



California Digital Library
Key Indicators of Collections and Use
January – December 2000

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1 Introduction

This report presents selected statistics for the scope and usage of CDL collections and services for the 2000 calendar year, and contrasts them, where possible, with similar metrics from 1999. Intended to support both CDL public information and operational planning, this document is analogous to, but importantly different from *the Statistical Profile of the California Digital Library; 1999*. That earlier report, the first of its kind for the CDL, attempted to comprehensively summarize CDL resources and usage, while the current report focuses on several key indicators.

While preparing the 1999 report the authors struggled to balance explanations of the complexity of the CDL resource environment with clear, succinct, summary measurements. Lessons from that exercise combine with at least the following reasons for changing to a key indicator approach:

- The difficulty of matching available statistics to useful collection and service categories when:
 - logging routines and reports were inherited by the CDL that were inconsistent in categorizing users affiliations and in aggregating, or not, across interfaces (telnet and web) and level of hosting (locally mounted databases versus Z39.50 access to databases);
 - new collections and services have been introduced, ongoing collections and services are rapidly evolving.
- Anomalies were created by the SearchLight service in usage logs for both CDL-hosted and externally-licensed content.
- Defining transitions for both the Melvyl Union Catalog and CDL-Hosted Databases that will radically change, for operational decision-making:
 - the sense and importance of location of CDL content and services;
 - the opportunities for measuring scope and usage.
- Challenges in the management of information about externally licensed resources due both to the distributed statistical collection program (through CDL resource liaisons) and to widely varying availability and content of vendor-supplied statistics.

Another important factor that influenced the move to key indicators has been informal tracking of the operational use of the 1999 report in contrast to requests for specific statistical information on an as-needed, ad hoc, basis. As confirmed by CDL Management, the 1999 statistical profile served light duty for operational support in contrast to ad hoc reporting and analysis.

The key indicators were selected for this report partly based upon their ability to indicate change from 1999 to 2000. Note that we have not performed statistical tests of significance on the magnitude of these changes and that we leave speculation about their causes to the reader. Still, we think it fair to say that there is evidence for the following overall trends:

- Modest growth in the amount of CDL-Hosted content
- A significant shift in usage patterns of CDL-Hosted content (primarily from telnet to web-based access)
- Significant growth in amount of licensed content made available through the CDL
- Significant growth in the use of that content, especially of e-journals
- Significant growth in the use of CDL services

2 Size and Scope of the CDL Collection

Listed below is the total number of resources accessible from the CDL Directory of Collections and Services. These totals include resources available to UC campuses due to consortial agreements and open access resources.

CDL Collection			
	Dec-99	Dec-00	% Growth
Ejournals Titles	4,827	5,493 ¹	13.80%
Ejournals available via links from citations in CDL locally mounted databases	2,432	3,334	37.09%
Reference Text	6	6	0.00%
Database ²	147	183	24.49%
Finding Aids	5244	5,801	10.62%
UC Press Books	55	60	9.09%

2.1 Bibliographic Databases/Reference Texts Records

Database Citations/Items			
	1999	2000	% Growth
Melvyl Union Catalog (CAT)	10,032,353	10,352,190	3.19%
California Periodicals (PE)	821,672	829,822	.99%
CDL Locally Mounted Databases	44,427,244	47,771,310	7.53%
Total	55,281,269	58,955,322	6.65%
External Vendor Data ³	210,858,237	226,108,970	7.23%
Grand Total	321,420,775	344,017,614	7.03%

¹ Of the 5,493 Ejournal Titles, 2060 (up from 1,909 last year) are titles whose text is available in ASCII via CDL locally mounted databases.

² In several cases "bibliographic databases" also contain full text items (e.g. GPO Gate, MAGS). These figures do not distinguish between item types in such mixed item databases

³ Data is drawn from the same 28 databases reporting

3 Content Utilization

3.1 Bibliographic Databases/Reference Texts Searches

Searches – Melvyl Catalog and California Periodical Titles			
	1999	2000	% Growth
Web	4,875,152	7,063,289	44.88%
Telnet	5,477,793	3,476,566	-36.53%

Searches - CDL Locally Mounted Databases ⁴			
	1999	2000	% Growth
Web	6,290,607	8,722,198	38.65%
Telnet	6,643,789	3,966,288	-42.56%

Searches CDL-hosted Databases		
Percent increase/decrease 1999 to 2000		
	Telnet	Web
UCB	-41%	65%
UCD	-42%	34%
UCI	-52%	39%
UCLA	-51%	43%
UCR	-51%	75%
UCSD	-44%	18%
UCSF	-40%	28%
UCSB	-53%	55%
UCSC	-56%	Not available
Other UC and Non-UC Locations	-33%	50%

Searches: External Database Vendors⁵		
1999	2000	% Growth
2,029,543	3,505,705	72.73%

⁴ Does not include Melvyl and California Periodicals Titles databases

⁵ Data drawn from the same 38 databases reporting

3.2 *Ejournals Number of Articles Viewed*

Articles Viewed : Journal Publisher (8 of 18 major publishers reporting)			
	1999	2000	% Growth
Elsevier Science Direct ⁶ [PDF+HTML]	212,676	788,274	270.65%
American Chemical Society Journals [PDF+HTML]	231,671	339,798	46.67%
Science [Full text HTML + PDF]	215,745	310,274	43.82%
Journal of Biological Chemistry [Full text HTML + PDF]	150,689	209,603	39.10%
Proceedings of the National Academy of Sciences [Full text HTML + PDF]	109,472	199,693	82.41%
JSTOR [jprint+PDF+PS+articles viewed]	183,201	390,686	113.26%
Project Muse [articles viewed]	27,063	67,283	148.62%
Society for Industrial and Applied Mathematics [titles viewed]	3,084	8,507	175.84%

3.3 *Finding Aids Searches*

Finding aids are the inventories and registers of collections of primary source materials held by libraries, museums, historical societies and other institutions. The Online Archive of California (OAC) collection includes finding aids to repositories/collections from over 45 institutions across California.

Finding Aids Searches ⁷		
1999	2000	% Growth
63,795	98,789	55%

3.4 *CDL Directory Sessions*⁸

CDL Directory Sessions ⁹		
1999 (March and November)	2000 (March and November)	% Growth
133,475	253,012	90%

⁶ Missing July-December 1999 and October 2000.

⁷ The number of searches refers to the total number of searches across or within finding aids. July 1999 and October 2000 searches were not available; the data for those months were derived from average monthly percent increases.

⁸ The CDL Directory statistics program reports visits, which are defined as recording "a unique host active during the period of an hour." We consider each visit to be equivalent to a session.

⁹ There are only partial data for the months of March and November 1999 (due to logging program errors). Data for those months were derived from the daily averages.

4 Service Utilization

The figures in this section reflect usage of CDL-hosted databases (locally mounted and those accessible via z39.50).

4.1 Display Command

Display Command			
	Jul-Dec 1999	Jul-Dec 2000	% Growth
Web	6,942,573	7,095,251	2%
Telnet	4,677,581	2,855,401	-39%

4.2 Print/Mail/Save/Download Commands

Print/Mail/Save/Download Command			
	Jul-Dec 1999	Jul-Dec 2000	% Growth
Web	639,898	607,463	-5%
Telnet	383,366	214,089	-44%

4.3 Web Interface Profile

Profile is a tool that allows patrons to set up personal preferences (such as preferred library location, display settings, and default database) when using CDL-hosted databases such as the Melvyl Catalog, the California Periodicals Titles database and many journal article databases.

Number of Profiles		
Nov-99	Nov-00	% Growth
27,000	29,000	7%

4.4 Update

The Update feature allows users to create and retrieve automatic weekly updates of searches in the Melvyl Catalog and most CDL-hosted Databases. The results contain records that have been added to the system in the previous week, allowing users to continue to receive new records for the same search(es).

Number of Updates			
	1999 (yearly average)	2000 (sample from Nov)	% Growth
Web	2,100	5,229	149%
Telnet	5,500	4,030	-27%

4.5 Web Interface Request

The Request feature allows users to automatically place an online, interlibrary request for materials found in the Melvyl Catalog and many of the CDL-hosted Databases.

Number of Requests¹⁰		
1999	2000	% Growth
35,858	116,655	225.32%

Usage by Patron Type¹¹			
	1999	2000	% Growth
Faculty	9,606	36,795	283.04%
Graduate	15,514	48,621	213.40%
Undergraduate	0 ¹²	3,426 ¹³	
Staff	3,623	12,585	247.36%
Unknown	7,115	15,228	114.03%
TOTAL	35,858	116,655	225.32%

¹⁰ Total number of Request orders submitted, includes successful and unsuccessful orders

¹¹ Figures reflect the total number of Request orders submitted, includes successful and unsuccessful orders

¹² Unavailable for undergraduates in 1999

¹³ Available for undergraduates only Sep-Dec 2000