXVILLE	615/523-7458	FX B212A	120	615/523-5500	B/V	120
TN	MEMPHIS	901/529-0170	B		901/525-2563		
TN	MEMPHIS	901/529-0183	B212A	120	901/521-0215	B/V	120
TN	NASHVILLE	615/367-9382	B		615/244-8310		
TN	NASHVILLE	615/361-7566	B212A	120	615/244-5099	B/V	120
TX	ABILENE				915/676-7701		
TX	AUSTIN	512/444-3280	B/V	120	512/928-1130	B/V	120
TX	BAYTOWN	713/427-5856	FX B				
TX	BEAUMONT	713/832-2589	FX B				
TX	CORPUS CHRISTI	512/882-3641	FX B212A	120	512/884-9030	B/V	120
TX	DALLAS	214/638-8888	B/V	120	214/748-0127		
TX	DALLAS	214/688-1444	B212A	120	214/748-6371	B/V	120
TX	EL PASO	915/544-9590	B/V	120	915/532-7907	B/V	120
TX	EL PASO	915/532-1936	B212A	120			
TX	FORT WORTH	214/263-4581	FX B		817/336-7791		
TX	FORT WORTH	214/263-0278	B212A	120	817/332-4307	B/V	120
TX	GALVESTON				713/762-3308	B/V	120
TX	HOUSTON	713/975-0500	B		713/227-1018		
TX	HOUSTON	713/977-4080	B				
TX	HOUSTON	713/780-7390	B				
TX	HOUSTON	713/780-7496	V3405	120			
TX	HOUSTON	713/977-7671	B212A	120	713/227-1018	B/V	120
TX	LACKLAND				512/227-7784		
TX	LACKLAND				512/227-0182	B/V	120
TX	LONGVIEW	214/758-1756	FX B				
TX	LUBBOCK	806/762-0136	FX B				
TX	MIDLAND	915/683-5645	B				
TX	MIDLAND	915/683-9833	B212A	120			
TX	NEDERLAND				713/724-2341		
TX	ODESSA	915/563-3745	FX B		915/332-6883		
TX	SAN ANGELO				915/944-9670		
TX	SAN ANGELO				915/944-8502	B/V	120
TX	SAN ANTONIO	512/226-9995	B		512/227-7784		
TX	SAN ANTONIO	512/226-0023	B212A	120	512/227-0182	B/V	120
UT	SALT LAKE CITY	801/582-8972	B		801/364-2644		
UT	SALT LAKE CITY	801/582-6060	B212A	120	801/359-0149	B/V	120
VA	CHESAPEAKE				804/625-1186	B/V	120
VA	HERNDON				703/435-3333		
VA	LYNCHBURG	804/528-0021	FX B212A	120			
VA	NEWPORT NEWS	804/596-5754	FX B		804/596-6600	B/V	120
VA	NORFOLK	804/625-8301	B212A	120	804/625-1186	B/V	120
VA	PORTSMOUTH				804/625-1186	B/V	120
VA	RICHMOND	804/649-3050	FX B		804/788-9902	B/V	120
VA	RICHMOND	804/788-4604	B212A	120			
VA	ROANOKE	703/345-6668	FX B/V	120			
VA	VIRGINIA BEACH				804/525-1186	B/V	120
VT	BURLINGTON	802/864-0054	FX B212A	120			
VT	MONTPELIER				802/229-4966		
WA	AUBURN				206/939-8200		
WA	BELLEVUE	206/625-9937	B212A	120	206/625-9612	B/V	120
WA	BELLEVUE	206/625-9900	B		206/447-9012		
WA	ENUMCLAW	206/825-6909	FX B212A	120			
WA	LONGVIEW				206/577-5835		
WA	OLYMPIA	206/943-4190	FX B				
WA	RICHLAND	509/375-1975	B				
WA	RICHLAND	509/375-3367	B212A	120			
WA	SEATTLE	206/625-9900	B		206/447-9012		
WA	SEATTLE	206/625-9937	B212A	120	206/625-9612	B/V	120
WA	SPOKANE	509/747-4105	B/V	120	509/455-4071	B/V	120
WA	TACOMA	206/952-6800	FX B		206/627-1717		
WA	TACOMA				206/627-1791	B/V	120
WA	WENACHEE				509/662-1901		
WA	WENACHEE				509/662-1901	B/V	120
WI	APPLETON	414/734-9940	FX B/V	120			
WI	EAU CLAIRE	715/834-7863	FX B212A	120	715/835-4641		
WI	GREEN BAY	414/468-6808	B/V	120			
WI	MADISON	608/221-4211	B		608/251-5904		
WI	MADISON	608/221-0891	B212A	120	608/257-5010	B/V	120
WI	MILWAUKEE	414/257-3482	B		414/271-2560		
WI	MILWAUKEE	414/257-1703	B/V	120	414/271-3914	B/V	120
WI	NEENAH	414/722-5580	B/V	120			
WI	OSHKOSH	414/235-4594	FX B/V	120			
WI	RACINE	414/637-0910	B/V	120			
WV	CHARLESTON	304/345-2908	B212A	120	304/345-6471	B/V	120
WV	HUNTINGTON	304/522-6261	FX B				
WY	CHEYENNE				307/638-4421	B/V	120

NLM AUTOMATIC SDI SERVICE REQUEST FORM

MEDLARS USERID CODE UNDER WHICH SEARCHES WILL BE STORED

M	E	D							
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Name and address to which results should be sent: (no more than 50 characters per line)

_____ name

_____ address

_____ city, state, zip

Name and telephone number of the person who coordinates SDI service at your organization >

_____ name
_____ telephone number

This form is being submitted in order to:

- BEGIN SERVICE ON THE _____ DATABASE (ONLY ONE PER FORM)
- CHANGE A PREVIOUSLY SUBMITTED FORM

Please note that NLM automatic SDI searches must be named beginning with a four-character code (one letter, three numerical digits) that indicates which database the search is to be run against and the print format in which the retrieval should be printed. A table on the back of this form shows the available numerical ranges.

You may specify below any changes in the PRINT or SORT specification(s) you would like made to any numerical range. If you do not specify otherwise, the default SORT and PRINT values (see the back of this form) will be used.

NUMERICAL RANGE	PRINT ELEMENTS	SORT ELEMENTS*
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

*Users are encouraged to choose a precoded SORT format (such as AUTI) rather than a tailored format.

NOTE -- Use a separate form for each database for which automatic SDI searches will be stored. Submit only one form for each database; thereafter, submit a form only to change information on a previously submitted form, or to begin service on a different database, or to discontinue service.

RETURN THIS COMPLETED FORM TO:

MEDLARS MANAGEMENT SECTION
NATIONAL LIBRARY OF MEDICINE
8600 ROCKVILLE PIKE
BETHESDA, MARYLAND 20209

<u>DATABASE NAME</u>	<u>FIRST LETTER OF SEARCHNAME</u>	<u>SORT ELEMENTS</u>	<u>NUMBER RANGE</u>	<u>PRINT FORMAT</u>
SDILINE	S	JNL (TA A, DP D, VI D, IP D, PG A)	S001-200	STANDARD
			S201-400	FULL INCLUDE AD
			S401-600	AU, TI, SO, TT, LA, MH, AB, AD
			S601-700	AU, TI, SO, AB
			S701-800	SPECIFY ON THIS FORM
TOXLINE	T	JNL (SO A)	T001-200	STANDARD
			T201-400	FULL
			T401-600	DETAILED
			T601-700	SI, AU, TI, SO, AD
			T701-800	SPECIFY ON THIS FORM
CANCERLIT	C	JNL (TA A, YR A, TI A)	C001-200	STANDARD
			C201-400	FULL
			C401-600	DETAILED
			C601-700	AU, TI, SO, AB, PT
			C701-800	SPECIFY ON THIS FORM
HEALTH	H	JNL (IDENTICAL TO SDILINE)	H001-200	STANDARD
			H201-400	FULL
			H401-600	AU, TI, SO, TT, LA, MH, AB
			H601-700	AU, TI, SO, AB
			H701-800	SPECIFY ON THIS FORM

EXAMPLE - a stored search named S645 PARVOVIRUS will be processed each month against SDILINE, and the citations will be printed in the AU, TI, SO, AB format, in order by journal and date of publication.