



**COLORADO
COUNCIL OF
MEDICAL
LIBRARIANS**



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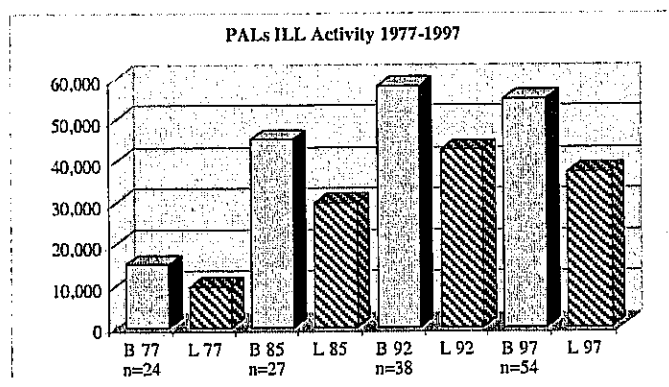
**Special Supplement
1997 Interlibrary Loan Survey Report
Colorado Council of Medical Librarians (CCML)**

Submitted by the CCML Interlibrary Loan Survey Task Force:
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Introduction

This survey is the fifth in a series of CCML interlibrary loan (ILL) activity surveys. Fifty-four libraries participated in this survey of 1997 interlibrary loan data. There were 50 Primary Access Libraries (PALs) and four university libraries from Colorado and Wyoming. As indicated in Chart 1, the PALs group borrowed 55,223 documents and loaned 37,631, utilizing DOCLINE and OCLC. This report analyses the data and makes recommendations for improved efficiency of interlibrary loan services.

Chart 1: ILL Activity of the Primary Access Libraries, 1977 - 1997



(B)orrowing/(L)ending - Year:	B 77	L 77	B 85	L 85	B 92	L 92	B 97	L 97
Total:	15,291	9,817	45,601	30,155	58,380	42,973	55,223	37,631
% of change:			198%	207%	28%	43%	-5%	-12%
Number of Participants:	n=24		n=27		n=38		n=57	

Background

The first CCML ILL survey was conducted in 1977 by Sue A. O'Neill, a library science graduate student at the University of Denver, as her master's thesis project. Completed before the existence of electronic

borrowing/lending systems, this early effort nonetheless established methodology that would be repeated in subsequent surveys.

The second CCML survey, based on 1981-1985 ILL data, reflected the use of electronic borrowing/lending mechanisms for the first time. These included *OCTANET*, Region 4's precursor to *DOCLINE*, and *Mile High Mail*, an early electronic messaging system used by many CCML members to request ILLs. The CCLS courier service, also introduced during this five-year period, was used to expedite delivery of ILL materials. The study included a thirty-question survey used to document ILL procedures and to determine the concerns of CCML members regarding ILL.

Reported in the July 1991 issue of *Council Quotes*, the third survey was based on 1990 CCML ILL data, reflecting the first full year of *DOCLINE* use. It was estimated that *DOCLINE*, introduced in 1989, accounted for 85% - 90% of all ILL activity among CCML member libraries in 1990. Data for items requested via fax, mail, *OCLC*, and telephone were not included. This survey focused on how CCML libraries were integrating *DOCLINE* into ILL procedures and processes. Data analysis yielded recommendations for using *DOCLINE* more efficiently, including a suggested CCML *DOCLINE* routing map.

The fourth survey was based on 1992 CCML ILL data; results were published in the September 1993 issue of *Council Quotes*. Unlike the previous surveys, this survey included *OCLC*, in addition to *DOCLINE*, borrowing/lending statistics, representing 95% of all CCML ILL activity. Chart 2 shows comparative data for 13 libraries that have participated in the four surveys indicated.

Chart 2
13 Libraries for which data exists, 1977 - 1997:

	77	85	92	97
Borrowed	8,047	24,051	25,611	25,080
% change		199%	6.49%	-2.07%
Loaned	5,739	19,943	21,160	19,924
% change		247%	6.10%	-5.84%

AMC Cancer Research Center
 Association of Operating Room Nurses
 Centura St. Anthony Hospital
 CO Mental Health Inst Pueblo
 Denv Med Libr Pres/St. Luke's Med Ctr
 Exempla St. Joseph Hospital
 Lutheran Medical Center
 Memorial Hospital
 National Jewish Med Res Ctr
 Porter Adventist Hospital
 Rose Medical Center
 St. Mary's Hospital & Medical Center
 VA Medical Center - Denver

Selection of Participants

The current survey is based on 1997 *DOCLINE* and *OCLC* data for CCML libraries. To identify potential survey participants, the NLM *DOCUSER* database was searched, yielding 166 records for libraries in Colorado and Wyoming. (*DOCUSER*, *Document Delivery User*, supports the *DOCLINE* system by providing interlibrary loan information for participating libraries.) Of the libraries identified in *DOCUSER*, 90 non-active *DOCLINE* user libraries and eight active, non-CCML member libraries were excluded from the study. Additionally, four of the libraries had ceased operation and nine others could not be reached.

In November 1997, letters of agreement soliciting survey participation were mailed to the 55 remaining Colorado and Wyoming libraries, offering a choice of the following levels of participation:

- **Full participation:** The library's name and statistics would be included in the survey report presented to CCML members, as well as in articles submitted for publication in *Council Quotes* and the *Bulletin of the Medical Library Association*.
- **Local participation:** The library's name and statistics would be included in the survey report, but not in other publications.

- **Blinded participation:** The library's statistics would be included in the survey report and other publications, but the library's name would not be used.
- **Anonymous participation:** The library's name and statistics would not be used separately in the survey report or in other publications. The library's statistics would be combined with other anonymous participants in a group designated *Other CCML Libraries*.

In addition to requesting that participants select a level of participation, information regarding the type of institution, number of subscriptions, total and subscription budgets, number of bound volumes, standard retention periods, and number of FTEs was requested. By February 1998, fifty-five libraries had completed and returned letters of agreement, authorizing the task force to use their *DOCLINE/OCLC* logins and passwords to obtain the survey data.

Of these 55 libraries, 39 agreed to be full participants in the study, nine agreed to be local participants, two agreed to blind participation, and five agreed to anonymous participation. One CCML library that agreed to full participation but did not use *DOCLINE* or *OCLC* in 1997 was excluded. Of the 54 full participants, four are university libraries, 13 are special libraries, and 37 are hospital libraries. Data for six non-participating libraries, identified as having significant borrowing and/or lending activity with the participants, were included with the data in the anonymous participants group.

Data Collection

After forwarding the letters of agreement to *DOCLINE* staff at the National Library of Medicine (NLM), arrangements were made with NLM to send the participating libraries' borrowing/lending data in electronic form. Four text-based files (*All Borrowing Activity* [1.1MB]; *All Lending Activity* [650K]; *Borrowing Summary* [130K]; *Lending Summary* [130K]) were created by NLM staff and transferred via ftp to the task force.

Once the files were revised (by globally replacing spaces with tab delimiters), they were imported into *Excel*, where the tables in this report were produced. Similar procedures were followed to obtain the *OCLC* data electronically and incorporate it into the report.

Summary of the Tables and Data Analysis

Table 1 and *Table 2* provide overviews of the total 1997 *DOCLINE* and *OCLC* borrowing/lending activity of the participating libraries. This data, which reflects ILL activity between participating libraries and all of their borrowing/lending partners, not just within the group of participants, is sorted and ranked by the numbers of items borrowed and loaned, respectively. The other tables in this report were extrapolated from the data contained in these two tables.

Table 3 provides a detailed summary of the *OCLC* borrowing/lending activity of the participating libraries, sorted by the percentages of total *OCLC* borrowing activity. This data includes borrowing and lending activity among the participating libraries, as well as with other libraries. It is important to note that, because they do not use *DOCLINE*, the *OCLC* activity of the three non-health sciences university libraries is very high. This affects the usefulness of the total figure for the group.

Table 4 contains *DOCLINE* summary statistics, sorted alphabetically by institution name. This data may be used to benchmark institutional borrowing/lending efficiency against other participating libraries. To make it easier to compare data with similar institutions, Colorado and Wyoming libraries are separated in this table.

Table 5 and *Table 6* provide net borrower and net lender designations for the participating libraries. Net lender libraries are libraries that lend a greater number of items than they borrow; net borrower libraries borrow more than they lend. *Table 5* is based on *DOCLINE* data, while *Table 6* includes *OCLC* and *DOCLINE* data. ILL activity with libraries outside the group is excluded from these tables.

Column D in *Table 5* and *Table 6* shows the borrowing/lending ratio for each library. This ratio is determined by dividing the number of items borrowed (Column A), by the sum of the number of items borrowed plus the number of items loaned (Column B). For example, in *Table 5*, the AORN Library has a borrowing/lending ratio of .13 ($308/[308 + 2132]$). In other words, 13% of AORN's total ILL activity involved borrowing, while lending accounted for 87% of its total ILL activity, making AORN a high

DOCLINE net lender. The borrowing/lending ratio of the institutions located within the highlighted rectangle is considered balanced, since their borrowing/lending ratios are between 40% and 60%. These libraries lend approximately as much as they borrow. Column E shows each individual library's ILL activity, expressed as a percentage of the group's total activity.

Clearly, libraries with large collections or specialized resources, such as AORN, are likely to be net lenders, while hospital libraries with small, core collections will be net borrowers. By using the net borrower/lender information found in *Table 5* to construct or revise *DOCLINE* routing tables, the group can better equalize ILL activity and minimize the burden on net lenders.

Table 7, which excludes OCLC data, arranges 1997 *DOCLINE* borrowing/lending activity according to the geographic distribution of CCML library borrowing/lending partners. For comparison purposes, 1992 borrowing data is provided (1992 lending data was not available). The data in this table shows a 6% decrease in the borrowing activity of the participating libraries from 1992 to 1997. CCML is still meeting its NN/LM obligation to borrow among its Primary Access Libraries (PALs) group (61%), before resorting to borrowing from larger net lender libraries.

Table 8 provides data that may explain the 5% - 6% overall decrease in borrowing. Borrowing by the group decreased 6%, while lending decreased by 12% (Chart 1). Using a group of libraries whose activity changed more than 30%, the decreases were not outweighed by the increases, causing a 57% drop in overall activity in this group. The changes due to the closing of Fitzsimons (-37%) and Mercy (-10%), equaling -47% are not balanced by the 19% increase of the libraries whose activity increased more than 30%. Staff cuts and staff changes at other libraries contributed to the overall decrease in numbers. The numbers did not increase even with the inclusion of 16 new libraries (10 from Wyoming), totaling 6,344 borrows for 1997. The same analysis can be made on the lending side, except that the impact of closing Fitzsimons is even greater.

Also in *Table 8*, the impact of this change is shown in regional borrowing patterns. A condensation of *Table 7* shows that we borrowed 18% less from each other. Even though borrowing from NLM decreased 9%, borrowing from all other resource libraries increased, 7% for regional libraries, 15% for in-state resource libraries, and 22% for out-of-region resource libraries.

Chart 3
1997 PALs Borrowing and Lending Percentages in relation to Fill Rate:

Total Items Borrowed				
Total Loans	Total Filled (Table 1)	% Total (Filled)	Not Filled	% Total (Not Filled)
65,896	54,924	83%	10,972	17%
Total Items Loaned				
Total Loans	Total Filled (Table 1)	% Total (Filled)	Not Filled	% Total (Not Filled)
53,773	45,163	84%	8,610	16%

Table 9 assigns each library an impact factor based on numbers of unfilled requests and total borrowing activity for the participating libraries. Using this table, each institution can determine the impact of its unfilled requests on the group as a whole (Column F), as well as on its own institutional ILL activity (Column E). To decrease the numbers of unfilled requests and lessen the impact on the group and individual libraries, the recommendations below should be followed. Chart 3 above gives the total of filled and unfilled requests for the whole group.

Table 10 addresses the problem of not accessing *DOCLINE* daily. Column D describes the percentage of total requests routed to a library that were not receipted. The impact on the group as a whole, described in Column E, takes into account high activity libraries.

Table 11, which is sorted by institutional name, contains additional information provided by participating libraries, including the type of institution, number of subscriptions, subscription budgets, number of bound volumes, standard retention periods, and number of FTEs, sorted by institutional name. This data will be analyzed further in an article that the task force plans to submit for publication to the *Bulletin of the Medical Library Association*.

Recommendations

The following task force recommendations are suggested to improve institutional ILL cost-effectiveness and efficiency, as well as service to library users. For extensive help files on the use of *DOCLINE* and related files consult the NN/LM/MR website at <http://www.nlm.nih.gov/mr/docdel/>. Interconnections between the various files mentioned below are shown in Appendix A.

Lending Recommendations

- **Access *DOCLINE/OCLC* daily:** *DOCLINE* and *OCLC* work optimally when **everyone** accesses them each workday. If you work in a one-person library, identify someone in your organization to route requests in your absence. If you work in a larger library, cross-train other library staff members to provide this important function. If your library staff cannot access *DOCLINE* daily for any reason for an extended period of time, you may wish to change your lending status to inactive, to prevent requests from being routed to your institution. (To change your lending status: contact Janice Denton, at 1-800-338-7657, for *DOCLINE*, and Bonnie Robinson, at 303-751-6277, for *OCLC*.)
- **Maintain accurate *SERHOLD* records:** *DOCLINE* routing is only as accurate as the *SERHOLD* records it is based on. If you withdraw a title from your collection, delete your holdings from the *SERHOLD* record. By doing so, you will prevent requests from other libraries being routed to you, which wastes staff time and delays a library user's receipt of a needed item. *SERHOLD* records can, and should be, updated as often as necessary. In Colorado, you can send changes to Gene Stortz at any time; soon, everyone will be able to update their own institutional records via the web.
- **Update *NAD/DOCUSER* records:** Make sure that your library's profile information is current in *DOCUSER* and in your *OCLC NAD* record and constant data. *DOCLINE* routing is based on the information in *DOCUSER*.

Borrowing Recommendations

- **Verify requests:** It is important to send requests that are complete and correct. Use *PubMed's Citation Matcher* (<http://www.ncbi.nlm.nih.gov/PubMed/wgetcit.html>) to verify requests easily and quickly. Educate your users to provide you with *MEDLINE* UI numbers when they request items. *DOCLINE* requests that are rejected for this reason (INC) are automatically canceled from the system, requiring you to start over and delaying your customer's receipt of needed items.
- **Increase the amount in your maxcost fields:** Make sure that the amount in your *DOCLINE* and *OCLC* maxcost fields is sufficient to cover the charges of **ALL** of the libraries that you borrow from. To obtain ILLs for the lowest direct cost in *DOCLINE*, place libraries that charge the least in the first cells of your routing table and the libraries that charge the most in the last cells. If your budget does not support paying for ILLs at the recommended \$10 national maximum, consider using *DOCLINE's* start-stop routing feature. (For more information: <http://www.nlm.nih.gov/mr/docdel/startstop.html>) Routing requests with an insufficient maxcost amount wastes staff time for borrowers and lenders. *DOCLINE* requests that are rejected for this reason (CST) are automatically canceled from the system, requiring you to start over and delaying your customer's receipt of needed items. Check other libraries' *DOCUSER* and *NAD* (*OCLC's Name Address Directory*) records for their fees.
- **Do not prefix requests:** When you prefix requests in *DOCLINE*, the power of the system's routing capability is lost. Prefixing requests burdens lending libraries that must respond to requests that cannot be filled. It also results in poor service to your customers, whose requests could be delayed by as many as three days. Again, consider using *DOCLINE's* start-stop routing feature.
- **Use *OCLC* custom holdings:** *OCLC's* ILL custom holdings feature permits you to define sets of lending partners according to charges, delivery methods, turn-around times, and other factors, similar to the way

lending libraries can be arranged in *DOCLINE* routing tables. (For more information:
<http://www.bcr.org/~bss/illsrvs.htm>)

- **Update your *DOCLINE* routing table regularly:** *DOCLINE* can be updated as often as necessary. Use the suggestions below to revise your routing table:

- Review the following documents, available at the National Network of Libraries of Medicine – Midcontinental Region (Region 4) website. Consult by telephone with personnel at the NN/LM/MR about specific details (1-800-338-7657).

Updating Your DOCLINE Routing Table, <http://www.nlm.nih.gov/mr/docdel/docroute.html>
Guidelines for Constructing Routing Tables,

<http://www.nlm.nih.gov/mr/docdel/routguid.html>

Make Efficient Use of DOCLINE-Update Your Routing Table,

<http://www.nlm.nih.gov/mr/pubs/netlink/nlwin99.html#routingtable>

- The following CCML libraries are either defunct, or are non-active *DOCLINE* participants, and **should be removed from your routing table:**

80045A - Fitzsimons U.S. Army Medical Center
80204E - University of CO (Auraria Library)
80262C - Spitz Psychiatric Library (closing 4/30/99)
80309A - University of CO (Norlin Library)
82001D - United Medical Center (WY)
82301A - Memorial Hospital of Rawlins (WY)
82801B - Sheridan College (WY)

80112C - Telectronics Pacing Systems
80217A - Manville Corporation
80301G - NeXtar Pharmaceuticals
80309B - CO Technical Reference Center
82071B - University of WY (Coe Library)
82520C - Lander Valley Regional Medical Center

- *DOCLINE* routing tables include nine cells, with space for up to 20 institutions in each cell. While you do not need to fill up each cell, you should not be afraid to do so. It is always advisable, as well as courteous, to obtain permission from a library before including it in your routing table. NLM is automatically placed alone in cell ten.
- Because the needs of each library vary, one routing table will not work for every institution; however, the following sample, designed for a CCML courier participant library, may be adapted for your institution:

Cell 1 Courier participant libraries that are not net lenders (see Table 5) and that do not charge for ILLs
Cell 2 Other courier libraries (charging libraries and/or net lenders)
Cell 3 Other courier libraries (charging libraries and/or heavy net lenders)
Cell 4 Other non-courier Colorado libraries
Cell 5 Denison Library, Colorado's resource library – LIBID: 80262A
Cell 6 Other Region 4 resource libraries (List: <http://www.nlm.nih.gov/mr/docdel/illtbl/index.html>)
Cell 7 McGoogan Library of Medicine, Omaha NE, Region 4's regional library – LIBID: 68105B
Cell 8 Specialty libraries outside Region 4
Cell 9 Other libraries outside Region 4
Cell 10 National Library of Medicine (requests are automatically routed to NLM last) – LIBID: 20209A

1997 CCML INTERLIBRARY LOAN SURVEY
TOTAL DOCLINE AND OCLC COMBINED
SORTED BY NUMBER OF ITEMS BORROWED (E)

STATE	CITY	INSTITUTION NAME	OCLC CODE	DOCLINE LIBID	A	B	C	D	E	F
					BORROWED DOCLINE	LOANED DOCLINE	BORROWED OCLC	LOANED OCLC	BORROWED TOTAL	LOANED TOTAL
PRIMARY ACCESS LIBRARIES										
CO	Denver	Exempla St. Joseph Hospital	DNJ	80218C	3,783	1,301	100	56	3,883	1,357
CO	CO Sprgs	Memorial Hospital	CYE	80909A	2,788	2,141	346	111	3,134	2,252
CO	Lakewood	AMC Cancer Research Center	CYA	80214A	2,298	1,052	424	3	2,722	1,055
CO	Englewood	Swedish Medical Center	DNS	80110A	2,538	2,107	140	150	2,678	2,257
CO	Denver	Denver Health Medical Center	CYD	80204A	1,820	2,703	439	207	2,259	2,910
CO	Aurora	Medical Ctr of Aurora-North Campus		80011A	2,207	371			2,207	371
CO	Denver	National Jewish Med Res Ctr	DNB	80206B	1,993	1,491	164	133	2,157	1,624
CO	Denver	Children's Hospital	CYB	80218A	1,665	1,805	361	324	2,026	2,129
CO	Denver	Porter Adventist Hospital	DVH	80210A	1,821	1,334	189	349	2,010	1,683
CO	Denver	Denv Med Libr Pres/St. Luke's Med Ctr	DMJ	80218B	1,756	1,710	213	0	1,969	1,710
CO	Wheat Ridge	Lutheran Medical Center	DND	80033A	1,719	1,728	109	314	1,828	2,042
CO	Denver	VA Medical Center - Denver		80220E	1,722	1,000			1,722	1,000
CO	Pueblo	Parkview Episcopal Medical Center	CQE	81003C	1,088	289	613	28	1,701	317
CO	Boulder	Boulder Community Hospital		80302D	1,701	100			1,701	100
CO	Denver	Centura St. Anthony Hospital		80204C	1,699	1,048			1,699	1,048
CO	Gr Junct	St. Mary's Hospital & Medical Center	XVY	81502A	1,495	1,063	113	7	1,608	1,070
CO	Ft. Collins	Poudre Valley Hospital	CO5	80521B	1,221	506	77	4	1,298	510
CO	Fort Carson	Evans Army Community Hospital	AMB	80913A	1,078	992	115	91	1,193	1,083
CO	CO Sprgs	Penrose/St. Francis Health Services	CYG	80907B	1,036	2,796	154	94	1,190	2,890
		Library B	XXX	00000B	1,037	636	12	0	1,049	636
CO	Greeley	North Colorado Medical Center	CYF	80631B	1,016	361	27	0	1,043	361
CO	Durango	Mercy Medical Center		81301B	984	0			984	0
WY	Casper	Iverson Memorial Hospital		82070A	820	41			820	41
WY	Casper	Wyoming Medical Center		82601A	806	149			806	149
CO	Denver	Univ CO HSC Spitz Psych Hospital	CYI	80262C	650	67	78	0	728	67
CO	Pueblo	CO Mental Health Inst Pueblo	CQH	81003A	530	596	144	52	674	648
CO	Denver	Association of Operating Room Nurses	DNF	80231A	488	2,630	137	1,169	625	3,799
WY	Cheyenne	Univ WY Fam Pract Res Prog Cheyenne		82001A	599	230			599	230
CO	CO Sprgs	U.S. Olympic Committee	USO	80909B	67	339	496	945	563	1,284
CO	Gr Junct	Community Hospital		81501F	556	24			556	24
WY	Casper	Univ WY Fam Pract Res Prog Casper		82601C	521	175			521	175
WY	Jackson	St. John's Hospital		83001A	492	71			492	71
CO	Longmont	Longmont United Hospital		80502A	449	0			449	71
WY	Gillette	Campbell County Memorial Hospital		82716A	401	75			401	75
CO	Thornton	North Suburban Medical Center		80229C	395	2			395	2
CO	Englewood	Medical Group Management Assoc	DNG	80222A	235	106	35	0	270	106
WY	Cheyenne	VA Medical Center - Cheyenne		82001C	257	580			257	580
WY	Rock Sprgs	Memorial Hospital Sweetwater County		82901A	252	18			252	18
CO	Denver	CO Mental Health Inst Fort Logan		80236A	247	372			247	372
		Library A	XXX	00000A	138	0	88	0	226	0
CO	Pueblo	St. Mary-Corwin Reg Med Ctr		81004A	114	8			114	8
CO	Aurora	TRICARE Support Office		80045B	96	68			96	68
WY	Sheridan	Whedon Cancer Foundation		82801D	87	16			87	16
CO	Fort Lyon	VA Medical Center - Fort Lyon		81038A	52	240			52	240
CO	Gr Junct	VA Medical Center - Grand Junction		81501A	28	433			28	433
TOTALS FOR PRIMARY ACCESS LIBRARIES:					46,745	32,774	4,574	4,037	51,319	36,882
PERCENT OF TOTAL FOR DOCLINE/OCLC ACTIVITY:					91.09%	88.86%	8.91%	10.95%		
OTHER CCML LIBRARIES:					3,904	749	0	0	3,904	749
TOTALS FOR ALL PRIMARY ACCESS LIBRARIES:					50,649	33,523	4,574	4,037	55,223	37,631
UNIVERSITY LIBRARIES										
WY	Laramie	University of Wyoming	WYU	82071A	337	2,101	10,347	11,942	10,684	14,043
CO	Greeley	University of Northern Colorado	COV	80639A	0	0	7,488	11,557	7,488	11,557
CO	Pueblo	University of Southern Colorado	COS	81001A	0	473	4,703	3,456	4,703	3,929
CO	Denver	Univ CO Health Sciences Center	COU	80262A	3,938	9,066	574	3,228	4,512	12,294
TOTALS FOR UNIVERSITY LIBRARIES					4,275	11,640	23,112	30,183	27,387	41,823
PERCENT OF TOTAL FOR DOCLINE/OCLC ACTIVITY:					15.61%	27.83%	84.39%	72.17%		
GRAND TOTAL:					54,924	45,163	27,686	34,220	82,610	79,454
PERCENT OF TOTAL FOR DOCLINE/OCLC ACTIVITY:					66.49%	56.84%	33.51%	43.07%		

1997 CCML INTERLIBRARY LOAN SURVEY
TOTAL DOCLINE AND OCLC COMBINED
SORTED BY NUMBER OF ITEMS LENT (F)

				A	B	C	D	E	F	
				BORROWED	LOANED	BORROWED	LOANED	BORROWED	LOANED	
				DOCLINE	DOCLINE	OCLC	OCLC	TOTAL	TOTAL	
STATE	CITY	INSTITUTION NAME	OCLC	DOCLINE						
		PRIMARY ACCESS LIBRARIES	CODE	LIBID						
CO	Denver	Association of Operating Room Nurses	DNF	80231A	488	2,630	137	1,169	625	3,799
CO	Denver	Denver Health Medical Center	CYD	80204A	1,820	2,703	439	207	2,259	2,910
CO	CO Sprgs	Penrose/St. Francis Health Services	CYG	80907B	1,036	2,796	154	94	1,190	2,890
CO	Englewood	Swedish Medical Center	DNS	80110A	2,538	2,107	140	150	2,678	2,257
CO	CO Sprgs	Memorial Hospital	CYE	80909A	2,788	2,141	346	111	3,134	2,252
CO	Denver	Children's Hospital	CYB	80218A	1,665	1,805	361	324	2,026	2,129
CO	Wheat Ridge	Lutheran Medical Center	DND	80033A	1,719	1,728	109	314	1,828	2,042
CO	Denver	Denv Med Libr Pres/St. Luke's Med Ctr	DMJ	80218B	1,756	1,710	213	0	1,969	1,710
CO	Denver	Porter Adventist Hospital	DVH	80210A	1,821	1,334	189	349	2,010	1,683
CO	Denver	National Jewish Med Res Ctr	DNB	80206B	1,993	1,491	164	133	2,157	1,624
CO	Denver	Exempla St. Joseph Hospital	DNJ	80218C	3,783	1,301	100	56	3,883	1,357
CO	CO Sprgs	U.S. Olympic Committee	USO	80909B	67	339	496	945	563	1,284
CO	Fort Carson	Evans Army Community Hospital	AMB	80913A	1,078	992	115	91	1,193	1,083
CO	Gr Junct	St. Mary's Hospital & Medical Center	XVY	81502A	1,495	1,063	113	7	1,608	1,070
CO	Lakewood	AMC Cancer Research Center	CYA	80214A	2,298	1,052	424	3	2,722	1,055
CO	Denver	Centura St. Anthony Hospital		80204C	1,699	1,048			1,699	1,048
CO	Denver	VA Medical Center - Denver		80220E	1,722	1,000			1,722	1,000
CO	Pueblo	CO Mental Health Inst Pueblo	CQH	81003A	530	596	144	52	674	648
		Library B	XXX	00000B	1,037	636	12	0	1,049	636
WY	Cheyenne	VA Medical Center - Cheyenne		82001C	257	580			257	580
CO	Ft. Collins	Poudre Valley Hospital	CO5	80521B	1,221	506	77	4	1,298	510
CO	Gr Junct	VA Medical Center - Grand Junction		81501A	28	433			28	433
CO	Denver	CO Mental Health Inst Fort Logan		80236A	247	372			247	372
CO	Aurora	Medical Ctr of Aurora-North Campus		80011A	2,207	371			2,207	371
CO	Greeley	North Colorado Medical Center	CYF	80631B	1,016	361	27	0	1,043	361
CO	Pueblo	Parkview Episcopal Medical Center	CQE	81003C	1,088	289	613	28	1,701	317
CO	Fort Lyon	VA Medical Center - Fort Lyon		81038A	52	240			52	240
WY	Cheyenne	Univ WY Fam Pract Res Prog Cheyenne		82001A	599	230			599	230
WY	Casper	Univ WY Fam Pract Res Prog Casper		82601C	521	175			521	175
WY	Casper	Wyoming Medical Center		82601A	806	149			806	149
CO	Englewood	Medical Group Management Assoc	DNG	80222A	235	106	35	0	270	106
CO	Boulder	Boulder Community Hospital		80302D	1,701	100			1,701	100
WY	Gillette	Campbell County Memorial Hospital		82716A	401	75			401	75
WY	Jackson	St. John's Hospital		83001A	492	71			492	71
CO	Longmont	Longmont United Hospital		80502A	449	0			449	71
CO	Aurora	TRICARE Support Office		80045B	96	68			96	68
CO	Denver	Univ CO HSC Spitz Psych Hospital	CYI	80262C	650	67	78	0	728	67
WY	Casper	Ivinson Memorial Hospital		82070A	820	41			820	41
CO	Gr Junct	Community Hospital		81501F	556	24			556	24
WY	Rock Sprgs	Memorial Hospital Sweetwater County		82901A	252	18			252	18
WY	Sheridan	Whedon Cancer Foundation		82801D	87	16			87	16
CO	Pueblo	St. Mary-Corwin Reg Med Ctr		81004A	114	8			114	8
CO	Thornton	North Suburban Medical Center		80229C	395	2			395	2
CO	Durango	Mercy Medical Center		81301B	984	0			984	0
		Library A	XXX	00000A	138	0	88	0	226	0
TOTALS FOR PRIMARY ACCESS LIBRARIES:					46,745	32,774	4,574	4,037	51,319	36,882
PERCENT OF TOTAL FOR DOCLINE/OCLC ACTIVITY:					91.09%	88.86%	8.91%	10.95%		
OTHER CCML LIBRARIES:					3,904	749	0	0	3,904	749
TOTALS FOR ALL PRIMARY ACCESS LIBRARIES:					50,649	33,523	4,574	4,037	55,223	37,631
UNIVERSITY LIBRARIES										
WY	Laramie	University of Wyoming	WYU	82071A	337	2,101	10,347	11,942	10,684	14,043
CO	Greeley	University of Northern Colorado	COV	80639A	0	0	7,488	11,557	7,488	11,557
CO	Pueblo	University of Southern Colorado	COS	81001A	0	473	4,703	3,456	4,703	3,929
CO	Denver	Univ CO Health Sciences Center	COU	80262A	3,938	9,066	574	3,228	4,512	12,294
TOTALS FOR UNIVERSITY LIBRARIES					4,275	11,640	23,112	30,183	27,387	41,823
PERCENT OF TOTAL FOR DOCLINE/OCLC ACTIVITY:					15.61%	27.83%	84.39%	72.17%		
GRAND TOTAL:					54,924	45,163	27,686	34,220	82,610	79,454

1997 CCML INTERLIBRARY LOAN SURVEY
TOTAL OCLC STATISTICS
SORTED BY % OF BORROWING ACTIVITY (F)

TABLE 3

OCLC/DOCLINE CODE LIBID	A		B		C		D		E		F		G		H		I		J		K		L			
	CCML BORROWS	% CCML BORROWS	CCML BORROWS	% CCML BORROWS	OTHER BORROWS	COLORADO BORROWS	OUT-OF STATE BORROWS	OUT-OF STATE BORROWS	TOTAL BORROWS	% OF TOTAL BORROWS	CCML LOANS	% CCML LOANS	COLORADO LOANS	OTHER LOANS	OUT-OF STATE LOANS	OUT-OF STATE LOANS	TOTAL LOANS	% OF TOTAL LOANS	CCML LOANS	% CCML LOANS	COLORADO LOANS	OTHER LOANS	OUT-OF STATE LOANS	OUT-OF STATE LOANS	TOTAL LOANS	% OF TOTAL LOANS
PRIMARY ACCESS LIBRARIES																										
Parkview Episcopal Medical Center	110	11.32%	204	299	613	13.40%																				
USO 80909B	70	7.20%	226	200	496	10.84%																				
Denver Health Medical Center	114	11.73%	198	127	439	9.60%																				
CYA 80214A	63	6.48%	293	68	424	9.27%																				
AMC Cancer Research Center	97	9.98%	156	108	361	7.89%																				
Children's Hospital	83	8.54%	119	144	346	7.56%																				
Memorial Hospital	66	6.79%	104	43	213	4.66%																				
Deny Med Libr Pres/St. Luke's Med Ctr	58	5.97%	97	34	189	4.13%																				
Porter Adventist Hospital	36	3.70%	58	70	164	3.59%																				
National Jewish Med Res Ctr	43	4.42%	72	39	154	3.37%																				
Penrose/St. Francis Health Services	36	3.70%	68	40	144	3.15%																				
CO Mental Health Inst Pueblo	19	1.95%	83	38	140	3.06%																				
Swedish Medical Center	14	1.44%	83	40	137	3.00%																				
Association of Operating Room Nurses	21	2.16%	53	41	115	2.51%																				
Evans Army Community Hospital	11	1.13%	62	40	113	2.47%																				
St. Mary's Hospital & Medical Center	26	2.67%	37	46	109	2.38%																				
Lutheran Medical Center	34	3.50%	46	20	100	2.19%																				
Exempla St. Joseph Hospital	7	0.72%	77	4	88	1.92%																				
Library A	12	1.23%	55	11	78	1.71%																				
Univ CO HSC Spitz Psych Hospital	30	3.09%	21	26	77	1.68%																				
Poudre Valley Hospital	4	0.41%	9	22	35	0.77%																				
Medical Group Management Assoc	15	1.54%	10	2	27	0.59%																				
North Colorado Medical Center	3	0.31%	4	5	12	0.26%																				
Library B	972	21.25%	2,135	1,467	4,574																					
PERCENTAGE OF TOTAL (Columns E and K)			46.68%	32.07%																						
UNIVERSITY LIBRARIES																										
WYU 82071A	722	26.18%	2,906	6,719	10,347	44.77%																				
Univ of Wyoming	1,234	44.74%	3,438	2,816	7,488	32.40%																				
Univ of Northern Colorado	744	26.98%	2,362	1,597	4,703	20.35%																				
Univ of Southern Colorado	58	2.10%	248	268	574	2.48%																				
Univ of Colorado Health Sciences Center	2,758	8.954	8,954	11,400	23,112																					
PERCENTAGE OF TOTAL (Columns E and K)			38.74%	49.33%																						
ALL LIBRARIES	3,730	11.089	11,089	12,867	27,686																					
PERCENTAGE OF TOTAL (Columns E and K)			40.05%	46.47%																						
PERCENTAGE OF TOTAL (Columns E and K)			10.91%	37.69%																						
PERCENTAGE OF TOTAL (Columns E and K)			21.13%	45.85%																						
PERCENTAGE OF TOTAL (Columns E and K)			33.02%	45.85%																						
PERCENTAGE OF TOTAL (Columns E and K)			9.55%	36.60%																						
PERCENTAGE OF TOTAL (Columns E and K)			3.734	12.898																						
PERCENTAGE OF TOTAL (Columns E and K)			10.91%	37.69%																						
PERCENTAGE OF TOTAL (Columns E and K)			853	1,851	4,037																					
PERCENTAGE OF TOTAL (Columns E and K)			21.13%	45.85%																						
PERCENTAGE OF TOTAL (Columns E and K)			993	6,321	11,942																					
PERCENTAGE OF TOTAL (Columns E and K)			1,165	3,075	11,557																					
PERCENTAGE OF TOTAL (Columns E and K)			310	1,013	3,456																					
PERCENTAGE OF TOTAL (Columns E and K)			413	638	3,228																					
PERCENTAGE OF TOTAL (Columns E and K)			2,881	11,047	30,183																					
PERCENTAGE OF TOTAL (Columns E and K)			9.55%	36.60%																						
PERCENTAGE OF TOTAL (Columns E and K)			3.734	12.898																						
PERCENTAGE OF TOTAL (Columns E and K)			10.91%	37.69%																						

TABLE 3

1997 CCML INTERLIBRARY LOAN SURVEY
DOCLINE SUMMARY STATISTICS
SORTED BY INSTITUTION

STATE	CITY	LIBID	INSTITUTION	BORROWING				LENDING				I	J
				A	B	C	D	E	F	G	H		
				Total Requests Entered	Total Requests Entered and Filled	Total Requests Entered and Not Filled	Percentage of Requests Not Filled	Percentage of Group's Total Unfilled Requests	Total Requests Received	Total Requests Received and Filled	Percentage of Requests not Filled	Number Removed for non-receipt	Percent of Request Filled
COLORADO PRIMARY ACCESS LIBRARIES													
CO	Denver	80214A	AMC Cancer Research Center	2377	2300	89	3.74%	1.99%	1109	1052	5.14%	6	94.35%
CO	Aurora	80231A	Association of Operating Room Nurses	504	488	14	2.78%	0.31%	2190	2641	5.34%	15	94.15%
CO	Boulder	80302D	Boulder Community Hospital	1724	1701	29	1.68%	0.65%	127	100	21.26%	47	57.47%
CO	Denver	80204C	Centura St Anthony Hospital Systems	2046	1699	348	17.01%	7.18%	1164	1048	9.97%	6	89.57%
CO	Denver	80218A	Children's Hospital	1753	1665	94	5.36%	2.10%	1974	1807	8.46%	2	91.45%
CO	Denver	80236A	CO Mental Health Inst At Ft Logan	451	247	180	41.38%	4.02%	577	372	35.53%	96	55.27%
CO	Pueblo	81003A	CO Mental Health Inst At Pueblo	575	530	35	6.13%	0.78%	653	596	8.73%	4	90.72%
CO	Grand Junc	81501F	Community Hospital	680	556	123	18.09%	2.75%	24	24	0.00%	27	47.06%
CO	Denver	80204A	Denver Health Medical Center	2219	1820	400	18.03%	8.94%	3011	2703	10.23%	183	84.63%
CO	Denver	80218B	Denver Medical Library @ Pres/St. Luke's	1852	1756	96	5.18%	2.15%	2169	1710	21.16%	629	61.17%
CO	Ft. Carson	80913A	Evans Army Community Hospital	1111	1078	33	2.97%	0.74%	1180	992	15.93%	16	82.94%
CO	Wheat Ridge	80033A	Exempla Lutheran Medical Center	1945	1866	84	4.32%	1.88%	2234	1728	22.65%	3	77.25%
CO	Denver	80218C	Exempla St Joseph Hospital	3888	3783	98	2.52%	2.19%	1457	1301	10.71%	39	86.97%
CO	Denver	00000A	Library A	142	138	5	3.52%	0.11%	108	95	12.04%	65	54.91%
CO	Longmont	00000B	Library B	1077	1037	47	4.36%	1.05%	718	636	11.42%	479	53.13%
CO	Aurora	80502A	Longmont United Hospital	510	449	74	14.51%	1.65%	0	0	0.00%	0	0.00%
CO	Englewood	80222A	Medical Center of Aurora - North Campus	2518	2207	310	12.31%	6.93%	403	371	7.94%	27	86.28%
CO	CO Springs	80909A	Memorial Hospital	2906	2788	100	3.44%	2.24%	2404	2141	10.94%	6	88.84%
CO	Durango	81301B	Mercy Medical Center	1024	984	27	2.64%	0.60%	0	0	0.00%	0	0.00%
CO	Denver	80206B	National Jewish Res Med Ctr	2088	1993	96	4.60%	2.15%	1779	1491	16.19%	11	83.30%
CO	Greeley	80631B	North Colorado Medical Center	1021	1016	21	2.06%	0.47%	408	361	11.52%	53	78.31%
CO	Thornton	80229C	North Suburban Medical Center	414	395	19	4.59%	0.42%	2	2	0.00%	0	100.00%
CO	Pueblo	81003C	Parkview Episcopal Medical Center	1548	1088	461	29.78%	10.30%	351	289	17.66%	23	77.27%
CO	CO Springs	80907B	Penrose/St. Francis Health Services	1067	1036	31	2.91%	0.69%	2977	2796	6.08%	21	93.26%
CO	Denver	80210A	Porter Adventist Hospital	1901	1821	108	5.68%	2.41%	1451	1334	8.06%	28	90.20%
CO	Ft. Collins	80521B	Poudre Valley Hospital	1283	1223	81	6.31%	1.81%	583	506	13.21%	30	82.54%
CO	Pueblo	81004A	St. Mary-Corwin Reg Med Ctr	113	114	10	8.85%	0.22%	14	8	42.86%	186	4.00%
CO	Grand Junc	81502A	St. Mary's Hospital & Medical Center	1558	1495	67	4.30%	1.30%	1166	1063	8.83%	5	90.78%
CO	Englewood	80110A	Swedish Medical Center	2633	2538	109	4.14%	2.44%	2625	2107	19.73%	134	76.37%
CO	Aurora	80045B	TRICARE Support Office	102	96	6	5.88%	0.13%	78	68	12.82%	55	51.13%
CO	CO Springs	80909B	U.S. Olympic Committee	69	67	2	2.90%	0.04%	412	339	17.72%	87	67.94%
CO	Denver	80262C	Univ of CO Spitz Psych Hospital	716	650	65	9.08%	1.45%	93	67	27.96%	10	63.05%
CO	Ft. Lyon	81038A	VA Medical Center - Ft. Lyon	1857	1722	138	7.43%	3.08%	1183	1001	15.38%	169	74.04%
CO	Grand Junc	81501A	VA Medical Center - Grand Junction	38	28	10	26.32%	0.60%	268	240	10.45%	274	44.28%
WYOMING PRIMARY ACCESS LIBRARIES													
WY	Gillette	82716A	Campbell County Memorial Hospital	466	401	64	13.73%	1.43%	121	75	38.02%	68	39.68%
WY	Cheyenne	82001A	Univ WY Fam Pract Res Prgm - Cheyenne	634	599	35	5.52%	0.78%	240	230	4.17%	19	88.80%
WY	Laramie	82070A	Ivins Memorial Hospital	851	820	31	3.64%	0.69%	95	41	56.84%	114	19.62%
WY	Rock Spres	82901A	Memorial Hospital Sweetwater County	263	252	13	4.94%	0.29%	33	18	45.45%	9	39.42%
WY	Jackson	83001A	St. John's Hospital	614	492	124	20.20%	2.77%	108	71	34.26%	52	21.18%
WY	Cheyenne	82001C	VA Medical Center - Cheyenne	290	257	34	11.72%	0.76%	669	580	13.30%	79	77.54%
WY	Sheridan	82801D	Wheaton Cancer Detection Foundation	87	87	0	0.00%	0.00%	18	17	5.56%	0	0.00%
WY	Casper	82601C	Univ WY Fam Pract Res Prgm - Casper	543	521	22	4.05%	0.49%	329	175	46.81%	11	51.47%
WY	Casper	82601A	Wyoming Medical Center	883	806	48	5.44%	1.07%	201	149	25.87%	83	52.10%
UNIVERSITIES													
CO	Denver	80262A	Univ of Colorado Health Sciences Center	4387	4108	290	6.61%	6.48%	11257	9099	19.17%	21	80.68%
CO	Pueblo	81001A	Univ of Southern Colorado	0	0	0	0.00%	0.00%	486	473	2.67%	136	76.05%
WY	Laramie	82071A	Univ of Wyoming - HSIN	368	337	32	8.70%	0.72%	3033	2101	30.73%	3	69.20%

**1997 CCML INTERLIBRARY LOAN SURVEY
DOCLINE NET LENDER/NET BORROWER DETERMINATION (D)
BORROWING AND LENDING WITHIN CCML ONLY
(EXCLUDING THE FOUR UNIVERSITY LIBRARIES)**

				A	B	C	D	E	
				BORROWED(B)	LOANED(L)	B+L	B/(B+L)	(B+L)	
				CCML ONLY	CCML ONLY			/(BT+LT)	
STATE	CITY	INSTITUTION NAME	OCLC CODE	DOCLINE LIBID	DOCLINE BORROWS	DOCLINE LOANS			
CO	Gr Junct	VA Medical Center - Grand Junction		81501A	6	232	238	0.03	0.40%
CO	Denver	Association of Operating Room Nurses	DNF	80231A	308	2132	2440	0.13	4.12%
CO	CO Sprgs	U.S. Olympic Committee	USO	80909B	45	255	300	0.15	0.51%
CO	CO Sprgs	Penrose/St. Francis Health Services	CYG	80907B	610	2760	3370	0.18	5.69%
CO	Fort Lyon	VA Medical Center - Fort Lyon		81038A	40	150	190	0.21	0.32%
WY	Cheyenne	VA Medical Center - Cheyenne		82001C	127	463	590	0.22	1.00%
CO	Denver	National Jewish Med Res Ctr	DNB	80206B	770	1430	2200	0.35	3.72%
CO	Denver	CO Mental Health Inst Fort Logan		80236A	218	367	585	0.37	0.99%
CO	Denver	Denver Health Medical Center	CYD	80204A	1599	2687	4286	0.37	7.24%
CO	Pueblo	CO Mental Health Inst Pueblo	CQH	81003A	354	586	940	0.38	1.59%
CO	Gr Junct	St. Mary's Hospital & Medical Center	XVY	81502A	576	922	1498	0.38	2.53%
CO	Englewood	Swedish Medical Center	DNS	80110A	1282	2010	3292	0.39	5.56%
CO	Denver	Children's Hospital	CYB	80218A	874	1277	2151	0.41	3.63%
CO	Denver	Denv Med Libr Pres/St. Luke's Med Ctr	DMJ	80218B	1207	1635	2842	0.42	4.80%
CO	Wheat Ridge	Lutheran Medical Center	DND	80033A	1260	1678	2938	0.43	4.96%
CO	Denver	Porter Adventist Hospital	DVH	80210A	1050	1258	2308	0.45	3.90%
CO	CO Sprgs	Memorial Hospital	CYE	80909A	1777	2072	3849	0.46	6.50%
CO	Fort Carson	Evans Army Community Hospital	AMB	80913A	687	713	1400	0.49	2.36%
WY	Casper	Univ WY Fam Pract Res Prog Casper		82601C	171	172	343	0.50	0.58%
		Library B	XXX	00000B	632	627	1259	0.50	2.13%
					NET LENDERS -- UP FROM HERE				
					NET BORROWERS -- DOWN FROM HERE				
CO	Denver	Centura St. Anthony Hospital		80204C	1203	1033	2236	0.54	3.78%
CO	Aurora	TRICARE Support Office		80045B	77	63	140	0.55	0.24%
WY	Cheyenne	Univ WY Fam Pract Res Prog Cheyenne		82001A	268	207	475	0.56	0.80%
CO	Denver	VA Medical Center - Denver		80220E	1039	795	1834	0.57	3.10%
CO	Lakewood	AMC Cancer Research Center	CYA	80214A	1453	932	2385	0.61	4.03%
CO	Englewood	Medical Group Management Assoc	DNG	80222A	166	97	263	0.63	0.44%
CO	Ft. Collins	Poudre Valley Hospital	CO5	80521B	897	500	1397	0.64	2.36%
CO	Greeley	North Colorado Medical Center	CYF	80631B	697	353	1050	0.66	1.77%
CO	Denver	Exempla St. Joseph Hospital	DNJ	80218C	2492	1237	3729	0.67	6.30%
WY	Casper	Wyoming Medical Center		82601A	412	144	556	0.74	0.94%
CO	Pueblo	Parkview Episcopal Medical Center	CQE	81003C	823	272	1095	0.75	1.85%
WY	Gillette	Campbell County Memorial Hospital		82716A	218	63	281	0.78	0.47%
WY	Rock Sprgs	Memorial Hospital Sweetwater County		82901A	83	18	101	0.82	0.17%
CO	Aurora	Medical Ctr of Aurora-North Campus		80011A	1967	371	2338	0.84	3.95%
WY	Casper	Iverson Memorial Hospital		82070A	212	37	249	0.85	0.42%
CO	Denver	Univ CO HSC Spitz Psych Hospital	CYI	80262C	354	54	408	0.87	0.69%
WY	Jackson	St. John's Hospital		83001A	350	52	402	0.87	0.68%
WY	Sheridan	Whedon Cancer Foundation		82801D	49	6	55	0.89	0.09%
CO	Boulder	Boulder Community Hospital		80302D	1029	99	1128	0.91	1.90%
CO	Pueblo	St. Mary-Corwin Reg Med Ctr		81004A	93	8	101	0.92	0.17%
CO	Gr Junct	Community Hospital		81501F	510	24	534	0.96	0.90%
CO	Thornton	North Suburban Medical Center		80229C	289	2	291	0.99	0.49%
		Library A	XXX	00000A	88	0	88	1.00	0.15%
CO	Longmont	Longmont United Hospital		80502A	360	0	360	1.00	0.61%
CO	Durango	Mercy Medical Center		81301B	703	0	703	1.00	1.19%
BORROWING TOTAL (BT)/LENDING TOTAL (LT):					29425	29793	59218		
OTHER CCML LIBRARIES:					1423	1055	2478		
TOTALS FOR ALL PRIMARY ACCESS LIBRARIES:					30848	30848	61696		

**1997 CCML INTERLIBRARY LOAN SURVEY
TOTAL NET LENDER/NET BORROWER DETERMINATION (D)
DOCLINE AND OCLC STATISTICS WITHIN CCML ONLY
(EXCLUDING THE FOUR UNIVERSITY LIBRARIES)**

STATE	CITY	INSTITUTION NAME	OCLC CODE	DOCLINE LIBID	A	B	C	D	E
					BORROWED(B) CCML ONLY DOCLINE & OCLC BORROWS	LOANED(L) CCML ONLY DOCLINE & OCLC LOANS	B+L	B/(B+L)	(B+L) /(BT+LT)
PRIMARY ACCESS LIBRARIES									
CO	Gr Junct	VA Medical Center - Grand Junction		81501A	6	232	238	0.03	0.40%
CO	Denver	Association of Operating Room Nurses	DNF	80231A	310	2,165	2,475	0.13	4.14%
CO	CO Sprgs	U.S. Olympic Committee	USO	80909B	50	278	328	0.15	0.55%
CO	CO Sprgs	Penrose/St. Francis Health Services	CYG	80907B	630	2,782	3,412	0.18	5.70%
CO	Fort Lyon	VA Medical Center - Fort Lyon		81038A	40	150	190	0.21	0.32%
WY	Cheyenne	VA Medical Center - Cheyenne		82001C	127	463	590	0.22	0.99%
CO	Denver	National Jewish Med Res Ctr	DNB	80206B	777	1,461	2,238	0.35	3.74%
CO	Denver	CO Mental Health Inst Fort Logan		80236A	218	367	585	0.37	0.98%
CO	Pueblo	CO Mental Health Inst Pueblo	CQH	81003A	359	591	950	0.38	1.59%
CO	Denver	Denver Health Medical Center	CYD	80204A	1,641	2,698	4,339	0.38	7.25%
CO	Gr Junct	St. Mary's Hospital & Medical Center	XVY	81502A	580	922	1,502	0.39	2.51%
CO	Englewood	Swedish Medical Center	DNS	80110A	1,285	2,018	3,303	0.39	5.52%
CO	Denver	Children's Hospital	CYB	80218A	899	1,332	2,231	0.40	3.73%
CO	Wheat Ridge	Lutheran Medical Center	DND	80033A	1,267	1,713	2,980	0.43	4.98%
CO	Denver	Denv Med Libr Pres/St. Luke's Med Ctr	DMJ	80218B	1,237	1,635	2,872	0.43	4.80%
CO	Denver	Porter Adventist Hospital	DVH	80210A	1,085	1,283	2,368	0.46	3.96%
CO	CO Sprgs	Memorial Hospital	CYE	80909A	1,815	2,094	3,909	0.46	6.53%
CO	Fort Carson	Evans Army Community Hospital	AMB	80913A	696	729	1,425	0.49	2.38%
WY	Casper	Univ WY Fam Pract Res Prog Casper		82601C	171	172	343	0.50	0.57%
		Library B	XXX	00000B	633	627	1,260	0.50	2.11%
					NET LENDERS -- UP FROM HERE				
					NET BORROWERS -- DOWN FROM HERE				
CO	Denver	Centura St. Anthony Hospital		80204C	1,203	1,033	2,236	0.54	3.74%
CO	Aurora	TRICARE Support Office		80045B	77	63	140	0.55	0.23%
WY	Cheyenne	Univ WY Fam Pract Res Prog Cheyenne		82001A	268	207	475	0.56	0.79%
CO	Denver	VA Medical Center - Denver		80220E	1,039	795	1,834	0.57	3.06%
CO	Lakewood	AMC Cancer Research Center	CYA	80214A	1,461	932	2,393	0.61	4.00%
CO	Englewood	Medical Group Management Assoc	DNG	80222A	167	97	264	0.63	0.44%
CO	Ft. Collins	Poudre Valley Hospital	CO5	80521B	913	500	1,413	0.65	2.36%
CO	Greeley	North Colorado Medical Center	CYF	80631B	701	353	1,054	0.67	1.76%
CO	Denver	Exempla St. Joseph Hospital	DNJ	80218C	2,505	1,260	3,765	0.67	6.29%
WY	Casper	Wyoming Medical Center		82601A	412	144	556	0.74	0.93%
CO	Pueblo	Parkview Episcopal Medical Center	CQE	81003C	858	276	1,134	0.76	1.89%
WY	Gillette	Campbell County Memorial Hospital		82716A	218	63	281	0.78	0.47%
WY	Rock Sprgs	Memorial Hospital Sweetwater County		82901A	83	18	101	0.82	0.17%
CO	Aurora	Medical Ctr of Aurora-North Campus		80011A	1,967	371	2,338	0.84	3.91%
WY	Casper	Iverson Memorial Hospital		82070A	212	37	249	0.85	0.42%
CO	Denver	Univ CO HSC Spitz Psych Hospital	CYI	80262C	357	54	411	0.87	0.69%
WY	Jackson	St. John's Hospital		83001A	350	52	402	0.87	0.67%
WY	Sheridan	Whedon Cancer Foundation		82801D	49	6	55	0.89	0.09%
CO	Boulder	Boulder Community Hospital		80302D	1,029	99	1,128	0.91	1.88%
CO	Pueblo	St. Mary-Corwin Reg Med Ctr		81004A	93	8	101	0.92	0.17%
CO	Gr Junct	Community Hospital		81501F	510	24	534	0.96	0.89%
CO	Thornton	North Suburban Medical Center		80229C	289	2	291	0.99	0.49%
		Library A	XXX	00000A	88	0	88	1.00	0.15%
CO	Longmont	Longmont United Hospital		80502A	360	0	360	1.00	0.60%
CO	Durango	Mercy Medical Center		81301B	703	0	703	1.00	1.17%
BORROWING TOTAL (BT)/LENDING TOTAL (LT):					29,738	30,106	59844		
OTHER CCML LIBRARIES:					1,423	1,055	2478		
TOTALS FOR ALL PRIMARY ACCESS LIBRARIES:					31,161	31,161	62322		

DOCLINE ONLY
ANALYSIS OF GEOGRAPHIC SOURCE OF MATERIAL BORROWED AND LOANED IN 1997
INCLUDING BORROWED IN 1992

PRIMARY ACCESS LIBRARIES	A 1992	B % Total	C 1997	D % Total	E 1997	F % Total	LIBID	RESOURCE LIBRARY NAME
	----- BORROWED -----			--- LOANED ---				
LOCAL PARTICIPANTS			29,425		29,793			
LOCAL ANONYMOUS			1,423		1,055			
TOTAL CO-WY BORROWED WITHIN GROUP	36,473	68%	30,848	61%	30,848	91%		
% of change:			-18%					
IN-STATE RESOURCE LIBRARIES								
COLORADO	5,662		5,976		783		80262A	University of CO Health Sci Ctr
WYOMING			719		107		82071A	University of Wyoming
% of change:	5,662	11%	6,695	13%	890	3%		
% of change:			15%					
IN-REGION RESOURCE LIBRARIES								
MISSOURI			317		0		63104C	Saint Louis University
			1,727		0		63110B	Washington University
			801		0		65212A	University of Missouri-Columbia
KANSAS			658		93		66103B	University of Kansas
NEBRASKA			602		67		68105B	University of Nebraska Med Ctr
			280		0		68178A	Creighton University
UTAH			623		0		84112A	University of Utah
% of change:	4,657	9%	5,008	10%	160	0%		
% of change:			7%					
NATIONAL LIBRARY OF MEDICINE	2,088	4%	1,919	4%	0	0%	20209A	NLM
% of change:			-9%					
ALL OTHER LIBRARIES FROM NATIONAL DOCLINE ROUTING TABLE	4,839	9%	6,179	12%	2,098	6%		
Libraries Accessed: Borrowing: 317; Lending: 364								
% of change:			22%					
PRIMARY ACCESS LIBRARIES TOTAL:	53,719	100%	50,649	100%	33,996	100%		
% of change:			-6%					
UNIVERSITIES OF COLORADO AND WYOMING FROM CCML LIBRARIES			889	21%	6,695	60%		
IN-REGION RESOURCE LIBRARIES								
MISSOURI			180		342		63104C	Saint Louis University
			636		308		63110B	Washington University
			80		64		65212A	University of Missouri-Columbia
KANSAS			169		109		66103B	University of Kansas
NEBRASKA			313		894		68105B	University of Nebraska Med Ctr
			12		133		68178A	Creighton University
COLORADO			281		14		80262A	University of CO Health Sci Ctr
WYOMING			14		281		82071A	University of Wyoming
UTAH			62		6		84112A	University of Utah
% of change:			1,747	41%	2,151	19%		
NLM			292	7%	0	0%	20209A	NLM
ALL OTHER LIBRARIES FROM NATIONAL DOCLINE ROUTING TABLE								
University of CO Health Sci Ctr			1,280		1,798			
University of Wyoming			67		523			
% of change:			1,347	32%	2,321	21%		
UNIVERSITIES OF CO AND WY - TOTAL:			4,275	100%	11,167	100%		
TOTAL FOR ALL ACTIVITY (TABLE 1):			54,924		45,163			

**1997 CCML INTERLIBRARY LOAN SURVEY
REASONS FOR THE
DECREASE IN ILL ACTIVITY 1992 - 1997**

LIBRARIES WITH A GREATER THAN 30% CHANGE IN ACTIVITY					
PART 1			% of	% of Total	
BORROWING			Change +/-	Change	
	92 B	97 B			
80110A	Fitzsimons Army Med Ctr	4,451	0	Closed	-36.68%
80204A	Swedish Medical Center	4,789	2,678	-79%	-17.40%
80011A	U.S. Olympic Committee	1,736	563	-208%	-9.67%
80045A	Mercy Medical Center	1,157	0	Closed	-9.53%
80909A	St. Mary-Corwin Reg Med Ctr	1,237	114	-985%	-9.25%
81003C	Memorial Hospital	4,095	3,134	-31%	-7.92%
80210A	Penrose/St. Francis Health Services	2,017	1,190	-69%	-6.81%
80206B	Medical Ctr of Aurora-North Campus	3,032	2,207	-37%	-6.80%
80907B	Denv Med Libr Pres/St. Luke's Med Ctr	2,662	1,969	-35%	-5.71%
80033A	North Colorado Medical Center	1,556	1,043	-49%	-4.23%
	Library X	499	175	-185%	-2.67%
	Library Z	251	53	-374%	-1.63%
	Library Y	470	353	-33%	-0.96%
80045B	TRICARE Support Office	21	96	78%	0.62%
80226B	Association of Operating Room Nurses	398	625	36%	1.87%
81501A	Univ CO HSC Spitz Psych Hospital	312	728	57%	3.43%
80222C	Boulder Community Hospital	1,127	1,701	34%	4.73%
81038A	AMC Cancer Research Center	1,676	2,722	38%	8.62%
	Totals:	31,486	19,351	-63%	
	Total Change:			-12,135	

PART 2					
LENDING			% of	% of Total	
			Change +/-	Change	
	92 L	97 L			
80110A	Fitzsimons Army Med Ctr	5488	0	closed	-254.66%
80206A	Evans Army Community Hospital	1996	1083	-84%	-42.37%
80045A	Mercy Medical Center	903	0	closed	-41.90%
80302D	National Jewish Med Res Ctr	2154	1624	-33%	-24.59%
81038A	AMC Cancer Research Center	1568	1055	-49%	-23.81%
80220E	Medical Group Management Assoc	342	106	-223%	-10.95%
80909A	St. Mary-Corwin Reg Med Ctr	149	8	-1763%	-6.54%
81602A	VA Medical Center - Fort Lyon	328	240	-37%	-4.08%
	Library M	87	0	no loans	-4.04%
80045B	TRICARE Support Office	115	68	-69%	-2.18%
81501A	Univ CO HSC Spitz Psych Hospital	90	67	-34%	-1.07%
80222C	Boulder Community Hospital	37	100	63%	2.92%
	Library O	1	109	99%	5.01%
	Library N	61	214	71%	7.10%
80909B	VA Medical Center - Grand Junction	120	433	72%	14.52%
80011A	U.S. Olympic Committee	595	1284	54%	31.97%
	Totals:	8546	6391	-34%	
	Total Change:			-2155	

PART 3 : PERCENTAGE OF CHANGE IN GEOGRAPHIC PATTERNS (from Table 7)				
PRIMARY ACCESS LIBRARIES				
BORROWING	1992	% Total	1997	% Total
BORROWED WITHIN PALs GROUP	36,473	68%	30,848	61%
% of change:			-18%	
IN-STATE RESOURCE LIBRARIES	5,662	11%	6,695	13%
% of change:			15%	
IN-REGION RESOURCE LIBRARIES	4,657	9%	5,008	10%
% of change:			7%	
NATIONAL LIBRARY OF MEDICINE	2,088	4%	1,919	4%
% of change:			-9%	
ALL OTHER LIBRARIES	4,839	9%	6,179	12%
% of change:			22%	
TOTAL:	53,719	100%	50,649	100%
% of change:			-6%	

1997 CCML INTERLIBRARY LOAN SURVEY
 IMPACT OF UNFILLED DOCLINE REQUESTS
 SORTED ON IMPACT (E)

STATE	CITY	INTITUTION NAME	LIBID	A Items Requested	B Requests Not Filled	C Percentage of Library's Requests not Filled (B/A)	D Percentage of Group's Total Unfilled requests (B/BT)	E Impact: Number not Filled x Percentage not Filled (B x C)	F Impact: Number not Filled x Percentage of All Unfilled Requests (B x D)
COLORADO PRIMARY ACCESS LIBRARIES									
CO	Pueblo	Parkview Episcopal Medical Center	81003C	1548	461	29.78%	10.30%	137.29	47.50
CO	Denver	CO Mental Health Inst at Ft Logan	80236A	435	180	41.38%	4.02%	74.48	7.24
CO	Denver	Denver Health Medical Center	80204A	2219	400	18.03%	8.94%	72.10	35.76
CO	Denver	St Anthony Hospital Systems	80204C	2046	348	17.01%	7.78%	59.19	27.07
CO	Aurora	Med Ctr of Aurora - North Campus	80011A	2518	310	12.31%	6.93%	38.17	21.48
CO	Grand Junction	Community Hospital	81501F	680	123	18.09%	2.75%	22.25	3.38
CO	Denver	Univ of CO Health Sciences Center	80262A	4387	290	6.61%	6.48%	19.17	18.80
CO	Longmont	Longmont United Hospital	80502A	510	74	14.51%	1.65%	10.74	1.22
CO	Denver	VA Medical Center - Denver	80220E	1857	138	7.43%	3.08%	10.26	4.26
CO	Ft. Lyon	VA Medical Center - Ft. Lyon	81038A	79	27	34.18%	0.60%	9.23	0.16
CO	Denver	Porter Adventist Hospital	80210A	1901	108	5.68%	2.41%	6.14	2.61
CO	Denver	Univ of CO Spitz Psych Library	80262C	716	65	9.08%	1.45%	5.90	0.94
CO	Fl Collins	Poudre Valley Hospital	80521B	1283	81	6.31%	1.81%	5.11	1.47
CO	Denver	Children's Hospital	80218A	1753	94	5.36%	2.10%	5.04	1.97
CO	Denver	Denver Med Library AT Pres/St. Luke's	80218B	1852	96	5.18%	2.15%	4.98	2.06
CO	Englewood	Swedish Medical Center	80110A	2633	109	4.14%	2.44%	4.51	2.66
CO	Denver	National Jewish Res and Medical Ctr	80206B	2088	96	4.60%	2.15%	4.41	2.06
CO	Wheat Ridge	Exempla Lutheran Medical Center	80033A	1945	84	4.32%	1.88%	3.63	1.58
CO	CO Springs	Memorial Hospital	80909A	2906	100	3.44%	2.24%	3.44	2.24
CO	Denver	AMC Cancer Research Center	80214A	2377	89	3.74%	1.99%	3.33	1.77
CO	Grand Junct	St Mary's Hospital	81502A	1558	67	4.30%	1.50%	2.88	1.00
CO	Grand Junct	VA Medical Center - Grand Junction	81501A	38	10	26.32%	0.22%	2.63	0.02
CO	Denver	Exempla St Joseph Hospital	80218C	3888	98	2.52%	2.19%	2.47	2.15
CO	Englewood	Medical Group Management Assoc	80222A	260	25	9.62%	0.56%	2.40	0.14
CO	Pueblo	CO Mental Health Inst at Pueblo	81003A	571	35	6.13%	0.78%	2.15	0.27
		Library B	00000B	1077	47	4.36%	1.05%	2.05	0.49
CO	Ft. Carson	Evans Army Community Hospital	80913A	1111	33	2.97%	0.74%	0.98	0.24
CO	CO Springs	Penrose/St. Francis Health Services	80907B	1067	31	2.91%	0.69%	0.90	0.21
CO	Pueblo	St Mary-Corwin Hospital	81004A	113	10	8.85%	0.22%	0.88	0.02
CO	Thornton	North Suburban Medical Center	80229C	414	19	4.59%	0.42%	0.87	0.08
CO	Durango	Mercy Medical Center	81301B	1024	27	2.64%	0.60%	0.71	0.16
CO	Boulder	Boulder Community Hospital	80302D	1724	29	1.68%	0.65%	0.49	0.19
CO	Greeley	North Colorado Medical Center	80631B	1021	21	2.06%	0.47%	0.43	0.10
CO	Aurora	Association of Operating Room Nurses	80231A	504	14	2.78%	0.31%	0.39	0.04
CO	Aurora	TRICARE Support Office	80045B	102	6	5.88%	0.13%	0.35	0.01
		Library A	00000A	142	5	3.52%	0.11%	0.18	0.01
CO	CO Springs	U.S. Olympic Committee	80909B	69	2	2.90%	0.04%	0.06	0.00
WYOMING PRIMARY ACCESS LIBRARIES									
WY	Jackson	St John's Hospital	83001A	614	124	20.20%	2.77%	25.04	3.44
WY	Gillette	Campbell County Memorial Hospital	82716A	466	64	13.73%	1.43%	8.79	0.92
WY	Cheyenne	VA Medical Center - Cheyenne	82001C	290	34	11.72%	0.76%	3.99	0.26
WY	Laramie	University of Wyoming - HSIN	82071A	368	32	8.70%	0.72%	2.78	0.23
WY	Casper	Wyoming Medical Center	82601A	883	48	5.44%	1.07%	2.61	0.51
WY	Cheyenne	Univ WY Fam Pract Res Prog - Cheyenne	82001A	634	35	5.52%	0.78%	1.93	0.27
WY	Laramie	Ivinson Memorial Hospital	82070A	851	31	3.64%	0.69%	1.13	0.21
WY	Casper	Univ WY Fam Pract Res Prog - Casper	82601C	543	22	4.05%	0.49%	0.89	0.11
WY	Rock Sprgs	Memorial Hospital of Sweetwater Cty	82901A	263	13	4.94%	0.29%	0.64	0.04
WY	Sheridan	Whedon Cancer Detection Foundation	82801D	87	0	0.00%	0.00%	0.00	0.00
XX		Other CCML Libraries		4255	319	7.50%	7.13%	23.92	22.74
				AT	BT				
				59670	4474				
		TOTALS:							
		AVERAGES:				8.97%	2.08%	12.33	4.59

1997 CCML INTERLIBRARY LOAN SURVEY
 IMPACT OF NOT RECEIPTING ROUTED DOCLINE REQUESTS
 SORTED ON COLUMN E

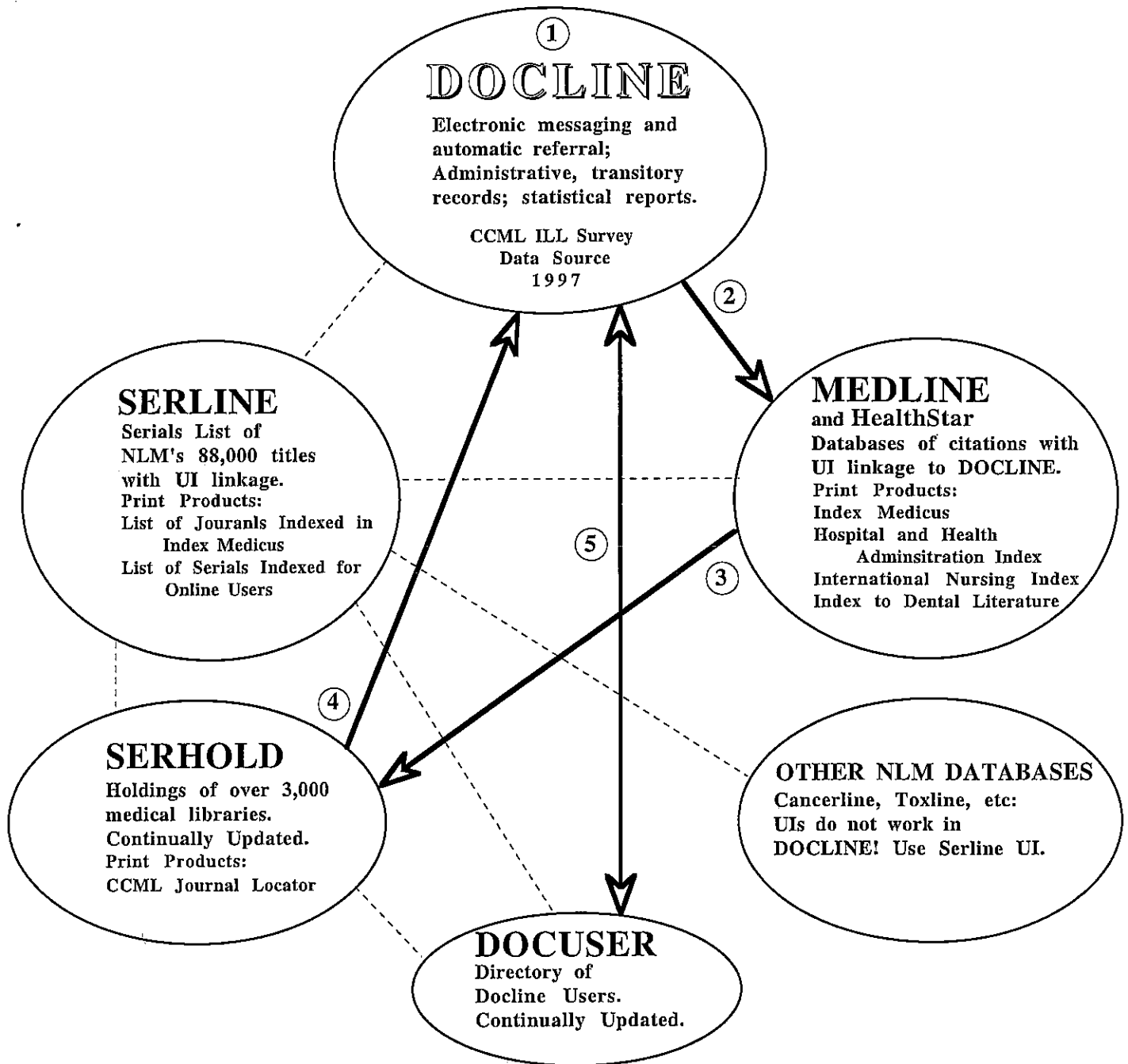
STATE	CITY	INSTITUTION NAME	LIBID	A Requests Received	B Received Requests Filled	C Requests not Received	D Impact: Percentage of Routed Requests Not Received C/A+C	E Impact: Not Received as a Percentage of Group's Total Routed Requests C/AT+CT
COLORADO PRIMARY ACCESS LIBRARIES								
CO	Denver	Denver Med Library at Pres/St. Luke's Library B	80218B	2,169 718	1,710 636	629 479	22.48% 40.02%	1.2210% 0.9298%
CO	Ft. Lyon	VA Medical Center - Ft Lyon	81038A	268	240	274	50.55%	0.5319%
CO	Pueblo	St Mary-Corwin Hospital	81004A	14	8	186	93.00%	0.3611%
CO	Denver	Denver Health Medical Center	80204A	3,011	2,703	183	5.73%	0.3552%
CO	Denver	VA Medical Center - Denver	80220B	1,183	1,001	169	12.50%	0.3281%
CO	Pueblo	University of Southern Colorado	81001A	486	473	136	21.86%	0.2640%
CO	Englewood	Swedish Medical Center	80110A	2,625	2,107	134	4.86%	0.2601%
CO	Denver	CO Mental Health Inst at Ft Logan	80236A	577	372	96	14.26%	0.1863%
CO	CO Springs	U.S. Olympic Committee Library A	80909B	412 108	339 95	87 65	17.43% 37.57%	0.1689% 0.1262%
CO	Englewood	Medical Group Management Assoc	80222A	139	106	59	29.80%	0.1145%
CO	Aurora	TRICARE Support Office	80045B	78	68	55	41.35%	0.1068%
CO	Greeley	North Colorado Medical Center	80631B	408	361	53	11.50%	0.1029%
CO	Boulder	Boulder Community Hospital	80302D	127	100	47	27.01%	0.0912%
CO	Denver	Exempla St Joseph Hospital	80218C	1,457	1,301	39	2.61%	0.0757%
CO	Ft. Collins	Poudre Valley Hospital	80521B	583	506	30	4.89%	0.0582%
CO	Denver	Porter Adventist Hospital	80210A	1,451	1,334	28	1.89%	0.0544%
CO	Grand Junct	Community Hospital	81501F	24	24	27	52.94%	0.0524%
CO	Aurora	Med Ctr of Aurora - North Campus	80011A	403	371	27	6.28%	0.0524%
CO	Pueblo	Parkview Episcopal Medical Center	81003C	351	289	23	6.15%	0.0446%
CO	CO Springs	Penrose/St. Francis Health Services	80907B	2,977	2,796	21	0.70%	0.0408%
CO	Denver	Univ CO Health Sciences Center	80262A	11,257	9,099	21	0.19%	0.0408%
CO	Ft. Carson	Evans Army Community Hospital	80913A	1,180	992	16	1.34%	0.0311%
CO	Denver	Association of Operating Room Nurses	80231A	2,790	2,641	15	0.53%	0.0291%
CO	Denver	National Jewish Res and Med Ctr	80206B	1,779	1,491	11	0.61%	0.0214%
CO	Denver	Univ of CO Spitz Psych Library	80262C	93	67	10	9.71%	0.0194%
CO	Grand Junct	VA Medical Center - Grand Junction	81501A	476	433	9	1.86%	0.0175%
CO	Lakewood	AMC Cancer Research Center	80214A	1,109	1,052	6	0.54%	0.0116%
CO	Denver	Centura St Anthony Hospital	80204C	1,164	1,048	6	0.51%	0.0116%
CO	CO Springs	Memorial Hospital	80909A	2,404	2,141	6	0.25%	0.0116%
CO	Grand Junct	St Mary's Hospital & Medical Center	81502A	1,166	1,063	5	0.43%	0.0097%
CO	Pueblo	CO Mental Health Inst at Pueblo	81003A	653	596	4	0.61%	0.0078%
CO	Wheat Ridge	Exempla Lutheran Medical Center	80033A	2,234	1,728	3	0.13%	0.0058%
CO	Denver	Children's Hospital	80218A	1,974	1,807	2	0.10%	0.0039%
CO	Thornton	North Suburban Medical Center	80229C	2	2	0	0.00%	0.0000%
COLORADO PRIMARY ACCESS LIBRARIES								
WY	Laramie	University of Wyoming - HSIN	82071A	3,033	2,101	934	23.54%	1.8130%
WY	Casper	Univ WY Fam Pract Res Prog Casper	82601C	329	175	154	31.88%	0.2989%
WY	Cheyenne	VA Medical Center - Cheyenne	82001C	669	580	88	11.62%	0.1708%
WY	Laramie	Iverson Memorial Hospital	82070A	95	41	49	34.03%	0.0951%
WY	Casper	Wyoming Medical Center	82601A	201	149	48	19.28%	0.0932%
WY	Gillette	Campbell County Memorial Hospital	82716A	121	75	36	22.93%	0.0699%
WY	Jackson	St John's Hospital	83001A	108	71	36	25.00%	0.0699%
WY	Rock Sprgs	Memorial Hospital of Sweetwater Cty	82901A	33	18	13	28.26%	0.0252%
WY	Cheyenne	Univ WY Fam Pract Res Prog Cheyenne	82001A	240	230	10	4.00%	0.0194%
WY	Sheridan	Whedon Cancer Detection Foundation	82801D	18	17	1	5.26%	0.0019%
		Other CCML Libraries		440	340	265	37.59%	0.5144%
				AT	BT	CT		
		TOTALS:		53,137	44,897	4,595		
		MEDIANS:		486	433	36	9.71%	0.0699%
		AVERAGES:		1,131	955	98	16.29%	0.1898%

1997 CCML INTERLIBRARY LOAN SURVEY
REPORT OF OTHER DATA COLLECTED
SORTED BY INSTITUTION NAME

HOSPITAL LIBRARIES		OCLC DOCLINE BORROWED		LOANED		NUMBER OF		SUBSCRIPTION		YEARS		FTE's, PAID &	
STATE	CITY	INSTITUTION NAME	CODE	LIBID	TOTAL	TOTAL	SUBSCRIPTIONS	EXPENSES	RETAINED	BACK	VOLUMES	FTE's, PAID &	VOLUNTEER
CO	Boulder	Boulder Community Hospital	80302D	1,701	100	68	68	\$12,200	5	1,984	1,984	0.5	1
WY	Gillette	Campbell County Memorial Hospital	82716A	401	75	125	125	\$16,000	5				1
CO	Denver	Centura St. Anthony Hospital	80204C	1,699	1,048	215	215	\$40,000	15	3,800	3,800	2	2
CO	Denver	Children's Hospital	80218A	2,026	2,129	300	300	\$73,000		7,500	7,500	3	3
CO	Gr. Junc.	Community Hospital	81501F	556	24	52	52	\$5,054	10				2
CO	Denver	Denv Med Lib Pres/St. Luke's Med Ctr	80218B	1,969	1,710	385	385	\$82,000	100	40,000	40,000	6	6
CO	Denver	Denver Health Medical Center	80204A	2,259	2,910	220	220	\$54,000	20	7,400	7,400	2	2
CO	Fort Carson	Evans Army Community Hospital	80913A	1,193	1,083	342	342	\$58,000	10				3
CO	Denver	Exempla St. Joseph Hospital	80218C	3,883	1,357	160	160	\$24,400	10	2,500	2,500	3.65	1
WY	Casper	Iverson Memorial Hospital	82070A	820	41	32	32	\$4,619	5				1
CO		Library B	XXXX	1,049	636	203	203	\$40,000	20	2,700	2,700	1	1
CO	Longmont	Longmont United Hospital	80502A	449	100	75	75	\$1,000	2				0.5
CO	Wheat Ridge	Lutheran Medical Center	80033A	1,828	2,042	250	250	\$52,000	10	6,000	6,000	3.5	3
CO	Aurora	Medical Ctr of Aurora-North Campus	80011A	2,207	371	72	72	\$12,767	5	1,760	1,760	1	1
CO	CO Sprgs	Memorial Hospital	80909A	3,134	2,252	343	343	\$68,000		26,000	26,000	2.5	2.5
WY	Rock Sprgs	Memorial Hospital Sweetwater County	82901A	252	18	120	120	\$15,000	5				1
CO	Durango	Mercy Medical Center	81301B	984	0	64	64	\$7,800	3				0.75
CO	Greeley	North Colorado Medical Center	80631B	1,043	361	150	150	\$30,000		5,000	5,000	1	1
CO	Thornton	North Suburban Medical Center	80229C	395	2	20	20	\$2,150		42	42	0.75	0.75
CO	Pueblo	Parkview Episcopal Medical Center	81003C	1,701	317	100	100	\$15,379					1
CO	CO Sprgs	Penrose/St. Francis Health Services	80907B	1,190	2,890	350	350	\$101,000	20	12,000	12,000	2	2
CO	Denver	Porter Adventist Hospital	80210A	2,010	1,683	284	284	\$46,636	20	6,056	6,056	1.3	1.3
CO	Ft. Collins	Poudre Valley Hospital	80521B	1,298	510	125	125	\$25,000	15				1.1
WY	Jackson	St. John's Hospital	83001A	492	71	100	100	\$13,000		50	50	0.5	0.5
CO	Gr Junc	St. Mary's Hospital & Medical Center	81502A	1,608	1,070	101	101	\$16,238					1.5
CO	Pueblo	St. Mary-Corwin Reg Med Ctr	81004A	114	8	123	123	\$15,000	6				1
CO	Englewood	Swedish Medical Center	80110A	2,678	2,257	350	350	\$79,000					1.75
WY	Cheyenne	VA Medical Center - Cheyenne	82001C	257	580	221	221	\$38,000	5				2.5
CO	Denver	VA Medical Center - Denver	80220E	1,722	1,000	272	272	\$54,247	10	3,000	3,000	2.25	2.25
CO	Fort Lyon	VA Medical Center - Fort Lyon	81038A	52	240	280	280	\$15,000					7
CO	Gr Junc	VA Medical Center - Grand Junction	81501A	28	433	119	119	\$25,506	7				10
WY	Casper	Wyoming Medical Center	82601A	806	149	150	150	\$47,000	7				1.25
	TOTAL			41,804	27,467	5,771	5,771	\$1,088,996	310	125,792	125,792	69.3	69.3
	AVERAGE (DIV BY 32)			1,306	858	180	180	\$34,031	10	3,931	3,931	2	2
SPECIAL LIBRARIES													
STATE	CITY	INSTITUTION NAME	CODE	LIBID	TOTAL	TOTAL	NUMBER OF	EXPENSES	RETAINED	BACK	VOLUMES	FTE's, PAID &	VOLUNTEER
CO	Lakewood	AMC Cancer Research Center	CYA	80214A	2,722	1,055	95	\$16,000					1.5
CO	Denver	Association of Operating Room Nurses	DNF	80231A	625	3,799	345	\$40,000		3,100	3,100	4	4
CO	Denver	CO Mental Health Inst Fort Logan	80236A	247	372	86	86	\$11,700					1.1
CO	Pueblo	CO Mental Health Inst Pueblo	CQH	81003A	674	648	100	\$14,920					2
CO		Library A	XXX	00000A	226	0	50	\$5,200	10				1
CO	Englewood	Medical Group Management Assoc	DNG	80222A	270	106	250	\$30,000	3				9
CO	Denver	National Jewish Med Res Ctr	DNB	80206B	2,157	1,624	241	\$107,000	20	10,000	10,000	3.5	3.5
CO	Aurora	TRICARE Support Office	80045B	96	68	410	410	\$59,000	1				1
CO	CO Sprgs	U.S. Olympic Committee	USO	80909B	563	1,284	570	\$33,000					3
CO	Denver	Univ CO HSC Spitz Psych Hospital	CYI	80262C	728	67	17	\$3,000	10	350	350	1	1
WY	Casper	Univ WY Fam Pract Res Prog Casper	82601C	521	175	48	48	\$6,500	10				1
WY	Cheyenne	Univ WY Fam Pract Res Prog Cheyenne	82001A	599	230	65	65	\$11,000	10				1
WY	Sheridan	Whedon Cancer Foundation	82801D	87	16	52	52	\$1,000					0.75
	TOTAL			9,515	9,444	2,329	2,329	\$336,920	64	13,450	13,450	29.85	29.85
	AVERAGE (DIV BY 13)			732	726	179	179	\$25,917	5	1,035	1,035	2	2

THE DOCLINE CONNECTION

Appendix A



- 1 - Access *DOCLINE*; Enter data using *MEDLINE* UI.
- 2 - Message goes to *MEDLINE*, where it finds the *MEDLINE* record containing a *SERLINE* UI.
- 3 - Message goes to *SERHOLD*, where it identifies the journal title, using the *SERLINE* UI. It checks the volume and year, and identifies the owners of the title.
- 4 - Message goes to *DOCLINE*, where it matches the owners list with the individual library's *DOCLINE* Routing Table and delivery options of Mail, Fax, or *Ariel*, based on *DOCUSER* data.
- 5 - Using *DOCUSER* data, *DOCLINE* transmits the request to the selected library.

Graphic by Rosalind F. Dudden, Nat'l Jewish Med. Res. Ctr. 1988; Rev 1991; Rev 1/1999.