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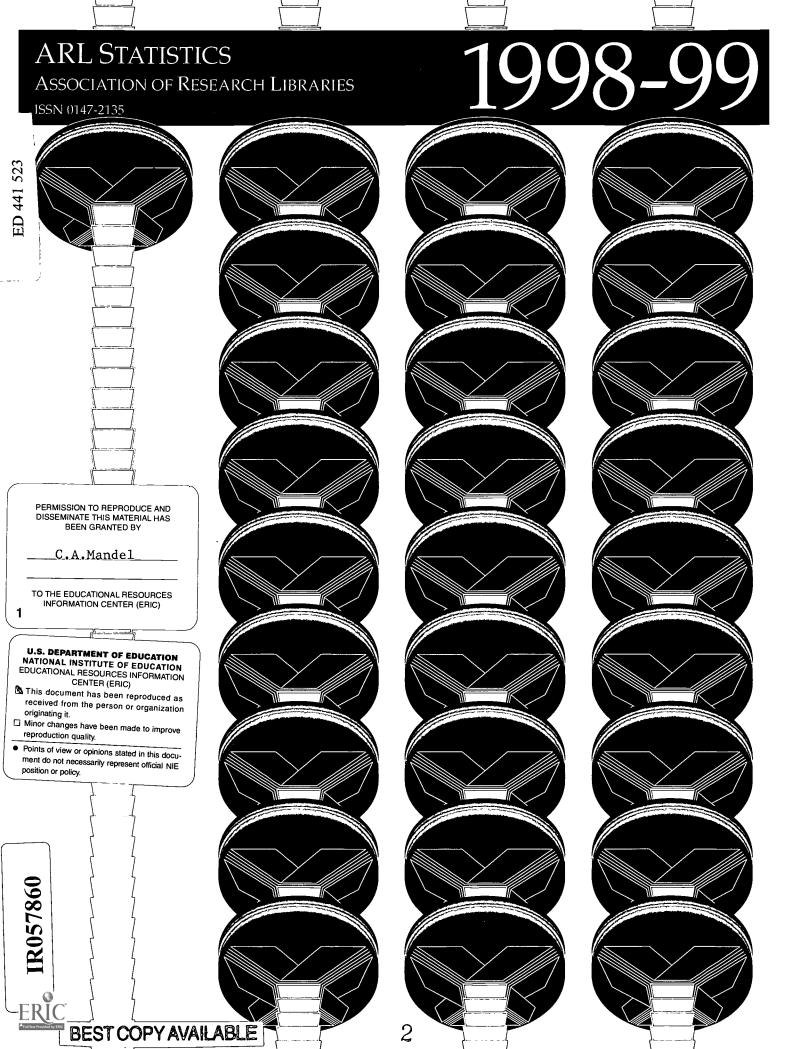
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ABSTRACT

"ARL Statistics 1998-99" is the latest in a series of annual publications that describe collections, staffing, expenditures, and service activities for the 121 member libraries of the Association of Research Libraries (ARL). The first section of the report includes several illustrative charts and discusses service trends; the decline of ownership, and monograph and serial costs in ARL libraries (1986-1999); the promise of access, and supply and demand in ARL libraries (1986-1999); expenditure trends in ARL libraries (1986-1999); and resources per student in ARL libraries (1986-1999). The body of the publication consists of ARL library data tables for 1998-99 that provide statistics and summary data on collections, expenditures, and personnel and public services. An analysis of selected variables of ARL university libraries for 1998-99 and Ph.D., faculty, and enrollment statistics are given, followed by rank order tables of university libraries for 1998-99. The ARL Statistics Questionnaire, footnotes to the ARL statistics, and a list of ARL member libraries are included at the end of the document. (Contains 75 references.) (AEF)





ARL STATISTICS 1998-99

A COMPILATION OF STATISTICS
FROM THE ONE HUNDRED AND TWENTY-ONE MEMBERS OF THE
ASSOCIATION OF RESEARCH LIBRARIES



Compiled and Edited by

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ASSOCIATION OF RESEARCH LIBRARIES Washington, D.C. 2000



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The following datafiles with accompanying documentation are available from the ARL Publications Office for \$15.00 each:

- Research Library Statistics, 1907-08 through 1991-92____
- ARL Statistics 1992-93
- ARL Statistics 1993-94
- ARL Statistics 1994-95
- ARL Statistics 1995-96
- ARL Statistics 1996-97
- ARL Statistics 1997-98
- ARL Statistics 1998-99

The quantitative rank order tables presented in this publication are not indicative of performance and outcomes and should not be used as measures of library quality. In comparing any individual library to ARL medians or to other ARL members, one must be careful to make such comparisons within the context of differing institutional and local goals and characteristics.

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The paper used in this publication meets the minimum requirements of American National Standard for Information Sciences—Permanence of Paper for Printed Library Materials, ANSI Z39.48-1992.

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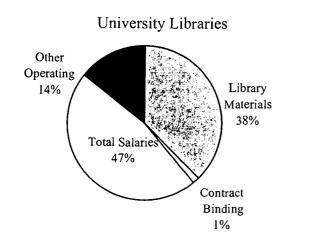
Introduction

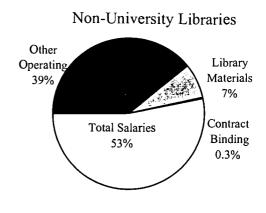
ARL Statistics 1998-99 is the latest in a series of annual publications that describe collections, staffing, expenditures, and service activities for the 121 member libraries of the Association of Research Libraries (ARL). Of these, 111 are university libraries; the remaining 10 are public, governmental, and private research libraries. A complete list of the ARL member libraries is provided as Appendix A. ARL member libraries are the largest research libraries in North America, representing 15 Canadian and 106 U.S. research institutions. The academic libraries, which comprise about 92% of the membership, include 13 Canadian and 98 U.S. libraries.

Statistics have been collected and published annually for the members of the Association of Research Libraries since 1961-62, and the data are available through a WWW interactive interface.¹ Prior to 1961-62, annual statistics for university libraries were collected by James Gerould, who was first at Minnesota and later at Princeton.² These data, covering the years 1907-08 through 1961-62, are now called the Gerould statistics.³ The whole data series from 1908 to the present represents the oldest and most comprehensive continuing library statistical series in North America. Machine readable datafiles dating from 1908 are available on the ARL ftp server.⁴ For more information on the electronic editions of the ARL Statistics, see page 21.

ARL libraries are a relatively small subset of the research libraries in North America, but they do account for a large portion of academic library resources in terms of assets, budgets, and the number of users they serve. The total library expenditures of all 121 member libraries in 1998-99 was more than \$2.7 billion; from that, a bit more than \$2 billion was spent by the 111 university libraries and \$633 million by the 11 nonuniversity libraries.

EXPENDITURE DISTRIBUTION FOR UNIVERSITY AND NONUNIVERSITY LIBRARIES, 1998-99





^{4 &}lt;http://www.arl.org/stats/arlstat/mrstat.html>



^{1 &}lt;a href="http://fisher.lib.virginia.edu/newarl/">http://fisher.lib.virginia.edu/newarl/

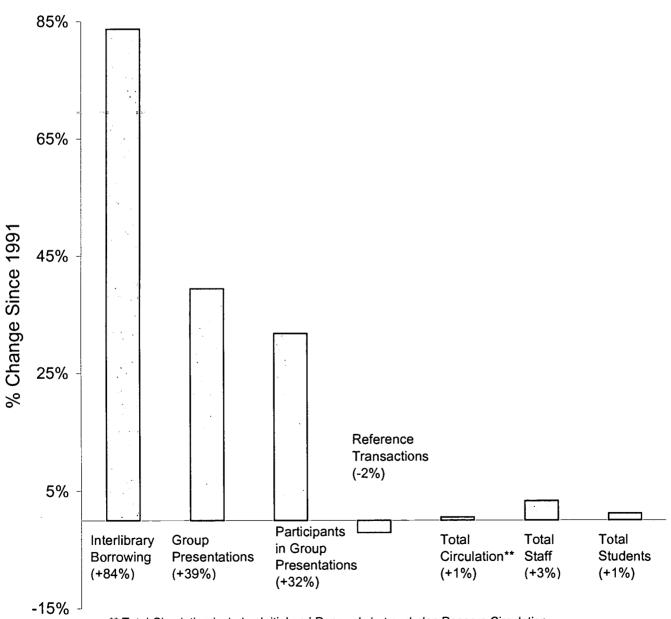
² Kendon L. Stubbs and Robert E. Molyneux, *Research Library Statistics 1907-08 through 1987-88* (Washington: Association of Research Libraries, 1990).

³ Robert E. Molyneux, *The Gerould Statistics 1907/08-1961/62*. (Washington, DC: Association of Research Libraries, 1986). http://fisher.lib.virginia.edu/gerould/index.html

SERVICE TRENDS

The success of an academic library is dependent not only on the information resources it owns or licenses but also on the services it provides. ARL collects data about public service activities such as circulations (initial and total), reference transactions, library instruction (group presentations and participants in these presentations), and interlibrary borrowing and lending (see Table 1). These data, rather than being comprehensive for the range of user-initiated library activities, represent select service areas. Readers should be cautious when they use these data for comparisons across institutions because local policies can influence the level of service activities. For example, loan periods, which are usually determined by local policies, vary widely among libraries; thus, a library with a shorter loan-period will report a larger number of circulation transactions than will a library with a longer loan period, other things being equal.

Graph 1
Service Trends in ARL Libraries, 1991-1999







-8

With this in mind, it is useful to look at the trends of these select services assuming that those changes in policies and other conditions affecting measurement of services are random rather than systematic in one direction or another. Table 1 indicates that there was a significant increase in the total number of services delivered to users from 1991 to 1996 with no parallel staff increases. Starting in 1998 reference and circulation service transactions dropped back to the 1991 levels of activity; in 1999 library instruction dropped both in terms of group presentations and participants in groups presentations this year; whereas interlibrary borrowing continues to grow more or less at the same rate.

Table 1
Service Trends in ARL Libraries, 1991-1999
Median Values for Time-Series Trends

Year	Interlibrary Borrowing	Group Presentations	Participants In Group Presentations	Reference Transactions	Total Circulation	Total Staff	Total Students
(No. of Libraries)	(106)	(87)	(85)	(83)	(87)	(106)	(106)
1991	10,342	512	7,151	131,441	501,128	271	18,290
1992	11,318	535	7,383	132,574	536,039	267	18,273
1993	12,486	620	7,752	139,044	559,383	263	18,450
1994	13,996	569	7,936	152,706	570,671	266	18,287
1995	14,403	683	8,527	149,326	575,731	267	18,089
1996	15,259	713	8,449	157,275	556,658	265	18,269
1997	16,362	731	9,124	154,668	519,954	273	18,063
1998	17,684	722	9,511	132,850	497,286	275	18,245
1999	18,997	714	9,426	128,696	503,853	280	18,502
Average annual percent change	7.9%	4.2%	3.5%	-0.3%	0.1%	0.4%	0.1%

Regarding the decline of the number of reference transactions, a variety of explanations have been voiced in the field. The 1991-1996 increases heightened the pressure of providing reference service, which may have negatively impacted services especially in those libraries where there was no parallel increase in the staffing levels. Many libraries are making a concerted effort to examine the changing user needs that impact reference services in general. Heavy users of library materials and services may make fewer trips to the library than was the case before the availability of online catalogs, remote access to indexing and abstracting databases, and electronic full-text resources. Often, though, those people who do show up at the library or reference desk require more assistance than before. At the same time, electronic and email reference are adding another dimension to the growing complexity of responding to reference questions. Libraries have instituted initiatives with a deliberate emphasis on direct contact between subject specialists and departments (shifting research consultation activity away from desk-based service). Thus, a simple count where each reference question gets a single "tally" cannot capture the varying dimensions and growing complexities of reference services. While patterns of behavior are changing and there is a slight decline in reference transactions, the overall numbers are still substantial, about 130,000 questions per year for the median ARL library.



Demand for library user education and interlibrary borrowing has been high over the last few years. In only six years, instructional sessions (group presentations) have risen by 39%, participants in these sessions by 32%, and interlibrary borrowing by 84%. Library instruction declined slightly this year compared to last year, possibly as a function of the introduction of distance learning technologies in the delivery of library instruction.

Perhaps of most interest is the fact that, by 1999, more than one out of every four instructional sessions conducted in a typical ARL library had been added since 1991. The typical ARL library offered over 714 "teaching" sessions in 1998-99. If we assume that each session was at least an hour long, then, on average, the typical library offered the equivalent of 16 three-hour credit courses last year. Each course was attended on average by 13 people with a median number of 9,400 people receiving formal education through library instruction in a typical ARL library.

THE DECLINE OF OWNERSHIP

While the demand for library instruction and interlibrary borrowing is increasing drastically, library budgets are struggling to keep up with serial and monograph cost increases (See Graph 2). As serial prices grow, libraries must spend rapidly increasing amounts of money to sustain their serial subscriptions (See Graph 4). Monographic acquisitions also indicate a similar pattern, with slightly lower cost increases compared to serials, but larger declines in acquisition rates. At the same time, services such as interlibrary loan are used more heavily, as shown in Graph 3, "Supply and Demand." Consequently, "Resources per Student" are reduced, while service activity is increasing, as is shown in Graph 5.

Table 2
Monograph and Serial Costs in ARL Libraries, 1986-1999
Median Values for Time-Series Trends⁵

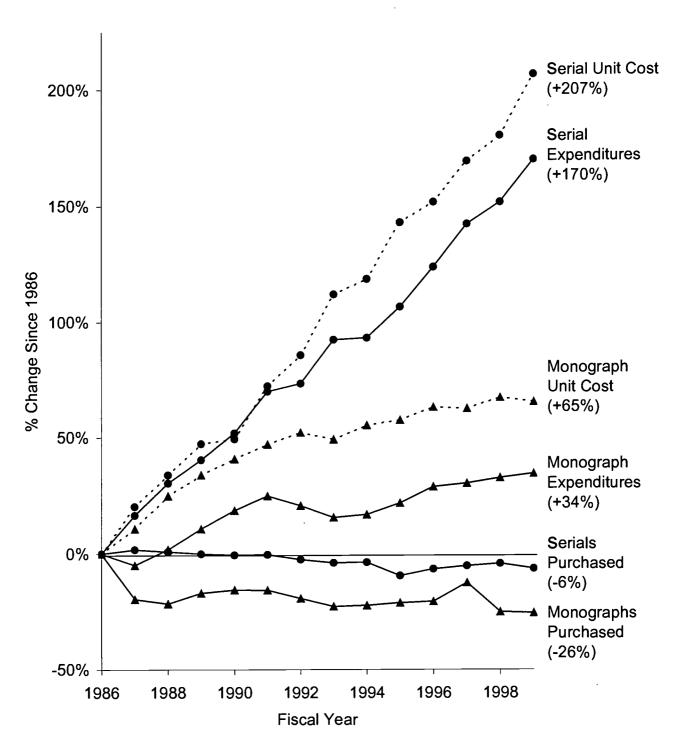
Year	Serial Unit Cost	Serial Expenditures	Monograph Unit Cost	Monograph Expenditures	Serials Purchased	Monographs Purchased
(No. of Libraries)	(40)	(103)	(62)	(99)	(40)	(62)
1986	\$ 87.09	\$1,517,724	\$28.67	\$1,120,645	16,312	32,679
1987	\$104.79	\$1,770,567	\$31.79	\$1,064,484	16,600	26,240
1988	\$116.65	\$1,979,604	\$35.83	\$1,141,226	16,456	25,570
1989	\$128.22	\$2,130,162	\$38.39	\$1,241,133	16,298	27,082
1990	\$130.07	\$2,304,744	\$40.34	\$1,330,747	16,221	27,545
1991	\$150.02	\$2,578,309	\$42.16	\$1,400,738	16,250	27,524
1992	\$161.74	\$2,630,827	\$43.62	\$1,353,865	15,896	26,344
1993	\$184.49	\$2,919,756	\$42.76	\$1,295,807	15,668	25,188
1994	\$190.26	\$2,932,091	\$44.51	\$1,309,807	15,698	25,341
1995	\$211.48	\$3,133,885	\$45.13	\$1,365,575	14,741	25,707
1996	\$219.19	\$3,393,307	\$46.76	\$1,444,015	15,223	25,911
1997	\$234.55	\$3,674,368	\$46.58	\$1,460,234	15,450	28,576
1998	\$244.18	\$3,818,832	\$47.94	\$1,486,764	15,615	24,447
1999	\$267.09	\$4,098,075	\$47.40	\$1,506,651	15,259	24,294
Average annual percent change	9.0%	7.9%	3.9%	2.3%	-0.5%	-2.3%

¹⁰

⁵ Time-series for "Serials Purchased" and "Monographs Purchased" revised due to missing data.



Graph 2
Monograph and Serial Costs in ARL Libraries, 1986-1999



Source: ARL Statistics 1998-99, Association of Research Libraries, Washington, D.C.



It is tempting to draw generalizations from these major trends, but it would be a mistake to oversimplify. The academic and research library environment is complex. To some extent, these trends are tied to the transformational nature of new technologies and networking capabilities. Although most monographs and serials are still produced in a paper format, traditional formats are being challenged by the electronic production and dissemination of scholarly publications. Electronic communication and the establishment of networks, consortia, and interinstitutional agreements are similarly making the distribution of information more effective, not only for digitized materials, but for printed books and/or photocopies, as well. Other possible explanations for the decline in acquisitions include the strong emphasis on scientific and technical research, expectations for timely information, and the twigging effect of specialization in new fields of knowledge. No matter what the underlying causal relations, research libraries are exchanging some of the traditional archival imperatives for the user demands of "information here and now."

In more specific terms, ARL data show that, while ARL libraries spent 2.7 times more money for serials compared to 1986, they bought 6% fewer serial titles (Graph 2). During the last decade, libraries shifted expenditures from monographs to serials to meet some of the demands of increasing serial prices (Graph 5), reducing the number of monographs purchased by 26%, which makes a record low median figure of 24,294 monographs purchased in 1998-99, while the unit cost for monographs increased by 65%. Since 1986, the average annual increase for the serial unit cost has been 9.0% and for the monograph unit cost 3.9%, both higher than the general inflation trends in North America during the same period.

How are libraries finding ways to cope with the exorbitant increases in the prices of scientific journals? What are the forces that have sustained a relatively stable number of subscriptions over the last four years? Is it the increased awareness of the problems by faculty and administrators or technological initiatives such as electronic publications?

Although it is impossible to provide a definite answer at this point, a recent initiative of ARL aims to provide some alternatives to rapidly increasing serial prices. The Scholarly Publishing and Academic Resources Coalition (SPARC) was launched in June 1998, and it is an alliance of libraries that fosters expanded competition in scholarly communication. SPARC creates "partnerships" with publishers who are developing high-quality, economical alternatives to existing high-priced publications. In the short time since its inception, SPARC's activities have been featured in the popular press, helped increase awareness of the challenges facing libraries, and initiated specific actions aimed towards increasing competition in the largely monopolistic field of scientific scholarly publishing.⁸

⁸ For more information, see http://www.arl.org/sparc/index.html.



⁶ In 1997, ARL cosponsored a conference highlighting the problems facing the specialized scholarly monograph. See http://www.arl.org/scomm/epub/program.html>.

⁷ The ARL Statistics 1985-86, based on only the data for that one year, shows a median unit price of \$29.50 for monographs (p. 28), and the ARL Statistics 1997-98, based on data submitted only for that one year, shows a median unit price of \$46.71 (p. 46). However, the annually published figures on the table entitled "Analysis of Selected Variables of University Libraries" are not appropriate indicators for a time series analysis because some ARL libraries did not report this information throughout the time period.

THE PROMISE OF ACCESS

Although libraries are buying fewer serials and monographs than they did 13 years ago, they serve a slightly higher number of students and faculty (See Graph 3 and Table 3). In 1986, the typical ARL library subscribed to 16,312 serials and bought 32,679 monographs for 16,684 students and 1,125 faculty. In 1999, however, it bought only 15,259 serials and 24,294 monographs for 18,502 students and 1,301 faculty.

As serial subscriptions are canceled and monograph purchases are reduced, faculty and students are borrowing through interlibrary loan 2.7 times as many items in 1999 as they did in 1986. The 1995-96 ARL ILL/DD Performance Measures Study has found that the cost of a borrowing transaction ranges from a low of \$9.76 to a high of \$27.84, with an average cost of \$18.35 in 1995-96 U.S. dollars for a research library. If we adjust this figure for inflation using the U.S. Consumer Price Index, it comes to an average cost of \$19.48 in 1998-99. By contrast, the cost of purchasing a serial or a monograph is considerably higher. To the unit cost of \$267 for a serial subscription or \$47 for a monograph, a library would add processing costs of perhaps \$55 or more. Then, based on cost alone in relation to annual use, a library could consider purchasing a serial only if the it is expected to be used about 16-17 times in a year and a monograph only if it is expected to be used at least five times. ¹⁰

Table 3
Supply and Demand in ARL Libraries, 1986-1999
Median Values for Time-Series Trends

Year	Interlibrary	Interlibrary	Graduate	Teaching	Total	Serials	Monographs
	Borrowing	Lending	Students	Faculty	Students	Purchased	Purchased
(No. of Libraries)	(106)	(106)	(106)	(103)	(106)	(40)	(62)
1986	7,049	16,152	3,040	1,125	16,684	16,312	32,679
1987	7,362	16,608	3,148	1,234	17,029	16,600	26,240
1988	7,914	18,060	3,259	1,243	17,485	16,456	25,570
1989	8,548	19,317	3,346	1,293	17,866	16,298	27,082
1990	9,588	20,815	3,357	1,280	17,745	16,221	27,545
1991	10,342	22,056	3,362	1,303	18,290	16,250	27,524
1992	11,318	22,547	3,572	1,401	18,273	15,896	26,344
1993	12,486	22,840	3,842	1,303	18,450	15,668	25,188
1994	13,996	24,293	3,815	1,304	18,287	15,698	25,341
1995	14,403	25,201	3,984	1,321	18,089	14,741	25,707
1996	15,259	25,947	3,975	1,254	18,269	15,223	25,911
1997	16,362	26,423	3,996	1,274	18,063	15,450	28,576
1998	17,684	27,256	3,926	1,252	18,245	15,615	24,447
1999	18,997	26,688	4,017	1,301	18,502	15,259	24,294
Average annual percent change	7.9%	3.9%	2.2%	1.1%	0.8%	-0.5%	-2.3%

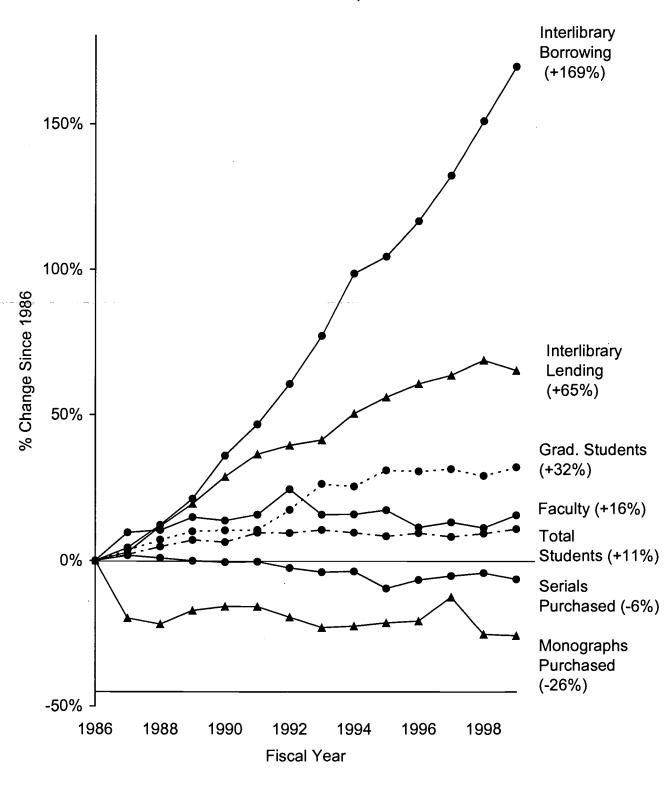
⁹ Mary E. Jackson, "Measuring the Performance of Interlibrary Loan and Document Delivery Services," ARL: A Bimonthly Newsletter of Research Library Issues and Actions (December 1997): 2.

¹⁰ According to Dilys E. Morris, Collin B. Hobert, Lori Osmus, Gregory Wook, "Cataloging Staff Costs Revisited," *LRTS*: forthcoming: In 1997/98 the average cost of cataloging a title at Iowa state was \$16.25. This cost covers all material formats and all levels of cataloging and recataloging, including PromptCat titles. Just seven years earlier, the cost wsa \$20.83 (or \$24.95 in constant dollars), representing a 22% drop, or 34% drop when adjusted for inflation. Serials cataloging at \$59.33 per title (including recataloging) is five times more expensive than monographs cataloging (\$12.11 per title).



1.3

Graph 3
Supply and Demand
in ARL Libraries, 1986-1999



Source: ARL Statistics 1998-99, Association of Research Libraries, Washington, D.C.



Even if processing costs are excluded, a serial subscription still needs to be used more than 13 times in a year and a monograph at least twice to consider making a purchasing decision. If the actual usage for a particular serial subscription or monograph is less than these numbers, it may be more economical to acquire the needed information through interlibrary loan services.

Of course, this economic scenario works only as long as there are libraries that continue to collect materials regardless of annual usage and that are willing to provide those materials to other libraries through interlibrary loan. ARL data show research libraries are lending 65% more items today than they did 13 years ago. In 1995-96, the cost of a lending transaction for research libraries ranged from a low of \$4.87 to a high of \$16.34, with an average cost of \$9.48 or, with an adjustment for inflation, a 1998-99 average cost of \$10.07. The roles of acquirer and provider have usually been performed by research libraries whose mission statements encourage those roles and whose acquisitions budgets make it possible for them to support themselves and others while allowing access to materials for both current and future users.

Given the cost considerations for ILL/DD and the number of interlibrary loan transactions, university research libraries spent in the aggregate only 1.6% of their total library expenditures for lending and 2.2% for borrowing in 1998-99. This total of 3.8% generally includes ILL/DD personnel expenses, unlike the 37% spent on library materials, which excludes processing personnel expenditures.

To more effectively satisfy the information needs for resources that are unavailable locally, many libraries have joined state-wide and regional consortia through which they share not only resources through interlibrary loan but also some of the financial burdens of licensing information sources. Libraries are placing more emphasis on access, as the cost of access appears to be more affordable than the cost of ownership. State legislators have also demonstrated a willingness to invest in state-wide library systems (e.g., OhioLINK, Illinet Online, TexShare, Virginia's VIVA, California Digital Library, etc.)¹³ in order to more efficiently use library resources.

Research institutions are pioneers in extending such cooperation beyond political and geographic boundaries: for example, the Committee for Institutional Cooperation (CIC), ¹⁴ a harbinger of a distributed global scholarly library network, crosses state boundaries in the U.S. The establishment in 1997 of the International Coalition of Library Consortia (ICOLC), whose goal is to serve higher education institutions by keeping members informed about new electronic information resources and the pricing practices of electronic providers and vendors, also demonstrates a strong interest among library consortia to work together on issues that are fundamental to realizing this global scholarly network. ¹⁵

^{15 &}lt;a href="http://www.library.yale.edu/consortia/">http://www.library.yale.edu/consortia/



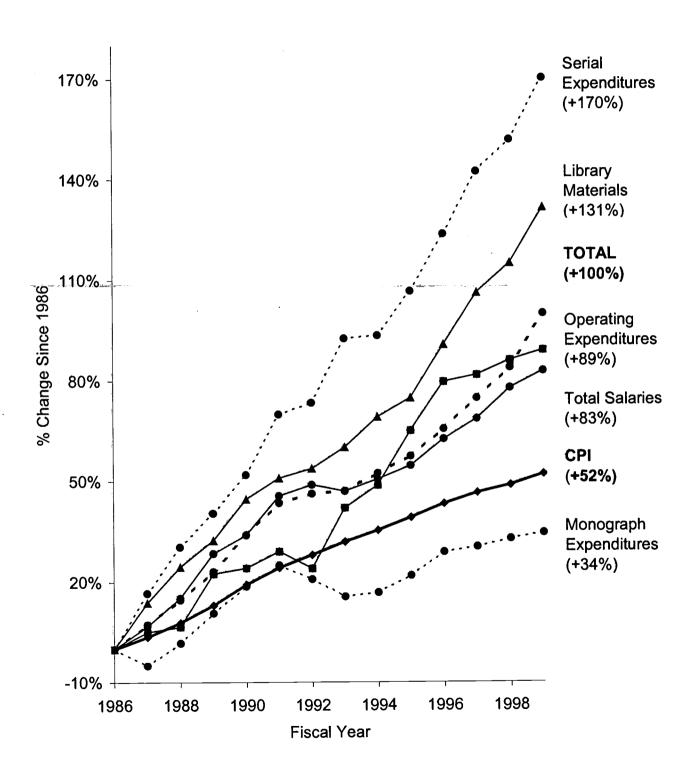
¹¹ Ibid.

¹² Martha Kyrillidou, "New Collections, New Marketplace Relations," *Resource Sharing and Information Networks* 14, no. 1 (Fall 1998) [forthcoming].

OhioLINK: http://www.ohiolink.edu/
Illinet Online: http://ilcso.aiss.uiuc.edu/Web/Services/ILLINET_Online/ILLINET_Online.html
TexShare: http://www.texshare.edu/
VIVA: http://www.viva.lib.va.us/
California Digital Library http://www.cdlib.org/

^{14 &}lt;a href="http://NTX2.cso.uiuc.edu/cic/index.html">http://NTX2.cso.uiuc.edu/cic/index.html

Graph 4
Expenditure Trends
in ARL Libraries, 1986-1999



Source: ARL Statistics 1998-99, Association of Research Libraries, Washington, D.C.



As the research library environment moves to even speedier networks with the development of the recently established Internet2 (I2)16 and the Next Generation Internet (NGI) Initiative17, issues related to mechanisms for establishing access and costs for managing content on such networks are fundamental concerns for the library of the future.

The financial picture for research libraries is evident in Graph 4, "Expenditure Trends in ARL Libraries." Library material budgets have been rising quickly in order to sustain serial expenditures. Operating expenditures, where many automation and electronic information resource expenditures are reported, are also increasing rapidly. A slower increase is noted for total salary expenditures, which reflects a combination of slightly increasing salaries and staff reductions (see Graph 5). Monograph expenditures, although rising somewhat steadily in recent years, have been increasing at a much slower pace to accommodate the ever-increasing serial expenditures. The annual consumer price index (CPI), included on Graph 4, provides a reference for the increases in library expenditures.

Table 4 Expenditure Trends in ARL Libraries, 1986-1999 Median Values for Time-Series Trends - Unadjusted dollar figures

Year	Library Materials	Serial Expend	Monograph Expenditures	Total Salaries	Operating Expenditures	Total Expenditures	CPI
(No. of Libraries)	(106)	(103)	(99)	(106)	(106)	(106)	
1986	\$2,707,219	\$1,517,724	\$1,120,645	\$4,108,616	\$1,134,008	\$8,390,865	109.6
1987	3,083,288	1,770,567	1,064,484	4,390,277	1,191,641	9,006,308	113.6
1988	3,371,421	1,979,604	1,141,226	4,737,470	1,209,633	9,623,944	118.3
1989	3,582,400	2,130,162	1,241,133	5,278,104	1,389,321	10,332,186	124.0
1990	3,913,466	2,304,744	1,330,747	5,500,869	1,408,280	11,243,645	130.7
1991	4,083,358	2,578,309	1,400,738	5,977,903	1,463,873	12,032,893	136.2
1992	4,160,064	2,630,827	1,353,865	6,113,071	1,406,661	12,264,226	140.3
1993	4,332,769	2,919,756	1,295,807	6,034,232	1,609,350	12,331,859	144.5
1994	4,577,203	2,932,091	1,309,807	6,183,885	1,686,070	12,775,909	148.2
1995	4,729,921	3,133,885	1,365,575	6,349,708	1,871,603	13,204,133	152.4
1996	5,157,375	3,393,307	1,444,015	6,675,390	2,035,496	13,885,477	156.9
1997	5,577,348	3,674,368	1,460,234	6,922,290	2,058,496	14,652,763	160.5
1998	5,817,324	3,818,832	1,486,764	7,300,236	2,107,948	15,410,758	163.0
1999	6,263,648	4,098,075	1,506,651	7,505,235	2,141,325	16,761,071	166.6
Average annual percent change	6.7%	7.9%	2.3%	4.7%	5.0%	5.5%	3.3%





^{16 &}lt;a href="http://www.internet2.edu">http://www.internet2.edu

^{17 &}lt; http://www.ngi.gov>

Table 5, "Resources per Student in ARL Libraries," shows that, per student, borrowing activity through interlibrary loan has continued to increase at an annual average rate of 7.3% since 1986. Further, libraries are borrowing more than twice as many items on a per student basis as they did 13 years ago. ¹⁸ However, as was also shown in Table 3, acquisition levels for both serials and monographs per student continue to slide. Libraries acquire a third fewer monographs and 17% fewer serials per student now than they did in 1986. That equals 800 serial subscriptions and 1,410 monographs per 1,000 students in 1999. ¹⁹

In 1999, the median number of volumes added was 4.01 per student, compared to the 4.18 volumes added per student in 1986. Libraries also reported fewer staff per student in 1999 as compared to 1986. In 1999, there was a median number of 14.5 total staff per 1,000 students, compared to the 1986 figure of 16 per 1,000.

Table 5
Resources per Student in ARL Libraries, 1986-1999
Median of Ratio Values for Time-Series Trends

Year	Interlibrary Borrowing	Volumes Held	Volumes Added (Gross)	Total Staff	Serials Purchased	Monographs Purchased
(No. of Libraries)	(106)	(106)	(106)	(106)	(40)	(62)
1986	0.42	123.97	4.18	0.0160	0.96	2.17
1987	0.43	126.34	4.07	0.0165	0.93	1.85
1988	0.43	129.34	3.85	0.0162	0.90	1.65
1989	0.50	131.04	3.79	0.0164	0.91	1.75
1990	0.54	134.45	3.90	0.0159	0.88	1.83
1991	0.62	137.79	4.00	0.0154	0.85	1.75
1992	0.61	140.79	3.97	0.0154	0.85	1.54
1993	0.67	146.44	3.82	0.0154	0.83	1.51
1994	0.74	151.77	4.17	0.0154	0.80	1.47
1995	0.79	154.82	4.43	0.0150	0.85	1.54
1996	0.85	159.74	3.81	0.0147	0.83	1.46
1997	0.89	160.52	4.03	0.0144	0.80	1.50
1998	0.97	160.16	4.08	0.0147	0.80	1.39
1999	1.05	162.48	4.01	0.0145	0.80	1.41
Annual average percent change	7.3%	2.1%	-0.3%	-0.8%	-1.4%	-3.3%

¹⁹ To get the number of resources per 1,000 students, multiply the figures in Table 5 by 1,000.



¹⁸ This overall trend should not be interpreted as a rigid doubling as it falsifies the varying experiences of individual libraries.

Graph 5 Resources per Student in ARL Libraries, 1986-1999 Interlibrary 150% Borrowing (+150%) 100% 50% Volumes Held (+31%)Vols. Added 0% (-4%)**Serials**

% Change Since 1986 Total Staff(-9%) Purchased (-17%)Monographs Purchased -50% (-35%)1986 1988 1992 1990 1994 1996 1998 Fiscal Year

Source: ARL Statistics 1998-99, Association of Research Libraries, Washington D.C.



THE TRENDS CONTINUE

In sum, purchases of fewer serials and monographs since 1986 coupled with increases in expenditures for these items are indicators of the continuing declining purchasing power of research libraries. Higher levels of service activities in interlibrary loan and library instruction services serve as indicators of increased access to, rather than ownership of, library resources. The fluctuating, and possibly declining, trends of reference and circulation services since 1996 serve as indicators of the changing and increasing complexity of information needs of library users.

The World Wide Web has revolutionized the way libraries are delivering services, enabling them to offer more value, ranging from remote access to online catalogs, indexing and abstracting tools and full-text resources. The delivery of new and innovative services through digitization projects and distance learning technologies are transforming the brick-and-mortar library model to the virtual library model. We are probably still in the early stages of a long transition period where the hybrid library model will reign.

These trends are largely due to technological innovation that is readily adopted and barriers to access that are gradually being reduced. It is very likely that as the access model continues to offer more information at lesser cost to an increasing number of people, the ownership model will simply be reserved for the high-cost, low-usage information resources that are of value to a small group of people. Where would libraries fit into this environment? The only answer to this question can be at best speculative and at worst dead wrong.²⁰

Research library roles are being redefined as the research and academic community undergoes changes. The ARL Statistics and Measurement Program and its advisory ARL Committee on Statistics and Measurement continue to look for new ways to describe and measure the performance of research libraries and their contribution to teaching, research, learning, and community service. In a period of rapid technological change and fluctuation, the information gathered in this data compilation represents only a very basic and rudimentary picture of the major trends affecting research libraries, their resources, and their use.

This data compilation does not assess, for example, the quality of an organization in meeting user needs; it does not provide a picture of investments in electronic resources and other innovative services. Answers to these questions can only be found by asking library staff who systematically explore with users their real needs and then design better service delivery systems at the local level. ARL is engaged in a variety of projects through the New Measures Initiative that aim at developing tools to assess the library's impact on teaching, learning and research, as well as, the ability of libraries to control costs and add value to the services they provide. Resource investments in electronic products are tracked through the ARL Supplementary Statistics and pilot projects in this area are also under development. The ARL Statistics and Measurement Program also provides training and customized services. For more information, see http://www.arl.org/stats/index.html.

Those using the ARL Statistics to compare individual libraries should consult the extensive "Footnotes" section of this report and the symbols in the "ARL Library Data Tables." Although definitions used in the Statistics aim for consistency, differing reporting practices do exist among member libraries. To aid comparability in the ARL Statistics, Canadian library expenditures are expressed in U.S. dollars, at the rate of 1.5103 Canadian dollars to one U.S. dollar. This exchange rate is the average monthly noon exchange rate published in the Bank of Canada Review for the period July 1998-June 1999. Expenditures reported in Canadian dollars are given in the "Footnotes."

²⁰ Steve Coffman, "Building Earth's Largest Library: Driving into the Future," Searcher 7, no. 3, (March 1999), http://www.infotoday.com/searcher/mar99/coffman.htm. 20



The quantitative rank-order tables presented in this publication are not indicative of performance and outcomes and should not be used as measures of library quality. In comparing any individual library to ARL medians or to other ARL members, one must be careful to make such comparisons within the context of differing institutional and local goals and characteristics.

Martha Kyrillidou Senior Program Officer for Statistics and Measurement Association of Research Libraries April 10, 2000



INTERACTIVE ARL STATISTICS ON THE WORLD WIDE WEB

ARL Statistics 1998-99 is available also through an interactive WWW edition, supplementing previously available data from 1992-93. Maintained and supported by the Geospatial and Statistical Data Center at the University of Virginia, this site offers researchers access to ARL Statistics with documentation. The site is formatted for use with Netscape 2.02^{TM} or higher, but other browsers also may be used to access the data.

The site offers maps and graphics depicting current library trends. For the particularly adventurous, the site links to an interactive graphics and statistics page, allowing users to manipulate their data queries. One may choose univariate, bivariate, or multivariate statistics in addition to a vast array of selections with which to customize a query. The interactive pages also include options for regional aggregates, customized samples of observations, simple rank order tabulations of data, and the ability to create ratios of any two variables.

The site also includes membership index data (volumes held, volumes added gross, current serials, total library expenditures, and total staff), as published in the *Chronicle of Higher Education* each spring, which can be displayed as numbers or graphs. A link provides an explanation of how the ARL membership index is used in assessing new members and the table of formulas for calculating the index since 1986 is also included. These and other capabilities are located at:

http://fisher.lib.virginia.edu/newarl/

Those without access to a graphical WWW browser can retrieve *ARL Statistics* datafiles from 1908 to 1999 in spreadsheet format from:

<ftp://www.arl.org/stat/machine/>

The data are available via browser at:

http://www.arl.org/stats/arlstat/mrstat.html

The latest ARL membership index data are available at:

http://www.arl.org/stats/factor.html

General information about the ARL Statistics and Measurement Program is located at:

http://www.arl.org/stats/>





COLLECTIONS

Notes			Volumes in Library	Volumes Added (Gross)	Volumes Added (Net)	Mono- graphs Purchased (Volumes)	Current Serials Purchased (Subs.)	Current Serials Not Purchased	Current Serials Total
ALABAMA LM+ 2,186,919 53,566 50,496 19,747 10,098 7,987 18,085 ALBERTA b LM+ 5,376,450 112,811 100,753 23,381 23,155 7,584 30,734 ARIZONA b LM+ 4,628,234 106,174 99,446 56,253 U/A U/A 30,000 ARIZONA STATE B L + 3,435,284 70,961 62,760 54,914 20,674 122,555 33,001 ARIZONA STATE B L + 2,545,463 47,184 40,906 46,184 11,815 11,306 23,121 BOSTON LM+ 2,146,820 55,439 47,265 23,132 U/A U/A 28,264 BRIGHAM YOUNG	(Survey Question #)		(1)	(2)	(3)	(4)	(5)	(6)	(7)
ARIZONA Description Lime S.276,450 112,811 100,753 23,381 23,155 7,584 30,739	INSTITUTION	Notes							
ARIZONA Description Lime S.276,450 112,811 100,753 23,381 23,155 7,584 30,739	ΔΙ ΔΒΔΜΔ	LM+	2 186 919	53 566	50 496	19 747	10 098	7 987	18.085
ARIZONA BLM+ 4.628,234 106,179 99,646 56,253 U/A U/A 30,000 ARIZONA STATE BL+ 3.435,289 70,961 62,760 54,914 20,679 12,355 33,014 20BURN + 2.545,463 47,184 40,906 46,144 11,815 11,306 23,121 BOSTON LM+ 2.545,463 47,184 40,906 46,144 11,815 11,306 23,121 BOSTON LM+ 2.529,726 40,099 38,877 46,388 9,653 6.565 16,218 BRIGHSH COLUMBIA LM+ 4,025,186 114,117 111,353 U/A U/A U/A U/A 28,264 BRIGHAM YOUNG + 2.539,726 40,099 38,877 46,388 9,653 6.565 16,218 BRIGHSH COLUMBIA LM+ 4,025,186 114,117 111,353 U/A U/A U/A U/A 21,943 BROWN - 3.029,071 54,547 50,101 25,947 10,929 2.604 13,533 CALIFORNIA, BERKELEY L- 8,946,751 166,450 156,650 U/A U/A U/A U/A 79,441 CALIFORNIA, DAVIS bLM+ 3,101,524 92,884 87,034 U/A U/A U/A U/A 79,441 CALIFORNIA, IRVINE M+ 2,080,313 58,869 49,689 24,277 9,613 9,435 19,048 CALIFORNIA, LOS ANGELES LM+ 7,401,780 157,189 151,646 144,962 U/A U/A 96,021 CALIFORNIA, SANGELES LM+ 7,401,780 157,189 151,646 144,962 U/A U/A 96,021 CALIFORNIA, SANDIEGO M+ 2,616,776 87,793 39,135 39,503 16,012 8,974 24,986 CALIFORNIA, SANDIEGO M+ 2,016,776 87,793 39,135 39,503 16,012 8,974 24,986 CALIFORNIA, SANDIEGO M+ 2,016,776 87,793 39,135 39,503 16,012 8,974 24,986 CALIFORNIA, SANDIA BARRARA b+ 2,571,484 69,205 67,743 29,272 9,834 8,450 18,284 CASE WESTERN RESERVE LM+ 2,015,763 30,528 19,284 11,985 10,007 5,017 15,024 CNICKONATI LM+ 2,574,849 60,102 50,439 27,135 19,761 1,982 21,743 COLORADO TATE HAMBOR LAM- 7,144,703 16,0413 126,295 U/A 41,701 25,999 67,400 CONNECTICUT BGLM- 7,144,703 16,0413 16,295 U/A 41,701 25,999 67,400 CONNECTICUT BGLM- 7,444,703 16,0413 16,295 U/A 41,701 25,999 67,400 CONNECTICUT BGLM- 7,444,703 16,0413 16,295 U/A 41,701 25,999 67,400 CONNECTICUT BGLM- 7,444,703 16,0413 16,295 U/A 41,701 25,999 67,400 CONNECTICUT BGLM- 8,486,497 111,062 110,1438 51,677 38,358 2.440 40,998 EMORY BLM+ 2,246,537 88,499 90,521 62,425 28,075 16,046 1,068 17,558 12,049 EMORY BLM+ 2,466,537 88,499 13,805 U/A U/A U/A 62,076 EMORY BLM+ 2,466,537 111,062 11,014,89 13,805 U/A U/A U/A 62,076 EMORY BLM+ 2,426,537 111,062 11,014,8						. <u> </u>			
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AUBURN					•				
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BRITISH COLUMBIA LM+ 4.025,186 114,117 111,353 U/A U/A U/A 21,943 BROWN - 3.029,071 36,454 50,101 25,947 10,929 2.604 13,553 CALIFORNIA, BERKELEY I. 8.946,751 166,689 156,650 U/A U/A U/A 44,232 CALIFORNIA, INVIRIE M+ 2.080,313 58,869 49,689 24,277 9,613 9,355 19,048 CALIFORNIA, INVERSIDE H+ 7,401,780 157,189 151,646 144,962 U/A U/A 96,021 CALIFORNIA, SANDIEGO M+ 2,616,776 87,793 39,135 39,503 16,012 8,974 24,986 CALIFORNIA, SANTA BARBARA b+ 2,571,484 69,025 67,743 29,272 9,834 8,450 18,284 CHICAGO b LM+ 6,015,936 156,0682 148,891 83,643 U/A U/A 37,942 CINCINNATI LM+ 2,215,7484 60,102	BRIGHAM YOUNG	+				•		•	
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CASE WESTERN RESERVE LM+ 2,015,763 30,528 19,284 11,985 10,007 5,017 15,024 CHICAGO b LM+ 6,419,936 156,082 148,891 83,643 U/A U/A 37,942 CINCINNATI LM+ 2,574,849 60,102 50,439 27,135 19,761 1,982 21,743 COLORADO b + 2,850,114 70,374 60,535 39,843 14,303 11,779 26,082 COLORADO STATE + 1,803,493 55,132 50,789 24,398 8.714 11,782 20,496 COLUMBIA LM+ 7,144,703 160,413 126,295 U/A 41,701 25,608 67,409 CONNECTICUT BGILM+ 2,948,089 90,521 62,425 28,075 16,046 1,608 17,654 CORNELL B L+ 6,448,496 203,281 187,17 U/A U/A U/A 40,76 DARTMOUTH M+ 2,309,696 54,746 47,715 <t< td=""><td>CALIFORNIA, SANTA BARBARA</td><td>b +</td><td>2,571,484</td><td></td><td></td><td></td><td></td><td></td><td>18,284</td></t<>	CALIFORNIA, SANTA BARBARA	b +	2,571,484						18 ,2 84
CHICAGO b LM+ 6,419,936 156,082 148,891 83,643 U/A U/A 37,942 CINCINATI LM+ 2,574,849 60,102 50,439 27,135 19,761 1,982 21,743 COLORADO b + 2,850,114 70,374 60,535 39,843 14,303 11,779 26,082 COLORADO STATE + 1,803,493 55,132 50,789 24,398 8,714 11,782 20,496 COLUMBIA LM+ 7,144,703 160,413 126,295 U/A 41,701 25,699 67,400 CONNECTICUT BGLM+ 2,948,089 90,521 62,425 28,075 16,046 1,608 17,654 CORNECTICUT BLM+ 6,448,496 203,281 187,777 U/A U/A U/A 62,069 CORNECTICUT MB 2,402,306 54,746 47,715 23,360 17,583 2,294 19,877 DUKE GLM+ 8,86,571 1111,062 101,488 51,67	CASE WESTERN RESERVE	LM+							15,024
CINCINNATI LM+ 2,574,849 60,102 50,439 27,135 19,761 1,982 21,743 COLORADO b + 2,850,114 70,374 60,535 39,843 14,303 11,779 26,082 COLORADO STATE + 1,803,493 55,132 50,789 24,398 8,714 11,782 20,496 COLUMBIA LM+ 7,144,703 160,413 126,295 U/A 41,701 25,699 67,400 CONNECTICUT BGLM+ 2,948,089 90,521 62,425 28,075 16,046 1,608 17,654 CORNELL B L + 6,448,496 203,281 187,717 U/A U/A U/A U/A 19,877 DELAWARE - 2,402,535 48,164 44,520 32,617 8,922 3,482 12,440 DUKE GLM+ 4,865,471 111,062 101,438 51,677 38,358 2,440 40,798 EMORY B LM+ 2,522,042 83,976 72,221 47,311	CHICAGO	b LM+		156,082	148,891	83,643		U/A	37,942
COLORADO b + 2.850,114 70.374 60.535 39,843 14,303 11,779 26,082 COLORADO STATE + 1,803,493 55,132 50.789 24,398 8.714 11,782 20,496 COLUMBIA LM+ 7,144,703 160,413 126,295 U/A 41,701 25,699 67,400 CONNECTICUT BGLM+ 2,948,089 90,521 62,425 28,075 16,046 1,608 17,654 CORNELL B L + 6,448,496 203,281 187,717 U/A U/A U/A 62,076 DARTMOUTH M+ 2,309,626 54,746 47,715 23,360 17,583 2,294 19,877 DELAWARE - 2402,535 48,169 44,529 32,617 8,922 3,482 12,404 DUKE GLM+ 4,865,471 111,062 101,488 51,677 38,358 2,440 40,798 EMORY B LM+ 3,474,691 90,570 73,412 49,751 24,906	CINCINNATI	LM+					19,761	1,982	21,743
COLORADO STATE + 1,803,493 55,132 50,789 24,398 8,714 11,782 20,496 COLUMBIA LM+ 7,144,703 160,413 126,295 U/A 41,701 25,699 67,400 CONNECTICUT BGLM+ 2,948,089 90,521 62,425 28,075 16,046 1,608 17,654 CORNELL B L + 6,448,496 203,281 187,717 U/A U/A U/A 62,076 DARTMOUTH M+ 2,309,626 54,746 47,715 23,360 17,583 2,294 19,877 DELAWARE - 2,402,535 48,164 44,529 32,617 8,922 3,482 12,404 DUKE GLM+ 4,865,471 111,062 101,438 51,677 38,358 2,440 40,798 EMORY B LM+ 2,522,042 83,976 72,221 47,311 18,420 4,643 23,063 FLORIDA B LM+ 3,474,691 90,570 73,412 49,751	COLORADO	b +	2.850.114	70,374	60 ,53 5		1 4,30 3	11,779	26,082
COLUMBIA LM+ 7,144,703 160,413 126,295 U/A 41,701 25,699 67,400 CONNECTICUT BGLM+ 2,948,089 90,521 62,425 28,075 16,046 1,608 17,654 CORNELL B L+ 6,448,496 203,281 187,717 U/A U/A U/A 62,076 DARTMOUTH M+ 2,309,626 54,746 47,715 23,360 17,583 2,294 19,877 DELAWARE - 2,402,535 48,164 44,529 32,617 8,922 3,482 12,404 DUKE GLM+ 4,865,471 111,062 101,438 51,677 38,358 2,440 40,798 EMORY B LM+ 2,522,042 83,976 72,221 47,311 18,420 4,643 23,063 FLORIDA B LM+ 3,474,691 90,570 73,412 49,751 24,906 3,176 28,082 FLORIDA STATE BGL + 2,306,080 49,407 42,823 18,068		+					8.714	11 ,78 2	20,496
CONNECTICUT BGLM+ 2,948,089 90,521 62,425 28,075 16,046 1,608 17,654 CORNELL B L + 6,448,496 203,281 187,717 U/A U/A U/A 62,076 DARTMOUTH M+ 2,309,626 54,746 47,715 23,360 17,583 2,294 19,877 DELAWARE - 2,402,535 48,160 44,520 32,617 8,922 3,482 12,404 DUKE GLM+ 4,865,471 111,062 101,438 51,677 38,358 2,440 40,798 EMORY B LM+ 2,522,042 83,976 72,221 47,311 18,420 4,643 23,063 FLORIDA B LM+ 3,474,691 90,570 73,412 49,751 24,906 3,176 28,082 FLORIDA STATE BGL + 2,306,080 49,407 42,823 18,068 U/A U/A 15,069 GEORGE WASHINGTON LM+ 1,948,051 53,601 41,289 13,805		LM+	· ·					25, 69 9	67,400
CORNELL B L + 6,448,496 203,281 187,717 U/A U/A U/A 62,076 DARTMOUTH M+ 2,309,626 54,746 47,715 23,360 17,583 2,294 19,877 DELAWARE - 2,402,535 48,164 44,524 32,617 8,922 3,482 12,404 DUKE GLM+ 4,865,471 111,062 101,438 51,677 38,358 2,440 40,798 EMORY B LM+ 2,522,042 83,976 72,221 47,311 18,420 4,643 23,063 FLORIDA B LM+ 3,474,691 90,570 73,412 49,751 24,906 3,176 28,082 FLORIDA STATE BGL + 2,306,080 49,407 42,823 18,068 U/A U/A 15,069 GEORGE WASHINGTON LM+ 1,948,051 53,601 41,289 13,805 U/A U/A U/A 15,354 GEORGIA TECH LM+ 2,416,357 86,459 52,558								1,608	17,654
DARTMOUTH M+ 2,309,626 54,746 47,715 23,360 17,583 2,294 19,877 DELAWARE - 2,402,535 48,160 44,520 32,617 8,922 3,482 12,404 DUKE GLM+ 4,865,471 111,062 101,438 51,677 38,358 2,440 40,798 EMORY B LM+ 2,522,042 83,976 72,221 47,311 18,420 4,643 23,063 FLORIDA B LM+ 3,474,691 90,570 73,412 49,751 24,906 3,176 28,082 FLORIDA STATE BGL+ 2,306,080 49,407 42,823 18,068 U/A U/A 15,069 GEORGE WASHINGTON LM+ 1,948,051 53,601 41,289 13,805 U/A U/A 15,354 GEORGE WASHINGTON LM+ 2,416,357 86,459 52,558 35,301 28,170 859 29,029 GEORGIA L+ 3,622,094 91,834 82,611 54,145<	CORNELL	B L +						U/A	62,076
DUKE GLM+ 4,865,471 111,062 101,438 51,677 38,358 2,440 40,798 EMORY B LM+ 2,522,042 83,976 72,221 47,311 18,420 4,643 23,063 FLORIDA B LM+ 3,474,691 90,570 73,412 49,751 24,906 3,176 28,082 FLORIDA STATE BGL + 2,306,080 49,407 42,823 18,068 U/A U/A 15,069 GEORGE WASHINGTON LM+ 1,948,051 53,601 41,289 13,805 U/A U/A 15,354 GEORGETOWN LM+ 2,416,357 86,459 52,558 35,301 28,170 859 29,029 GEORGIA L + 3,622,094 91,834 82,611 54,145 U/A U/A 39,784 GEORGIA TECH + 2,077,369 58,588 55,228 10,987 6,638 9,158 15,796 GUELPH b G + 2,142,348 17,697 16,569 17,400	DARTMOUTH	M+		54,746			17,583	2,294	19,877
DUKE GLM+ 4,865,471 111,062 101,438 51,677 38,358 2,440 40,798 EMORY B LM+ 2,522,042 83,976 72,221 47,311 18,420 4,643 23,063 FLORIDA B LM+ 3,474,691 90,570 73,412 49,751 24,906 3,176 28,082 FLORIDA STATE BGL + 2,306,080 49,407 42,823 18,068 U/A U/A 15,069 GEORGE WASHINGTON LM+ 1,948,051 53,601 41,289 13,805 U/A U/A 15,354 GEORGETOWN LM+ 2,416,357 86,459 52,558 35,301 28,170 859 29,029 GEORGIA L + 3,622,094 91,834 82,611 54,145 U/A U/A 39,784 GEORGIA TECH + 2,077,369 58,588 55,228 10,987 6,638 9,158 15,796 GUELPH b G + 2,142,348 17,697 16,569 17,400	DELAWARE		2.402,535	48,169	44,520	32,617	8,922	3,482	12.404
EMORY B LM+ 2,522,042 83,976 72,221 47,311 18,420 4.643 23,063 FLORIDA B LM+ 3,474,691 90,570 73,412 49,751 24,906 3,176 28,082 FLORIDA STATE BGL + 2,306,080 49,407 42,823 18,068 U/A U/A 15,069 GEORGE WASHINGTON LM+ 1,948,051 53,601 41,289 13,805 U/A U/A U/A 15,069 GEORGETOWN LM+ 2,416,357 86,459 52,558 35,301 28,170 859 29,029 GEORGIA L + 3,622,094 91,834 82,611 54,145 U/A U/A 39,784 GEORGIA TECH + 2,077,369 58,588 55,228 10,987 6,638 9,158 15,796 GUELPH b G + 2,142,348 17,697 16,569 17,400 U/A U/A 105,837 HAWAII + 3,055,401 67,240 63,427 <td< td=""><td></td><td>GLM+</td><td></td><td>111,062</td><td>101,438</td><td>51,677</td><td>38,358</td><td>2.440</td><td>40,798</td></td<>		GLM+		111,062	101,438	51,677	38,358	2.440	40,798
FLORIDA B LM+ 3,474,691 90,570 73,412 49,751 24,906 3,176 28,082 FLORIDA STATE BGL + 2,306,080 49,407 42,823 18,068 U/A U/A 15,069 GEORGE WASHINGTON LM+ 1,948,051 53,601 41,289 13,805 U/A U/A U/A 15,354 GEORGETOWN LM+ 2,416,357 86,459 52,558 35,301 28,170 859 29,029 GEORGIA L + 3,622,094 91,834 82,611 54,145 U/A U/A 39,784 GEORGIA TECH + 2,077,369 58,588 55,228 10,987 6,638 9,158 15,796 GUELPH b G + 2,142,348 17,697 16,569 17,400 U/A U/A 105,837 HAWAII + 3,055,401 67,240 63,427 32,262 17,466 9,372 26,838 HOUSTON GL + 2,035,040 52,830 48,936 <t< td=""><td></td><td>B LM+</td><td>2,522,042</td><td>83,976</td><td>72,221</td><td></td><td>18,420</td><td>4,643</td><td>23,063</td></t<>		B LM+	2,522,042	83, 9 76	72, 22 1		18,420	4,643	23,063
GEORGE WASHINGTON LM+ 1,948,051 53,601 41,289 13,805 U/A U/A L/A 15,354 GEORGETOWN LM+ 2,416,357 86,459 52,558 35,301 28,170 859 29,029 GEORGIA L+ 3,622,094 91,834 82,611 54,145 U/A U/A 39,784 GEORGIA TECH + 2,077,369 58,588 55,228 10,987 6,638 9,158 15,796 GUELPH b G + 2,142,348 17,697 16,569 17,400 U/A U/A 7,609 HARVARD LM+ 14,190,704 308,843 287,317 U/A U/A U/A 105,837 HAWAII + 3,055,401 67,240 63,427 32,262 17,466 9,372 26,838 HOUSTON GL + 2,035,040 52,830 48,398 27,438 13,869 375 14,244 HOWARD LM+ 2,421,048 49,750 48,936 9,750			3,474,691	90,570	73,412	49,751	24,906	3,176	28,082
GEORGE WASHINGTON LM+ 1,948,051 53,601 41,289 13,805 U/A U/A 15,354 GEORGETOWN LM+ 2,416,357 86,459 52,558 35,301 28,170 859 29,029 GEORGIA L+ 3,622,094 91,834 82,611 54,145 U/A U/A 39,784 GEORGIA TECH + 2,077,369 58,588 55,228 10,987 6,638 9,158 15,796 GUELPH b G + 2,142,348 17,697 16,569 17,400 U/A U/A 7,609 HARVARD LM+ 14,190,704 308,843 287,317 U/A U/A U/A 105,837 HOUSTON GL + 2,035,040 52,830 48,398 27,438 13,869 375 14,244 HOWARD LM+ 2,421,048 49,750 48,936 9,750 14,081 158 14,239 ILLINOIS, CHICAGO M+ 2,022,611 56,650 32,872 33,395 1	FLORIDA STATE	BGL +	2,306,080	49,407	42,823	18,068	U/A	U/A	15,069
GEORGIA L + 3.622,094 91,834 82,611 54,145 U/A U/A 39,784 GEORGIA TECH + 2.077,369 58.588 55,228 10,987 6,638 9.158 15,796 GUELPH b G + 2,142,348 17,697 16,569 17,400 U/A U/A U/A 7,609 HARVARD LM+ 14,190,704 308,843 287,317 U/A U/A U/A U/A 105,837 HAWAII + 3,055,401 67,240 63,427 32,262 17,466 9,372 26,838 HOUSTON GL + 2,035,040 52,830 48,398 27,438 13,869 375 14,244 HOWARD LM+ 2,421,048 49,750 48,936 9,750 14,081 158 14,239 ILLINOIS, CHICAGO M+ 2,022,611 56,650 32,872 33,395 15,125 1,109 16,234		LM+	1,948,051	53,601	41,289	13,805	U/A	U/A	15,354
GEORGIA L + 3,622,094 91,834 82,611 54,145 U/A U/A 39,784 GEORGIA TECH + 2,077,369 58,588 55,228 10,987 6,638 9,158 15,796 GUELPH b G + 2,142,348 17,697 16,569 17,400 U/A U/A U/A 7,609 HARVARD LM+ 14,190,704 308,843 287,317 U/A U/A U/A U/A 105,837 HAWAII + 3,055,401 67,240 63,427 32,262 17,466 9,372 26,838 HOUSTON GL + 2,035,040 52,830 48,398 27,438 13,869 375 14,244 HOWARD LM+ 2,421,048 49,750 48,936 9,750 14,081 158 14,239 ILLINOIS, CHICAGO M+ 2,022,611 56,650 32,872 33,395 15,125 1,109 16,234	GEORGETOWN	LM+	2,416,357	86,45 9	52,558	35,301	28,170	859	29,029
GEORGIA TECH + 2,077,369 58,588 55,228 10,987 6,638 9,158 15,796 GUELPH b G + 2,142,348 17,697 16,569 17,400 U/A U/A 10/A 7,609 HARVARD LM+ 14,190,704 308,843 287,317 U/A U/A U/A U/A 105,837 HAWAII + 3,055,401 67,240 63,427 32,262 17,466 9,372 26,838 HOUSTON GL + 2,035,040 52,830 48,398 27,438 13,869 375 14,244 HOWARD LM+ 2,421,048 49,750 48,936 9,750 14,081 158 14,239 ILLINOIS, CHICAGO M+ 2,022,611 56,650 32,872 33,395 15,125 1,109 16,234								U/A	39,784
GUELPH b G + 2,142,348 17,697 16,569 17,400 U/A U/A 7,609 HARVARD LM+ 14,190,704 308,843 287,317 U/A U/A U/A U/A 105,837 HAWAII + 3,055,401 67,240 63,427 32,262 17,466 9,372 26,838 HOUSTON GL + 2,035,040 52,830 48,398 27,438 13,869 375 14,244 HOWARD LM+ 2,421,048 49,750 48,936 9,750 14,081 158 14,239 ILLINOIS, CHICAGO M+ 2,022,611 56,650 32,872 33,395 15,125 1,109 16,234	•							9,158	15,796
HAWAII + 3,055,401 67,240 63,427 32,262 17,466 9,372 26,838 HOUSTON GL + 2,035,040 52,830 48,398 27,438 13,869 375 14,244 HOWARD LM+ 2,421,048 49,750 48,936 9,750 14,081 158 14,239 ILLINOIS, CHICAGO M+ 2,022,611 56,650 32,872 33,395 15,125 1,109 16,234		bG+		17,697	16,569	17,400	U/A	U/A	7,609
HOUSTON GL + 2.035,040 52,830 48,398 27,438 13,869 375 14,244 HOWARD LM+ 2,421,048 49,750 48,936 9,750 14,081 158 14,239 ILLINOIS, CHICAGO M+ 2,022,611 56,650 32,872 33,395 15,125 1,109 16,234	HARVARD	LM+	14,190,704	308,843	287,317	U/A	U/A	U/A	105,837
HOWARD LM+ 2,421,048 49,750 48,936 9,750 14,081 158 14,239 ILLINOIS, CHICAGO M+ 2,022,611 56,650 32,872 33,395 15,125 1,109 16,234	HAWAII	+	3,055,401	67,240	63,427	32,262	17,466	9,372	26,838
HOWARD LM+ 2,421,048 49.750 48,936 9,750 14,081 158 14,239 ILLINOIS, CHICAGO M+ 2,022,611 56,650 32,872 33,395 15,125 1,109 16,234	HOUSTON	GL+	2,035,040	52,83 0	48,398	27,438	13,869	375	14,244
	HOWARD	LM+	2,421,048	49,7 50	48,936	9,750	14,081	158	14,239
ILLINOIS, URBANA L + 9,302,203 135,098 130,510 75,019 U/A U/A 90,954	ILLINOIS, CHICAGO	M+	2,022,611	56,650	32,872	33,395	15,125	1,109	16,234
	ILLINOIS, URBANA	L +	9,302,203	135,098	130,510	75,019	U/A	U/A	90,954

^{+ -} See Footnotes



L - Includes Law Library

M- Includes Medical Library

G - Government Documents Not Included in Serials Count

B - Includes Branch Campuses

b - Bibliographic Count

U/A - Unavailable N/A - Not Applicable

COLLECTIONS

	Microform Units	Government Documents	Computer Files	Archives and Manus.	Carto- graphic Materials	Graphic Materials	Audio Materials	Video and Film	
	(8)	(9)	(10)	(11)	(12)	(13)	(13) (14) (15) (Surv		
_									INSTITUTION
	3,529,849	1,169,022	4,044	27,715	275,471	178,605	20,397	2,649	ALABAMA
Я	3,621,675	0	7,397	15,047	1,378,050	U/A	U/A	U/A	ALBERTA
9	5,636,841	0	5,622	8,022	247,992	346,338	35,205	11,807	ARIZONA
ļ	7,032,553	771,830	5,837	15, 99 9	199,209	1,042,061	55 ,00 5	18,972	ARIZONA STATE
	2,462,002	394,405	1,088	8,800	139,824	437,191	40,404	11,291	AUBURN
	3,917,726	0	1,120	39,481	1,700	17,700	49,927	673	BOSTON
	2,450,309	407,086	5,081	17,174	236,170	18,383	52,905	3,080	BRIGHAM YOUNG
	4,795,351	831,317	5,012	10,381	535,400	451,876	116,410	10,138	BRITISH COLUMBIA
	1,719,330	U/A	3,724	8,039	137,756	906,907	58,185	3,796	BROWN
	6,148,532	104,941	8,677	U/A	393,222	3,108,473	71,083	19,121	CALIFORNIA, BERKELEY
المبله	3,936,054	123,715	4,488	11,964	245,406	213,099	13,981	895	CALIFORNIA, DAVIS
	2,352,378	312,396	5,878	2,366	9,473	71,664	12,654	3,990	CALIFORNIA, IRVINE
	6,001,443	69,832	6,094	70,197	622,732	4,370,412	219,015	20,910	CALIFORNIA, LOS ANGELES
	1,679,398	355,136	3,912	2,199	91,244	21,116	16,660	5,362	CALIFORNIA, RIVERSIDE
THE REAL	2,880,301	200,273	13,658	9,132	208,927	302,175	78,994	8,634	CALIFORNIA, SAN DIEGO
Ħ	3,644,290	479,660	9,641	17,241	4, 7 95, 607	7,320	89,392	3,624	CALIFORNIA, SANTA BARBARA
gri	2,324,704	78,147	4,235	985	64,000	72,316	28,434	5,629	CASE WESTERN RESERVE
	2,678,357	U/A	2,175	24,429	404,355	0	29,075	997	CHICAGO
	3,085,122	114,425	5,211	20,134	157,747	287,446	43,254	15,811	CINCINNATI
	6,1 53,71 5	1,497,600	9,389	39,592	210,889	360,846	47,511	11,230	COLORADO
23.5	2,453,704	294,931	5,493	1,768	63,144	2,398	6 ,73 7	198	COLORADO STATE
	5,372,150	184,197	U/A	210 ,227	130, 709	625,344	U/A	U/A	COLUMBIA
1 25	4,267,956	7,399	2,896	19,069	226,724	2,263	32,485	7,895	CONNECTICUT
	7, 488,73 5	U/A	7,367	57,477	233,867	34,036	85,333	14,938	CORNELL
	2,530,776	0	2,200	12,337	177,018	358,338	29,153	3,532	DARTMOUTH
1.4	3,086,224	425,397	4,411	3.184	123,141	3,192	1,521	10,241	DELAWARE
	3,9 53,71 7	1,386,066	5,044	26,870	128,924	30,176	24,308	13,401	DUKE
	3,493,406	130,566	3,017	11,818	25,924	2,812	21,622	10,924	EMORY
ы	6,514,862	1,267,632	16,788	8,165	715,318	280,770	23,366	10,565	FLORIDA
	5,724 ,5 00	947,657	4,242	4,195	168,766	7 00	41,786	7 ,195	FLORIDA STATE
	2,524,148	0	97 8	13,981	14,817	155,258	4,220	11,440	GEORGE WASHINGTON
P	4,109,902	8,554	11,391	15,166	1,155	84,554	54,827	11,370	GEORGETOWN
Ģ!	6,001,206	1,004,809	6,068	61 <i>,</i> 738	604,831	U/A	97,107	97,804	GEORGIA
į.	4,109,575	0	5,117	8, 77 5	188,648	100,946	1,866	3,749	GEORGIA TECH
L	1,561,134	0	2,103	7,499	72,730	U/A	9,317	7,337	GUELPH
	8,458,008	U/A	U/A	U/A	U/A	U/A	U/A	U/A	HARVARD
	5,868,922	0	3,243	6,096	249,550	1,891	25,133	20,706	HAWAII
FI.	3,878,346	670,1 77	1,362	2,810	4,631	210	3,961	2,382	HOUSTON
<u> </u>	3,627,014	U/A	325	17,000	10	1,300	23,000	850	HOWARD
الم واسد	3,423,008	735,250	1,211	21,104	178,764	232,987_	15,606	12,460	ILLINOIS, CHICAGO
<u> </u>	8,742,985	U/A	6,741	30,292	625,107	88,606	143,372	11,273	ILLINOIS, URBANA

U/A - Unavailable

N/A - Not Applicable



COLLECTIONS

		Volumes in Libr a ry	Volumes Added (Gross)	Volumes Added (Net)	Mono- graphs Purchased (Volumes)	Current Serials Purchased (Subs.)	Current Serials Not Purchased	Current Serials Total
(Survey Question #)		(1)	(2)	(3)	(4)	(5)	(6)	(7)
INSTITUTION	Notes							
INDIANA	L+	6,177,219	165,828	134,687	51,875	29,328	13,454	42,782
IOWA	LM+	4,027,546	124,456	100,202	53,765	27,956	16 ,8 20	44,776
IOWA STATE	+	2,203,833	39,148	36,539	24,057	1 1,31 3	10 ,301	21,614
JOHNS HOPKINS	bB M+	3,310,479	75,294	5 2,737	33,196	16,476	5,216	21,692
KANSAS	B LM+	3,681,288	76,90 1	7 3,76 6	46,950	17,021	1 6,168	33,18 9
KENT STATE	B +	2,434,685	50,584	42,114	13,523	9,185	3,498	12,683
KENTUCKY	LM+	2,792,293	56,197	41,659	23,179	15,138	11,401	26,539
LAVAL	LM+	2,375,924	57,664	49,294	21,252	8,770	2,369	11,139
LOUISIANA STATE	L+	3,054,740	70,969	48,384	25 ,2 03	17,933	4,136	22,069
MCGILL	ь LM +	3, 122,98 1	70,183	63,457	34,003	1 1,54 5	4,732	16,277
MCMASTER	M+	1,853,323	37,862	29,599	13,562	7,813	2,822	10,635
MANITOBA	GLM+	1,819,301	35,548	34,906	15,841	U/A	U/A	8,150
MARYLAND	+	2,772,663	132,284	72,744	31,668	13,119	16,911	30,030
MASSACHUSETTS	+	2.935.739	54,1 9 8	53,1 9 8	23,593	10,642	4,868	15,510
MIT	+	2,579,814	52,142	47,639	19,369	9,121	9,991	19,112
MIAMI	B LM+	2,180,436	54,091	15 ,396	32,143	14,556	1,874	16,430
MICHIGAN	LM+	7,19 5,097	151,140	123,255	91,99 3	34,343	34,827	69,170
MICHIGAN STATE	+	4,272,375	105,942	84,234	47,999	12,848	14,466	27,314
MINNESOTA	b LM+	5,747,805	155,893	134,634	3 7,49 3	32,269	13,427	45,696
MISSOURI	LM+	2,903,639	59,669	46,990	26,180	13 <i>,</i> 71 0	6,896	20,606
NEBRASKA	L+	2,560,210	60,767	59,196	19,143	11,661	11,598	23,259
NEW MEXICO	b LM+	2,294,405	60,648	49,286	24,267	11,878	5,923	17,801
NEW YORK	LM+	3,835,540	126,394	113,408	71, 5 05	29,587	1,905	31,492
NORTH CAROLINA		5,024,221	120,361	96,195	70,029	22,348	21,466	43,814
NORTH CAROLINA STATE	+	2,829,312	123,652	116,166	46,337	16,730	19,152	35,882
NORTHWESTERN	B LM+	4,014,312	81,964	60,108	35,702	U/A	U/A	40,008
NOTRE DAME	GL+	2,705,0 52	66,111	60,791	31,321	U/A	U/A	24,435
OHIO	B M+	2,236,59 5	65 ,99 9	61,921	U/A	U/A	U/A	32,788
OHIO STATE	b LM+	5,285,344	116,880	107,173	66,209	32,416	6,527	38,94 3
OKLAHOMA	LM+	4,107,132	62,979	57,169	21,363	16,216	773	16,989
OKLAHOMA STATE	B M+	2,193,110	157,472	154,158	30,472	U/A	U/A	22,913
OREGON	L+ .		58,863	56,977	30,298	10,808	5,441	16,249
PENNSYLVANIA	LM+	4,791,947	130,095	119,170	U/A	U/A	U/A	35,69 8
PENNSYLVANIA STATE	B LM+	4,391,05 5	153 ,45 4	130,536	U/A	28,069	10,524	38,59 3
PITTSBURGH	B LM+	3,984,764	127,816	74,740	U/A	U/A	U/A	24,048
PRINCETON	+	5,751,978	118,405	114,077	79,428	33,964	U/A	33,964
PURDUE	b +	2,315,137	39,494	34,456	12,699	12,112	7,945	20,057
QUEEN'S	ь GLM+	2,200,004	38,889	24,652	17,232	9,933	685	10,618
	+	2,067,848	66,174	48,780	37,163	12,115	3,232	15,347
RICE	GM+	3,036,025	49,621	43,977	20,370	10,736	735	11,471
ROCHESTER	BL+	3,777,538	89, 75 2	73,938	39,749	10,736 U/A	U/A	28,760
RUTGERS	<i>5</i> 6 T	المحالم المالمان		13,730	J7,/47	U/A	J/ A	-

^{+ -} See Footnotes



L - Includes Law Library

M- Includes Medical Library

G - Government Documents Not Included in Serials Count

B - Includes Branch Campuses

b - Bibliographic Count

U/A - Unavailable

N/A - Not Applicable

COLLECTIONS

	Microform Units	Government Documents	Computer Files	Archives and Manus.	Carto- graphic Materials	Graphic Materials	Audio Materials	Video and Film	
	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(Survey Question #)
_									INSTITUTION
	4,152,304	0	3,700	33,178	595,023	704,099	275,920	38,978	INDIANA
	6,355,468	1,037,244	11,723	13,507	365,370	228,029	24,368	9,783	IOWA
1	3,069,188	0	2,701	12,487	128 ,9 57	759,996	14,227	41,956	IOWA STATE
H	3,91 6,424	4,155	4,494	13,492	210,306	62,446	22,235	5,094	JOHNS HOPKINS
	3,296,750	689,779	7 ,25 3	42,520	319,690	2,903,605	29,58 5	17,625	KANSAS
П	1,269,694	69	4,078	9,848	271,032	24,551	23,702	23,561	KENT STATE
	5,900,455	1,148,516	4,732	22,687	242,757	563,420	38,930	34,670	KENTUCKY
	1,268,745	0	1,824	0	321,111	205,384	20,349	15,253	LAVAL
F	5,181,401	626,750	U/A	19,379	289,230	U/A	19,357	2,429	LOUISIANA STATE
	1,528,766	836,387	2,409	2,540	239,344	253,394	39,011	28,622	MCGILL
ĺ	1,482,900	0	35 6	11,281	139,268	3,774	33,673	2,264	MCMASTER
<u></u>	1,464,467	552,240	1,522	3,444	117,365	719,654	16,710	3,294	MANITOBA
	5,354,085	693,639	3,485	31,283	218,508	84,619	131,613	25 ,287	MARYLAND
	2,373,469	315,238	U/A	11,216	111,581	0	14,459	163	MASSACHUSETTS
П.	2,298,263	0	8,255	12,552	116,082	439,572	22,034	3,021	MIT
	4,245,624	U/A	1,805	12,829	38 ,325	974	5,479	3, 483	MIAMI
	5,879,325	. 0	46,809	31,766	314,832	1,697,466	32,796	21,483	MICHIGAN
iL	5,359,675	U/A	8,577	2,225	223,582	1,817	45,752	341	MICHIGAN STATE
	5,798,219	2,661,784	12,756	53,026	402,471	U/A	U/A	U/A	MINNESOTA
	6,564,619	1,746,281	U/A	7,832	U/A	U/A	U/A	U/A	MISSOURI
П	4,298,197	550,119	3,255	7,925	155,288	31,703	27,747	1,617	NEBRASKA
	6,512,416	291,938	8,376	17,489	217,755	1,532,118	40,999	7,191	NEW MEXICO
	4,331,927	445,843	3,224	18,522	0	970,651	42,570	14,211	NEW YORK
14	4,496,348	1,600,790	7,528	25,250	318,203	554,156	144,529	42,091	NORTH CAROLINA
	4,852,892	0	13,698	6,510	38,016	89,444	2,795	12,574	NORTH CAROLINA STATE
	3,629,259	7,600	5,584	19,573	196,994	372,180	55,385	15,647	NORTHWESTERN
П	3,309,497	0	2,298	U/A	U/A	U/A	15,618	3,857	NOTRE DAME
	2,968,584	0	6,964	12,352	171,203	124,758	49,897	23.183	OHIO
	4,623,336	112,233	5 ,33 8	25,048	194,013	1,943,114	32,378	U/A	OHIO STATE
7	3,820,663	1,458	2,166	11,980	150,951	403,586	2,427	3,859	OKLAHOMA
	4,205,727	86,659	12,101	5,497	290,793	187,728	9,103	11,741	OKLAHOMA STATE
	1,934,675	473,881	536	59,800	719,429	1,059,947	55,804	7,104	OREGON
R	3,336,249	U/A	4,524	12,000	125,904	577,808	52,184	2,244	PENNSYLVANIA
	4,735,785	2,414	5,781	24,075	415,331	545,352	52 ,5 73	136,494	PENNSYLVANIA STATE
	3,994,700	10,411	5,378	19,963	102,530	672,949	42,88 5	20,508	PITTSBURGH
Ð	4,746,602	577,097	U/A	43,110	310,723	41,384	54,238	331	PRINCETON
	2,343,074	484,749	4,101	2,710	298,653	874	820	8,591	PURDUE
	3,622,367	1,120,388	U/A	U/A	151,240	27,265	U/A	U/A	QUEEN'S
F	2,650,878	298,732	8,232	4,716	25,763	27,704	28,238	5,443	RICE
3	4,183,250	580,705	5, 22 2	13,250	98, 97 7	7,500	72,383	2,503	ROCHESTER
五百万百五	5,545,524	2,666,638	9,742	21,267	U/A	U/A	U/A	U/A	RUTGERS
IJ		2,000,000					': ·	= • • •	

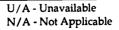
U/A - Unavailable

N/A - Not Applicable



COLLECTIONS

		Volumes in Library	Volumes Added (Gross)	Volumes Added (Net)	Mono- graphs Purchased (Volumes)	Current Serials Purchased (Subs.)	Current Serials Not Purchased	Current Serials Total
(Survey Question #)		(1)	(2)	(3)	(4)	(5)	(6)	(7)
INSTITUTION	Notes							
SASKATCHEWAN	LM+	1,762,898	45,753	26,127	16 ,5 25	7,823	4,659	12,482
SOUTH CAROLINA	LM+	3,143,505	<i>77,</i> 53 <i>7</i>	76,048	47,214	U/A	U/A	18 ,9 76
SOUTHERN CALIFORNIA	B LM+	3,539,184	77,046	58,331	30,154	21,812	6,380	28,192
SOUTHERN ILLINOIS	GL+	2,386,181	3 3,65 3	26,384	19,436	15,046	1,643	16 ,68 9
STANFORD	LM+	7,151 ,54 6	2 53 ,955	154,543	U/A	U/A	U/A	43,7 73
SUNY-ALBANY	B +	1,940,532	51,161	39,906	21 ,57 0	U/A	U/A	16,103
SUNY-BUFFALO	GLM+	3,162,696	67,554	55,948	23,938	16,751	6,016	22,767
SUNY-STONY BROOK	M+	2,055,942	33,099	30,569	21,856	8,291	2 ,2 03	10 ,494
SYRACUSE	b L+	2,763,851	39,573	30,469	20,434	U/A	U/A	15,612
TEMPLE	B LM+	2,449,366	44,399	39,401	23,525	10,690	5 ,405	16 ,09 5
TENNESSEE	B L +	2,376,414	5 9,84 8	53 ,69 1	30,5 15	16 ,656	6, 438	23,094
TEXAS	L +	7,783,847	1 46,6 16	135,169	53, 962	26,9 11	25,625	52,536
TEXAS A&M	bВ M+	2,646,568	103,533	97,098	59,606	24,787	11,845	36,632
TEXAS TECH	B LM+	2,141,536	65,952	61,648	29,605	15,879		27,102
TORONTO	B L+	8,668,036	223,903	190,904	129,783	40,950	10, 2 98	51,248
TULANE	BGLM+	2,201,401	5 4,82 6	52,741	24,311	U/A	U/A	1 3,87 3
UTAH	LM+	2 ,757,909	78,623	73 ,588	U/A	18 ,912	2,941	21 ,85 3
VANDERBILT	LM+	2,568,190	60,529	56,1 18	37,105	18,314	3 ,920	22,234
VIRGINIA	LM+	4,588,606	97,370	73,860	55,739	24,617	25,183	49,800
VIRGINIA TECH	+	2,029,711	54,868	25,027	1 7, 610	11,743	5 <i>,</i> 987	17 ,73 0
WASHINGTON	LM+	5,937,690	143,200	117,461	45,220	38,451	14,214	52,665
WASHINGTON STATE	B +	2 ,001,25 5	42,723	3 7,709	15 ,974	U/A	U/A	28,02 6
WASHINGTON UST. LOUIS	GLM+	3 ,350 ,1 22	80,107	53 ,764	23,364	18,419	285	18 ,70 4
WATERLOO	+	1,904,449	33,404	30 ,58 6	16, 96 7	13,430	U/A	13,430
WAYNE STATE	b LM+	3,081,312	43,845	35,631	19,960	18,420	U/A	18,420
WESTERN ONTARIO	L +	2,340,148	63,321	44,255	21,175	10 <i>,7</i> 92	3,186	13 ,9 78
WISCONSIN	LM+	5,962,889	90,704	62,471	50,742	29,849	10,406	40,255
YALE	LM+	10,294,792	194,315	186,421	126,057	55,924	<i>7,7</i> 31	63,655
YORK	B L +	2,317,438	77,138	6 6,486	37 ,388	U/A	U/A	1 4,964
BOSTON PUBLIC LIBRARY		6 ,838,2 14	1 <i>77,</i> 5 5 7	44,540	18 2,5 5 7	28,903	N/A	28,90 3
CANADA INST. SCITECH. INFO.	+	8,008,285	51 ,48 8	48,971	2,966	23,877	U/A	23,877
CENTER FOR RESEARCH LIBS.	ъG +	2,109,045	15,600	-1,035,188	1,768	U/A	U/A	14,839
LIBRARY OF CONGRESS	L +	24,616,867	253,172	251,602	146,389	16,907	133,093	150,000
NATL. AGRICULTURAL LIB.	+	2.315.313	28,269	22,789	4,484	5,195	16,724	21 ,9 19
NATL. LIBRARY OF CANADA	+	6,954,724	U/A	337,164	6 ,817	1,579	3 4,398	35 ,97 7
NATL. LIBRARY OF MEDICINE	M+	2,294,027	35 ,33 1	33,077	10 ,24 5	18,603	4,475	23,078
NEW YORK PUBLIC LIBRARY	G +	7,748,562	148,948	148,126	71,498	19,052	6,774	25,826
NEW YORK STATE LIBRARY	LM+	2,441,437	38,171	37,351	8,965	6,368	4,768	11,136
SMITHSONIAN INSTITUTION	B +	1,220,101	10,176	4,253	7,682	3,346	3,139	6,485





^{+ -} See Footnotes

L - Includes Law Library

M- Includes Medical Library

G - Government Documents Not Included in Serials Count

B - Includes Branch Campuses

b - Bibliographic Count

COLLECTIONS

	Microform Units	Government Documents	Computer Files	Archives and Manus.	Carto- graphic Materials	Graphic Materials	Audio Materials	Video and Film	
_	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(Survey Question #)
									INSTITUTION
	2,956,804	417,748	1,389	268	70,217	60,332	10,678	1,655	SASKATCHEWAN
	4,789,734	835,427	2,577	7,248	312 ,23 0	250,000	32,483	10,383	SOUTH CAROLINA
	5,764,715	487,581	3,012	43,964	U/A	3,197,625	26,513	15,762	SOUTHERN CALIFORNIA
1	4,214,334	440,085	6,388	18,789	322,836	20,604	25,516	6,182	SOUTHERN ILLINOIS
	5,092,874	40,621	7,065	73,865	272,125	689,673	327,568	26,916	STANFORD
	2,714,891	0	2,427	3, 994	49,809	49,074	4,9 2 2	3 ,27 8	SUNY-ALBANY
	5,230,416	U/A	3,647	7,400	198,981	115,000	40,104	5,706	SUNY-BUFFALO
	3,736,532	235,983	1,864	5,834	126,630	9,457	33,591	6 ,2 53	SUNY-STONY BROOK
	4,649,733	311,816	6,870	54,769	190,604	439,283	364,102	13,876	SYRACUSE
1	2,778,341	201,185	2,478	32,876	115,079	10,000,000	19,544	3,954	TEMPLE
	4,705,639	5,383	3,958	9,473	361,019	136,871	29,422	8,683	TENNESSEE
	5,624, 78 3	0	4,284	99,202	336,824	8,777, 2 55	124,399	15,269	TEXAS
L_	4,899,720	65,519	9,115	13,512	176,342	233,529	13,334	15,580	TEXAS A&M
	2,168,127	4,222	8,637	13,023	70,620	521,746	12,220	15,611	TEXAS TECH
	4,659,023	U/A	8,978	30,918	276,865	608,871	180,996	16,457	TORONTO
Ŋ	3, 660,30 5	1,191,936	1,697	39,849	5,93 5	249,373	82,251	2,549	TULANE
N	3,47 6,589	819 ,31 3	5,114	24,173	214,776	91 5,67 5	37,862	18 ,56 5	UTAH
	2,814,612	244,567	5,674	9,459	104,852	13,818	25,925	4,910	VANDERBILT
U.	5,161,698	709,933	14,526	23,505	143,286	422,218	54,644	18,210	VIRGINIA
	6,089,735	399,525	8,537	9,700	132,769	65,523	8,744	9,561	VIRGINIA TECH
	7,069,700	U/A	11,306	60,767	342,521	950,980	71,901	14,085	WASHINGTON
1	3,880,305	U/A	U/A	17,179	75 1	276,950	11,349	27,657	WASHINGTON STATE
	2 043 468	Λ	4,778	14,076	111,885	6,274	28,923	7,484	WASHINGTON UST. LOUIS
	1,528,382	TU/A	430	3,463	140,322	U/A	1, 43 2	: 77	WATERLOO
Ц.	3,483,916	411,659	1,862	76,500	51,775	1,700,500	38,090	20,331	WAYNE STATE
	3,551,983	0	1,312	9,434	2,081	51,295	42,835	2,859	WESTERN ONTARIO
	4,473,041	283,661	6,976	9,165	265,291	25,852	183,902	16,395	WISCONSIN
	5,821,101	1,125,350	U/A	55,168	443,857	2,244,378	193,567	5,039	YALE
	3,684,343	0	929	7,374	109,518	8,647	42,833	8,789	YORK
	6,186,899	1,666,396	1,461	N/A	0	. 266	44,977	16,634	BOSTON PUBLIC LIBRARY
	U/A	0_	3,244	0	0	0	2	400	CANADA INST. SCITECH. INFO.
L	1,529,409	U/A	U/A	0	U/A	U/A	U/A	U/A	CENTER FOR RESEARCH LIBS.
	12,555,509	U/A	51,969	53,120	4,523,049	13,808,914	2,452,699	821,527	LIBRARY OF CONGRESS
Г	1,071,337	U/A	1,461	18,526	1,648	819	461	3,529	NATL. AGRICULTURAL LIB.
	6,438,698	3,309,611	153	6,752	N/A	90,324	204,415	2,9 02	NATL LIBRARY OF CANADA
	509,182	0	1,520	Ū/A	0_	56,684	U/A	64,933	NATL LIBRARY OF MEDICINE
=	5,386,635	9,000	N/A	32,192	421,955	4,238,054	542,261	45,516	NEW YORK PUBLIC LIBRARY
	6,799,232	U/A	5,542	27,000	200,500	69,000	50	10	NEW YORK STATE LIBRARY
	186,402	0	327	2,103	6	2	45	24	SMITHSONIAN INSTITUTION

U/A - Unavailable

N/A - Not Applicable



SUMMARY DATA: COLLECTIONS

	Volumes in Library	Volumes Added (Gross)	Volumes Added (Net)	Mono- graphs Purchased (Volumes)	Current Serials Purchased (Subs.)	Current Serials Not Purchased	Current Serials Total
(Survey Question #)	(1)	(2)	(3)	(4)	(5)	(6)	(7)
		_		_			
UNIVERSITY LIBRARIES:							
Median	2,772,663	67,554	57,169	30,298	15,509	6,380	22,767
High	14,190,704	308,843	287,317	144,962	55,924	34,827	105,837
Low	1,762,898	17,697	15,396	9,750	6,638	158	7,609
Totals	398,418,629	9,570,560	8,094,003	3,651,808	1,479,705	631,166	3,153,523
Number of Libraries Responding	111	111	111	99	82	79	111
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NONUNIVERSITY LIBRARIES:	•	•				. 2	
Median	4,639,826	38,171	40,946	8,324	16,907	6,774	23,478
Totals	64,546,575	758,712	-107,315	443,371	123,830	203,371	342,040
Number of Libraries Responding	10	9	10	10	9	7	10
GRAND TOTALS:	462,965,204	10,329,272	7,986,688	4,095,179	1,603,535	834,537	3,495,563



SUMMARY DATA: COLLECTIONS

Microform Units	Government Documents	Computer Files	Archives and Manus.	Carto- graphic Materials	Graphic Materials	Audio Materials	Video and Film	
(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(Survey Question #)
								UNIVERSITY LIBRARIES:
3,936,054	291,938	4,755	13,507	189,626	205,384	32,484	9,561	Median
8,742,985	2,666,638	46,809	210,227	4,795,607	10,000,000	364,102	136,494	High
1,268,745	0	325	0	. 0	0	820	77	Low
455,866,843	41,827,671	578,63 7	2,361,544	27,885,352	64,083,533	5,385,634	1,335,441	Totals
111	97	. 102	107	106	101	104	103	Number of Libraries Responding
e the						-		
	; 							
	**							NONUNIVERSITY LIBRARIES:
5 ,386,63 5	4,500	1,491	12,639	827	56,684	22,719	3,529	Median
40,663,303	4,985,007	65,677	139,693	5,147,158	18,264,063	3,244,910	955 <i>,</i> 475	Totals
9	6	8	8	8	9	8	9	Number of Libraries Responding
. "								
**								
496,530,146	46,812,678	644,314	2501,237	33,032,510	82,347,596	863,0544	2,290,916	GRAND TOTALS:



EXPENDITURES

		Monographs	Current Serials	Other Library Materials	Misc. Materials	Total Library Materials	Contract Binding
(Survey Question #)		(16)	(17)	(18)	(19)	(20)	(21)
INSTITUTION	Notes		· 				
ALABAMA	LM+	1,021,449	3,312,565	9,961	33,585	4,377,560	154.675
ALBERTA	b LM+	1,506,651	4.484.221	0	304,059	6,294,931	97,467
ARIZONA	b LM+	2,521,701	5,552,572	5 79,412	428 ,85 5	9,082,540	231,7 03
ARIZONA STATE	BL+	2,314,073	5,170,441	584,708	262,973	8,332,195	177,876
AUBURN	+	1,846,571	2,369,097	U/A	465	4,216,133	89,274
BOSTON	LM+	899,717	3,925,256	392,549	13,500	5,231,022	222,796
BRIGHAM YOUNG	+	1,588,030	3,215,600	345,095	0	5,148,725	184,997
BRITISH COLUMBIA	LM+	1,983,907	4,830,344	U/A	677,524	7.491,774	141,419
BROWN	+	1,441,597	3,439,554	47,095	184,829	5,113,075	228,196
CALIFORNIA, BERKELEY	L+	6,112,128	6,771,484	U/A	U/A	12.883.612	796,9 81
CALIFORNIA, DAVIS	b LM+	2,977,616	5,064,673	81,250	385,919	8,509,458	279,453
CALIFORNIA, IRVINE	M+	1,702,875	3,038,346	56,191	847,389	5,644,801	167,158
CALIFORNIA, LOS ANGELES	LM+	4,786,476	5,099,135	725,685	333,483	10,944,779	609,107
CALIFORNIA, RIVERSIDE	+	1,242,058	2, 440, 0 5 0	301,948	16 ,2 70	4,000,326	168,0 31
CALIFORNIA, SAN DIEGO	M+	1 ,545,1 97	3 ,997,385	3 13,67 0	19,877	5,8 76, 12 9	345,182
CALIFORNIA, SANTA BARBARA	b +	1.838.622	2,953,852	U/A	U/A	4,792,474	205,0 59
CASE WESTERN RESERVE	LM+	686,473	3,651,335	64,949	6,595	4,409,352	103,570
CHICAGO	b LM+	3,714,053	5,402,537	97,818	0	9,214,408	421,845
CINCINNATI	LM+	1,433,335	4,763,391	186,136	170,599	6,553,461	168,946
COLORADO	b +	1,676,318	4,858,433	779, 471	8 40, 591	8 ,154,8 13	201,530
COLORADO STATE	+	1,164,806	3,169,836	47, 92 7	454,484	4,83 7,053	109,89 8
COLUMBIA	LM+	4,790,279	7,186,084	0	0	11 ,9 76 ,363	765,202
CONNECTICUT	BGLM+	1,103,635	4,360,960	774,312	119,244	6,358,151	268,707
CORNELL 6	B L +	3,532,283	5,886,508	1,475,265	218,246	11,112,302	197,469
DARTMOUTH	M+	1,423,855	3,175,166	707,390	0	5,306,411	226,804
DELAWARE	+	2.172,829	3,036.002	380,672	288,747	5,878,250	115.017
DUKE	GLM+	3,191,214	5,9 29,5 58	217,321	48 9.4 51	9,827,544	271,257
EMORY	B LM+	3,112,607	5, 05 3, 972	280. 805	219,869	8, 667,25 3	174,711
FLORIDA	B LM+	2,044,623	4,923,941	1,130,695	747,456	8,846,715	228,973
FLORIDA STATE	BGL +	970,178	3,692,108	173,312	369,166	5,204,764	199,991
GEORGE WASHINGTON	LM+	1,022,228	3,862,012	218,209	722,427	5,824,876	116,503
GEORGETOWN	LM+	1,560,446	4,600,075	425,375	144,940	6,730,836	237,407
GEORGIA	L +	2.298.244	5 .72 6.213	366,837	177,317	8 ,568 ,61 1	250,129
GEORGIA TECH	+	852,642	2.952.446	478,3 15	0	4,283,403	60,556
GUELPH	bG+	434,649	1,885,180	U/A	182,110	2,501,940	51,306
HARVARD	LM+	7,903,569	8,461, 68 9	4,834,747	25,363	21,225,368	1,174,579
HAWAII	+	1,293,446	2,802,035	40,575	0	4,136,056	258,566
HOUSTON	GL+	1,176. 9 21	3.005,038	56 2,3 86	244,264	4.988,609	124,192
HOWARD	LM+	385.403	3,206,661	49,407	2.847,637	6.489.108	1 06,70 0
ILLINOIS, CHICAGO	M+	1,426,531	4.036,494	226,288	00	5 ,689,3 13	1 50,1 05
ILLINOIS, URBANA	L +	3,089,940	5,356,344	99,356	900,911	9,446,551	218,204

^{+ -} See Footnotes

L - Includes Law Library

M- Includes Medical Library



G - Government Documents Not Included in Serials Count

B - Includes Branch Campuses

b - Bibliographic Count

³²

U/A - Unavailable N/A - Not Applicable

EXPENDITURES

	Salaries & Wages Professional Staff	Salaries & Wages Support Staff	Salaries & Wages Student Assistants	Total Salaries & Wages	Other Operating Expenditures	Total Library Expenditures	
	(22)	(23)	(24)	(25)	(26)	(27)	(Survey Question #)
_							INSTITUTION
•	2,182,706	1,407,231	526,323	4,116,260	1,089,306	9,737,801	ALABAMA
4	2,523,244	4,538,797	434,941	7,496,982	962,178	14,851,558	ALBERTA
	4,058, 00 2	3,914,174	1,014,557	8,986,733	2,796,096	21,097,072	ARIZONA
	4,084,681	5,045,457	782,440	9,912,578	2,372,833	20,795,484	ARIZONA STATE
<u></u>	1,998,315	1,426,183	410,747	3,835,245	2,657,944	10,798,596	AUBURN
	3,760,020	2,644,290	497,804	6,902,114	2,068,383	14,424,315	BOSTON
	4,632,375	921,690	1,902,016	7,456,081	2,050,511	14,840,314	BRIGHAM YOUNG
1	3,850,501	4,860,317	1,037,023	9,747,841	1,951,145	19,332,180	BRITISH COLUMBIA
数一位	3,695,151	2,742,913	341,76 0	6,779,824	3,091,477	15,212,572	BROWN
2	U/A	U/A	U/A	20,361,969	3,917,333	37,959,895	CALIFORNIA, BERKELEY
	3,322,979	4,760,333	919,495	9,002,807	1,448,275	19,239,993	CALIFORNIA, DAVIS
	3,324,078	3,708,008	1,093,431	8,125,517	1,806,076	15,743 ,5 52	CALIFORNIA, IRVINE
	8,110,184	9,427,216	2,536,680	20,074,080	6,356,054	37,984,020	CALIFORNIA, LOS ANGELES
4	2,250,430	2,089,833	631,320	4,971,583	967,755	10,107,695	CALIFORNIA, RIVERSIDE
21,62	3,769, 9 63	5,073,246	1,125,333	9,968 ,54 2	2,948,877	19,138, 73 0	CALIFORNIA, SAN DIEGO
	2,337,837	3,294,146	722 ,29 6	6,354,279	1,936,476	13,288,288	CALIFORNIA, SANTA BARBARA
	3,018,490	1,502,538	528,342	5,049,370	1,232,820	10,795,112	CASE WESTERN RESERVE
•	3,507,041	4,776,919	1,361,590	9,645,550	2,685,893	21,967,696	CHICAGO
	3,512,290	3,607,976	859 ,666	7,979,932	2,735,395	17,437,734	CINCINNATI
11	2,326,561	3,648,846	860,697	6,836,104	1,433,564	16,626,011	COLORADO
3.78	1,800,596	2,287,885	468,093	4,556,574	960 ,29 4	10,463,819	COLORADO STATE
	8,272,183	6,453,675	1,348,856	16,074,714	3,485,954	32,302,233	COLUMBIA
ت	4,643,716	4,019,460	833,370-	9,496,546	5,697, 7 67	21,821,171	CONNECTICUT
	8,591,635	5,758,246	984,863	15,334,744	5,617,564	32,262,079	CORNELL
	2,621,752	2,740,989	327,475	5,690,216	1,458,867	12,682,298	DARTMOUTH
3	2,707,945	2,470,347	506,347	5,684,639	1,045,102	12,723,008	DELAWARE
が	5,716,450	4,222,572	527,031	10,466,053	3,242,881	23,807,735	DUKE
12 L	4,166,148	4,304,945	702,693	9,173,786	5,193,585	23,209,335	EMORY
-	4,214,193	4,491,079	998,582	9,703,854	2,652,805	21,432,347	FLORIDA
	2,463,027	2,122,376	453,121	5,038,524	<i>7</i> 75 ,2 87	11,218,566	FLORIDA STATE
	3,194,694	2,813,845	718,277	6,726,816	1,940,749	14,608,944	GEORGE WASHINGTON
風	3,913,891	3,515,861	802,413	8,232,165	2,409,592	17,610,000	GEORGETOWN
	3,625,850	4,213,941	719,934	8,559,725	3,017,834	20,396,299	GEORGIA
京等 3	2,270,7 55	1,253,689	104,925	3,629,369	905,874	8,879,202	GEORGIA TECH
	1,016,397	2,046,031	78,147	3,140,575	405,129	6,098,951	GUELPH
	22,475,897	16,270,278	1,209,401	39,955,576	14,665,800	77,021,323	HARVARD
	2,700,057	2,351,870	1,055,133	6,107,060	681,001	11,182,683	HAWAII
S	1,957,844	1,655,206	541,997	4,155,047	1,686,522	10,954,370	HOUSTON
	2,434,397	2,317,125	421,463	5,172,985	2,738,982	14,507,775	HOWARD
14	3,242,062	3,940,561	476,790	7,659,413	2,143,289	15,642,120	ILLINOIS, CHICAGO
حانت	6,839,440	5,983,387	1,222,466	14,045,293	2,989,969	26,700,017	ILLINOIS, URBANA

U/A - Unavailable

N/A - Not Applicable



EXPENDITURES

	1	Monographs	Current Serials	Other Library Materials	Misc. Materials	Total Library Materials	Contract Binding
(Survey Question #)		(16)	(17)	(18)	(19)	(20)	(21)
INSTITUTION	Notes						
INDIANA	L+	2,631,181	4,968,996	1,099,278	461,250	9,160,705	301,645
IOWA	LM+	1,828,603	4,669,892	1,506,280	247,873	8,252,648	208,316
IOWA STATE	+	1,277,270	4,327,904	576,658	50 ,53 3	6,232,365	1 76,89 6
JOHNS HOPKINS	b B M+	2,303,636	5 ,569 ,124	719,840	308,443	8, 901,043	134,87 1
KANSAS	B LM+	2 ,243,29 5	3,875,652	126,977	119,306	6,365,230	177,39 5
KENT STATE	B + -	758,797	1,960,790	75,432	96,131	2,891,150	104,995
KENTUCKY	LM+	1,322,368	4,368,252	121,246	581,624	6 ,39 3 ,49 0	148,761
LAVAL	LM+	1,079,213	2,395,909	82,808	84,575	3,642,504	6,045
LOUISIANA STATE	L+	850,028	3,140,970	2 25,3 65	57 ,924	4,274,287	118,096
MCGILL	b LM+	1,8 06,5 86	3 ,2 13,966	6 28,34 5	179,343	5,828,240	134,696
MCMASTER	M+	538,812	3,095,770	5,043	10,864	3,650,489	107,241
MANITOBA	GLM+	796,706	2,422,833	U/A	146,291	3,365,829	103,098
MARYLAND	+	1,915,621	3,468,079	154,369	993, 7 88	6,531,857	207,276
MASSACHUSETTS	+	1,011,836	3,385,431	74,876	69,272	4,541,415	142,372
MIT	+	1,137,736	3, 907,6 07	0	104,409	5 ,149,732	21 8,93 8
MIAMI.	B LM +	1,008,337	4,644,507	2,500	205,08 0	5 ,860,424	121,473
MICHIGAN	LM+	5 ,665,587	9,271,891	266,525	548,651	15,752,654	418,316
MICHIGAN STATE	+ ~	1,860,280	4,232,523	U/A	91,772	6,184,575	297,552
MINNESOTA	b LM+	2,280,033	5,929, 985	680,814	1,05 4,7 31	9,945,563 -	426,739
MISSOURI .	LM+	1,231,845	4,372,697	837	69,202	5,67 4,581	137,172
NEBRASKA	L+	998,367	3,993,004	311,256	41,718	5 ,344,345	174,2 15
NEW MEXICO	ь LM+	1,338,515	3,243,988	410,291	99,858	5,092,652	91 ,27 5
NEW YORK	LM+	3 ,571,958	5 ,279,349	834,953	149,271	9,835,531	557,97 3
NORTH CAROLINA	LM+	3,104,865	5,185 ,674	1,688,524	116,003	10,095,066	289,429
NORTH CAROLINA STATE	+	2,127,855	4,514,263	636,750	38 7,766	7,666,634	239,159
NORTHWESTERN	B LM+	2,468,174	4,310,569	328,617	968,305	8,075,665	137,944
NOTRE DAME	GL+	2,281,522	3 ,546,27 2	804,530	231,056	6 ,863,380	97,984
OHIO	B M+	1, 226,33 8	2, 400 ,951	6 26,999	6 9,22 5	4,323,513	111,045
OHIO STATE	b LM+	2,862,199	7,268,97 1	100,911	1 00,75 3	10,332,834	310,019
OKLAHOMA	LM+	1,451,914	3,733,159	394,116	289,076	5,868,265	121,416
OKLAHOMA STATE	B M+	1,168,405	2,521, 7 81	183,474	436,494	4,310,154	134,298
OREGON	<u>L+</u>	1,386,844	3,213,791	0	664,104	5,264,739	147,962
PENNSYLVANIA	LM+	3,151,051	6,1 20,5 03	447,689	U/A	9, 719,243	321,020
PENNSYLVANIA STATE	В LM+	3, 786,543	6,831,304	1 ,768,4 85	388,2 68	12,774,600	5 29,1 27
PITTSBURGH	B LM+	2,457,709	5 ,207,9 83	445,372	130,455	8,241,519	398,832
PRINCETON	+	3,871,790	5,347,288	1,418,649	U/A	10,637,727	510,136
PURDUE	b +	627,568	4,093,793	U/A	0	4,721,361	122,240
OUEEN'S	ь G <u>LM+</u>	960,011	3,253,454	10,224	58,092	4,281,780	105,750
RICE	+	2,595,672	3,403,650	538,829	256,762	6,794,913	82,016
ROCHESTER	GM+	1,060,567	3,478,202	176,160	49,474	4,764,403	11 5,2 02
RUTGERS	8 L +	1,486,724	4,723,625	800,947	81 9,959	7,831,255	260,971

^{+ -} See Footnotes

M-Includes Medical Library



G - Government Documents Not Included in Serials Count L - Includes Law Library

B - Includes Branch Campuses

b - Bibliographic Count

U/A - Unavailable N/A - Not Applicable

EXPENDITURES

	Salaries & Wages Professional Staff	Salaries & Wages Support Staff	Salaries & Wages Student Assistants	Total Salaries & Wages	Other Operating Expenditures	Total Library Expenditures	
	(22)	(23)	(24)	(25)	(26)	(27)	(Survey Question #)
				_			INSTITUTION
	6,070,211	4,071,804	1,660,235	11,802,250	3,276,661	24,541,261	INDIANA
	4,567,405	3,640,881	881,988	9,090,274	2,977,788	20,529,026	IOWA
1	2,100,915	3,267,198	515,860	5,883,973	1,416,398	13,709,632	IOWA STATE
1.0	4,272,805	4,814,905	507,648	9,595,358	5,5 25 ,898	24,157,170	JOHNS HOPKINS
	4,211,722	2,841,408	950, 99 9	8,004,129	2,326,188	16,872,942	KANSAS_
<u> </u>	3,234,837	1,850,159	777,896	5,862,892	1,955,622	10,814,659	KENT STATE
	4,822,986	2,290,856	1,578,399	8,692,241	2,508,406	17,742,898	KENTUCKY
	2,182,3 25	2,684,523	50,392	4,917,240	385,847	8,951,637	LAVAL
F. S.	2,365,930	1,920,036	646,678	4,932,644	1,480,943	10,805,970	LOUISIANA STATE
S. S. S. S.	2,550,598	3,349,511	484,806	6,384,915	668,942	13,016,793	MCGILL.
39	1,290,986	2,382,308	130,632	3,803,926	563,840	8,125,496	MCMASTER .
-1-	2,096,111	2,564,533	349,418	5,010,062	1,358,862	9,837,851	MANITOBA
	4,869,246	3,564,544	1,220,974	9,654,764	986,962	17,380,859	MARYLAND
	3,001,864	2,616,224	407,835	6,025,923	930,921	11,640,631	MASSACHUSETTS
	3,457,984	2,707,896	321,017	6,486, 89 7	1,862,780	13,718,367	MIT
	3, 055,82 6	2,199,914	324,458	5,580,198	1,271,405	12,833,500	MIAMI
	6,773,224	9,607,214	1,947,462	18,327,900	4,811,938	39,310,808	MICHIGAN
7	3,210,196	3,673,079	1,271,904	8,155,179	3,547,418	18,184,724	MICHIGAN STATE
3 11	5,689,805	6,532,664	2,045,733	14,268,202	5, 074,9 89	29,715,493	MINNESOTA
7"	2,634,765	2,417,526	435,017	5 ,487,30 8	1,593,015	12,892,076	MISSOURI
	2,303,550	2,373,279	539,191	5,216 ,02 0	1,176,038	11,910,618	NEBRASKA
	3,589,263	4,488,201	1,212,926	9,290,390	3,199,940	17,674 ,2 57	NEW MEXICO
	5,654,786	7,163,812	1,497,707	14,316, 30 5	3,703,101	28,412,910	NEW YORK
42 0	5,848,594	4,903,289	947,099	11,698,982	3,497,480	25,580,957	NORTH CAROLINA
	3,240,328	3,147,585	883,938	7,271,851	4,453,370	19,631,014	NORTH CAROLINA STATE
	5,363,7 51	3,461,095	827,965	9,652,811	2,405,533	20,271,953	NORTHWESTERN
1	2,614,997	3,736,607	401,285	6,752.889	3.070,628	16,784,881	NOTRE DAME
	2,430,283	2,086,409	683,111	5,199,803	1,525,518	11,159,879	OHIO
2.5	5,375,847	4,647,876	1,545,242	11,568, 96 5	3,499,281	25,711,099	OHIO STATE
معيمتها	2,113,228	1,344,170	585,167	4,042,565	1,747,613	11,779,859	OKLAHOMA
	2,498,198	1,274,3 7 9	529,857	4,302,434	1,834,275	10,581,161	OKLAHOMA STATE
	2,565,338	2,060,678	878,582	5,50 4,59 8	1,544,530	12,461,829	OREGON
71.00 (186)	5,363,076	5,563,317	887,024	11,813,417	7,886,423	29,740,103	PENNSYLVANIA
200	5,285,919	9,267,957	1,089,379	15,643,255	5,220,930	34,167,912	PENNSYLVANIA STATE
30	4,116,096	3,518,236	868,763	8,503, 09 5	3,619,086	20,762,532	PITTSBURGH
	6,700,746	5,529,184	568,415	12,798,345	5,839,592	29,785,800	PRINCETON
	2,692,951	2,692,382	600,835	5,986,168	2,071,391	12,901,160	PURDUE
	1,474,483	2,717,214	226,925	4,418,622	499,891	9,306,043	QUEEN'S
19	2,299,917	1,320,907	161,635	3,782,459	900,252	11,559,640	RICE
i a	3,217,274	1,709,615	445,819	5,372,708	2,211,2 59	12,463,572	ROCHESTER
	7,144,254	7,969,225	1,431,322	16,544,801	1,397,781	26,034,808	RUTGERS

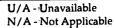
U/A - Unavailable

N/A - Not Applicable



EXPENDITURES

		Monographs	Current Serials	Other Library Materials	Misc. Materials	Total Library Materials	Contract Binding
(Survey Question #)		(16)	(17)	(18)	(19)	(20)	(21)
INSTITUTION	Notes		_				
SASKATCHEWAN	LM+	817,088	2,682,140	U/A	114,837	3,614,065	64,353
SOUTH CAROLINA	LM+	1,662,211	3,874,644	275,792	52, 444	5,865,091	202,359
SOUTHERN CALIFORNIA	B LM+	2,062,968	5,123,050	736,233	523,144	8,445,395	232,292
SOUTHERN ILLINOIS	GL+	841,695	3,590,479	161,239	520,852	5,114,265	141,432
STANFORD	LM+	8 ,259,18 0	7,515,033	U/A	U/A	15,774,213	739,20 9
SUNY-ALBANY	B +	901,289	2,380,905	255,071	364,011	3,901,276	70,872
SUNY-BUFFALO	GLM+	1,211,631	4,098,075	330,666	147,743	5,788,115	150 ,73 6
SUNY-STONY BROOK	M+	1,033,253	3,316,262	43,075	449,214	4,841,804	86,309
SYRACUSE	bL+	764,999	2,926,789	101,373	201,879	3,995,040	80,455
TEMPLE	B LM+	1,044,880	3,397,675	352,472	2,967	4,797,994	169,014
TENNESSEE	BL+	1,363,906	4,079,972	88,985	1 53,07 0	5, 685,933	136,977
TEXAS	L+	3,111,956	5,650,872	1,362,243	40,978	10,166.049	177,030
TEXAS A&M	bB M+	2,038,264	4,028,601	1,626,159	100,000	7,793,024	168,288
TEXAS TECH	B LM+	1,479,458	3,807,362	404,464	299,893	5, 991,177	86,617
TORONTO	B L+	5,423,799	6,702,705	1,530,201	U/A	13,656,705	278,388
TULANE	BGLM+	1,096,466	3,073,653	110,910	138 ,254	4,419,283	106,577
UTAH	LM+	2,072,698	4,603,3 05	310,421	3 77,883	7,364,307	241, 69 6
VANDERBILT	LM+	1,657,797	4 ,577 ,145	781,356	0	7,016,298	1 92,93 2
VIRGINIA	LM+	2,556,392	4,603,144	704,947	175,752	8,040,235	197,904
VIRGINIA TECH	+	965,647	4,105,885	54,965	340,366	5,466,863	137,855
WASHINGTON	LM+	3,539,392	7,072,163	7, 85 5	318,870	10,938,280	275, 79 5
WASHINGTON STATE	B +	773,132	3,998,333	44,192	6 9,456	4,885,113	113,351
	GLM+	1,307,759	4,435,653	301,609	955,382	7,000,403	137,627
WASHINGTON UST. LOUIS	+	701,773	2,231,692	0	297,456	3,230,922	56,470
WATERLOO WAYNE STATE	b LM+	1,357,302	3,279,638	U/A	1,079,356	5,716,296	87,434
WESTERN ONTARIO	L+	1,001,719	3,597,263	U/A	371,410	4,970,392	122,354
WISCONSIN	LM+	2,092,922	4,390,768	1.602.753	. 0	8,086,443	206,947
**	LM+	3.516,000	6,289,000	7,856,000	0	17,661,000	482,000
YALE			·				134,138
YORK	BL+	1,087,581	2,908,600	73,789	95, 96 6	4,165,936	104,671
BOSTON PUBLIC LIBRARY		5,146,673	1,142,850	400,586	409,633	7,099,742	N/A
CANADA INST. SCITECH. INFO	+	367,037	5,840,823	N/A	35,345	6, 243,205	0
CENTER FOR RESEARCH LIBS.	bG+	75,686	317,096	637,884	13,071	1,043, 73 7 8,700,608	1,124,400
LIBRARY OF CONGRESS	L+	3,041,225	2,410,962	3,141,909	106,512		
NATL. AGRICULTURAL LIB.	+	248,771	2,229,050	6,500	0	2,484,321	98,200
NATL. LIBRARY OF CANADA	+	367,622	428,057	425,008	52,842	1,273,529	4,516
NATL. LIBRARY OF MEDICINE	<u>M+</u>	894,266	4,302,615	173,916	U/A	5,370,797	230,000
NEW YORK PUBLIC LIBRARY	G +	4,932,210	3,905,731	2,149,385	U/A	10,987,326	437,628
NEW YORK STATE LIBRARY	LM+	690,577	1,678,672	N/A	0	2,369,249	38,857
SMITHSONIAN INSTITUTION	B +	557,651	959,243	54,058	139,519	1,710,471	55,851





^{+ -} See Footnotes

L - Includes Law Library

M- Includes Medical Library

G - Government Documents Not Included in Serials Count

B - Includes Branch Campuses

b - Bibliographic Count

EXPENDITURES

1	Salaries & Wages Professional Staff	Salaries & Wages Support Staff	Salaries & Wages Student Assistants	Total Salaries & Wages	Other Operating Expenditures	Total Library Expenditures	
	(22)	(23)	(24)	(25)	(26)	(27)	(Survey Question #)
							INSTITUTION
	1,506,797	1,980,100	181,895	3,668,792	747,484	8,094,695	SASKATCHEWAN
	3,502,877	3,065,014	725,056	7,292,947	3,553,547	16,913,944	SOUTH CAROLINA
	6,076,834	4,767,597	958,442	11,802,873	4,396,762	24,877,322	SOUTHERN CALIFORNIA
26	2,187,298	2,316,111	1,134,013	5,637,422	1,787,898	12,681,017	SOUTHERN ILLINOIS
	13,136,372	10,231,059	2,050,912	25,418,343	10,841,023	52,772,788	STANFORD
200	1, 995,92 6	1,897,146	464,290	4,35 7,36 2	1,079, 65 8	9,409,168	SUNY-ALBANY
ا	5,064,159	1,971,861	818,551	7,854,571	1,520,096	15,313,518	SUNY-BUFFALO
	2,480,720	1,875,826	554,281	4,910,827	1,272,313	11,111,253	SUNY-STONY BROOK
	2,296,129	2,661,870	495,419	5,453,418	1,235,095	10,764,008	SYRACUSE
1.5	3,140,350	1,824,935	461,826	5,427,111	1,584,894	11,979,013	TEMPLE
1	2,848,633	2,695,728	466,692	6,011,053	1,648,609	13,482,572	TENNESSEE
39	6,101,144	6,916,696	1,119,122	14,136,962	4,215,544	28,695,585	TEXAS
	4,499,548	3,155,129	1,153,194	8,807,871	3,078,998	19,848,181	TEXAS A&M
	2,834,042	1,783,694	1,012,721	5,630,457	1,457,047	13,165,298	TEXAS TECH
Ţ	7,113,803	8,594,775	1,909,403	17,617,981	4,144,329	35,697,404	TORONTO
255 Z	2,493,018	1,759,253	398,063	4,650,334	1,692,440	10,868,634	TULANE
	3,139,477	4,363,948	1,311,670	8,815, 09 5	4,570,180	20,991,278	UTAH
	4,007,989	2,989,352	516,1 47	7,513,488	2,704,851	17,427,569	VANDERBILT
ــلمــثة	5,807,680	6,532,605	928,441	13,268,726	2,879,519	24,386,384	VIRGINIA
	1,751,410	2,274,518	612,120	4,638,048	1,049,786	11,292,552	VIRGINIA TECH
	6,833,004	6,039,383	1,794,808	14,667,195	4,261,749	30,143,019	WASHINGTON
¥98	1,975,957	2,970,568	648,632	5,595,157	1,175,485	11,769,106	WASHINGTON STATE
1	4,546,26 2	3,413,058	525,158	8,484,478	6,628,462	22,250,970	WASHINGTON UST. LOUIS
	1,459,02 0	2,080,640	301,365	3,841,025	576,519	7,704,935	WATERLOO
كنب	3,935,833	2,834,439	1,203,129	7,973,401	2,960,130	16,737,261	WAYNE STATE
_	U/A	U/A	227,522	4,626,588	394,185	10,113,520	WESTERN ONTARIO
	7,875,076	5,901,418	2,081,920	15,858,414	5,529,772	29,681,576	WISCONSIN
	10,124,000	8,166,000	729,00 0	19,019,000	5,629,000	42,791,000	YALE
(Ca.)	2,459,793	2,792,755	474,024	5,726,572	1,211,910	11,238,555	YORK
-	15,442,039	8,229,727	520,000	24,191,766	9,98 7,7 61	41,383,940	BOSTON PUBLIC LIBRARY
	U/A	U/A	U/A	8,270,542	9,273,432	23,787,179	CANADA INST. SCITECH. INFO
المنتقب الم	U/A	U/A	U/A	1,656,344	888,886	3,588,967	CENTER FOR RESEARCH LIBS.
	U/A	U/A	U/A	233,118,000	188,311,992	431,255,000	LIBRARY OF CONGRESS
	5,810,093	1,931,823	0	7,741,916	5,991,197	16,315,634	NATL. AGRICULTURAL LIB.
32	7,717,376	5,829,256	143,332	13,689,964	5,092,460	20,060,469	NATL. LIBRARY OF CANADA
\$30 \$30	10,375,392	2,899,840	519,505	13,794,737	15,592,000	34,987,5 34	NATL. LIBRARY OF MEDICINE
لتا	U/A	19,789,934	1,905,120	21,695,054	11,713,016	44,833,024	NEW YORK PUBLIC LIBRARY
	U/A	U/A	N/A	6,314,184	1,105,560	9,827,850	NEW YORK STATE LIBRARY
	3,048,672	1,587,660	32,753	4,669,085	849,684	7,285,091	SMITHSONIAN INSTITUTION

U/A - Unavailable

N/A - Not Applicable



SUMMARY DATA: EXPENDITURES

	Monographs	Current Serials	Other Library Materials	Misc. Materials	Total Library Materials	Contract Binding
(Survey Question #)	(16)	(17)	(18)	(19)	(20)	(21)
UNIVERSITY LIBRARIES:						
Median	1,506,651	4,036,494	310,421	177,317	5,991,177	169,014
High	8,259,180	9,271,891	7,856,000	2,847,637	21,225,368	1,174,579
Low	385,403	1,885,180	0	0	2,501,940	6,045
Totals	221,064,694	473,883,751	54,445,871	30,607,028	780,001,344	24,128,862
Number of Libraries Responding	111	111	99	105	111	. 111
•						
NONUNIVERSITY LIBRARIES:						
Median	624,114	1,953,861	412,797	44,094	3,927,559	98,200
Totals	16,321,718	23,215,099	6,989,246	756,922	47,282,985	2,094,123
Number of Libraries Responding	10	10	8	8	10	9
•						
•						
GRAND TOTALS:	237,386,411	497,098,849	61,435,116	31,363,950	827,284,328	26,222,985



SUMMARY DATA: EXPENDITURES

Salaries & Wages Professional Staff	Salaries & Wages Support Staff	Salaries & Wages Student Assistants	Total Salaries & Wages	Other Operating Expenditures	Total Library Expenditures	
(22)	(23)	(24)	(25)	(26)	(27)	(Survey Question #)
						UNIVERSITY LIBRARIES:
3,322,979	3,147,585	721,115	7,456,081	2,071,391	15,743,552	Median
22,475,897	16,270,278	2,536,680	39,955,576	14,665,800	77,021,323	High
1,016,397	921,690	50,392	3,140,575	385,847	6,098,951	Low
440,679,547	412,451,559	90,667,192	968,559,333	299,879,259	2,072,568,797	Totals
109	109	. 110	111	111	111	Number of Libraries Responding
						NONUNIVERSITY LIBRARIES:
7,717,376	4,364,548	331,418	10,980,253	7,632,314	21,923,824	Median
42,393,572	40,268,240	3,120,710	335,141,592	248,805,988	633,324,687	Totals
5	6	6	10	10	10	Number of Libraries Responding
483,073,119	452,719,798	93,787,902	1,303,700,925	548,685,247	2,705,893,485	GRAND TOTALS:



		Professional Staff (FTE)	Support Staff (FTE)	Student Assistants (FTE)	Total Staff (FTE)	Library Presentations to Groups *	Participants in Group Presentations *
(Survey Question #)		(28)	(29)	(30)	(31)	(32)	(33)
INSTITUTION	Notes						
ALABAMÃ	LM+	56	78	51	185	593	4,855
ALBERTA	b LM+	62	208	58	328	7 81	14,469
ARIZONA	b LM+	93	168	93	354	2,588	36 .72 8
ARIZONA STATE	B L +	102	213	48	363	618	14,485
AUBURN	+	45	73	34	152	742	14,196
BOSTON	LM+	72	133	118	323	795	10,541
BRIGHAM YOUNG	+	106	52	161	319	1,601	27,851
BRITISH COLUMBIA	LM+	105	226	57	388	2,194	19,395
BROWN	+	77	99	54	230	107	U/A
CALIFORNIA, BERKELEY	l. +	191	237	175	603	2,464	26,912
CALIFORNIA, DAVIS	b LM+	58	167	59	284	575	8,029
CALIFORNIA, IRVINE	M+	52	115	<i>7</i> 7	244	620	16,173
CALIFORNIA, LOS ANGELES	LM+	140	274	203	617	1,305	13,747
CALIFORNIA, RIVERSIDE	+	37	83	37	157	436	8 ,76 1
CALIFORNIA, SAN DIEGO	M+	69	174	73	31 6	1.454	8,062
CALIFORNIA, SANTA BARBARA	b +	42	113	65	220	388	9,500
CASE WESTERN RESERVE	LM+	68	66	37	171	442	7,337
CHICAGO	b LM+	69	176	80	325	403	2,959
CINCINNATI	LM+	82	111	84	277	79 5	8,127
COLORADO	b +	56	123	63	242	2,169	15,189
COLORADO STATE	+	41	87	50	178	350	6 ,34 5
COLUMBIA	LM+	168	253	94	515	<i>7</i> 51	7,102
CONNECTICUT	BGLM+	83	93	75	251	631	8,313
CORNELL	B L +	116	288	163	567	1,219	16,699
DARTMOUTH	M+	52	110	30	192	U/A	U/A
DELAWARE	+	55	113	48	216	442	8,953
DUKE	GLM+	121	1 7 1	56	348	1,236	11,631
EMORY	B LM+	98	163	50	311	5 72	7,68 1
FLORIDA	B LM+	110	208	92	410	533	9,302
FLORIDA STATE	BGL +	58	129	60	247	634	8,967
GEORGE WASHINGTON	LM+	70	144	47	261	495	6,689
GEORGETOWN	LM+	76	128	56	260	629	8,027
GEORGIA	L +	86	206	66	358	401	6,003
GEORGIA TECH	+	48	58	4	110	127	2.015
GUELPH	bG +	26	95	16	137	187	3,639
HARVARD	LM+	451	589	164	1,204	U/A	U/A
HAWAII	+	56	87	73	216	242	3,634
HOUSTON	GL+	57	88	43	188	466	9.585
HOWARD	LM+	50	85	39	174	46 5	3,572
ILLINOIS, CHICAGO	M+	73	160	40	273	963	11,956
ILLINOIS, URBANA	L +	162	238	114	514	918	30,500

^{+ -} See Footnotes



L - Includes Law Library

M- Includes Medical Library

B - Includes Branch Campuses

U/A - Unavailable

N/A - Not Applicable

^{* -} Figures in italics are derived from a sampling method rather than an actual annual count.

	Reference Transactions *	Initial Circulation Transactions	Total Circulation Transactions	Total Items Loaned (ILL)	Total Items Borrowed (ILL/DD)	
	(34)	(35)	(36)	(37)	(38)	(Survey Question #)
					_	INSTITUTION
	112,324	214,413	277,784	9,989	10,204	ALABAMA
	170,932	U/A	1,030,207	78,699	35,52 6	ALBERTA
	143,627	634,370	1,023,851	32,476	31,273	ARIZONA
	2 37,94 3	520,413	1,124,499	32,868	24,399	ARIZONA STATE
ш	132,683	213,250	232,599	17,592	9,498	AUBURN
	75,794	527,08 0	674,694	13,953	18,890	BOSTON
	400,000	587,452	635,741	29,113	18,876	BRIGHAM YOUNG
R ^{**}	239,071	888,976	3,175,096	38,395	30,267	BRITISH COLUMBIA
M	56 ,57 7	226,239	263,199	13,794	21,704	BROWN
	184,044	1,053,636	U/A	46,415	23,004	CALIFORNIA, BERKELEY
Ц	145,118	<u>U/A</u>	520,204	39,673	20,228	CALIFORNIA, DAVIS
	136,580	246,799	437,596	26,523	23,448	CALIFORNIA, IRVINE
	37,774	U/A	1,833,569	70,294	23,160	CALIFORNIA, LOS ANGELES
Fr -	33,632	U/A	334,304	14,306	18,109	CALIFORNIA, RIVERSIDE
H	168,144	433, 9 39	624,113	36 ,58 7	24,777	CALIFORNIA, SAN DIEGO
	U/A	U/A	U/A	16, 60 8	18,789	CALIFORNIA, SANTA BARBARA
'n	74,476	122,656	163,267	59,139	40,925	CASE WESTERN RESERVE
	68,457	492,286	763,928	43,484	21,010	CHICAGO
	284,692	352,982	584,378	54,511	48,054	CINCINNATI
П			891,962	48,759	16,854	COLORADO
1	32 8,2 96	565,483		40,739	6 9,39 8	COLORADO STATE
	138,568	193 ,552	277,519 753,384	34,143	18,327	COLUMBIA
Н	127,327 56,414	455, 963 U/A	753,386 262,882	56,097	33,599	CONNECTICUT
-	169,873	· U/A	1,112,172	39,481	23,202	CORNELL
	U/A	194,813	254,160	14,265	15,463	DARTMOUTH
-	 ·		437,007	17,084	15,847	DELAWARE
	207,425	U/A		56,748	14,657	DUKE
- 1	160,058	337,844	519,729	40,362	17,507	EMORY
ł	111,607 231,074	204,789 660,477	484,125 1,632,755	45,292	22,224	FLORIDA
	183,578	342,869	426,272	32,931	18,229	FLORIDA STATE
	128,763	281,921	358,431	25,212	47,500	GEORGE WASHINGTON
Ð			477,763		9,383	GEORGETOWN
	134,155	257,750		14,371		GEORGIA
li	140,574	U/A	503,853	37,207	11,656 3,700	GEORGIA TECH
Ц	77,022 39,7 0 3	98,298	310,146 284,239	11,844 23,086	59 ,3 32	GUELPH
	39,703 U/A	213,837 U/A	1,606,620	38,272	26,797	HARVARD
			577,544	23,882	12,641	HAWAII
n	121,197	448,876 238,092	367,7 2 5	26,540	15,492	HOUSTON
	, 105,690			9,954	6,558	HOWARD
12	136,752	204,612	299,843			ILLINOIS, CHICAGO
	149,639	233,896	433,002 1,035,011	68,815 57,961	39,486 55,245	ILLINOIS, URBANA
	374,009	U/A	1,033,011	37,701	33,243	IDDITOID, ORDAIN

U/A - Unavailable N/A - Not Applicable
* - Figures in italics are derived from a sampling method rather than an actual annual count.



		Professional Staff (FTE)	Support Staff (FTE)	Student Assistants (FTE)	Total Staff (FTE)	Library Presentations to Groups *	Participants in Group Presentations *
(Survey Question #)		(28)	(29)	(30)	(31)	(32)	(33)
INSTITUTION	Notes		_				
Th ITN A N A	L+	142	197	134	473	939	20,784
INDIANA	L+ LM+	91	128	80	299	828	
IOWA		45	108	62	215	1,035	8,15 3
IOWA STATE	+ b 8 M +	98	187	52 52	337	666	5 ,2 24
JOHNS HOPKINS	B LM+	96 97	109	81	287	776	9,025
KANSAS KENT STATE	B +	79	66	84	229	668	
KENTUCKY	LM+	113	120	159	392	1,159	18,968
LAVAL	LM+	56	157	3	216	869	8,807
LOUISIANA STATE	L+	59	88	56	203	821	5,241
MCGILL	b LM+	63	157	49	269	928	10 ,3 35
MCMASTER	M+	33	108	19	160	569	6,374
MANITOBA	GLM+	54	138	20	212	1,245	10,764
MARYLAND	+	· 108	121	109	338	759	12,711
MASSACHUSETTS	+	55	87	50	192	541	8,519
MIT	+	86	106	24	216	150	2,367
MIAMI	B LM+	61	115	46	222	1,065	5,108
MICHIGAN	LM+	150	311	141	602	1,169	21,244
MICHIGAN STATE	+	63	109	132	304	612	
MINNESOTA	b LM+	111	196	120	427	861	
MISSOURI	LM+	56	136	47	239	955	
NEBRASKA	L+	53	119	44	216	714	11,623
NEW MEXICO	b LM+	60	185	93	338	2, 486	44,751
NEW YORK	LM+	107	234	100	441	710	7,727
NORTH CAROLINA	LM+	125	200	96	421	1,043	
NORTH CAROLINA STATE	+	107	132	77	316	422	
NORTHWESTERN	B LM+	114	140	100	354	752	
NOTRE DAME	GL+	50	160	31	241	324	_
OHIO	B M+	60	78	68	206	818	_
OHIO STATE	b LM+	122	183	134	439		
OKLAHOMA	LM+	49	80	61	190	709	
OKLAHOMA STATE	B M+	58	83	68	209	1,731	
OREGON	L+	54	92	74	220	-	
PENNSYLVANIA	LM+	117	178	99	394	739	11,181
PENNSYLVANIA STATE	B LM+	133	351	92	5 76	2,374	34,167
PITTSBURGH	B LM+	103	180	90	373	1,355	27,226 U/A
PRINCETON	+	113	209	65	387		
PURDUE	b +	61	150	54	265 186		
QUEEN'S	ьGLM+ 	40	122	24	186		
RICE	+	53	62	11	126	136	
ROCHESTER	GM+	78	79	51	208	600	
RUTGERS	B L +	107	241	104	452	925	16,057

^{+ -} See Footnotes



L - Includes Law Library M- Includes Medical Library

B - Includes Branch Campuses

U/A - Unavailable

N/A - Not Applicable

^{* -} Figures in italics are derived from a sampling method rather than an actual annual count.

	Total Items Borrowed (ILL/DD)	Total Items Loaned (ILL)	Total Circulation Transactions	Initial Circulation Transactions	Reference Transactions *
(Survey Question #)	(38)	(37)	(36)	(35)	(34)
INSTITUTION					
INDIANA	29,126	53,776	1,345,626	1,051,036	493,480
IOWA	22,626	54,338	589,364	U/A	119,784
IOWA STATE	16,416	23,69 3	455,786	411, 7 17	60,399
JOHNS HOPKINS	22,529	26,837	457,201	262,622	1 42,73 2
KANSAS	23,630	44,340	1,154,171	U/A	237,150
KENT STATE	28,949	22,029	336,133	244,078	77,982
KENTUCKY .	25,690	33,383	328,679	280,841	171,683
LAVAL	13,403	24,448	870,834	521,584	173,922
LOUISIANA STATE	19,905	13,424	510,362	430,202	178,101
MCGILL	22,504	16,184	865,487	596,085	179,335
MCMASTER	13,362	23,911	367,590	297,889	60,521
MANITOBA	17,961	24,232	744,545	603,721	77,792
MARYLAND	18,942	19,444	638,510	U/A	220,516
MASSACHUSETTS	9,223	12,577	506,903	367,070	118,052
MIT	12,148	20,301	517,812	3 75,27 6	74,058
MIAMI	16, 8 18	36 ,49 5	309 ,809	218,667	170,053
MICHIGAN	28,613	64,159	839,147	480,212	227,461
MICHIGAN STATE	20,770	35,595	714,996	432,442	79,638
MINNESOTA	17,433	232,976	819,156	600,659	214,081
MISSOURI	18, 87 8	53,985	519,160	415,770	125,592
NEBRASKA	14,387	18,439	385,049	303 ,95 6	117,939
NEW MEXICO	23,507	25 ,78 6	5 25,8 13	422,235	114,871
NEW YORK	22,031	26,918	98 1,55 2	U/A	15j 23 2, 62 8
NORTH CAROLINA	14,023	47,973	1,508,652	U/A	242,488
NORTH CAROLINA STATE	14,609	17,729	495,689	352,931	94,422
NORTHWESTERN	29,615	33,439	426,648	348,674	131,381
NOTRE DAME	11,167	20,792	U/A	U/A	41,774
OHIO	53,227	63,395	408,109	319,046	149,667
OHIO STATE	85,866	116,269	1,777,324	568,261	741,873
OKLAHOMA	25,636	27,251	230,209	193,469	132,444
OKLAHOMA STATE	23,452	27,386	360,561	331,027	128,696
OREGON	32,494	46,826	577,562	523,485	41,414
PENNSYLVANIA	37,697	22,875	471,712	343,346	396,710
PENNSYLVANIA STATE	33,034	45,155	722,733	513,672	352,647
PITTSBURGH	15,311	41,858	692,191	581,392	252,859
PRINCETON	20,040	10,888	946,520	475,382	U/A
PURDUE	19,309	20,251	486,067	242,668	156,557
QUEEN'S	9,889	13,152	495,722	335,697	54,731
RICE	7,690	9,297	370,028	159,761	U/A
ROCHESTER	19,053	26,142	397,140	222,248	68,253
RUTGERS	19,347	15,632	844,017	441,777	286,648

U/A - Unavailable

^{* -} Figures in italics are derived from a sampling method rather than an actual annual count.



N/A - Not Applicable

PERSONNEL AND PUBLIC SERVICES

	·	Professional Staff (FTE)	Support Staff (FTE)	Student Assistants (FTE)	Total Staff (FTE)	Library Presentations to Groups *	Participants in Group Presentations *
(Survey Question #)		(28)	(29)	(30)	(31)	(32)	(33)
INSTITUTION	Notes		_				
SASKATCHEWAN	LM+	41	111	12	164	513	8,922
SOUTH CAROLINA	LM+	78	128	81	287	375	4,635
SOUTHERN CALIFORNIA	B LM+	107	151	104	362	1,529	19,160
SOUTHERN ILLINOIS	GL+	46	96	88	230	1,251	9,276
STANFORD	LM+	245	306	118	669	748	8,679
SUNY-ALBANY	B +	52	90	41	183	621	8,035
SUNY-BUFFALO	GLM+	108	73	83	264	959	14,532
SUNY-STONY BROOK	M+	45	7 5	53	173	256	3,570
SYRACUSE	b L+	56	140	59	255	609	9,385
TEMPLE	B LM+	72	105	49	226	190	3,91 0
TENNESSEE	B L +	67	136	45	248	365	9,644
TEXAS	L+	142	350	72	564	875	13,916
TEXAS A&M	bB M+	110	187	115	412	898	14,357
TEXAS TECH	B LM+	<i>7</i> 7	96	96	269	1,068	16,846
TORONTO	BL+	170	340	127	637	1,249	15,132
TULANE	BGLM+	54	90	38	182	729	5,808
UTAH '	LM+	<i>7</i> 7	185	116	378	1,188	1 8,78 3
VANDERBILT	LM+	89	1 3 5	74	298	641	6 ,56 7
VIRGINIA	LM+	97	201	63	361	1,299	16,187
VIRGINIA TECH	+	3 6	98	62	196	7 11	10,672
WASHINGTON	LM+	136	226	133	495	1,748	27,065
WASHINGTON STATE	B +	50	105	45	200	5 78	9 ,86 6
WASHINGTON UST. LOUIS	GLM+	96	1 37	51	284	300	4,085
WATERLOO	+	38	104	27	169	255	4,133
WAYNE STATE	b LM+	90	112	90	292	1,106	19,285
WESTERN ONTARIO	L+	47	136	15	198	509	10,084
WISCONSIN	LM+	170	195	173	538	2,030	24,758
YALE	LM+	217	345	66	628	1,075	10,603
YORK	BL+	51	121	48	220	657	10 ,44 8
BOSTON PUBLIC LIBRARY		199	344	133	676	15	2,2 15
CANADA INST. SCITECH. INFO	+	160	154	0	314	N/A	N/A
CENTER FOR RESEARCH LIBS.	bG+	25	22	11	58	0	0
LIBRARY OF CONGRESS	L+	1,498	2,723	2	4,223	4,261	90,460
NATL. AGRICULTURAL LIB.	+	118	69	0	187	29	496
NATL. LIBRARY OF CANADA	+	185	221	10	416	344	17 ,2 19
NATL LIBRARY OF MEDICINE	M+	174	90	26	290	305	3,612
NEW YORK PUBLIC LIBRARY	G +	U/A	U/A	135	697	U/A	U/A
NEW YORK STATE LIBRARY	LM+	65	102	0	167	283	2,126
SMITHSONIAN INSTITUTION	В +	53	52	4	109	N/A	N/A

^{+ -} See Footnotes

44

U/A - Unavailable



L - Includes Law Library

M- Includes Medical Library

B - Includes Branch Campuses

N/A - Not Applicable

^{* -} Figures in italics are derived from a sampling method rather than an actual annual count.

	eference actions *	Initial Circulation Transactions	Total Circulation Transactions	Total Items Loaned (ILL)	Total Items Borrowed (ILL/DD)	
	(34)	(35)	(36)	(37)	(38)	(Survey Question #)
						INSTITUTION
	55 <i>,7</i> 72	380,122 -	476,820	14,214	17,884	SASKATCHEWAN
	133,670	780,420	853,314	17,731	24,746	SOUTH CAROLINA
	101,396	395, 7 50	626,557	13,150	11,291	SOUTHERN CALIFORNIA
	111,907	173,574	311,484	3 1,1 0 3	24,361	SOUTHERN ILLINOIS
	114,875	U/A	1,053,867	14,663	12,453	STANFORD
	129,482	166,466	255,738	12,485	18,334	SUNY-ALBANY
	182,600	438,500	523,371	37,537	15,499	SUNY-BUFFALO
	62,265	220,532	329,872	33,826	12,801	SUNY-STONY BROOK
	74,114	294,772	356,444	14,933	12,407	SYRACUSE
	110,529	176,706	232,835	11,623	11,218	TEMPLE
	U/A	357,605	382,357	18,766	25,506	TENNESSEE
	386,796	1,226,875	2,284,281	38,576	25,311	TEXAS
	117,947	1,391,502	1,889,299	67,468	27,873	TEXAS A&M
•	73,392	245,289	509,655	40,560	42,407	TEXAS TECH
	504,389	1,530,809	2,223,868	24,625	10,095	TORONTO
· · · · ·	41,137	21 4,62 1	243,581	17,436	11,351	TULANE
	392,672	324,861	461,749	35,908	16,814	UTAH
	73,587	272,501	360,100	2 0,61 6	9, 909	VANDERBILT
11.11 To 10.11 To 10.11	215,864	487,623	1,018,337	43,510	28,572	VIRGINIA
	62,827	283,515	341,643	24,914	22,574	VIRGINIA TECH
		283,13 U/A	2,688,628	92,500	17,190	WASHINGTON
	97,445	 -			19,495	WASHINGTON STATE
	70,134	191,343	362 ,23 1	26, 46 5		WASHINGTON UST. LOUIS
	114,896	257,365	439,340	27,538	22,578	WATERLOO
	54,674	393,542	535,735	10,863	12 ,340 15,808	WAYNESTATE
	902,804	331,329	448,249	44,133	5,065	WESTERN ONTARIO
	116,049	U/A	797,061	21,631	32,014	WISCONSIN
	261,424	865,137	1,006,011	94,156		
	338,697	545,973	598,199	24,065	16,931	YORK
	140,646	652,857	1,000,539	14,921	4,190	BOSTON PUBLIC LIBRARY
•	420,119	1,913,851	2,308,167	43,567	4,885	CANADA INST. SCITECH. INFO
	15,939	23,218	31,316	466,674	17,048	CENTER FOR RESEARCH LIBS.
	N/A	U/A	79,636	29,703	0	LIBRARY OF CONGRESS
	325, 181, 1	231,528	U/A	24,982	206	NATL. AGRICULTURAL LIB.
•	24, 99 0	7, 72 8	9,718	26,350	16,801	
	27,089	98,692	169,072	41,551	712	NATL LIBRARY OF CANADA
	111,280	N/A_	N/A	301,073	240	NATL. LIBRARY OF MEDICINE
	U/A	N/A	N/A	3,675	2,099	NEW YORK PUBLIC LIBRARY
	107,474	64,635	67,480	53,260	2,580	NEW YORK STATE LIBRARY
	90,597	35,747	205,899	10,776	9,121	SMITHSONIAN INSTITUTION

U/A - Unavailable N/A - Not Applicable
* - Figures in italics are derived from a sampling method rather than an actual annual count.



SUMMARY DATA: PERSONNEL AND PUBLIC SERVICES

	Professional Staff (FTE)	Support Staff (FTE)	Student Assistants (FTE)	Total Staff (FTE)	Library Presentations to Groups	Participants in Group Presentations
(Survey Question #)	(28)	(29)	(30)	(31)	(32)	(33)
			-			
UNIVERSITY LIBRARIES:						
Median	73	132	65	269	734	9,866
High	451	589	203	1,204	2,588	44,751
Low	26	52	3	110	107	2,015
Totals	9,687	16,958	8,155	34,800	91,711	1,306,157
Number of Libraries Responding	111	111	111	111	108	107
⁷ 槎 (1000年) 1987年 - 1987年 - 19874年 - 1987年 - 19874 - 19874 - 19874 - 19874 - 19874 - 19874 - 19874 - 19874 - 19874 - 19874 - 19874 - 19874 - 19874 - 1987	•					
AND TOTAL						
1777.07 1941						
NONUNIVERSITY LIBRARIES:	:=		•		· .	
Median	160	102	7	302	283	2,215
Totals	2,477	3,777	321	7,137	5,237	116,128
Number of Libraries Responding	9-	9	10	10	7	7
់ថ						
Service of						
• .					•	
GRAND TOTALS:	12,164	20,735	8,476	41,937	96,948	1,422,285



SUMMARY DATA: PERSONNEL AND PUBLIC SERVICES

Reference Transactions	Initial Circulation Transactions	Total Circulation Transactions	Total Items Loaned (ILL/DD)	Total Items Borrowed (ILL/DD)	
(34)	(35)	(36)	(37)	(38)	(Survey Question #)
					UNIVERSITY LIBRARIES:
132,683	352,931	514,087	26,837	19,309	Median
902,804	1,530,809	3,175,096	232,976	85,866	High
33,632	98,298	163,267	0	3,700	Low
17,805,916	38,316,050	75,610,909	3,800,221	2,472,565	Totals
105	91	108	111	111	Number of Libraries Responding
					NONUNIVERSITY LIBRARIES:
99,036	64,635	79,636	35,627	2,340	Median
2,178,813	2,375,399	2,871,288	1,001,611	53,692	Totals
8	7	7	10	10	Number of Libraries Responding
19,984,729	40,691,449	78,482,197	4,801,832	2,526,257	GRAND TOTALS:



ANALYSIS OF SELECTED VARIABLES OF ARL UNIVERSITY LIBRARIES 1998-99

The percentages and ratios below are select indicators that describe the condition of ARL university libraries. The high and low figures indicate the range, while the mean and median indicate the central tendency of the distributions for ARL university libraries. Note that a distribution is normal when the mean and the median figures are identical. If the mean is larger than the median then the distribution is positively skewed, and if the opposite is true the distribution is negatively skewed.

	Category	High	Mean	Median	Low	Number of libraries reporting
1.	Professional Staff as percent of Total Staff	43.64	27.52	27.06	17.75	111
2.	Support Staff as percent of Total Staff	72.69	49.09	49.13	16.30	. 111
3.	Student Assistant Staff as percent of Total Staff	50.47	23.39	23.10	1.39	111
4.	Ratio of Professional to Support Staff (excluding Student Assistant Staff)	2.04	0.60	0.57	0.27	111
5.	Ratio of Items Loaned to Items Borrowed	13.36	1.72	1.42	0.00	111
6.	Serial Expenditures as percent of Total Library Materials Expenditures	86.71	63.51	63.19	35.61	111
7.	Monograph Expenditures as percent of Total Library Materials Expenditures	52.36	26.62	26.11	5.94	111
8.	Total Library Materials Expenditures as percent of Total Library Expenditures	58.78	39.10	39.26	26.73	111
9.	Contract Binding as percent of Total Library Expenditures	2.37	1.12	1.06	0.07	111
10.	Salary and Wages Expenditures as percent of Total Library Expenditures	63.55	46.21	46.05	32.72	111
11.	Other Operating Expenditures as percent of Total Library Expenditures	29.79	13.56	13.35	3.90	111
12.	Unit cost of monographs (per volume)	\$78.27	\$49.40	\$47.31	\$24.98	99
13.	Unit cost of serials (per subscription)	\$444.78	\$261.41	\$249.98	\$112.46	82
14.	Library Expenditures per Faculty	\$44,265 .13	\$14,511.60	\$12,523.56	\$5,31 7.79	111
15.	Library Expenditures per Student	\$4,664.23	\$1,110.94	\$793.54	\$388.98	111
16.	Library Expenditures per Graduate Student	\$16,904.54	\$4,783.23	\$4,418.84	\$1,970.27	111



Ph.D., Faculty, and Enrollment Statistics 1998-99 *

ENROLLMENTS

	Ph.D.s Awarded	Ph.D. Fields	Faculty	Total FTE Full-time**	Total Part-time**	Graduate FTE Full-time	Graduate Part-time
(Survey Question #)	(39)	(40)	(41)	(42)	(43)	(44)	(45)
INSTITUTION							
ALABAMA	103	43	779	15,106	3,320	2,251	1,772
ALBERTA	265	106	1,356	26,114	4,173	2,854	1,766
ARIZONA	417	91	1,492	26,586	7,741	5,19 3	2 ,97 7
ARIZONA STATE	25 5	43	2,044	34,302	14,620	6,187	5,692
AUBURN	178	40	1,139	18,917	2,858	1,914	1,323
BOSTON	181	38	2,184	23,471	5,660	7,321	3,540
BRIGHAM YOUNG	7 8	29	1,395	28,230	4,501	1,752	942
BRITISH COLUMBIA	324	7 5	1,753	25,556	8,205		472
BROWN	153	31	539	7,301	481	1,579	91
CALIFORNIA, BERKELEY	78 5	101	1,396	28,387	2,624	7, 77 1	979
CALIFORNIA, DAVIS	337	53	1,326	22,310	2,555	5,100	362
CALIFORNIA, IRVINE	198	37	1,055	17,081	997	3,434	308
CALIFORNIA, LOS ANGELES	551	79	1,838	34,055	1,740	11,220	473
CALIFORNIA, RIVERSIDE	103	39	503	10,202	400	1,435	85
CALIFORNIA, SAN DIEGO	303	. 5 5	1,103	18,394	935	3,340	152
CALIFORNIA, SANTA BARBARA	192	53	770	16,400	659	2,270	
CASE WESTERN RESERVE	164	50	2,030	6,648	2,838	3,578	; 34 2,511
CHICAGO	383	61	1,173	10,024	1,992	6,229	1,943
CINCINNATI	174	70	1,750	19,899	8,263	4,453	3,053
COLORADO.	301	41	2,031	21,880	6,277	2,196	3,664
COLORADO STATE	188	35	982	18,902	3,621	2,368	1,548
COLUMBIA	324	65	2,663	16,540	3, 943	10, 7 57	2,235
CONNECTICUT	227	65	1,014	15,514	5,884	3,119	3,424
CORNELL	484	83	1,470	18,609	40	5,119	8
DARTMOUTH .	49	13	931	5,217	52	1,207	42
_							
DELAWARE	138	39	930	16,885	4,461	2,163	968 ·
DUKE	257	40	876	11,167	397	4,833	343
EMORY FLORIDA	141 445	26 79	594	9,883	1,470	3,792	1,245
FLORIDA STATE	271	132	1,439 981	36,919	5,417	8,388 3,705	2,471
GEORGE WASHINGTON		31		25,057	6,014	3,795	2,577
	85		828	12,036	7,445	5,232	6,095
GEORGETOWN	98	19	1,375	11,077	1,356	5,056	1,105
GEORGIA	319	81	1,809	25,952	4,057	4,880	1,650
GEORGIA TECH	228	61	709	12,626	1,328	2,958	$-\frac{621}{127}$
GUELPH	93	U/A	625	12,311	1,524	1,486	107
HARVARD	438	<i>7</i> 5	1,740	17,290	1,279	7,844	980
HAWAII	154	52	1,054	12,282	4,722	2,423	2,796
HOUSTON	141	41	964	20,163	12,133	3,977	4,051
HOWARD	83	24	1,104	7,884	3,082	3,050	1,395
ILLINOIS, CHICAGO	213	51	1,745	19,683	5,179	5,483	2,995
ILLINOIS, URBANA	623	89	1,730	33,974	4,333	<i>7,</i> 22 0	2,442
INDIANA	322	71	1,614	30,176	5,424	4,739	3,035

^{* -} These figures were reported on the ARL Questionnaire and have not been verified with the U.S. NCES IPEDS survey.

U/A - Unavailable



^{** -} Includes both undergraduate and graduate students.

⁻ See Footnotes

Ph.D., Faculty, and Enrollment Statistics 1998-99 *

ENROLLMENTS

	Ph.D.s Awarded	Ph.D. Fields	Faculty	Total FTE Full-time**	Total Part-time**	Graduate FTE Full-time	Graduate Part-time
(Survey Question #)	(39)	(40)	(41)	(42)	(43)	(44)	(45)
INSTITUTION							
IOWA _	316	62	1,032	22,484	6,221	5,702	3,666
IOWA STATE	257	80	1,511	25,193	3,859	4,158	1 ,88 8
JOHNS HOPKINS	328	61	1,042	8,345	8,749	4,058	8,153
KANSAS	289	67	1,582	21,655	5 ,97 0	4,485	3,957
KENT STATE	141	18	842	19,811	10,608	2,126	1,394
KENTUCKY	179	52	1,348	22,745	7,073	3,879	2,673
LAVAL	245	52	1,500	22,72 0	13,352	4,160	2,509
LOUISIANA STATE	245	55	1,301	25,304	5 ,22 9	3,888	1,885
MCGILL	322	80	1,404	20 ,959	7 ,75 2	4,591	1,410
MCMASTER	117	35	8 79	13,828	3,052	1,568	583
MANITOBA	107	47	1,143	15,701	5,043	1,857	733
MARYLAND	523	7 0	2,410	32,864	25,809	4,179	3, 97 0
MASSACHUSETTS	229	49	1,140	19,366	5,1 <i>7</i> 7	2,299	3,494
MIT	486	27	951	9,642	244	5 ,338	175
MIAMI	127	43	1,865	11,956	1,759	4,130	957
MICHIGAN	63 2	90	2,993	33,651	3, 54 6	11,141	2,041
MICHIGAN STATE	422	264	1,987	35,282	7,907	5,567	3,533
MINNESOTA	729	119	1,446	25,980	9,349	4,172	5,254
MISSOURI	202	64	1,603	19,689	3,241	3,121	1,998
NEBRASKA	240	29	1,231	18 ,99 0	4,318	1,927	2,104
NEW MEXICO	184	38	862	15 ,145	8, 70 7	3,070	4,487
NEW YORK	402	101	2 ,38 7	25,537	11,182	10,191	8,855
NORTH CAROLINA	374	66	2,477	19,952	4,303	5,555	3,409
NORTH CAROLINA STATE	316	. 55	1,570	19,797	<i>7,</i> 862	2,185	3,800
NORTHWESTERN	300	<i>7</i> 9	1,908	13,861	3 ,33 8	5,965	1,511
NOTRE DAME	135	24	706	10,110	191	2,267	159
OHIO	132	46	945	22,037	6,370	2,442	1,685
OHIO STATE	536	95	2,663	39,614	8 ,897	8,632	3,627
OKLAHOMA	131	43	877	16,371	4,681	1,924	2,170
OKLAHOMA STATE	130	45	1,099	19,847	7,416	2,329	2,996
OREGON	153	45	633	14,439	3,412	2,685	727
PENNSYLVANIA	366	53	2,165	17,743	3,986	8,177	1,859
PENNSYLVANIA STATE	562	90	3,113	59 ,93 6	14,524	4,472	5 ,39 8
PITTSBURGH	312	63	1,532	26,317	6,976	5, 924	3,151
PRINCETON	250	45	760	6,386	128	1,762	(
PURDUE	456	54	1,651	33,167	5,590	4,692	2,027
QUEEN'S	144	30	712	13,639	2,968	2,206	380
RICE	114	29	460	4,197	204	1,431	55
ROCHESTER	163	46	476	6,839	1,261	2,1 58	1,071
	474	65	2,100	36,147	13,318	4,672	7,681
RUIGERS							
RUTGERS SASKATCHEWAN	75	43	974	13,069	2,532	1,284	505

^{*-} These figures were reported on the ARL Questionnaire and have not been verified with the U.S. NCES IPEDS survey.



^{** -} Includes both undergraduate and graduate students.

⁻ See Footnotes

U/A - Unavailable

Ph.D., Faculty, and Enrollment Statistics 1998-99 *

ENROLLMENTS

	Ph.D.s Awarded	Ph.D. Fields	Faculty	Total FTE Full-time**	Total Part-time**	Graduate FTE Full-time	Graduate Part-time
(Survey Question #)	(39)	(40)	(41)	(42)	(43)	(44)	(45)
INSTITUTION							
SOUTHERN CALIFORNIA	536	76	1,691	22,706	6,033	8,231	4,955
SOUTHERN ILLINOIS	122	34	918	18,166	4,085	2,325	1,987
STANFORD	574	74	1,608	11,745	5,308	5,33 7	3,932
SUNY-ALBANY	139	34	546	12,176	4,690	2,056	3,193
SUNY-BUFFALO	271	86	1,057	17,852	5,518	4,514	3,193
SUNY-STONY BROOK	226	43	1,255	14,158	4,470	3,177	3,191
SYRACUSE	150	55	805	13,903	4,390	2,920	3,243
TEMPLE	206	49	1,569	18,047	9,492	4,363	5 ,55 6
TENNESSEE	248	45	1,222	20,715	4,897	3,184	2,641
TEXAS	73 5	88	2,280	43,029	5,877	10,499	1,204
TEXAS A&M	501	84	2,221	39,137	4,434	5,657	1,843
TEXAS TECH	154	48	1,575	21,932	3,773	2,727	1,407
TORONTO	583	84	2,655	38,240	12,821	7,263	2,134
TULANE	140	3 9	1,083	9,114	1,995	3,748	56 0
UTAH	202	60	1, 42 6	15,686	12 ,74 0	3,213	1, 64 6
VANDERBILT	162	40	1,583	9,566	544	3,834	458
VIRGINIA	320	46	1,012	18,058	4,041	5,410	3,320
VIRGINIA TECH	334	48	1,203	24,550	3,113	3,686	2,561
WASHINGTON	520	67	3,013	32,211	5,897	7,975	1,860
WASHINGTON STATE	136	44	1,083	17,106	3,535	2,421	1,082
WASHINGTON UST. LOUIS	164	107	676	9,842	2,193	4 ,39 3	1,314
WATERLOO	137	28	71 5	17,078	4,613	1,566 .	259
WAYNE STATE	186	60	1,063	14,136	16,889	5,121	7,511
WESTERN ONTARIO	122	40	1,241	18,629	2,684	2,761	128
WISCONSIN	685	101	1,957	34,560	5,00 5	8,780	1,801
YALE	308	50	1,825	10,832	200	5, 4 51	141
YORK	97	U/A	1,136	28,420	9,126	2,479	1,653

SUMMARY DATA: Ph.D., FACULTY, AND ENROLLMENT STATISTICS

Median	231	52	1,255	18,629	4,461	3,977	1,885
High	785	264	3,113	59,936	25,809	11,220	8,855
Low	49	13	460	4,197	40	1,207	0
Totals	30,800	6,397	153,555	2,230,976	575,626	479,872	249,073
Number of Libraries Responding	111	109	111	111	111	111	111

^{*-} These figures were reported on the ARL Questionnaire and have not been verified with the U.S. NCES IPEDS survey.

U/A - Unavailable



^{** -} Includes both undergraduate and graduate students.

⁻ See Footnotes

RANK ORDER TABLES OF UNIVERSITY LIBRARIES 1998-99



SUMMARY OF RANK ORDER TABLES FOR UNIVERSITY LIBRARIES 1998-99

The table below presents the rank for each university library in each of the eighteen categories for which rank order tables are prepared. The table numbers in the chart below refer to the data categories listed below. The number of libraries indicates the number of ARL university libraries supplying data in each category.

VOLUMES IN LIBRARY 1	TABLE DATA CATEGORY				NO.	OF LIB	S.	TA	BLE	DAT	A CATE	GOF	RΥ				1	10. OF	LIBS.
California Cal	2 VOLUMES ADDED (GROSS 3 CURRENT SERIALS (TOTAL 4 MICROFORM UNITS 5 GOVERNMENT DOCUMEN 6 MATERIALS EXPENDITUR 7 SALARIES & WAGES EXPE 8 OTHER OPERATING EXPEN	LS) TS ES NDITU	RES			111 111 111 97 111 111		1	11 12 13 14 15 16	EXPE SERI EXPE TOTA TOTA PROF SUPF	ENDITU ALS PU ENDITU AL ITEM ESSION PORT S	IRES IRCH IRES MS L MS B NAL TAFF	FOR MASED OF STAFF (FTE)	IONO (SUBS ERIAL) (ILL) VED (I	GRAPH .) .S DD) ILL/DI	łS		1 1 1 1 1	11 82 11 11 11 11
ALABAMA 90 86 74 71 9 93 103 91 00 81 85 88 67 80 108 109 76 102 97 ALBERTA 18 28 34 69 76 53 55 97 60 68 56 20 43 55 12 66 19 99 ARIZONA 23 30 36 22 76 23 39 42 12 26 UA 18 49 17 41 37 33 34 ARIZONA STATE 38 52 31 52 29 30 27 52 34 14 29 12 26 UA 18 49 17 41 37 32 34 ARIZONA STATE 38 52 31 52 29 30 42 99 106 47 95 28 45 56 108 81 100 105 108 100 105 108 BOSTON 92 77 56 58 61 26 50 108 81 104 107 105 108 BRIGHAM YOUNG 68 100 84 95 40 77 56 58 61 26 61 26 53 18 48 52 111 42 BRITISH COLUMBIA 29 27 59 27 59 34 18 40 28 61 111 42 BRITISH COLUMBIA 29 28 27 59 34 18 40 28 61 12 4 12 4 12 4 12 4 12 4 12 4 12 4 1	INSTITUTION									TA	BLES								
ALBERTA 18 28 34 69 76 53 55 97 60 68 56 20 43 5 12 66 19 39 ARIZONA 23 30 36 22 76 23 39 42 32 12 26 10.4 18 49 17 41 37 33 34 ARIZONA 5TATE 38 52 31 5 20 30 30 27 52 34 14 29 12 26 10.4 18 49 17 41 37 33 34 18 19 19 19 19 19 19 19 19 19 19 19 19 19		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
ALBERTA 18 28 34 69 76 53 55 97 60 68 50 20 43 5 12 66 19 39 ARIZONA ARIZONA 34 52 31 5 20 30 27 52 30 42 12 26 14 18 49 17 41 37 33 34 14 29 12 12 26 14 18 49 17 41 37 33 34 18 19 18 18 19 18 18 19 18 18 19 18 18 19 18 18 19 18 18 19 18 18 19 18 18 19 18 18 19 18 18 18 19 18 18 19 18 18 18 19 18 18 18 19 18 18 18 19 18 18 18 18 18 18 18 18 18 18 18 18 18	ALABAMA	90	86	74	71	9	93	103	91	103	81	88	67	80	108	100	76	102	97
ARIZONA STATE 38 82 81 82 82 86 82 81 82 86 82 84 82 84 82 84 84 84 84 84 84 84 84 84 84 84 84 84	AI BERTA	18	28	34	69	76	53	55	97	60	68	56	20	43	5	12	66	19	39
ARIZONA STATE 38 52 31 5 20 30 27 52 34 14 29 23 25 48 32 35 17 29 106 107 107 108 109 109 109 109 109 109 109 109 109 109				36	22	76				32	12	26	U/A	18	49	17	41	37	33
AUBURN 67 95 52 93 42 99 106 47 95 28 45 56 108 84 104 100 105 105 108 105 105 105 105 105 105 105 105 105 105		38	52	31		20	30	27	52	34	14	29	23	25	48	32	35	17	29
BRIGHAM YOUNG 68 100 84 95 40 77 56 58 61 26 53 71 84 51 61 32 111 42 BRITISH COLUMBIA 29 27 59 34 18 40 28 60 41 U/A 42 U/A 33 35 18 33 15 25 BROWN 49 82 99 103 U/A 79 61 33 59 58 60 61 75 98 48 52 83 70 CALIFORNIA, BERKELEY 4 6 4 11 60 6 7 28 38 79 42 U/A 1 1 0/A		67	95	52	93	42	99	106	47	95	28	45	56	108	84	104	100	105	108
BRITISH COLUMBIA 29 27 59 34 18 40 28 60 41 U/A 42 U/A 33 35 18 33 15 25 BROWN 49 82 99 103 U/A 79 61 33 59 58 60 61 75 98 48 52 83 70 CALIFORNIA, BERKELEY 4 6 4 11 60 6 3 22 6 U/A 3 U/A 3 U/A 8 22 40 4 13 63 62 CALIFORNIA, DAVIS 44 34 15 56 57 28 38 79 42 U/A 21 U/A 28 32 51 72 38 52 CALIFORNIA, IRVINE 95 71 69 97 45 69 48 65 56 62 49 72 93 58 37 89 67 66 CALIFORNIA, LOS ANGELES 7 10 2 13 63 10 4 5 5 5 5 1 7 0 U/A 28 32 51 72 38 52 CALIFORNIA, RIVERSIDE 104 68 101 104 43 102 91 96 101 47 72 81 103 94 66 108 98 107 CALIFORNIA, SAN DIEGO 61 40 48 85 54 58 26 40 43 32 55 40 59 30 46 60 18 98 107 CALIFORNIA, SANTA BARBARA 64 55 73 65 89 U/A 21 32 46 29 55 10 U/A 19 28 49 60 34 40 CINCINNATI 63 67 61 80 58 47 50 44 48 85 87 96 97 107 68 69 11 9 62 107 103 COLORADO 53 53 53 47 10 5 33 60 80 55 30 50 46 32 19 73 76 61 67 COLORADO 53 53 53 47 10 5 33 60 80 55 30 50 46 32 19 73 76 61 67 COLORADO 5TATE 110 78 65 94 48 85 98 98 98 98 98 98 99 60 78 07 89 111 2 104 94 100 COLORADO 5TATE 110 78 65 94 48 85 98 98 98 98 98 99 60 78 07 89 11 2 10 2 10 94 94 100 COLORADO 5TATE 110 78 65 94 48 85 98 98 98 98 98 99 60 78 77 89 111 2 104 94 100 COLORADO 5TATE 110 78 65 94 74 66 69 52 34 77 30 54 80 39 48 14 13 47 88 63 CORNELL 11 4 8 8 3 U/A 9 12 9 10 U/A 13 U/A 14 33 38 19 8 97 9 8 98 98 98 98 98 98 98 98 98 98 98 98	BOSTON	92	<i>7</i> 7	39	57	76	74	5 9	57	64	72	97	U/A	61	97	5 9	57	5 5	41
BROWN 49 82 99 103 U/A 79 61 33 59 58 60 61 75 98 48 52 83 70 ALIFORNIA, BERKELEY 4 6 4 11 60 6 3 22 6 U/A 3 U/A 21 U/A 28 32 51 72 38 52 ALIFORNIA, DAVIS ALIFORNIA, IRVINE 95 71 69 97 45 69 48 65 56 62 49 72 93 58 30 91 2 91 96 101 47 72 81 103 94 66 108 95 75 40 41 108 95 75 10 104 43 102 91 96 101 47 72 81 103 94 66 108 98 107 CALIFORNIA, RIVERSIDE ALIFORNIA, RIVERSIDE 104 68 101 104 43 102 91 96 101 47 72 81 103 94 66 108 97 107 CALIFORNIA, SAN DIEGO ALIFORNIA, SAN DIEGO 61 40 48 85 54 58 58 66 62 40 43 32 55 40 59 39 30 60 35 43 40 ALIFORNIA, SANTA BARBARA 64 55 73 65 33 87 66 62 68 53 46 70 96 87 107 68 69 11 9 60 107 107 68 69 11 9 60 107 107 107 107 107 107 107 107 107 10	BRIGHAM YOUNG	68	100	84	95	40	77	56 .	58	61	26	53	71	84	51	61	32	111	42
CALIFORNIA, BERKELEY 4 6 4 11 60 6 3 22 6 U/A 3 U/A 8 22 40 4 13 6 CALIFORNIA, DAVIS 44 34 15 56 57 28 38 79 42 U/A 21 U/A 28 32 51 72 38 52 CALIFORNIA, INVINE 95 71 69 97 45 69 48 65 56 62 49 72 93 58 37 89 67 66 CALIFORNIA, INVINE 95 71 10 2 13 63 10 4 5 5 5 1 7 U/A 28 32 51 72 38 52 CALIFORNIA, INVINE 95 71 10 2 13 63 10 4 5 5 5 1 7 U/A 72 81 103 94 66 108 98 107 CALIFORNIA, RIVERSIDE 104 68 101 104 43 102 91 96 101 47 72 81 103 94 66 108 98 107 CALIFORNIA, SAN DIECO 61 40 48 85 54 58 26 40 43 32 55 40 59 39 30 60 35 43 CALIFORNIA, SANTA BARBARA 64 55 73 65 33 87 66 62 62 68 53 46 70 96 87 62 103 69 75 CASE WESTERN RESERVE 102 110 93 99 62 92 88 87 96 97 107 68 69 11 9 62 107 103 CHICAGO 12 11 25 89 U/A 21 32 46 29 5 10 U/A 19 28 49 60 34 40 CINCINNATI 63 67 61 80 58 47 50 44 48 56 61 24 34 15 6 48 72 54 COLORADO 53 53 53 47 10 5 33 60 80 55 30 50 46 32 19 73 76 61 67 COLORADO STATE 110 78 65 94 48 85 98 98 98 98 98 90 60 78 77 89 111 2 104 94 100 COLORADO STATE 110 78 65 94 46 69 52 34 7 30 54 80 39 48 14 13 47 88 63 CONNECTICUT 50 38 77 46 69 52 34 7 7 30 54 80 39 48 14 13 47 88 63 CONNECTICUT 50 38 77 46 69 52 34 7 7 30 54 80 39 48 14 13 47 88 63 CONNECTICUT 50 38 77 46 69 52 34 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 8 7 7 8 8 7 8 9 11 8 9 7 7 8 9 10 CONNECTICUT 50 38 77 46 69 52 34 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	BRITISH COLUMBIA	29	2 7	59	34	18	40	28	60	41	U/A	42	U/A	33	35	18	33	15	25
CALIFORNIA, DAVIS 44 34 15 56 57 28 38 79 42 U/A 21 U/A 28 32 51 72 38 52 CALIFORNIA, IRVINE 95 71 69 97 45 69 48 65 56 62 49 72 93 58 37 89 67 66 CALIFORNIA, IRVINE 95 71 10 2 13 63 10 4 5 5 5 1 7 U/A 72 81 103 94 66 108 98 107 CALIFORNIA, RIVERSIDE 104 68 101 104 43 102 91 96 101 47 72 81 103 94 66 108 98 107 CALIFORNIA, SAN DIEGO 61 40 48 85 54 58 26 40 43 32 55 40 59 39 30 60 35 43 CALIFORNIA, SANTA BARBARA 64 55 73 65 33 87 66 62 68 53 46 70 96 87 62 103 69 75 CASE WESTERN RESERVE 102 110 93 99 62 92 88 87 96 97 107 68 69 11 9 62 107 103 CHICAGO 12 11 25 89 U/A 21 32 46 29 5 10 U/A 19 28 49 60 34 40 CINCINNATI 63 67 61 80 58 47 50 44 48 56 61 24 34 15 6 48 72 54 COLORADO 53 53 53 47 10 5 33 60 80 55 30 50 46 32 19 73 76 61 67 COLORADO 53 53 53 47 10 5 33 60 80 55 30 50 46 32 19 73 76 61 67 COLORADO 50 38 77 46 69 52 34 7 30 54 80 39 48 14 13 47 88 63 CORNELL 11 4 8 3 3 U/A 9 12 9 10 U/A 13 U/A 14 33 38 19 8 9 CORNELL 11 4 8 8 3 U/A 9 12 9 10 U/A 13 U/A 14 33 38 19 8 9 DARTMOUTH 82 81 67 91 76 72 74 77 75 70 63 31 88 95 81 89 74 92 DARTMOUTH 82 81 67 91 76 72 74 77 75 70 63 31 88 95 81 89 74 92 DARTMOUTH 82 81 67 91 76 72 74 77 75 70 63 31 88 95 81 89 74 92 DARTMOUTH 82 81 67 91 76 72 74 77 75 70 63 31 88 95 81 89 74 92 DARTMOUTH 82 81 67 91 76 72 74 77 75 70 63 31 88 95 81 89 74 92 DARTMOUTH	BROWN	49	82	99	103	U/A	79	61	33	5 9	58	60	61	75	98	48	5 2	83	70
CALIFORNIA, DAVIS 44 34 15 56 57 28 38 79 42 U/A 21 U/A 28 32 51 72 38 52 CALIFORNIA, IRVINE 95 71 69 97 45 69 48 65 56 62 49 72 93 58 37 89 67 66 CALIFORNIA, IRVINE 95 71 69 97 45 69 48 65 56 62 49 72 93 58 37 89 67 66 CALIFORNIA, LOS ANGELES 7 10 2 13 63 10 4 5 5 1 7 U/A 27 6 39 12 9 5 CALIFORNIA, RIVERSIDE 104 68 101 104 43 102 91 96 101 47 72 81 103 94 66 108 98 107 CALIFORNIA, SAN DIEGO 61 40 48 85 54 58 26 40 43 32 55 40 59 39 30 60 35 43 CALIFORNIA, SANTA BARBARA 64 55 73 65 33 87 66 62 68 53 46 70 96 87 62 103 69 75 CASE WESTERN RESERVE 102 110 93 99 62 92 88 87 96 97 107 68 69 11 9 62 107 103 CHICAGO 12 11 25 89 U/A 21 32 46 29 5 10 U/A 19 28 49 60 34 40 CINCINNATI 63 67 61 80 58 47 50 44 48 56 61 24 34 15 6 48 72 54 COLORADO 53 53 53 47 10 5 33 60 80 55 30 50 46 32 19 73 76 61 67 COLORADO 51ATE 110 78 65 94 48 85 98 98 99 60 78 77 89 111 2 104 94 100 COLORADO 51ATE 110 78 65 94 48 85 98 98 99 60 78 77 89 111 2 104 94 100 COLORADO 51ATE 110 78 65 95 38 77 46 69 52 34 7 30 54 80 39 48 14 13 47 88 63 CORNECTICUT 50 38 77 46 69 52 34 7 30 54 80 39 48 14 13 47 88 63 CORNECTICUT 50 38 77 46 69 51 76 72 74 77 75 70 63 31 88 95 81 89 74 92 DARTMOUTH 82 81 67 91 76 72 74 77 75 70 63 31 88 95 81 89 74 92 DARTMOUTH 82 81 87 94 94 104 79 37 57 75 70 63 31 88 95 81 89 74 92 DARTMOUTH 82 81 87 94 94 104 79 37 75 75 70 63 31 88 95 81 89 74 92 PARTMOUTH	CALIFORNIA, BERKELEY	4	6	4	11	60	6	3	22	6	U/A	3	U/A	8	22	40	4	13	-
CALIFORNIA, LOS ANGELES 7 10 2 13 63 10 4 5 5 1 7 U/A 27 6 39 12 9 5 CALIFORNIA, RIVERSIDE 104 68 101 104 43 102 91 96 101 47 72 81 103 94 66 108 98 107 CALIFORNIA, SAN DIEGO 61 40 48 85 54 58 26 40 43 32 55 40 59 39 30 60 35 43 CALIFORNIA, SANTA BARBARA 64 55 73 65 33 87 66 62 68 53 46 70 96 87 62 103 69 75 CASE WESTERN RESERVE 102 110 93 99 62 92 88 87 96 97 107 68 69 11 9 62 107 103 CHICAGO 12 11 25 89 U/A 21 32 46 29 5 10 U/A 19 28 49 60 34 40 CINCINNATI 63 67 61 80 58 47 50 44 48 56 61 24 34 15 6 48 72 54 COLORADO 53 53 53 47 10 5 33 60 80 55 30 50 46 32 19 73 76 61 67 COLORADO STATE 110 78 65 94 48 85 98 98 99 60 78 77 89 111 2 104 94 100 COLUMBIA 10 8 6 25 55 8 9 29 9 U/A 6 2 5 5 43 64 7 10 12 CONNECTICUT 50 38 77 46 69 52 34 7 30 54 80 39 48 14 13 47 88 63 CONNECTICUT 50 38 77 46 69 52 34 7 30 54 80 39 48 14 13 47 88 63 CONNECTICUT 50 38 77 46 69 52 34 7 30 54 80 39 48 14 13 47 88 63 CONNECTICUT 50 38 77 46 69 52 74 77 75 70 63 31 88 95 81 89 74 92 DARTMOUTH 82 81 81 67 91 76 72 74 77 75 70 63 31 88 95 81 89 74 92 DARTMOUTH 82 81 67 91 76 72 74 77 75 70 63 31 88 95 81 89 74 92 DELAWARE 74 94 104 79 37 77 75 70 63 31 88 95 81 89 74 92	CALIFORNIA, DAVIS	44	34	15	56	57	28	38	79	42	U/A	21	U/A	28	32	51	72	38	
CALIFORNIA, RIVERSIDE 104 68 101 104 43 102 91 96 101 47 72 81 103 94 66 108 98 107 CALIFORNIA, SAN DIEGO 61 40 48 85 54 58 26 40 43 32 55 40 59 39 30 60 35 43 CALIFORNIA, SANTA BARBARA 64 55 73 65 33 87 66 62 68 53 46 70 96 87 62 103 69 75 CASE WESTERN RESERVE 102 110 93 99 62 92 88 87 96 97 107 68 69 11 9 62 107 103 CHICAGO 12 11 25 89 U/A 21 32 46 29 5 10 U/A 19 28 49 60 34 40 CINCINNATI 63 67 61 80 58 47 50 44 48 56 61 24 34 15 6 48 72 54 COLORADO 53 53 53 47 10 5 33 60 80 55 30 50 46 32 19 73 76 61 67 COLORADO STATE 110 78 65 94 48 85 98 98 99 60 78 77 89 111 2 104 94 100 COLUMBIA 10 8 6 25 55 8 9 29 9 U/A 6 2 5 43 64 7 10 12 CONNECTICUT 50 38 77 46 69 52 34 7 30 54 80 39 48 14 13 47 88 63 CONNECTICUT 50 38 77 46 69 52 34 7 30 54 80 39 48 14 13 47 88 63 CONNECTICUT 50 38 77 46 69 52 34 7 7 7 75 70 63 31 88 95 81 89 74 92 DELAWARE 74 94 104 79 37 57 75 94 74 42 35 75 94 86 77 82 69 78	CALIFORNIA, IRVINE	95	71	69	97	45	69	48	65	56	62	49	72	93	58	37	89	67	66
CALIFORNIA, SAN DIEGO 61 40 48 85 54 58 26 40 43 32 55 40 59 39 30 60 35 43 CALIFORNIA, SANTA BARBARA 64 55 73 65 33 87 66 62 68 53 46 70 96 87 62 103 69 75 CASE WESTERN RESERVE 102 110 93 99 62 92 88 87 96 97 107 68 69 11 9 62 107 103 CHICAGO 12 11 25 89 U/A 21 32 46 29 5 10 U/A 19 28 49 60 34 40 CINCINNATI 63 67 61 80 58 47 50 44 48 56 61 24 34 15 6 48 72 54 COLORADO 53 53 53 47 10 5 33 60 80 55 30 50 46 32 19 73 76 61 67 COLORADO STATE 110 78 65 94 48 85 98 98 99 60 78 77 89 111 2 104 94 100 COLUMBIA 10 8 6 25 55 8 9 29 9 U/A 6 2 5 43 64 7 10 12 CONNECTICUT 50 38 77 46 69 52 34 7 30 54 80 39 48 14 13 47 88 63 CORNELL 11 4 8 3 U/A 9 12 9 10 U/A 13 U/A 14 33 38 19 8 9 74 92 DELAWARE 74 94 104 79 37 57 75 70 63 31 88 95 81 89 74 92 DELAWARE	CALIFORNIA, LOS ANGELES	7	10	2	13	63	10	4	5	5	1	7	U/A	27	6	39	12	9	5
CALIFORNIA, SANTA BARBARA 64 55 73 65 33 87 66 62 68 53 46 70 96 87 62 103 69 75 CASE WESTERN RESERVE 102 110 93 99 62 92 88 87 96 97 107 68 69 11 9 62 107 103 CHICAGO 12 11 25 89 U/A 21 32 46 29 5 10 U/A 19 28 49 60 34 40 CINCINNATI 63 67 61 80 58 47 50 44 48 56 61 24 34 15 6 48 72 54 COLORADO 53 53 53 47 10 5 33 60 80 55 30 50 46 32 19 73 76 61 67 COLORADO STATE 110 78 65 94 48 85 98 98 99 60 78 77 89 111 2 104 94 100 COLUMBIA 10 8 6 25 55 8 9 29 9 U/A 6 2 5 43 64 7 10 12 CONNECTICUT 50 38 77 46 69 52 34 7 30 54 80 39 48 14 13 47 88 63 CORNELL 11 4 8 3 U/A 9 12 9 10 U/A 13 U/A 14 33 38 19 8 9 DARTMOUTH 82 81 67 91 76 72 74 77 75 70 63 31 88 95 81 89 74 92 DELAWARE 74 94 104 79 37 57 75 94 74 42 35 75 94 86 77 82 69 78	CALIFORNIA, RIVERSIDE	104	68	101	104	43	102	91	96	101	47	72	81	103	94	6 6	108	98	107
CASE WESTERN RESERVE 102 110 93 99 62 92 88 87 96 97 107 68 69 11 9 62 107 103 CHICAGO 12 11 25 89 U/A 21 32 46 29 5 10 U/A 19 28 49 60 34 40 CINCINNATI 63 67 61 80 58 47 50 44 48 56 61 24 34 15 6 48 72 54 COLORADO 5TATE 110 78 65 94 48 85 98 98 99 60 78 77 89 111 2 104 94 100 COLUMBIA 10 8 6 25 55 8 9 29 9 U/A 6 2 5 43 64 7 10 12 CONNECTICUT 50 38 77 46 69 52 34 7 30 54 80 39 48 14 13 47 88 63 CORNELL 11 4 8 3 U/A 9 12 9 10 U/A 13 U/A 14 33 38 19 8 9 T4 92 DELAWARE 74 94 104 79 37 57 75 94 74 42 35 75 94 86 77 82 69 78	CALIFORNIA, SAN DIEGO	61	40	48	85	54	58	26	40	43	3 2	5 5	40	5 9	39	30	60	35	
CHICAGO 12 11 25 89 U/A 21 32 46 29 5 10 U/A 19 28 49 60 34 40 CINCINNATI 63 67 61 80 58 47 50 44 48 56 61 24 34 15 6 48 72 54 COLORADO 53 53 47 10 5 33 60 80 55 30 50 46 32 19 73 76 61 67 COLORADO STATE 110 78 65 94 48 85 98 98 99 60 78 77 89 111 2 104 94 100 COLUMBIA 10 8 6 25 55 8 9 29 9 U/A 6 2 5 43 64 7 10 12 CONNECTICUT 50 38 77 46 69 52 34 7 30 54 80 39 48 14 13 47 88 63 CORNELL 11 4 8 3 U/A 9 12 9 10 U/A 13 U/A 14 33 38 19 8 9 DARTMOUTH 82 81 67 91 76 72 74 77 75 70 63 31 88 95 81 89 74 92 DELAWARE 74 94 104 79 37 57 75 94 74 42 35 75 94 86 77 82 69 78	CALIFORNIA, SANTA BARBARA	64	55	73	65	33	87	66	6 2	68	53	46	70	96	87	62	103		
CINCINNATI 63 67 61 80 58 47 50 44 48 56 61 24 34 15 6 48 72 54 COLORADO 53 53 47 10 5 33 60 80 55 30 50 46 32 19 73 76 61 67 COLORADO STATE 110 78 65 94 48 85 98 98 99 60 78 77 89 111 2 104 94 100 COLUMBIA 10 8 6 25 55 8 9 29 9 U/A 6 2 5 43 64 7 10 12 CONNECTICUT 50 38 77 46 69 52 34 7 30 54 80 39 48 14 13 47 88 63 CORNELL 11 4 8 3 U/A 9 12 9 10 U/A 13 U/A 14 33 38 19 8 9 DARTMOUTH 82 81 67 91 76 72 74 77 75 70 63 31 88 95 81 89 74 92 DELAWARE 74 94 104 79 37 57 75 94 74 42 35 75 94 86 77 82 69 78	CASE WESTERN RESERVE	102	110	93	99	62	92	88	87	96	97	107	68	69	11	9	62	107	103
COLORADO 53 53 47 10 5 33 60 80 55 30 50 46 32 19 73 76 61 67 COLORADO STATE 110 78 65 94 48 85 98 98 99 60 78 77 89 111 2 104 94 100 COLUMBIA 10 8 6 25 55 8 9 29 9 U/A 6 2 5 43 64 7 10 12 CONNECTICUT 50 38 77 46 69 52 34 7 30 54 80 39 48 14 13 47 88 63 CORNELL 11 4 8 3 U/A 9 12 9 10 U/A 13 U/A 14 33 38 19 8 9 DARTMOUTH 82 81 67 91 76 72 74 77 75 70 63 31 88 95 81 89 74 92 DELAWARE 74 94 104 79 37 57 75 94 74 42 35 75 94 86 77 82 69 78	CHICAGO	12	11	25	89	U/A	21	32	46	29	5	10	U/A	19	28	49	60	34	40
COLORADO STATE 110 78 65 94 48 85 98 98 99 60 78 77 89 111 2 104 94 100 COLUMBIA 10 8 6 25 55 8 9 29 9 U/A 6 2 5 43 64 7 10 12 CONNECTICUT 50 38 77 46 69 52 34 7 30 54 80 39 48 14 13 47 88 63 CORNELL 11 4 8 3 U/A 9 12 9 10 U/A 13 U/A 14 33 38 19 8 9 DARTMOUTH 82 81 67 91 76 72 74 77 75 70 63 31 88 95 81 89 74 92 DELAWARE 74 94 104 79 37 57 75 94 74 42 35 75 94 86 77 82 69 78	CINCINNATI	63	67	61	80	58	47	50	44	48	56	61	24	34	15	6	48	72	54
COLUMBIA CONNECTICUT DARTMOUTH Results See See See See See See See See See Se	COLORADO	53	53	47	10	5	33	60	80	5 5	30	50	46	32	19	73	76	61	67
CONNECTICUT 50 38 77 46 69 52 34 7 30 54 80 39 48 14 13 47 88 63 CORNELL 11 4 8 3 U/A 9 12 9 10 U/A 13 U/A 14 33 38 19 8 9 DARTMOUTH 82 81 67 91 76 72 74 77 75 70 63 31 88 95 81 89 74 92 DELAWARE 74 94 104 79 37 57 75 94 74 42 35 75 94 86 77 82 69 78	COLORADO STATE	110	7 8	65	94	48	85	98	98	9 9	60	78	77	89	111	2	104	94	100
CORNELL 11 4 8 3 U/A 9 12 9 10 U/A 13 U/A 14 33 38 19 8 9 DARTMOUTH 82 81 67 91 76 72 74 77 75 70 63 31 88 95 81 89 74 92 DELAWARE 74 94 104 79 37 57 75 94 74 42 35 75 94 86 77 82 69 78		_		6	25			9	29										
DARTMOUTH 82 81 67 91 76 72 74 77 75 70 63 31 88 95 81 89 74 92 DELAWARE 74 94 104 79 37 57 75 94 74 42 35 75 94 86 77 82 69 78		50	38	77	46		52	34	7	30		80		48					
DELAWARE 74 94 104 79 37 57 75 94 74 42 35 75 94 86 77 82 69 78		11	4	8	3	U/A	9	12	9	10	•	13							
		-																	
DUKE 21 29 19 55 6 18 25 31 26 19 15 5 13 13 83 17 36 35								_	_	74			-	_	-				
	DUKE	21	29	19	5 5	6	18	25	31	26	19	15	5	13	13	83	17	36	35





INSTITUTION TABLES

	1	2	3	4	5	6	. 7	8	9	10	11	12	13	14	15	16	17	18
EMORY	69	42	54	72	56	26	36	13	27	23	17	26	 29	31	69	36	39	45
FLORIDA	37	37	41	7	7	25	29	48	31	21	40	17	31	23	46	24	19	22
FLORIDA STATE	83	93	92	21	15	75	89	102	87	85	93	U/A	68	47	65	72	57	65
GEORGE WASHINGTON	105	85	90	92	76	63	63	61	62	93	87	U/A	65	62	7	59	46	60
GEORGETOWN	<i>7</i> 3	41	37	52	67	46	46	50	47	38	54	13	40	93	105	55	58	61
GEORGIA	35	35	22	14	14	27	43	36	37	15	31	U/A	15	38	95	45	21	32
GEORGIA TECH	96	73	87	53	76	96	110	100	107	98	98	82	97	104	111	9 7	110	111
GUELPH	93	111	111	105	76	111	111	109	111	87	110	U/A	111	71	3	111	87	109
HARVARD	1	1	1	2	U/A	1	1	1	1	U/A	2	U/A	2	36	25	1	1	1
HAWAII	46 .	57	45	17	7 6	101	67	104	88	43	70	32	100	69	90	7 6	94	7 8
HOUSTON	99	.87	95	60	25	81	102	69	91	55	76	48	95	57	80	<i>7</i> 5	92	95
HOWARD	<i>7</i> 2	91	96	67	U/A	49	87	43	63	99	111	47	87	109	108	93	97	101
ILLINOIS, CHICAGO	101	<i>7</i> 5	83	<i>7</i> 5	21	66	53	55	57	40	62	43	56	7	10	56 -	40	55
ILLINOIS, URBANA	3	17	3	1	U/A	20	17	37	18	7	20	U/A	20	12	4	8	12	13
INDIANA	13	7	18	51	7 6	22	22	30	23	18	23	12	30	18	20	10	24	15
IOWA ·	28	22_	14	9	13	31	37	38	36	17	47	15	36	16	41	42	58	47
IOWA STATE	86	103	63	81	76	54	71	81	6 6	64	71	60	49	70	76	100	77	83
JOHNS HOPKINS	40	50	62	58	<i>7</i> 2	24	33	11	25	41	30	37	17	56	44	36	27	38
KANSAS	34	49	30	78	24	51	49	53	52	25	34	33	63	25	34	38	<i>7</i> 5	50
KENT STATE	71	90	102	110	7 5	110	72	59	93	95	105	73	110	73	21	49	107	72
KENTUCKY	5 5	7 6	46	15	10	50	42	49	45	7 1	68	42	47	46	26	21	65	24
LAVAL	· 77	74	106	111	76	106	93	_111	106	76	83	76	106	65	87	76	42	7 8
LOUISIANA STATE	47	51	58	29	26	98	92	76	94	59	99	30	90	99	53	71	92	88
MCGILL	43	54	81	106	16	62	65	105	70	39	48	59	85	88	45	64	42	56
MCMASTER	108	105	107	108	76	105	107	107	108	94	109	80	91	68	88	110	77	106
MANITOBA	109	106	110	109	29	108	90	83	102	92	102	U/A	104	66	67	84	49	84
MARYLAND	56	18	35	27	23	48	30	95	50	45	43	51	74	79	58	26	63	36
MASSACHUSETTS	51	83	89	96	44	90	68	99	83	- 66	89	66	7 8	102	106	82	94	92
MIT	62	88	68	100	76	76	64	63	65	83	79	74	62	77	94	45	79	7 8
MIAMI	91	84	80	47	U/A	61	79	85	73	44	90	45	37	40	74	67	67	74
MICHIGAN	8	14	5	16	76	4	6	15	4	4	4	6	1	9	22	_ 9	6	7
MICHIGAN STATE	26	31	43	26	U/A	55	. 47	· 26	44	22	44	52	51	42	50	64	75	46
MINNESOTA	17	12	13	19	2	16	15	14	14	33	33	9	12	1	70	23	25	19
MISSOURI	52	70	64	6_	3	68	81	71	72	57	73	49	46	17	60	76 	51	_ 69
NEBRASKA	66	64	51	45	30	71	85	89	80	84	92	58	60	81	85	87	6 6	78
NEW MEXICO	84	65	75	8	49	80 :	35	32	46	63	67	55	83	61	35	6 9	29	36
NEW YORK	32	21	33	44	35	17	14	23	17	8	11	11	22	55	47	28	14	17
NORTH CAROLINA	20	24	16	42	4	15	23	28	21	9	19	21	24	20	86	15	23	20
NORTH CAROLINA STATE	54	23	27	33	76	39	58	17	40	27	36	35	42	83	84	28	56	43
NORTHWESTERN	30	43	21	66	68	35	31	51	38	37	27	U/A	50	45	19	20	47	33
NOTRE DAME	59 85	59 60	49 32	A 37 3 5 5	76 76	44	62 86	35 74	_53 _89.	24.90	32.70	U/A U/A	WEST.	为于 报	99	3 PME	40 102	268 87





INSTITUTION									TAI	BLES								
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
OHIO STATE	19	26	23	41	59	13	 24	27	20	10	22	8	4	2	1	16	31	18
OKLAHOMA	27	63	78	61	74	59	104	67	81	75	59	38	67	54	27	96	100	94
OKLAHOMA STATE	89	9	55	49	61	95	101	64	98	49	77	U/A	102	53	36	72	98	85
OREGON	78	72	82	102	34	73	80	73	78	50	64	62	86	21	15	84	89	75
PENNSYLVANIA	22	19	28	76	U/A	19	20	3	13	U/A	16	U/A	11	72	11	18	33	23
PENNSYLVANIA STATE	25	13	24	37	73	7	11	12	8	U/A	9	14	7	24	14	14	2	8
PITTSBURGH	31	20	50	54	66	32	44	24	35	U/A	28	U/A	23	29	82	34	32	28
PRINCETON	16	25	29	36	28	12	19	6	12	6	8	7	21	106	52	21	18	2 6
PURDUE	81	102	66	98	32	89	7 0	56	71	96	108	54.	54	78	56	67	45	58
QUEEN'S	88	104	108	68	12	97	99	108	105	88	95	69	82	100	103	106	62	96
RICE	97	58	91	90	47	45	108	101	84	35	24	53	76	110	107	8 7	109	110
ROCHESTER	48	92	105	50	27	88	84	54	77	79	84	64	73	60	57	50	101	86
RUTGERS	33	39	38	24	1	37_	8 -	82	19	31	57	U/A	35	89	55 -	28 <i>÷</i>	= 11	16
SASKATCHEWAN	111	96	103	84	38	107	109	103	109	90	101	79	101	96	68	104	72	105
SOUTH CAROLINA	42	46	70	35	17	60	57	25	51	24	.51	U/A	64	82	31	50	58	50
SOUTHERN CALIFORNIA	36	48	40	20	_31	_29	21	18	22	51	39	22	26	101	97	28	44	30
SOUTHERN ILLINOIS	75	107	<i>7</i> 9	48	36	78	76	6 6	7 6	82	100	44	7 1	50	33	99	85	70
STANFORD	9	2	1 7	31	65	3	2	2	2	U/A	1	U/A	3	92	91	2 `	7	2
SUNY-ALBANY	106	89	85	88	7 6	104	100	92	104	74	9 6	U/A	107	103	63	8 9	90	98
SUNY-BUFFALO	41	56	56	28	U/A	64	52	<i>7</i> 5	58	6 5	75	34	53	37	79	26	105	59
SUNY-STONY BROOK	98	109	109	62	52	84	94	84	90	73	86	78	79	44	89	100	104	102
SYRACUSE	57	101	88	40	46	103	82	86	97	78	104	U/A	98	9 0	92	76	47	62
TEMPLE	<i>7</i> 0	97	86	87	5 3	86	83	72	79	67	85	65	77	105	98	5 7	80	73
TENNESSEE	7 6	69	53	38	70	6 7	69	70	67	48	65	3 6	55	80	28	63	51	64
TEXAS	6	15	10	23	76	14	16	20	16	16	18	16	16	34	29	10	3	10
TEXAS A&M	60	32	26	32	64	38	41	34	39	11	41	18	57	8	24	24	27	21
TEXAS TECH	94	61	44	101	71	56	77	78	69	52	58	41	66	30	8	52	85	56
TORONTO	5 	3		39	U/A	5	7	21	7	2	5	3	9	64	101	_ 5	. 5	3
TULANE	· 8 7	80	98	64	8	91	95	68	92	61	81	U/A	92	85	96	84	90	99
UTAH	58	45	60	74	19	41	40	16	33	U/A	38	25	38	41	<i>7</i> 5	5 2	29	27
VANDERBILT	65	66	5 7	86	51	42	54	45	49	36	52	29	41	76	102	44	54	48
VIRGINIA	24	3 3	12	30	22	36	18	41	24	13	2 5	19	39	27	23	38	22	31
VIRGINIA TECH	100	79	76	12	41	70	96	93	85	86	94	57	52	63	43	109	84	91
WASHINGTON	15	16	9	4	U/A	11	13	19	. 11	29	12	4	6	4	71	13	15	14
WASHINGTON STATE	103	9 9 _	_42	5 9	U/A	8 3	7 8	90	82	91	103	U/A	58	5 9	54	93	80	8 9
WASHINGTON UST. LOUIS	3 9	44	7 1	82	76	43	45	4	28	69	69	28	44	52	42	40	50	5 2
WATERLOO	107	108	100	107	U/A	109	105	106	110	89	106	50	109	107	93	107	82	104
WAYNE STATE	45	98	72	73	39	65	51	39	54	80	66	26	81	2 6	78	43	71 	49
WESTERN ONTARIO	79	62	97	70	76	82	97	110	100	77	91	63	70	74	109	98	51	90
WISCONSIN	14	36	20	43	50	34	10	10	15	20	37 =======	10	45	3	16	سختين س	26 (Taber	11
ALE ORK	- 80 - 80	-5 -47	7 94			2 100		8 88	3 86	المبيعة بأرام	14 82	U/A	10 799	67 91	72 110	-3 92	63	···7:





RANK ORDER TABLE 1 VOLUMES IN LIBRARY

RANK	Institution	VALUE	RANK	Institution	VALUE
1	HARVARD	14,190,704		MARYLAND SYRACUSE UTAH NOTRE DAME TEXAS A&M CALIFORNIA, SAN DIEGO MIT	2,772,663
2		10,294,792	57	SYRACUSE	2,763,851
3	ILLINOIS, URBANA	9,302,203	58	UTAH	2,757,909
4	CALIFORNIA, BERKELEY TORONTO TEYAS	8,946,754	59	NOTRE DAME	2,705,052
5	TORONTO	8,668,036	60	TEXAS A&M	2,646,568
6	TEXAS	7 702 047	61	CALIFORNIA, SAN DIEGO	2,616,776
7	CALIFORNIA, LOS ANGELES	7,401,780	62	MIT	2,579,814
8	MICHIGAN	7,195,097	63	CINCINNATI	2,574,849
ğ	STANFORD	7,151,546	64	CINCINNATI CALIFORNIA, SANTA BARBARA	2,571,484
10	COLUMBIA	7,144,703			
11	CORNELL CHICAGO INDIANA WISCONSIN WASHINGTON PRINCETON MINNESOTA ALBERTA OHIO STATE	6,448,496	66	NEBRASKA AUBURN BRIGHAM YOUNG EMORY TEMPLE KENT STATE HOWARD GEORGETOWN DELAWARE SOUTHERN ILLINOIS	2,560,210
12	CHICAGO	6,419,936	67	AUBURN	2,545,463
13	INDIANA	6,177,219	68	BRIGHAM YOUNG	2,539,726
14	WISCONSIN	5,962,889	69	EMORY	2,522,042
15	WASHINGTON	5,937,690	70	TEMPLE	2,449,366
16	PRINCETON	5,751,978	71	KENT STATE	2,434,685
17	MINNESOTA	5,747,805	72	HOWARD	2,421,048
18	ALBERTA	5,376,450	73	GEORGETOWN	2,416,357
19	OHIO STATE	5,285,344	74	DELAWARE	2,402,535
20	NORTH CAROLINA	5,024,221	75 75	SOUTHERN ILLINOIS .	2,386,181
21	DUKE	4,865,471	76	TENNESSEE LAVAL OREGON WESTERN ONTARIO YORK PURDUE DARTMOUTH FLORIDA STATE NEW MEXICO OHIO	2,376,414
		4,791,947	77	LAVAL	2,375,924
23	PENNSYLVANIA ARIZONA VIRGINIA	4,628,234	78	OREGON	2,362,984
24	VIRGINIA	4,588,606	79	WESTERN ONT ARIO	2,340,148
25	PENNSYLVANIA STATE MICHIGAN STATE OKLAHOMA	4,391,055	80	YORK	2,317,438
26	MICHIGAN STATE	4,272,375	81	PURDUE	2,315,137
27	OKLAHOMA	4,107,132	82	DARTMOLITH	2,309,626
28	IOWA	4,027,546	83	EI ORIDA STATE	2,306,080
29	BRITISH COLUMBIA	4,025,186	84	NEW MEXICO	2,294,405
30	NORTHWESTERN	4,014,312	85	ОНО	2,236,595
31	PITTSBURGH	3,984,764	86	IOWA STATE TULANE QUEEN'S OKLAHOMA STATE ALABAMA MIAMI BOSTON GUELPH TEXAS TECH CALIFORNIA, IRVINE	2,203,833
	NEW YORK	3,835,540	87	TULANE	2,201,401
	RUTGERS	3,777,538	88	OUFFN'S	2,200,004
	KANSAS	3,681,288	89	OKLAHOMA STATE	2,193,110
35	GEORGIA	3 622 094	90	ALABAMA	2,186,919
36	SOUTHERN CALIFORNIA	3,539,184	91	MIAMI	2,180,436
37	FLORIDA	3,474,691	92	BOSTON	2,146,820
38	ARIZONA STATE	3,435,289	93	GUELPH	2,142,348
	WASHINGTON UST. LOUIS	3,350,122	94	TEXAS TECH	2,141,536
40	JOHNS HOPKINS	3,310,479	95	CALIFORNIA, IRVINE	2,080,313
41	SUNY-BUFFALO	3,162,696	96		2,077,369
42	SOUTH CAROLINA	3,143,505	97	RICE	2,067,848
43	MCGILL	3,122,981	98	SUNY-STONY BROOK	2,055,942
44	CALIFORNIA, DAVIS	3,101,524	99	HOUSTON	2,035,040
45	WAYNE STATE	3,081,312	100	VIRGINIA TECH	2,029,711
46	HAWAII	3,055,401	101	ILLINOIS, CHICAGO	2,022,611
47	LOUISIANA STATE	3,054,740	102	CASE WESTERN RESERVE	2,015,763
48	ROCHESTER	3,036,025	103	WASHINGTON STATE	2,001,255
49	BROWN	3,029,071	104	CALIFORNIA, RIVERSIDE	1,954,019
50	CONNECTICUT	2,948,089	105	GEORGE WASHINGTON	1,948,051
51	MASSACHUSETTS	2,935,739	106	SUNY-ALBANY	1,940,532
52	MISSOURI	2,903,639	107	WATERLOO	1,904,449
53	COLORADO	2,850,114	108	MCMASTER	1,853,323
54	NORTH CAROLINA STATE	2,829,312	109	MANITOBA	1,819,301
55	KENTUCKY	2,792,293	110	COLORADO STATE	1,803,493
			111	SASKATCHEWAN	1,762,898

Figure for some institutions includes government documents. See also Rank Order Table 5: Government Documents.



RANK ORDER TABLE 2 VOLUMES ADDED (GROSS)

RANK	Institution	VALUE	Rank	Institution	VALUE
1	HARVARD	308,843	56	SUNY-BUFFALO	67,554
2	STANFORD	253,955		HAWAII	67,240
3	TORONTO	223,903		RICE	66,174
4	CORNELL	203,281		NOTRE DAME	66,111
5	YALE	194,315		OHIO	65,999
6	CALIFORNIA, BERKELEY	166,459		TEXAS TECH	65,952
7	INDIANA	165,828		WESTERN ONTARIO	63,321
8	COLUMBIA	160,413		OKLAHOMA	62,979
9	OKLAHOMA STATE	157,472		NEBRASKA	60,767
10	CALIFORNIA, LOS ANGELES	157,189		NEW MEXICO	60,648
11	CHICAGO	156,082	66	VANDERBILT	60,529
	MINNESOTA	155,893		CINCINNATI	60,102
	PENNSYLVANIA STATE	153,454		CALIFORNIA, RIVERSIDE	59,965
	MICHIGAN	151,140		TENNESSEE	59,848
	TEXAS	146,616		MISSOURI	59,669
		143,200		CALIFORNIA, IRVINE	58,869
17	ILLINOIS, URBANA	135,098		OREGON	58,863
18	MADVIANID	132,284	73	GEORGIA TECH	58,588
19	PENNSYLVANIA	130,095	74	LAVAL	57,664
_20	PENNSYLVANIA PITTSBURGH	127,816		ILLINOIS, CHICAGO	56,650
21	NEW YORK	126,394	76	KENTUCKY	56,197
	IOWA	124,456		BOSTON	55,439
23	NORTH CAROLINA STATE	123,652		COLORADO STATE	55,132
23	NORTH CAROLINA	120,361		VIRGINIA TECH	54,868
25	PRINCETON	118,405		TULANE	54,826
26	OHIO STATE	116,880		DARTMOUTH	54,746
27	BRITISH COLUMBIA	114,117		BROWN	54,547
28	ALBERTA	112,811		MASSACHUSETTS	54,198
28 29	DUKE	111,062		MIAMI	54,091
30	ARIZONA	106,179	85		53,601
31	MICHIGAN STATE	105,942	86	ALABAMA	53,566
32		103,533		HOUSTON	52,830
33	VIRGINIA	97,370	88	MIT	52,142
34	CALIFORNIA, DAVIS	92,884		SUNY-ALBANY	51,161
35	GEORGIA	91,834		KENT STATE	50,584
36	WISCONSIN	90,704		HOWARD	49,750
36 37	FLORIDA	90,570		ROCHESTER	49,621
	CONNECTICUT	90,521		FLORIDA STATE	49,407
38		89,752		DELAWARE	48,169
39 40	RUTGERS CALIFORNIA, SAN DIEGO	87,793		AUBURN	47,184
41	GEORGETOWN	86,459	04	SASKATCHEWAN	45,753
	EMORY	83,976	97 97	TEMPLE	44,399
42		81,964	98	WAYNE STATE	43,845
43	NORTHWESTERN	80,107	99		42,723
44	WASHINGTON UST. LOUIS		100		40,099
45	UTAH SOUTH CAROLINA	78,623			39,573
46	SOUTH CAROLINA	77,537	101		39,494
47	YORK	77,138		PURDUE IOMA STATE	39,148
48	SOUTHERN CALIFORNIA	77,046		IOWA STATE	38,889
49 50	KANSAS JOHNS HOPKINS	76,901 75,294	104 105	-	38,889 37,862
	•	•	107		35,548
51	LOUISIANA STATE	70,969 70,063		MANITOBA	
52	ARIZONA STATE	70,963	107		33,653
53	COLORADO	70,374		WATERLOO	33,404
	MCGILL	70,183	109	SUNY-STONY BROOK	33,099
54 55	CALIFORNIA, SANTA BARBARA	69,205	440	CASE WESTERN RESERVE	30,528



RANK ORDER TABLE 3 CURRENT SERIALS (TOTALS)

HARVARD	RANK	Institution	VALUE	Rank	Institution	VALUE
2 CALIFORNIA, LOS ANCELES 96,021 57 VANDERBILT 22,234 31 ILLINOIS, URBANA 90,954 58 LOUISIANA STATE 22,040 4 CALIFORNIA, BERKELEY 79,440 59 BRITISH COLUMBIA 21,933 5 MICHIGAN 67,400 61 CINCINNATI 21,743 6 COLUMBIA 67,400 61 CINCINNATI 21,743 7 YALE 63,655 62 JOHNS HOYRINS 21,669 8 COLUMBIA 67,400 61 CINCINNATI 21,743 8 COLUMBIA 67,400 61 CINCINNATI 21,743 9 WASHINGTON 32,665 63 JOHNS ATRE 21,616 9 WASHINGTON 52,665 65 COLORADO STATE 20,606 10 TEXAS 52,536 65 COLORADO STATE 20,606 10 TEXAS 61 COLORADO STATE 20,607 12 VIRGINIA 49,800 67 DARTMOUTH 19,877 13 MINNESOTA 45,696 68 MIT 19,127 14 IOWA 44,776 69 CALIFORNIA, IRVINE 19,488 15 CALIFORNIA, DAVIS 42,232 70 SOUTH CAROLINA 18,766 16 NORTH CAROLINA 43,814 71 WASHINGTON UST. LOUIS 16,704 17 STANDRID 43,777 72 WAYNE STATE 18,420 18 INDIANA 42,762 73 CALIFORNIA, SANTA BARBARA 18,284 19 DISIANA 42,762 73 CALIFORNIA, SANTA BARBARA 18,284 20 WISCONSIN 40,255 73 NEW MEXICO 17,501 21 NORTHWESTERN 40,006 76 VIRGINIA TECH 12,720 22 GEORGIA 39,784 77 CONNECTICUT 17,654 23 CHIO STATE 38,943 75 OKLAHOMA 16,689 24 PENNSYLVANIA STATE 38,943 75 OKLAHOMA 16,780 25 CHICAGO 37,742 80 MIAMI 16,430 26 TEXAS A&M 36,632 81 MCGILL 16,277 27 NORTH CAROLINA STATE 35,898 79 SOUTHERN ILLINOIS 16,689 24 PENNSYLVANIA STATE 38,943 75 OKLAHOMA 16,780 25 CHICAGO 37,742 80 MIAMI 16,430 26 TEXAS A&M 36,632 81 MCGILL 16,277 27 NORTH CAROLINA STATE 35,898 79 SOUTHERN ILLINOIS 16,689 26 PENNSYLVANIA 35,696 88 ILLINOIS CHICAGO 16,224 27 PENNSYLVANIA 35,696 88 ILLINOIS CHICAGO 16,224 28 PENNSYLVANIA 35,696 89 HAMM 16,430 26 TEXAS A&M 36,632 81 MCGILL 16,277 27 NORTH CAROLINA STATE 35,882 52 OKEGON 16,224 28 PENNSYLVANIA 35,696 99 MASSACHUSETS 15,510 39 KANSAS 33,189 99 MASSACHUSETS 15,510 30 KANSAS 33,189 99 MASSACHUSETS 15,510 31 CARECTORNIA 22,786 99 PRONYN 11,781 31 ARIZONA STATE 23,030 99 GEORGE WASHINGTON 15,347 41 FLORADORNIA 22,792 99 PRONYN 11,771 41 FLORADORNIA 22,792 99 PRONYN 11,771 42 MASHINGTON STATE 22,714 99 HOUSTON 11,771 41 FLORADORNIA 24,782 99 BROWN 13,330 46 KENTUCKY 26,539 101 C	1	HARVARD	105,837	56	SUNY-BUFFALO	22,767
3 ILLINOIS, URBANA 90,54 58 LOUISIANA STATE 22,069 4 CALIFORNIA, BERKELEY 79,440 59 BRITISH COLUMBIA 21,943 5 MICHIGAN 69,170 60 UTAH 21,833 6 COLUMBIA 67,400 61 CINCINNATI 21,743 7 YALE 63,655 62 JOHNS HOPKINS 21,662 8 CORNELL 62,076 63 JOWA STATE 21,614 9 WASHINGTON 52,665 64 MISSOURI 20,606 10 TEXAS 32,536 65 COLORADO STATE 20,606 11 TEXAS 32,536 65 COLORADO STATE 20,606 11 TEXAS 32,536 65 COLORADO STATE 10,606 11 TEXAS 32,506 65 COLORADO STATE 10,606 11 TEXAS 32,507 65 COLORADO STATE 10,606 12 TEXAS 32,507 65 COLORADO STATE 10,606 13 TEXAS 32,507 65 COLORADO STATE 10,606 13 TEXAS 32,507 65 COLORADO STATE 10,607 65	2	CALIFORNIA, LOS ANGELES				
4 CALIFORNIA, BERKELEY 79,440 59 BIRTISH COLUMBIA 21,933 5 MICHIGAN 67,400 61 CINCINNATI 21,833 6 COLUMBIA 67,400 61 CINCINNATI 21,643 7 YALE 63,655 62 JOHNS HOPKINS 21,648 8 CORNELL 62,076 63 JOWA STATE 21,614 9 WASHINGTON 32,655 64 MISSOURI 20,665 10 TORONTO 51,248 66 PURDUE 20,677 12 VIRGINIA 49,800 67 DARTMOUTH 19,877 13 MINNESOTA 45,696 68 MIT 19,148 14 IOWA 44,776 69 CALIFORNIA, IRVINE 19,488 15 CALLIFORNIA, DAVIS 44,232 70 SOUTH CAROLINA 18,794 17 STANDRO 43,773 72 CALIFORNIA, IRVINE 19,488 16 NORTHUAROLINA 43,484						
5 MICHIGAN	4	CALIFORNIA, BERKELEY				
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16 NORTH CAROLINA			44,776	69	CALIFORNIA, IRVINE	19,048
16 NORTH CAROLINA	15	CALIFORNIA, DAVIS	44,232	<i>7</i> 0	SOUTH CAROLINA	18,976
17 STANFORD	16	NORTH CAROLINA	43,814	<i>7</i> 1	WASHINGTON UST. LOUIS	
18 INDIANA	17	STANFORD	43,773	<i>7</i> 2	WAYNE STATE	
DUKE	18	INDIANA	42,782	<i>7</i> 3	CALIFORNIA, SANTA BARBARA	
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^{+ -} Figure does not include government document serials.



RANK ORDER TABLE 4 MICROFORM UNITS

Rank	Institution	VALUE	Rank	Institution	VALUE
1	ILLINOIS, URBANA	8,742,985		CALIFORNIA, DAVIS	3,936,054
				BOSTON	3,917,726
3	CODNELL	8,458,008 7,488,735	58	IOHNS HOPKINS	3,916,424
4	WASHINICTON	7,069,700	59	WASHINGTON STATE HOUSTON OKLAHOMA SUNY-STONY BROOK YORK	3,880,305
5	WASHINGTON ADIZONA STATE	7,032,553	60	HOUSTON	3,878,346
6	MICCOLIDI	6,564,619	61	OKI AHOMA	3,820,663
0	MISSOURI	6,514,862	62	SLINY-STONY BROOK	3,736,532
7	PLUKIDA NEW MEXICO	6,512,416	63	YORK	3,684,343
8	NEW MEXICO	6,355,468		TULANE	3,660,305
9 10	HARVARD CORNELL WASHINGTON ARIZONA STATE MISSOURI FLORIDA NEW MEXICO IOWA COLORADO	6,153,715		CALIFORNIA, SANTA BARBARA	
		6,148,532	66	NORTHWESTERN	3,629,259
12	CALIFORNIA, BERKELEY VIRGINIA TECH	6,089,735	67	HOWARD	3,627,014
12	CALIEODNIA LOS ANOSIES	6,007,733	68	OUFFN'S	3,622,367
13	CALIFORNIA, LOS ANGELES GEORGIA	6 001 206	69	AI BERTA	3,621,675
14	VENITI ICVV	5,900,455	70	WESTERN ONTARIO	3,551,983
15	MICHICAN	5,879,325	70	AI ARAMA	3,529,849
10	MICHIGAN	5,868,922	71	EMORY	3,493,406
1/	HAWAII	5,000,922 5,001,101	72	WAYNE CTATE	3,483,916
18	I ALE	5,821,101 5,798,219	73	TITAL	3,476,589
19 20	GEORGIA KENTUCKY MICHIGAN HAWAII YALE MINNESOTA SOUTHERN CALIFORNIA	5,764,715	74 75	NORTHWESTERN HOWARD QUEEN'S ALBERTA WESTERN ONTARIO ALABAMA EMORY WAYNE STATE UTAH ILLINOIS, CHICAGO	3,423,008
21	MINNESOTA SOUTHERN CALIFORNIA FLORIDA STATE ARIZONA TEXAS RUTGERS COLUMBIA MICHIGAN STATE MARYLAND	5,724,500	76	PENNSYLVANIA NOTRE DAME KANSAS DELAWARE CINCINNATI IOWA STATE	3,336,249
21	ADIZONA	5,724,300 5,424,841	70	NOTRE DAME	3,309,497
22	ARIZONA	5,636,841 5,624,783 5,545,524 5,372,150	77	YANGAG	3,296,750
23	I EAA5	5,024,703 5.545.534	70	DEL VIVADE	3,086,224
24	KUIGEKS	5,343,324 5,373,150	7.7 90	CINCINNATI	3,085,122
25	COLUMBIA	5,372,130	00	IOWA STATE	3,069,188
26	MICHIGAN STATE	5,339,673	01	WASHINGTON UST. LOUIS	3,043,468
27	MARYLAND	5,334,083	02	OHIO	2,968,584
28	SUNY-BUFFALO	5,230,416		SASKATCHEWAN	2,956,804
29 30	SUNY-BUFFALO LOUISIANA STATE VIRGINIA	5,181,401 5,161,698		CALIFORNIA, SAN DIEGO	
21	CT A NEODED	5,092,874	96	VANDERBILT	2,814,612
31	STANFORD	4,899,720			
32	TEXAS A&M	4,099,720	07	CINV AIRANIV	2,714,891
33	NORTH CAROLINA STATE	4,852,892 4,795,351	90	TEMPLE SUNY-ALBANY CHICAGO RICE DARTMOUTH GEORGE WASHINGTON	2,678,357
34			07	DICE	2,650,878
35		4,789,734	90	NCE DADTMOLITH	2,530,776
36	PRINCETON	4,746,602	91	CEODOE WASHINICTON	2,524,148
37	PENNSYLVANIA STATE	4,735,785	92	ALIBLIDAL	2,462,002
38	TENNESSEE	4,705,639	93	AUDUKIN	2,453,704
39 40	TORONTO SYRACUSE	4,659,023 4,649,733		COLORADO STATE BRIGHAM YOUNG	2,450,309
41	OHIO STATE	4,623,336	04	MASSACHUSETTS	2,373,469
41				CALIFORNIA, IRVINE	2,352,378
42	NORTH CAROLINA	4,496,348		· · · · · · · · · · · · · · · · · · ·	2,343,074
43	WISCONSIN	4,473,041	98	PURDUE CASE WESTERN RESERVE	2,324,704 2,324,704
44	NEW YORK	4,331,927	99		2,298,263
45	NEBRASKA	4,298,197	100	MIT	
46	CONNECTICUT	4,267,956	101	TEXAS TECH	2,168,127
47	MIAMI	4,245,624	102	OREGON	1,934,675
48	SOUTHERN ILLINOIS	4,214,334	103	BROWN	1,719,330
49 50	OKLAHOMA STATE ROCHESTER	4,205,727 4,183,250	104 105		1,679,398 1,561,134
					1,528,766
51	INDIANA	4,152,304	106	MCGILL	1,528,382
52		4,109,902	107	WATERLOO	•
53	GEORGIA TECH	4,109,575	108		1,482,900
54	PITTSBURGH	3,994,700	109		1,464,467
55	DUKE	3,953,717	110		1,269,694
			111	LAVAL	1,268,74



RANK ORDER TABLE 5 GOVERNMENT DOCUMENTS

				·	
RANK	Institution	VALUE	RANK	Institution	VALUE
1	RUTGERS	2,666,638	56	EMORY	130,566
2	MINNESOTA	2,661,784		CALIFORNIA, DAVIS	123,715
3	MISSOURI	1,746,281	58	CINCINNATI	114,425
4	NORTH CAROLINA	1,600,790		OHIO STATE	112,233
5	COLORADO	1,497,600	60	CALIFORNIA, BERKELEY	104,941
6	DUKE	1,386,066	61	OKLAHOMA STATE	86,659
7	FLORIDA	1,267,632	62	CASE WESTERN RESERVE	78,147
8	TULANE	1,191,936	63	CALIFORNIA, LOS ANGELES	69,832
9	ALABAMA	1,169,022		TEXAS A&M	65,519
10	KENTUCKY	1,148,516		STANFORD	40,621
11	YALE	1,125,350		PITTSBURGH	10,411
12	QUEEN'S	1,120,388	67	GEORGETOWN	8,554
13	IOWA	1,037,244	68	NORTHWESTERN	<i>7,</i> 600
14	GEORGIA	1,004,809	69	CONNECTICUT	7,399
15	FLORIDA STATE	947,657		TENNESSEE	5,383
16	MCGILL	836,387	<i>7</i> 1	TEXAS TECH	4,222
17	SOUTH CAROLINA	835,427	72	JOHNS HOPKINS	4,155
18	BRITISH COLUMBIA	831,317	73	PENNSYLVANIA STATE	2,414
19	UTAH	819,313	.74	OKLAHOMA	1,458
20	ARIZONA STATE	771,830	<i>7</i> 5	KENT STATE	69
21	ILLINOIS, CHICAGO	735,250	76	MICHIGAN	0
22	VIRGINIA	709,933	76	HAWAII	0
23	MARYLAND	693,639	76	ARIZONA	0
24	KANSAS	689,779		TEXAS	0
25	HOUSTON	670,177	76	NORTH CAROLINA STATE	0
26	LOUISIANA STATE	626,750	76	INDIANA	0
27	ROCHESTER	580 <i>,7</i> 05	76	GEORGIA TECH	0
28	PRINCETON .	577,097	76	BOSTON	0
29	MANITOBA	552,240	76	YORK	0
30	NEBRASKA	550,119	76	ALBERTA	0
31	SOUTHERN CALIFORNIA	487,581	76	WESTERN ONTARIO	0
	PURDUE	484,749	76	NOTRE DAME	0
33	CALIFORNIA, SANTA BARBARA	479,660	76	IOWA STATE	0
34	OREGON	473,881	76	WASHINGTON U.0ST. LOUIS	0
35	NEW YORK	445,843		OHIO	0
36	SOUTHERN ILLINOIS	440,085	76	SUNY0ALBANY	0
37	DELAWARE	425,397		DARTMOUTH	0
38	SASKATCHEWAN	417,748	76	GEORGE WASHINGTON	0
39	WAYNE STATE	411,659	76	MIT	0
40	BRIGHAM YOUNG	407,086	76	GUELPH	0
41	VIRGINIA TECH	399,525	76	MCMASTER	0
42	AUBURN	394,405	76	LAVAL	0
43	CALIFORNIA, RIVERSIDE	355,136	98	ILLINOIS, URBANA	U/A
44	MASSACHUSETTS	315,238	98	HARVARD	U/A
45	CALIFORNIA, IRVINE	312,396	98	CORNELL	U/A
46	SYRACUSE	311,816		WASHINGTON	U/A
47	RICE	298,732	98	MICHIGAN STATE	U/A
48	COLORADO STATE	294,931	98	SUNY-BUFFALO	U/A
49	NEW MEXICO	291,938	98	TORONTO	U/A
50	WISCONSIN	283,661	98	MIAMI	U/A
51	VANDERBILT	244,567	98	WASHINGTON STATE	U/A
52	SUNY-STONY BROOK	235,983	98	HOWARD	U/A
53	TEMPLE	201,185	98	PENNSYLVANIA	U/A
54	CALIFORNIA, SAN DIEGO	200,273	98	CHICAGO	U/A
55	COLUMBIA	184,197	98	BROWN	U/A
			98	WATERLOO	U/A

U/A - Unavailable



RANK ORDER TABLE 6 TOTAL LIBRARY MATERIALS EXPENDITURES

RANK	Institution	VALUE	RANK	Institution	VALUE
1	HARVARD	21,225,368	56	TEXAS TECH	5,991,177
2	YALE	17,661,000		DELAWARE	5,878,250
3	STANFORD	15,774,213	58	CALIFORNIA, SAN DIEGO	5,876,129
4	MICHIGAN	15,752,654	59	OKLAHOMA	5,868,265
5	TORONTO	13,656,705	60	SOUTH CAROLINA	5,865,091
	CALIFORNIA, BERKELEY	12,883,612		MIAMI	5,860,424
7	PENNSYLVANIA STATE	12,774,600	62	MCGILI	5,828,240
8	COLUMBIA	11,976,363	63	GEORGE WASHINGTON SUNY-BUFFALO	5,824,876
9	CORNELL	11,112,302	64	SUNY-BUFFALO	5,788,115
10	CALIFORNIA, LOS ANGELES	10,944,779		WAYNE STATE	5,716,296
11	WASHINGTON	10,938,280		ILLINOIS, CHICAGO	5,689,313
12	PRINCETON	10,637,727		TENNESSEE	5,685,933
	OHIO STATE	10,332,834	68	MISSOURI	5,674,581
14	TEXAS	10,166,049	69	CALIFORNIA, IRVINE	5,644,801
15	NORTH CAROLINA	10,095,066	70	VIRGINIA TECH	5,466,863
16	MINNESOTA	9,945,563	<i>7</i> 1	NEBRASKA	5,344,345
	NEW YORK	9,835,531	72	DARTMOUTH	5,306,411
18	DUKE	9,827,544	73	OREGON	5,264,739
19	PENNSYLVANIA	9,719,243	74	BOSTON	5,231,022
	MINNESOTA NEW YORK DUKE PENNSYLVANIA ILLINOIS, URBANA	9,719,243 9,446,551	75	VIRGINIA TECH NEBRASKA DARTMOUTH OREGON BOSTON FLORIDA STATE	5,204,764
21	CHICAGO INDIANA ARIZONA JOHNS HOPKINS FLORIDA EMORY GEORGIA CALIFORNIA, DAVIS SOUTHERN CALIFORNIA	9,214,408	76	MiT	5,149,/52
22	INDIANA	9,160,705	77	BRIGHAM YOUNG	5,148,725
23	ARIZONA	9,160,705 9,082,540 8,901,043 8,846,715 8,667,253	<i>7</i> 8	SOUTHERN ILLINOIS	5,114,265
24	IOHNS HOPKINS	8,901,043	79	BROWN	5,113,075
25	FLORIDA	8,846,715	80	NEW MEXICO	5,092,652
26	EMORY	8,667,253	81	HOUSTON	4,988,609
27	GEORGIA	8,568,611	¥')	WESTERN ONTARIO	4,970,392
28	CALIFORNIA, DAVIS	8,509,458	83	WASHINGTON STATE	4,885,113
29	SOUTHERN CALIFORNIA	8,445,395	84	SUNY-STONY BROOK	4,841,804
30	CALIFORNIA, DAVIS SOUTHERN CALIFORNIA ARIZONA STATE	8,332,195	85	WASHINGTON STATE SUNY-STONY BROOK COLORADO STATE	4,837,053
31	IOWA	8,252,648	86	TEMPLE	4,797,994
32	PITTSBURGH	8,241,519	87	CALIFORNIA, SANTA BARBARA	4,792,474
33	COLORADO	8,154,813		ROCHESTER	4,764,403
34	WISCONSIN	8,086,443	89	PURDUE	4,721,361
35	NORTHWESTERN VIRGINIA RUTGERS TEXAS A&M	8,075,665	90	MASSACHUSETTS TULANE	4,541,415
36	VIRGINIA	8,040,235	91	TULANE	4,419,283
37	RUTGERS	7,831,255	92	CASE WESTERN RESERVE	4,409,352
38	TEXAS A&M	7,793,024	93	ALABAMA	4,377,560
39	NORTH CAROLINA STATE	7,666,634	94	OHIO	4,323,513
40	BRITISH COLUMBIA	7,491,774	95	OKLAHOMA STATE	4,310,154
41	UTAH	7,364,307	96		4,283,403
42	VANDERBILT	7,016,298	97	QUEEN'S	4,281,780
43	WASHINGTON UST. LOUIS	7,000,403	98	LOUISIANA STATE	4,274,287
44	NOTRE DAME	6,863,380	99	AUBURN	4,216,133
45	RICE	6,794,913	100		4,165,936
46	GEORGETOWN	6,730,836	101	HAWAII	4,136,056
47	CINCINNATI	6,553,461	102	CALIFORNIA, RIVERSIDE	4,000,326
48	MARYLAND	6,531,857	103		3,995,040
49	HOWARD	6,489,108	104		3,901,276
50	KENTUCKY	6,393,490	105	MCMASTER	3,650,489
51	KANSAS	6,365,230	106	LAVAL	3,642,504
52	CONNECTICUT	6,358,151	107	SASKATCHEWAN	3,614,065
53	ALBERTA	6,294,931	108	MANITOBA	3,365,829
54	IOWA STATE	6,232,365	109	WATERLOO	3,230,922
55	MICHIGAN STATE	6,184,575	110	KENT STATE	2,891,150
		•	111	GUELPH	2,501,940



RANK ORDER TABLE 7 TOTAL SALARIES & WAGES EXPENDITURES

Rank	Institution	VALUE	Rank	Institution	VAL
1	HARVARD	39,955,576	56	BRIGHAM YOUNG	7,456,
2	CT A NICODIO	25,418,343	57 57	SOUTH CAROLINA	7,292,
3	CALIFORNIA, BERKELEY	20,361,969	58	NORTH CAROLINA STATE	7,232, 7,271,
1	CALIFORNIA, LOS ANGELES	20,074,080		BOSTON	
	YALE				6,902,
		19,019,000		COLORADO	6,836,
6	MICHIGAN	18,327,900		BROWN	6,779,
7	TORONTO	17,617,981	62	NOTRE DAME	6,752,
8	RUTGERS	16,544,801	63	NOTRE DAME GEORGE WASHINGTON	6,726,
9	COLUMBIA	16,074,714	64	MIT	6,486,
10	WISCONSIN	15,858,414	65	MCGILL	6,384,9
	PENNSYLVANIA STATE	15,643,255		CALIFORNIA, SANTA BARBARA	6,354,2
	CORNELL	15,334,744		HAWAII	6,107,0
13	WASHINGTON	14,667,195	68	MASSACHUSETTS	6,025,9
14	NEW YORK	14,316,305	69	TENNESSEE	6,011,0
15	MINNESOTA	14,268,202		PURDUE	5,986,
16	TEXAS	14,136,962		IOWA STATE	5,883,9
1 <i>7</i>	ILLINOIS, URBANA	14,045,293	72	KENT STATE	5,862,8
	VIRGINIA	13,268,726		YORK	5,726,5
19	PRINCETON	12,798,345		DARTMOUTH	5,690,2
20	PENNSYLVANIA	11,813,417		DELAWARE	5,684,
21	SOUTHERN CALIFORNIA	11,802,873	76	SOUTHERN ILLINOIS	5,637,4
	INDIANA	11,802,250	77	TEXAS TECH	5,630,
	NORTH CAROLINA	11,698,982	70	WASHINGTON STATE	
24	OHIO STATE				5,595,
		11,568,965		MIAMI	5,580,
25	DUKE	10,466,053		OREGON	5,504,
	CALIFORNIA, SAN DIEGO	9,968,542		MISSOURI	5,487,
27	ARIZONA STATE	9,912,578		SYRACUSE	5,453,
28	BRITISH COLUMBIA	9,747,841		TEMPLE	5,427,
29	FLORIDA	9,703,854	84	ROCHESTER	5,372,
30	MARYLAND	9,654,764	85	NEBRASKA	5,216,0
31	NORTHWESTERN	9,652,811		OHIO	5,199,8
	CHICAGO	9,645,550		HOWARD	5,172,
33	JOHNS HOPKINS	9,595,358	88	CASE WESTERN RESERVE	5,049,
34	CONNECTICUT	9,496,546	89	FLORIDA STATE	5,038,
	NEW MEXICO	9,290,390		MANITOBA	5,010,0
	EMORY	9,173,786		CALIFORNIA, RIVERSIDE	4,971,
37	IOWA	9,090,274		LOUISIANA STATE	4,932,0
	CALIFORNIA, DAVIS	9,002,807		LAVAL	
39	ARIZONA				4,917,
40	UTAH	8,986,733 8,815,095	94 95	SUNY-STONY BROOK TULANE	4,910, 4,650,
41	TEXAS A&M	8,807,871	04	VIRGINIA TECH	4,638,0
42	KENTUCKY	8,692,241		WESTERN ONTARIO	
43	GEORGIA		97	WESTERN ONTARIO	4,626,5
43 44	PITTSBURGH	8,559,725	98	COLORADO STATE	4,556,5
		8,503,095	99	-	4,418,6
45	WASHINGTON UST. LOUIS	8,484,478		SUNY-ALBANY	4,357,3
46	GEORGETOWN	8,232,165	101	OKLAHOMA STATE	4,302,4
47	MICHIGAN STATE	8,155,179	102	HOUSTON	4,155,0
48	CALIFORNIA, IRVINE	8,125,517	103	ALABAMA	4,116,2
49	KANSAS	8,004,129	104	OKLAHOMA	4,042,
50	CINCINNATI	7,979,932	105	WATERLOO	3,841,0
51	WAYNE STATE	7,973,401	106	AUBURN	3,835,2
52	SUNY-BUFFALO	7,854,571	107	MCMASTER	3,803,9
53	ILLINOIS, CHICAGO	7,659,413	108	RICE	3,782,4
	VANDERBILT	7,513,488	109	SASKATCHEWAN	3,668,7
55	ALBERTA	7,496,982	110	GEORGIA TECH	3,629,3
55	======	.,,	110	OLUMON I LUCII	シュロムファム



RANK ORDER TABLE 8 OTHER OPERATING EXPENDITURES

RANK	Institution	VALUE	RANK	Institution	VALUE
	HARVARD	14,665,800	56	PURDUE	2,071,391
2	STANFORD	10,841,023	50 57	BOSTON	2,068,383
. 3	PENNSYLVANIA	7,886,423	58	BOSTON BRIGHAM YOUNG KENT STATE BRITISH COLUMBIA GEORGE WAS SANITA BARBARA	2,050,511
	WASHINGTON UST. LOUIS	6,628,462	59 59	KENT STATE	1,955,622
	CALIFORNIA, LOS ANGELES	6,356,054	60	BRITISH COLUMBIA	1,951,145
	PRINCETON	5,839,592	61	GEORGE WASHINGTON	1,940,749
7	CONNECTICUT	5,697,767	62	CALIFORNIA, SANTA BARBARA	1,936,476
8	YALE	5,629,000		MIT	1,862,780
9	CORNELL	5,617,564		OKLAHOMA STATE	1,834,275
10	WISCONSIN	5,529,772	65	CALIFORNIA, IRVINE	1,806,076
11	JOHNS HOPKINS	5,525,898	66	SOUTHERN ILLINOIS	1,787,898
12	PENNSYLVANIA STATE	5,220,930	67	OKLAHOMA	1,747,613
13	EMORY	5,193,585	68	TULANE	1,692,440
	MINNESOTA	5,074,989	69	HOUSTON	1,686,522
	MICHIGAN	4,811,938	70	TENNESSEE	1,648,609
	UTAH	4,570,180	71	MISSOURI	1,593,015
17	NORTH CAROLINA STATE	4,453,370	72	TEMPLE	1,584,894 1,544,530
18	SOUTHERN CALIFORNIA	4,396,762	73	OKEGON	1,525,518
19	WASHINGTON TEXAS	4,261,749 4,215,544	74 75	SI INIVERI IEE A I	1,520,096
20	TEAS		75	OKLAHOMA TULANE HOUSTON TENNESSEE MISSOURI TEMPLE OREGON OHIO SUNY-BUFFALO LOUISIANA STATE DARTMOUTH TEXAS TECH CALIFORNIA, DAVIS COLORADO IOWA STATE RUTGERS MANITOBA SUNY-STONY BROOK	1,020,000
21	TORONTO	4,144,329	76	LOUISIANA STATE	1,480,943
22	CALIFORNIA, BERKELEY	3,917,333	<i>77</i>	DARTMOUTH	1,458,867
23	NEW YORK	3,703,101	78	TEXAS TECH	1,457,047
	PITTSBURGH	3,619,086	79	CALIFORNIA, DAVIS	1,448,275
25	SOUTH CAROLINA	3,553,547	80	COLORADO	1,433,564
	MICHIGAN STATE	3,547,418	81	IOWASIAIE	1,416,398
27	OHIO STATE	3,499,281	82	RUIGERS MANUTORA	1,397,781 1,358,862
	NORTH CAROLINA	3,497,480	83	MANITOBA	1,272,313
29 30	COLUMBIA INDIANA	3,485,954 3,276,661	85	SOINT-STOINT BROOK	1,271,405
31	DUKE	3,242,881	86	SYRACUSE	1,235,095
	NEW MEXICO	3,199,940		CASE WESTERN RESERVE	1,232,820
	BROWN	3,091,477		YORK	1,211,910
	TFXAS A&M	3,078,998	89	NEBRASKA	1,176,038
	NOTRE DAME	3,070,628		WASHINGTON STATE	1,175,485
36	NOTRE DAME GEORGIA ILLINOIS, URBANA	3,017,834	91	ALABAMA	1,089,306
37	ILLINOIS, URBANA	2,989,969		SUNY-ALBANY	1,079,658
38	IOWA	2 <i>,</i> 977 <i>,</i> 788	93	VIRGINIA TECH	1,049,786
39	WAYNE STATE	2,960,130		DELAWARE	1,045,102
40	CALIFORNIA, SAN DIEGO	2,948,877	95	MARYLAND	986,962
41	VIRGINIA	2,879,519		CALIFORNIA, RIVERSIDE	967,755
42	ARIZONA	2,796,096	97		962,178
43	HOWARD	2,738,982	98	COLORADO STATE	960,294
44	CINCINNATI	2,735,395	99	MASSACHUSETTS	930,921 905,874
45	VANDERBILT	2,704,851	100		900,252
46	CHICAGO	2,685,893	101		775,287
47	AUBURN	2,657,944	102 103		747,484
48	FLORIDA	2,652,805	103		681,001
49 50	KENTUCKY GEORGETOWN	2,508,406 2,409,592	104	MCGILL	668,942
51	NORTHWESTERN	2,405,533	106	WATERLOO	576,519
52	ARIZONA STATE	2,372,833	107		563,840
53	KANSAS	2,326,188	108		499,891
54	ROCHESTER	2,211,259	109		405,129
55	ILLINOIS, CHICAGO	2,143,289	110		394,185
			111	LAVAL	385,847



RANK ORDER TABLE 9 TOTAL LIBRARY EXPENDITURES

Rank	Institution	VALUE	Rank	Institution	VALUE
1	HARVARD	77,021,323	56	CALIFORNIA, IRVINE	15,743,552
2	STANFORD	52,772,788	57	ILLINOIS, CHICAGO	15,642,120
3	YALE	42,791,000		SUNY-BUFFALO	
4	MICHIGAN	39,310,808	59		15,313,518
5	CALIFORNIA, LOS ANGELES	37,984,020		ALBERTA	15,212,572
6	CALIFORNIA, BERKELEY	37,959,895		BRIGHAM YOUNG	14,851,558
7	TORONTO	35,697,404	62	GEORGE WASHINGTON	14,840,314
8	PENNSYLVANIA STATE	34,167,912	63	HOWARD	14,608,944
9	COLUMBIA	32,302,233		BOSTON	14,507,775
10	CORNELL	32,262,079	65	MIT	14,424,315 13,718,367
11	WASHINGTON	30,143,019	66	IOWA STATE	13,709,632
	PRINCETON	29,785,800	67	TENNESSEE	13,482,572
13	PENNSYLVANIA	29,740,103		CALIFORNIA, SANTA BARBARA	13,288,288
14	MINNESOTA	29,715,493	69	TEXAS TECH	13,165,298
15	WISCONSIN	29,681,576		MCGILL	
16	TEXAS	28,695,585		PURDUE	13,016,793
17	NEW YORK	28,412,910		MISSOURI	12,901,160
18	ILLINOIS, URBANA	26,700,017	73	MIAMI	12,892,076
19	RUTGERS	26,034,808		DELAWARE	12,833,500
	OHIO STATE	25,711,099	75	DARTMOUTH	12,723,008 12,682,298
21	NORTH CAROLINA	25,580,957	76	SOUTHERN ILLINOIS	12,681,017
22	SOUTHERN CALIFORNIA	24,877,322		ROCHESTER	
	INDIANA	24,541,261		OREGON	12,463,572
24	VIRGINIA	24,386,384		TEMPLE	12,461,829
25	JOHNS HOPKINS	24,157,170		NEBRASKA	11,979,013
26	DUKE	23,807,735	81	OKLAHOMA	11,910,618
	EMORY	23,209,335		WASHINGTON STATE	11,779,859
28	WASHINGTON UST. LOUIS	22,250,970		MASSACHUSETTS	11,769,106
29	CHICAGO	21,967,696	84	RICE.	11,640,631
30	CONNECTICUT	21,821,171	85	VIRGINIA TECH	11,559,640 11,292,552
31	FLORIDA	21,432,347	86	YORK	11 220 FEE
32	ARIZONA	21,097,072		FLORIDA STATE	11,238,555
33	UTAH	20,991,278		HAWAII	11,218,566
34	ARIZONA STATE	20,795,484		OHIO	11,182,683
	PITTSBURGH	20,762,532		SUNY-STONY BROOK	11,159,879
	IOWA	20,529,026		HOUSTON	11,111,253
37	GEORGIA	20,396,299		TULANE	10,954,370
38	NORTHWESTERN	20,271,953		KENT STATE	10,868,634
	TEXAS A&M	19,848,181		LOUISIANA STATE	10,814,659
40	NORTH CAROLINA STATE	19,631,014		AUBURN	10,805,970 10,798,596
41	BRITISH COLUMBIA	19,332,180	96	CASE WESTERN RESERVE	
42	CALIFORNIA, DAVIS	19,239,993		SYRACUSE	10,795,112
43	CALIFORNIA, SAN DIEGO	19,138,730	98	OKLAHOMA STATE	10,764,008
44	MICHIGAN STATE	18,184,724		COLORADO STATE	10,581,161
	KENTUCKY	17,742,898	100	WESTERN ONTARIO	10,463,819
	NEW MEXICO	17,674,257	100	CALIFORNIA, RIVERSIDE	10,113,520
. —	GEORGETOWN	17,610,000	101		10,107,695
	CINCINNATI	17,437,734		MANITOBA ALABAMA	9,837,851
	VANDERBILT	17,427,569		SUNY-ALBANY	9,737,801
	MARYLAND	17,380,859		QUEEN'S	9,409,168 9,306,043
51 5	SOUTH CAROLINA	16,913,944	106	LAVAL	
	KANSAS	16,872,942		GEORGIA TECH	8,951,637
_	NOTRE DAME	16,784,881		MCMASTER	8,879,202
	WAYNE STATE	16,737,261			8,125,496
54	WAINESIAIE				
	COLORADO	16,626,011		SASKATCHEWAN WATERLOO	8,094,695 7,704,935



RANK ORDER TABLE 10 MONOGRAPHS PURCHASED (VOLUMES)

RANK	Institution	VALUE	Rank	Institution	VALUE
1	CALIFORNIA, LOS ANGELES	144,962	56	CINCINNATI	27,135
2	TORONTO	129,783	57	MISSOURI	26,180
3	YALE	126,057		BROWN	25,947
4	MICHIGAN	91,993		LOUISIANA STATE	25,203
5	CHICAGO	83,643		COLORADO STATE	24,398
6	PRINCETON	79,428		TULANE	24,311
7	ILLINOIS, URBANA	<i>7</i> 5,019		CALIFORNIA, IRVINE	24,277
8	NEW YORK	71,505		NEW MEXICO	24,267
9	NORTH CAROLINA	70,029		IOWA STATE	24,057
10	OHIO STATE	66,209	65	SUNY-BUFFALO	23,938
11	TEXAS A&M	59,606		MASSACHUSETTS	23,593 23,525
12	ARIZONA	56,253 55,730		TEMPLE ALBERTA	23,381
13	VIRGINIA	55,739 54,914		WASHINGTON UST. LOUIS	23,364
14	ARIZONA STATE	54,145		DARTMOUTH	23,360
15	GEORGIA	53,962		KENTUCKY	23,179
16 17	TEXAS IOWA	53,765	72	ROSTONI	23.132
18	INDIANA	51,875	73	SUNY-STONY BROOK	21,856
	DIKE	51 677	74	SUNY-ALBANY	21,570
20	WISCONSIN	50,742	75	SUNY-STONY BROOK SUNY-ALBANY OKLAHOMA	21,363
21	FLORIDA	49,751		LAVAL	21,252
22	MICHIGAN STATE	47,999	77	WESTERN ONTARIO	21,175
23	EMORY	47,311	78	SYRACUSE	20,434
24	SOUTH CAROLINA	47,214	79	ROCHESTER	20,370
25	KANSAS	46,950	80	WAYNE STATE	19,960
26	BRIGHAM YOUNG	46,388		ALABAMA	19,747
27	NORTH CAROLINA STATE	46,337		SOUTHERN ILLINOIS	19,436
28	AUBURN	46,184		MIT	19,369
29 30	WASHINGTON COLORADO	45,220 39,843		NEBRASKA FLORIDA STATE	19,143 18,068
		•	96	VIRGINIA TECH	17,610
31	RUTGERS	39,749 39,503	86 87	GUELPH	17,400
	CALIFORNIA, SAN DIEGO			QUEEN'S	17,232
33		37,493 37,388		WATERLOO	16,967
34 35		37,163		SASKATCHEWAN	16,525
36	VANDERBILT	37,105		WASHINGTON STATE	15,974
37	NORTHWESTERN	35,702		MANITOBA	15,841
38		35,301		GEORGE WASHINGTON	13,805
39	MCGILL	34,003		MCMASTER	13,562
40		33,395	95	KENT STATE	13,523
41	JOHNS HOPKINS	33,196	96		12,699
42	DELAWARE	32,617	97	CASE WESTERN RESERVE	11,985
43	HAWAII	32,262	98		10,987
44	MIAMI	32,143		HOWARD	9,750
45	MARYLAND	31,668		HARVARD	U/A
46		31,321	100		U/A
47		30,617	100		U/A
48		30,515	100		U/A U/A
49 50	_	30,472 30,298	100 100		U/A U/A
		30,154	100	PENNSYLVANIA	U/A
51 52		29,605	100		U/A
52 53		29,272	100		U/A
	CONNECTICUT	28,075	100		U/A
	HOUSTON	27,438	100		U/A
33		,	100		U/A

U/A - Unavailable



RANK ORDER TABLE 11 EXPENDITURES FOR MONOGRAPHS

Rank	Institution	VALUE	Rank	Institution	Value
1	STANFORD	8,259,180	56	ALBERTA	1,506,651
	HARVARD	7,903,569	57		1,486,724
	CALIFORNIA, BERKELEY	6,112,128	58		
	MICHIGAN	5,665,587		OKLAHOMA	1,479,458
5	TORONTO				1,451,914
6		5,423,799		BROWN	1,441,597
	COLUMBIA	4,790,279		CINCINNATI	1,433,335
. 7	CALIFORNIA, LOS ANGELES	4,786,476		ILLINOIS, CHICAGO	1,426,531
	PRINCETON	3,871,790	_	DARTMOUTH	1,423,855
9	PENNSYLVANIA STATE	3,786,543	64	OREGON	1,386,844
10	CHICAGO	3,714,053	65	TENNESSEE	1,363,906
11	NEW YORK	3,571,958		WAYNE STATE	1,357,302
12	WASHINGTON	3,539,392		NEW MEXICO	1,338,515
13	CORNELL	3,532,283	68	KENTUCKY	1,322,368
14	YALE	3,516,000	69	WASHINGTON UST. LOUIS	1,307,759
15	DUKE	3,191,214		HAWAII	1,293,446
16	PENNSYLVANIA	3,151,051	71	IOWA STATE	1,277,270
17	EMORY	3,112,607		CALIFORNIA, RIVERSIDE	1,242,058
18	TEXAS	3,111,956	73		1,231,845
19	NORTH CAROLINA	3,104,865		OHIO	1,226,338
20	ILLINOIS, URBANA	3,089,940	75	SUNY-BUFFALO	1,211,631
21	CALIFORNIA, DAVIS	2,977,616	76	HOUSTON	1,176,921
22	OHIO STATE	2,862,199	77		1,168,405
23	INDIANA	2,631,181		COLORADO STATE	1,164,806
24	RICE	2,595,672		MIT	
25	VIRGINIA	2,556,392		CONNECTICUT	1,137,736
26	ARIZONA	2,521,701		TULANE	1,103,635
27	NORTHWESTERN				1,096,466
	PITTSBURGH	2,468,174		YORK	1,087,581
29	ARIZONA STATE	2,457,709		LAVAL	1,079,213
	JOHNS HOPKINS	2,314,073 2,303,636	84 85	ROCHESTER TEMPLE	1,060,567 1,044,880
31	GEORGIA	2,298,244	07	CLINIV CTONIV PROOF	
	NOTRE DAME		86	SUNY-STONY BROOK	1,033,253
	MINNESOTA	2,281,522		GEORGE WASHINGTON	1,022,228
		2,280,033	88	ALABAMA	1,021,449
	KANSAS	2,243,295	89	MASSACHUSETTS	1,011,836
	DELAWARE	2,172,829		MIAMI	1,008,337
36	NORTH CAROLINA STATE	2,127,855	91	WESTERN ONTARIO	1,001,719
	WISCONSIN	2,092,922	92	NEBRASKA	998,367
	UTAH	2,072,698	93	FLORIDA STATE	970,178
39	SOUTHERN CALIFORNIA	2,062,968	94	VIRGINIA TECH	965,647
40	FLORIDA	2,044,623	95	QUEEN'S	960,011
41	TEXAS A&M	2,038,264		SUNY-ALBANY	901,289
42	BRITISH COLUMBIA	1,983,907	97	BOSTON	899,717
43	MARYLAND	1,915,621	98	GEORGIA TECH	852,642
44	MICHIGAN STATE	1,860,280		LOUISIANA STATE	850,028
45	AUBURN	1,846,571		SOUTHERN ILLINOIS	841,695
46	CALIFORNIA, SANTA BARBARA	1,838,622		SASKATCHEWAN	817,088
47	IOWA	1,828,603		MANITOBA	796,706
48	MCGILL	1,806,586		WASHINGTON STATE	773,132
49	CALIFORNIA, IRVINE	1,702,875		SYRACUSE	764,999
50	COLORADO	1,676,318	105	KENT STATE	758,797
51	SOUTH CAROLINA	1,662,211	106	WATERLOO	701 <i>,7</i> 73
_	VANDERBILT	1,657,797		CASE WESTERN RESERVE	686,473
53	BRIGHAM YOUNG	1,588,030			
_	GEORGETOWN			PURDUE	627,568
	CALIFORNIA, SAN DIEGO	1,560,446		MCMASTER	538,812
33	CALIFORNIA, SAIN DIEGO	1,545,197		GUELPH	434,649
			111	HOWARD	385,403



RANK ORDER TABLE 12 CURRENT SERIALS PURCHASED (SUBSCRIPTIONS)

RANK	Institution	VALUE	Rank	Institution	VALUE
	YALE	55,924	56	AUBURN	11,815
1 2	COLUMBIA	41,701		VIRGINIA TECH	11,743
3	TORONTO	40,950	58	NEBRASKA	11,661
4	WASHINGTON	38,451		MCGILL	11,545
5	DUKE	38,358		IOWA STATE	11,313
	MICHIGAN	34,343		BROWN	10,929
6		33,964		OREGON	10,808
7	PRINCETON	32,416		WESTERN ONTARIO	10,792
8	OHIO STATE	32,269		ROCHESTER	10,736
9 10	MINNESOTA WISCONSIN	29,849		TEMPLE	10,690
11	NEW YORK	29,587	66	MASSACHUSETTS	10,642
12	INDIANA	29,328		ALABAMA	10,098
	GEORGETOWN	28,170		CASE WESTERN RESERVE	10,007
	PENNSYLVANIA STATE	28,069	۷0	OFFERIC	9,933
	TOTALA	27 956		CALEGONIA CANDA BARRARA	9,834
	TEXAS	26.911	71	BRIGHAM YOUNG	9,653
	FLORIDA	24.906	72	CALIFORNIA, IRVINE	9,613
	TEXAS A&M	24.787	73	KENT STATE	9,185
	_VIRGINIA	24 617	74	MIT	9,121
$\frac{19}{20}$	ALBERTA	26,911 24,906 24,787 24,617 		CALIFORNIA, SANTA BARBARA BRIGHAM YOUNG CALIFORNIA, IRVINE KENT STATE MIT DELAWARE	8,922
21	NORTH CAROLINA	22,348	76	LAVAL	8 <i>,7</i> 70
22		21,812	77	COLORADO STATE	8,714
23	ARIZONA STATE	20,679		SUNY-STONY BROOK	8,291
	CINCINNATI	19,761		SASKATCHEWAN	7,823
		18,912		MCMASTER	7,813
		18,420	81	CALIFORNIA, RIVERSIDE	<i>7,7</i> 21
	EMORY WAYNE STATE	18,420		GEORGIA TECH	6,638
26	WASHINGTON UST. LOUIS	18,419		ARIZONA	Ú/A
28		18,314		BOSTON	U/A
29 30	VANDERBILT LOUISIANA STATE	17,933	83		U/A
21	DARTMOUTH	17,583	83	CALIFORNIA, BERKELEY	U/A
	HAWAII	17,466	83	CALIFORNIA, DAVIS	U/A
	KANSAS	17,021	83	CALIFORNIA, LOS ANGELES	U/A
		16,751	83	CHICAGO	U/A
34		16,730	83	CORNELL	U/A
35	NORTH CAROLINA STATE	16,656	83	FLORIDA STATE	U/A
36	TENNESSEE	16,476	83	GEORGE WASHINGTON	U/A
37		16,216		GEORGIA	U/A
	OKLAHOMA CONNECTICUT	16,046		GUELPH	U/A
39 40	CALIFORNIA, SAN DIEGO	16,012		HARVARD	U/A
41	TEXAS TECH	15,879	83	ILLINOIS, URBANA	U/A
41	KENTUCKY	15,138	83		U/A
42	ILLINOIS, CHICAGO	15,125	83		U/A
43		15,046	83		Ú/A
44		14,556	83		Ú/A
45	MIAMI	14,303	83		Ú/A
46		14,081	83		U/A
47		13,869	83		U/A
48		13,710	83		U/A
49 50		13,430	83		U/A
		13,119	83	STANFORD	U/A
51	MARYLAND	12,848	83		Ú/A
52		12,048	83		U/A
53		12,113	83		U/A
54		11,878	83		U/A
55	NEW MEXICO	11,0/0	83		Ū/A

U/A - Unavailable



RANK ORDER TABLE 13 EXPENDITURES FOR CURRENT SERIALS

12 MINNESOTA	RANK	Institution	VALUE	Rank	Institution	VALUE
2 HARVARD 8,461,689 57 TEXAS A&M 4,028,601 3 STANFORD 7,515,033 58 WASHINGTON STATE 3,998,233 4 OHIO STATE 7,266,971 5 COLUMBIA 7,715,064 60 NEBRASKA 3,993,046 6 WASHINGTON 7,716,064 60 NEBRASKA 3,993,046 7 CALLFORNIA, BERKELEY 6,771,64 63 MAINAS 3,907,362 8 CALLFORNIA, BERKELEY 6,771,64 63 MAINAS 3,907,464 10 YALE 6,289,000 65 GEORGE WASHINGTON 3,862,012 11 PENNSYLVANIA 6,120,503 66 TEXAS TECH 3,807,362 12 MINNESOTA 5,929,985 67 OKLAHOMA 3,733,159 13 DURE 5,929,588 68 FLORIDA STATE 3,662,130 14 CORNELL 5,866,508 69 CASE WESTERN RESERVE 3,651,353 15 GEORGIA 5,726,213 70 WESTERN ONTARIO 3,907,363 16 TEXAS 5,569,124 72 NOTHER DAME 3,546,727 17 JULIEN 3,569,124 72 NOTHER DAME 3,546,727 18 JULIEN 3,569,124 72 NOTHER DAME 3,546,727 19 CHICAGO 5,569,124 72 NOTHER DAME 3,546,727 20 ILLINOIS, URBANA 5,526,344 75 BROWN 3,469,574 21 PRINCETON 5,247,288 76 RICE 3,409,550 22 NEW YORK 5,279,349 77 TEMPLE 3,396,457 23 PITTISBURGH 5,120,441 80 ALABAMA 3,125,556 24 NORTH CAROLINA 5,185,674 79 SUNY-STONY BROOK 3,316,322 25 RAIZONA STATE 5,170,441 80 ALABAMA 3,125,556 26 NOTHER CALLFORNIA 5,120,598 78 MASSACHUSETITS 3,386,431 21 PRINCETON 5,247,288 76 RICE 3,409,550 22 NEW YORK 5,279,349 77 TEMPLE 3,396,357 23 PITTISBURGH 5,170,441 80 ALABAMA 3,312,565 24 NORTH CAROLINA 5,185,674 79 SUNY-STONY BROOK 3,316,322 25 RAIZONA STATE 5,170,441 80 ALABAMA 3,312,565 30 INDIANA 4,669,396 81 WAYNE STATE 3,275,464 31 ROUTH CAROLINA 5,185,674 79 SUNY-STONY BROOK 3,316,322 31 ROUTH CAROLINA 5,185,674 79 SUNY-STONY BROOK 3,316,325 31 ROUTH CAROLINA 5,185,674 79 SUNY-STON	1	MICHIGAN	9,271,891	56	ILLINOIS, CHICAGO	4.036.494
3 STANFORD 7,515,033 58 WASHINGTON STATE 3,998,233 4 OHIO STATE 7,268,971 59 CALIFORNIA, SAN DIEGO 3,997,385 5 COLUMBIA 7,186,084 60 NEBRASKA 3,993,000 50 SASHINGTON 3,925,255 7 PENNSYLVANIA STATE 6,831,304 62 MIT 3,997,607 8 CALIFORNIA, BERKELEY 6,771,484 63 KANSAS 3,8275,259 TORONTO 6,702,705 64 SOUTH CAROLINA 3,827,604 10 YALE 6,289,000 65 GEORGE WASHINGTON 3,862,369 11 DUKE 6,289,000 65 GEORGE WASHINGTON 3,862,369 11 DUKE 6,289,000 65 GEORGE WASHINGTON 3,862,369 12 DUKE 7,998,55 67 OKLAHOMA 3,723,359 13 DUKE 5,299,585 67 OKLAHOMA 3,723,359 13 DUKE 5,299,585 68 FLORIDA STATE 3,692,103 10 DUKE 5,289,580 69 CASE WESTERN RESERVE 3,651,335 15 GEORGIA 5,726,213 70 WESTERN CONTARIO 3,597,263 16 TEXAS 5,650,872 71 SOUTHERN ILLINOIS 3,590,472 17 JOHNS HOPKINS 5,569,124 72 NOTRE DAME 3,545,272 18 ARIZONA 5,552,572 73 NOTRE DAME 3,545,272 19 CHICAGO 5,540,237 74 MARYLAND 3,468,975 10 CHICAGO 5,540,237 74 MARYLAND 3,468,975 12 PRINCETON 5,247,288 77 RICHESTER 3,478,202 11 LINIOIS, URBANA 5,256,344 75 BROWN 3,439,554 12 PRINCETON 5,247,288 77 RICHESTER 3,478,202 12 PRINCETON 5,247,288 78 RICHESTER 3,478,202 12 PRINCETON 5,247,288 78 RICHESTER 3,478,202 12 PRINCETON 5,247,248 78 RICHESTER 3,478,202 12 PRINCETON 5,247,248 78 RICHESTER 3,478,202 12 PRINCETON 5,247,248 78 RICHESTER 3,478,202 12 PRINCET	2	HARVARD		57	TEXAS A&M	
4 OHIO STATE 7.268,971 59 CALIFORNIA, SAN DIEGO 3,997.255 5 COLUMBIA 7.186,084 60 NEBRASKA 3,993,004 6 WASHINCTON 7.072,163 61 BOSTON 3,925,256 7 PENNSYLVANIA STATE 6.831,304 62 MIT 3,907.607 8 CALIFORNIA, BERKELEY 6.771,884 63 KANSAS 3,875,652 9 TORONTO 6.702,705 64 SOUTH CAROLINA 3,874,624 10 YALE 6.289,000 65 GEORGE WASHINGTON 3,862,012 11 PENNSYLVANIA 6,120,503 66 TEXAS TECH 3,807,862,112 12 MINNESOTA 5,529,985 67 OKLAHOMA 3,733,159 13 DUKE 1,586,503 66 FLORIDA STATE 3,662,103 14 CERCEL 5,529,558 68 FLORIDA STATE 3,662,103 15 TEXAS 5,569,872 77 SOUTHERN ILLINOIS 3,562,272 17 JOHNS HOPKINS 5,569,124 72 SOUTHERN ILLINOIS 3,562,272 18 ARIZONA 5,552,572 73 ROCHESTER 1820 3,483,202 19 CHICAGO 5,540,2537 74 MARYLAND 3,484,925 10 CHICAGO 5,540,2537 74 MARYLAND 3,489,554 21 PRINCETON 5,347,288 76 RICE 3,403,650 21 PRINCETON 5,347,288 76 RICE 3,403,650 22 NEW YORK 5,279,349 77 TEMPLE 3,397,675 23 PITTSBURGH 5,207,983 78 MASSACHUSETTS 3,385,431 24 NORTH CAROLINA 5,185,674 79 SUNY-STONY BROOK 3,316,232 25 ARIZONA 5,152,572 84 BRICHAND 3,488,33 27 CALIFORNIA LOS ANGELES 5,09,135 82 QUEENS 3,253,452 28 EMERY OR 5,293,397 88 MASSACHUSETTS 3,385,431 29 CALIFORNIA LOS ANGELES 5,09,135 82 QUEENS 3,253,452 21 PLORIDA 4,923,941 86 ORGON 3,216,245 22 EMERY 3,033,372 84 BRICHAN YOUNG 3,216,245 23 PLOTEBURGH 4,933,912 84 BRICHAN YOUNG 3,216,452 24 EMERY 3,033,372 84 BRICHAN YOUNG 3,216,326 25 OUTHERN CALIFORNIA 4,968,996 85 MCGILL 3,213,996 31 FLORIDA 4,923,941 86 ORGON 3,216,452 32 FLORIDA 4,923,941 86 ORGON 3,216,452 33 BRITISH COLUMBIA 4,830,344 88 DATMOUTH 3,175,166 34 CHICKINAN A 4,968,996 85 MCGILL 3,213,996 35 RUTCERS 4,726,55 90 LOUISIANA STATE 3,129,638 36 RUTCHEN A 4,963,996 85 MCGILL 3,213,997 37 MIAMI 4,644,507 91 TULANE 3,036,343 39 VIRGINIA 4,643,344 94 DELAWARE 3,035,363 39 VIRGINIA 4,643,344 94 DELAWARE 3,036,002 31 FLORIDA 4,923,941 91 PLAWARE 3,036,002 31 FLORIDA 4,968,996 85 MCGILL 3,213,992 31 FLORIDA 4,968,996 85 MCGILL 3,213,992 31 MIAMI 4,644,507 91 TULANE 3,036,363 31 WAYNE STATE 4,526,55 90 LOUISIANA STA	3	STANFORD				
5 COLUMBIA 7,186,084 60 NEBRASKA 3,993,000				59	CALIFORNIA SAN DIEGO	
6 WASHINGTON 7,072,163 61 BOSTON 3,925,255 7 PERNSYLVANIA STATE 6,831,304 62 MIT 3,907,607 8 CALIFORNIA, BERKELEY 6,711,844 63 KANSAS 3,875,652 9 TORONTO 6,702,705 64 SOUTH CAROLINA 3,874,644 10 YALE 6,289,000 65 GEORGE WASHINGTON 3,862,012 11 PENNSYLVANIA 6,120,503 66 TEXAS TECH 3,807,362 12 MINNESOTA 5,929,985 67 OKLAHOMA 3,733,159 13 DUKE 5,929,558 68 FLORIDA STATE 3,662,108 14 CORNELL 5,886,508 69 CASE WESTERN RESERVE 3,562,133 15 GEORGIA 5,726,219 70 WESTERN ONTARIO 3,597,263 14 CORNEL 1,600,108 14 CORNEL 1,600						
7 PENNSYLVANIA STATE 6,831,304 62 MIT 3,907,802 8 CALIFORNIA, BERKELEY 6,771,484 63 KANSAS 3,875,652 9 TORONTO 6,702,705 64 SOUTH CAROLINA 3,874,642 10 YALE 6,289,000 65 GEORGE WASHINGTON 3,862,012 11 PENNSYLVANIA 6,120,503 66 TEXAS TECH 3,807,362 12 MINNESOTA 5,929,585 67 OKLAHOMA 3,733,193 13 DUKE 5,929,585 67 OKLAHOMA 3,763,123 14 CORNELL 5,886,508 69 CASE WESTERN RESERVE 3,631,335 15 GEORGIA 5,726,213 70 WESTERN RESERVE 3,631,335 16 TEXAS 5,650,872 71 SOUTHERN ILLINOIS 3,994,772 17 JOIPA DAME 3,402,727 73 ROCHESTER 3,476,272 18 ARIZONA 5,552,572 73 ROCHESTER 3,476,272		MACLINICTON				
8 CALIFURNIA, BERKELEY 6,7/1,849 63 KANNAS 3387,5429 9 TORONTO 6702,705 64 SOUTHECAROLINA 3,874,644 10 YALE 6,289,000 65 GEORGE WASHINGTON 3,862,012 11 PERNISYLVANIA 5,929,985 67 OKLAHOMA 3,733,189 12 MINNESOTA 5,929,885 67 OKLAHOMA 3,733,189 13 DUKE 5,929,985 67 OKLAHOMA 3,733,189 14 CORNELL 5,886,508 69 CASE WESTERN RESERVE 3,561,335 15 GEORGIA 5,726,213 70 WESTERN RESERVE 3,561,335 16 TEXAS 5,650,872 71 SOUTHERN ILLINOIS 3,934,672 17 JOHNS HOPKINS 5,569,124 72 NOTE DAME 3,764,272 18 ARIZONA 5,552,572 73 ROCHESTER 3,478,202 19 CHICAGO 5,402,337 74 MARYLAND 3,468,079 20 ILLINOIS, URBANA 5,356,344 75 BROWN 3,495,52 21 PRINCETON 5,347,288 76 RICE 3,403,650 22 NEW YORK 5,279,349 77 TEMPLE 3,397,675 23 PITTSBURGH 5,207,983 78 MASSACHUSETTS 3,888,431 24 NORTH CAROLINA 5,158,674 79 SUNYSTONY BROOK 3,316,262 25 ARIZONA 5,158,674 79 SUNYSTONY BROOK 3,316,262 26 ARIZONA 5,158,674 79 SUNYSTONY BROOK 3,316,262 27 ARIZONA 5,158,674 79 SUNYSTONY BROOK 3,316,262 28 ARIZONA 5,158,674 79 SUNYSTONY BROOK 3,316,262 29 EMONY 3,409,569,96 85 MCGILL 3,126,968 30 INDIANA 4,968,996 85 MCGILL 3,126,968 31 FLORIDA 4,923,941 86 OREGON 3,127,968 31 RICHINA 1,04 NS 1,058,96 31 RICHINA 4,445,07 92 TULIANE 3,176,963 32 RICHINA 4,445,07 92 TULIANE 3,176,963 33 RITISH COLUMBIA 4,803,344 88 DARTMOUTH 3,175,166 34 CINCINNATI 4,763,391 89 COLORADO 3,121,590 35 RUTGERS 4,723,625 90 LOUISIANA STATE 3,149,970 37 MIAMI 4,643,507 92 TULIANE 3,133,446 38 RUTGERS 4,723,625 90 LOUISIANA STATE 3,149,970 37 MIAMI 4,644,507 92 TULIANE 3,176,863 38 UTAH 4,603,305 93 CALIFORNIA, RAVINE 3,036,036 39 VIRGINIA 4,603,144 94 DELAWARE 3,036,006 40 CEORGETOWN 4,660,992 91 MCMASTER 3,036,006 41 VANDERBILT 4,577,145 96 CALIFORNIA, RAVINE 3,036,006 41 VANDERBILT 4,577,145 96 CALIFORNIA, RAVIN		DENINGVI VANIA CTATE				
9 TORONTO 6.702.705 64 SOUTH CAROLINA 3887.444 10 YALE 6.289,000 65 GEORGE WASHINGTON 3.862,012 11 PENNSYLVANIA 6.120.503 66 TEXAS TECH 3.807.362 12 MINNESOTA 5.929.958 67 OKLAHOMA 3.733.159 13 DUKE 5.929.558 68 FLORIDA STATE 3.692.108 14 CORNELL 5.808.508 69 CASE WESTERN RESERVE 3.561.353 15 GEORGIA 5.776.213 70 WESTERN RESERVE 3.561.353 16 TEXAS 5.650.872 71 SOUTHERN ILLINOIS 3.990.479 17 JOHNS HOPKINS 5.569.124 72 NOTRE DAME 3.466.279 18 ARIZONA 5.552.572 73 ROCHESTER 3.478.201 19 CHICAGO 5.402.557 74 MARYLAND 3.468.079 20 ILLINOIS, URBANA 5.336.344 75 BROWN 3.495.954 21 PRINCETON 5.347.228 76 RICE 3.403.650 22 NEW YORK 5.279.349 77 TEMPLE 3.403.650 23 PITTSBURGH 5.307.983 77 SACHESTER 3.987.673 24 NORTH CAROLINIA 5.185.674 79 SUNY-STONY BROOK 3.388.431 25 ARIZONA STATE 5.170.441 80 ALABAM 3.312.365 26 SOUTHERN CALIFORNIA 5.132.505 81 WAYNE STATE 3.279.349 27 CALIFORNIA, DAVIS 5.064.673 83 NEW MEXICO 3.243.986 28 EMORY 5.053.972 84 BRIGHAM YOUNG 3.243.986 29 EMORY 5.053.972 84 BRIGHAM YOUNG 3.213.966 31 FLORIDA 4.968.996 85 MCGILL 3.213.966 31 RITISH COLUMBIA 4.830.344 88 DARTMOUTH 3.175.666 31 BRITISH COLUMBIA 4.830.344 88 DARTMOUTH 3.175.166 31 GOWA 4.669.992 91 MCMARD 3.103.349.677 31 MIAMI 4.644.507 92 TULANE 3.076.661 32 RITISH COLUMBIA 4.830.344 88 DARTMOUTH 3.175.166 33 RITISH COLUMBIA 4.830.344 87 HOWARD 3.213.590 34 VIRGINIA 4.603.005 93 CALIFORNIA, DAVIS 4.699.92 35 RUTGERS 4.723.625 90 LOUISIANA STATE 3.109.836 36 IOWA 4.669.992 91 MCMASTER 3.109.877 37 MIAMI 4.644.507 92 TULANE 3.076.663 38 UTAHEN 4.444.211 97 GEORGIA TECH 3.179.987 39 VIRGINIA 4.603.144 94 DELAWARE 3.036.061 41 VANDERBILT 4.577.155 96 CALIFORNIA, RAVINE 3.036.061 42 MORTH CAROLINA STATE 4.514.233 97 GEORGIA TECH 2.952.446 43 MASTONIA 4.669.992 91 MCMASTER 3.096.970 44 WAYNETBILT 4.577.155 96 CALIFORNIA, RAVINE 3.036.905 44 WAYNETBILT 4.577.155 96 CALIFORNIA, RAVINE 3.036.905 45 WIRGINIA TECH 4.105.885 107 SUNY-ALBANY 2.280.905 46 MISSOURI 4.327.904 104 MANITORIA, RVINE 3.036.905 47 MIAMI 4.603.144 94 DELAWARE 3.036.907 48 WAYNET		CALIEODAIA DEDICE EV				• •
10 YALE						
11 PENNSYLVANIA						
12 MINNESOTA	10	TALE	6,289,000	65	GEORGE WASHINGTON	3,862,012
13 DUKE						3,807,362
14 CORNELL 5,586,508 69 CASE WESTERN RESERVE 3,651,325 15 GEORGIA 5,726,213 70 WESTERN ONTAINO 3,597,235 16 TEXAS 5,650,872 71 SOUTHERN ILLINOIS 3,590,479 71 JOHNS HOPKINS 5,569,124 72 NOTRE DAME 3,546,277 8 ARIZONA 5,552,572 73 ROCHESTER 3,478,202 19 CHICAGO 5,402,337 74 MARYLAND 3,468,079 10 ILLINOIS, URBANA 5,356,344 75 BROWN 3,439,554 11 PRINCETON 5,347,288 76 RICE 3,403,650 21 PRINCETON 5,347,288 76 RICE 3,403,650 22 NEW YORK 5,279,349 77 TEMPLE 3,397,675 23 PITTISBURCH 5,279,349 77 TEMPLE 3,397,675 24 NORTH CAROLINA 5,185,674 79 SUNY-STONY BROOK 3,316,262 25 ARIZONA 5TATE 5,170,441 80 ALABAMA 3,311,255 26 SOUTHERN CALIFORNIA 5,123,050 81 WAYNE STATE 3,279,638 27 CALIFORNIA, LOS ANGELES 5,099,135 82 QUEENS 3,253,454 28 CALIFORNIA, LOS ANGELES 5,099,135 82 QUEENS 3,253,454 29 EMORY 5,053,972 84 BRIGHAM YOUNG 3,213,600 30 INDIANA 4,968,996 85 MCGILL 3,213,966 31 FLORIDA 4,923,941 86 OREGON 3,213,796 32 COLORADO 4,858,433 87 HOWARD 3,206,661 33 BRITISH COLUMBIA 4,830,344 88 DARTMOUTH 3,175,166 34 CINCINNATI 4,763,391 89 COLORADO STATE 3,149,879 37 MIAMI 4,644,807 92 TULANE 3,095,770 38 UTAH 4,603,055 91 COLORADO STATE 3,149,879 44 WASHINGTON UST. LOUIS 4,455,653 99 YORK 2,908,600 44 WASHINGTON UST. LOUIS 4,455,653 99 YORK 2,296,600 45 WASHINGTON UST. LOUIS 4,456,553 99 YORK 2,296,600 45 WASHINGTON UST. LOUIS 4,456,553 99 YORK 2,296,600 46 WASHINGTON UST. LOUIS 4,456,553 99 YORK 2,296,600 47 WASHINGTON UST. LOUIS 4,456,553 99 YORK 2,296,600 48 WASHINGTON UST. LOUIS 4,456,553 99 YORK 2,296,600 49 LOWA STATE 4,222,523 106 LAVAL 2,295,900 50 VINCHINGTERN 4,105,885 107 SUNY-ALBANY 2,280,600 49 LOWA STATE 4,232,523 106 LAVAL 2,295,900 50 VINCHINGTON UST. LOUIS 4		MINNESOTA				3,733,159
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RANK ORDER TABLE 14 TOTALS ITEMS LOANED (ILL/DD)

RANK	Institution	VALUE	RANK	Institution	VALUE
1	MINNESOTA	232,976		JOHNS HOPKINS	26,837
2	OHIO STATE	116,269		HOUSTON	26,540
3	WISCONSIN	94,156		CALIFORNIA, IRVINE	26,523
_	WASHINGTON	92,500		WASHINGTON STATE	26,465
5	ALBERTA	78,699		ROCHESTER	26,142
	CALIFORNIA, LOS ANGELES	70,294		NEW MEXICO	25,786
	ILLINOIS, CHICAGO	68,815		GEORGE WASHINGTON	25,212
,	TEXAS A&M	67,468		VIRGINIA TECH	24,914
	MICHIGAN	64,159		TORONTO	24,625
9 10	OHIO	63,395		LAVAL	24,448
11	CASE WESTERN RESERVE	59,139	66	MANITOBA	24,232
	ILLINOIS, URBANA	57,961		YALE	24,065
	DUKE	56,748		MCMASTER	23,911
	CONNECTICUT	56,097		HAWAII	23,882
	CINCINNATI	54,511		IOWA STATE	23,693
		E4.000	5 1	CITEI DLI	23,086
10	MCCOLIBI	52.095	71	PENNISVI VANIJA	22,875
1/	MISSOURI	53,763 53 774	72	VENIT STATE	22,029
18	INDIANA	33,776 48.750	73	PENNSYLVANIA KENT STATE WESTERN ONTARIO	21,631
19_ 20	IOWA MISSOURI INDIANA _COLORADO_ NORTH CAROLINA	46,/39	 75	NOTRE DAME	
				VANDERBILT	20,616
21	OREGON	46,826		MIT	20,301
	CALIFORNIA, BERKELEY	46,415 45,292		PURDUE	20,251
	FLORIDA	45,292		MARYLAND	19,444
	PENNSYLVANIA STATE	45,155		TENNESSEE	18,766
	KANSAS	44,340		NEBRASKA	18,439
26	WAYNE STATE	44,133			17,731
27	VIRGINIA	43,510		SOUTH CAROLINA	17,729
28	CHICAGO	43,484		NORTH CAROLINA STATE	17,729
29 30	PITTSBURGH TEXAS TECH	41,858 40,560		AUBURN TULANE	17,436
			07	DELAMADE	17,084
31	EMORY	40,362		DELAWARE	•
	CALIFORNIA, DAVIS	39,673		CALIFORNIA, SANTA BARBARA	16,184
	CORNELL	39,481		MCGILL	
	TEXAS	38,576		RUTGERS	15,632
35	BRITISH COLUMBIA	38,395		SYRACUSE	14,933
	HARVARD	38,272		YORK	14,921
37	SUNY-BUFFALO	37,537		STANFORD	14,663
	GEORGIA	37,207		GEORGETOWN	14,371
	CALIFORNIA, SAN DIEGO	36 <i>,</i> 587	94	CALIFORNIA, RIVERSIDE	14,306
40	MIAMI	36,495	95	DARTMOUTH	14,265
	UTAH	35,908		SASKATCHEWAN	14,214
	MICHIGAN STATE	35,595		BOSTON	13,953
43	COLUMBIA	34,143		BROWN	13,794
44	SUNY-STONY BROOK	33,826		LOUISIANA STATE	13,424
45	NORTHWESTERN	33,439		QUEEN'S	13,152
46	KENTUCKY	33,383	101	SOUTHERN CALIFORNIA	13,150
47	FLORIDA STATE	32 <i>,</i> 931	102	MASSACHUSETTS	12,577
48	ARIZONA STATE	32,868	103	SUNY-ALBANY	12,485
49	ARIZONA	32,476	104	GEORGIA TECH	11,844
50	SOUTHERN ILLINOIS	31,103	105	TEMPLE	11,623
51	BRIGHAM YOUNG	29,113	106	PRINCETON	10,888
52	WASHINGTON UST. LOUIS	27,538	107	WATERLOO	10,863
53	OKLAHOMA STATE	27,386	108	ALABAMA	9,989
	OKLAHOMA	27,251	109	HOWARD	9,954
55	NEW YORK	26,918		RICE	9,297
- 0		,	111	COLORADO STATE	0



RANK ORDER TABLE 15 TOTALS ITEMS BORROWED (ILL/DD)

2 COLORADO STATE 69,398 57 ROCHESTER 19,652 3 GUELPH 59,332 58 MARYLAND 18,842 4 ILLINOIS, URBANA 55,245 59 BOSTON 18,890 5 OHIO 5 OHIO 6 CINCINNATI 48,054 61 BRIGHAM YOUNG 18,870 6 CINCINNATI 48,054 61 BRIGHAM YOUNG 18,270 7 GEORGE WASHINGTON 47,500 62 CALEFORNIA, SANTA BARBARA 18,780 7 TOTOL CASE WESTERN RESERVE 40,925 65 CALEFORNIA, SANTA BARBARA 18,780 10 LILINOIS, CHICAGO 39,486 65 LOUBLANY 18,227 11 PENNSYLVANIA 37,697 66 CALIFORNIA, RIVERSIDE 18,109 12 ALBERTA 35,526 67 MANITOBA 17,761 13 CONNECTICUT 33,599 68 SASKATCHEWAN 17,784 14 PENNSYLVANIA 5TATE 33,034 69 EMORY 17,507 15 ORGON 32,494 70 MINNESOTA 17,433 16 WISCONSIN 32,014 71 WASHINGTON 17,790 17 ARIZONA 31,273 72 YALE 16,531 18 BRITISH COLUMBIA 30,267 72 COLORADO 16,581 19 ROTHWESTERN 29,615 74 MIAMI 16,581 20 INDIANA 29,125 73 UTAH 16,581 21 KENT STATE 28,949 76 IOWA STATE 16,414 22 MICHIGAN 28,613 77 DELAWARE 15,494 23 VIRGINIA 28,572 78 MAYNE STATE 15,494 24 TEAS A&M 27,873 79 SUNY-BUFFALO 15,494 25 HARVARD 26,797 80 HOUSTON 15,492 26 KENTUCKY 25,690 81 DARTMOUTH 15,463 27 TELAS A&M 27,473 89 FUNY-BUFFALO 15,494 28 TENNESSEE 25,506 81 DARTMOUTH 15,463 29 TENNESSEE 25,506 81 DARTMOUTH 15,463 31 CONTERNIA, SAN DIEGO 24,777 80 HOUSTON 15,492 32 TENNESSEE 25,506 81 DARTMOUTH 15,463 33 SOUTHERNIA, SAN DIEGO 24,777 80 HOUSTON 15,492 34 KANSAS 23,303 89 SUNY-BUFFALO 15,311 35 OUTHERNIA, SAN DIEGO 24,777 80 HOUSTON 15,492 36 KENTUCKY 25,690 81 DARTMOUTH 15,463 37 OLL-HOMA STATE 24,399 87 LAVAL 13,403 38 OUTHERN TILLINOIS 24,361 89 SUNY-STONY BROOK 12,401 39 CALIFORNIA, SAN DIEGO 25,777 80 HOUSTON 15,492 40 KENTUCKY 25,600 81 DARTMOUTH 15,463 41 KENTUCKY 25,600 81 DARTMOUTH 15,463 41 KENTUCKY 25,600 81 DARTMOUTH 15,463 42 TENNESSEE 25,506 83 DUKE 25,501 80 DU	RANK	Institution	VALUE	Rank	Institution	VALUE
2 COLORADO STATE 69,398 57 ROCHESTER 19,652 3 GUELPH 59,332 58 MARYLAND 18,842 4 ILLINOIS, URBANA 55,245 59 BOSTON 18,890 5 OHIO 5 OHIO 6 CINCINNATI 48,054 61 BRIGHAM YOUNG 18,767 6 CINCINNATI 48,054 61 BRIGHAM YOUNG 18,767 7 GEORGE WASHINGTON 47,500 62 CALEFORNIA, SANTA BARBARA 18,767 9 CAGE WESTERN RESERVE 40,925 64 COLUBANY 18,237 10 LILINOIS, CHICAGO 39,486 65 LOUBANY 18,237 11 PENNSYLVANIA 37,697 66 CALIFORNIA, RIVERSIDE 18,109 12 ALBERTA 35,526 67 MANITOBA 17,761 13 CONNECTICUT 33,799 68 SASKATCHEWAN 17,784 14 PENNSYLVANIA STATE 33,034 69 EMORY 17,7507 15 ORGCON 32,494 70 MINNESOTA 17,433 16 WISCONSIN 32,014 71 WASHINGTON 17,7507 17 ARIZONA 31,273 72 YALE 16,531 18 BRITISH COLUMBIA 31,273 72 YALE 16,531 19 NORTHWESTERN 29,615 72 WIAH 16,618 20 INDIANA 29,125 73 WIAH 16,618 21 KENT STATE 28,949 76 IOWA STATE 16,618 22 MICHIGAN 28,613 77 DELAWARE 15,840 23 VIRGINIA 28,572 78 WAYNE STATE 15,840 24 TEXAS A&M 27,873 79 SUNY-BUFFALO 15,439 25 HARVARD 26,797 80 HOUSTON 15,492 26 KENTUCKY 25,690 81 DARTMOUTH 15,631 27 STATEM 24,399 87 INDIANA 11,241 28 TENNESSEE 25,506 83 DUKE 15,411 29 TEXAS A&M 27,473 79 SUNY-BUFFALO 15,439 20 TALKHOMA 24,746 86 NORTH CAROLINA STATE 16,414 21 KENT STATE 24,399 87 INDIANA 11,243 22 RICHIGAN 24,746 86 NORTH CAROLINA STATE 15,440 23 VIRGINIA 28,572 78 NOYN-BUFFALO 15,439 24 RICHIGAN 24,746 86 NORTH CAROLINA STATE 15,440 25 HARVARD 26,579 80 HOUSTON 15,492 26 KENTUCKY 25,690 81 DARTMOUTH 15,63 27 STATEM 24,399 87 LAVAL 13,403 28 TENNESSEE 25,506 83 DUKE 11,240 29 TEXAS A&M 27,267 30 CALIFORNIA, SAN DIEGO 25,777 80 HOUSTON 15,492 31 KENTONIA, SAN DIEGO 32,777 80 HOUSTON 15,492 31 KENTONIA, SAN DIEGO 32,777 80 HOUSTON 15,492 31 KENTONIA, SAN DIEGO 32,777 80 HOUSTON 15,492 32 RICHIGAN 24,746 86 NORTH CAROLINA STATE 14,699 33 CALIFORNIA, SAN DIEGO 32,511 81 NORTH CAROLINA STATE 14,699 34 RICHIGAN 24,746 89 SUNY-BUFFALO 11,291 35 OUTHERN ILLINOIS 22,568 97 SOUTHERN CALIFORNIA 11,291 36 OKLAHOMA 5TATE 24,452 37 PALE STATE 25,452 38 PARICETON 20,000 107 RICE 27,690 39 MICHIGAN 11,294 30 C			85,866	56	PURDUE	19,309
3 GUELPH 59,332 58 MARYLAND 18,494 11,110NIS, URBANA 52,245 59 BOSTON 18,496 50 OHIO 53,227 60 MISSOURI 18,776 60 INCININATI 48,054 61 BRICHAM YOUNG 18,767 62 GORGE WASHINGTON 47,500 62 CALIFORNIA, SANTA BARBARA 18,786 78 EASA STECH 42,407 63 SUNY-ALBANY 18,234 79 CASE WESTERN RESERVE 40,925 64 COLUMBIA 18,277 18,278 19,	2	COLORADO STATE	69,398	57	ROCHESTER	19,053
4 ILLINOIS, URBANA 55,245 59 BOSTON 18,899 6 FOR NISSOURI 18,878 6 CINCINNATI 48,054 61 BRIGHAM YOUNG 18,275 69 MISSOURI 18,776 6 CINCINNATI 48,054 61 BRIGHAM YOUNG 18,276 7 GEORGE WASHINGTON 47,500 62 CALLFORNIA, SANTA BARBARA 18,789 8 TEXAS TECH 42,407 63 SUNY-ALBANY 18,334 18,327 10 ILLINOIS, CHICAGO 39,486 65 FLORIDA STATE 18,220 11 ILLINOIS, CHICAGO 30,486 65 FLORIDA STATE 18,220 11 ILLINOIS 18,220 11 ILLINOIS 18,220 11 ILLINOIS 18,220 11 ILLINOIS 12,311 ILLINOIS 18,220 11 ILLINOIS 18,245 11 ILLINOIS 18,24				58	MARYLAND	18,942
5 OHIO	4	ILLINOIS, URBANA	55,245	59	BOSTON	18,890
6 CINCINNATI 48,054 61 BRIGHAM YOUNG 18,876 7 GEORGE WASHINGTON 47,500 62 CALIFORNIA, SANTA BARBARA 18,789 8 TEXAS TECH 42,407 63 SUNY-ALBANY 18,334 9 CASE WESTERN RESERVE 40,925 64 COLUMBIA 18,327 10 ILLINOIS, CHICAGO 39,486 65 FLORIDA STATE 18,229 11 PENNSYLVANIA 37,697 66 CALIFORNIA, RIVERSIDE 18,109 12 ALBERTA 35,526 67 MANITOBA 17,961 13 CONNECTUUT 33,599 68 SASKATCHEWAN 17,861 14 ERNON 11 STATE 33,074 69 EMORY 17,976 15 CONNECTUUT 33,094 69 EMORY 17,976 16 WISCONSIN 32,014 79 WASHINGTON 17,797 17 ARIZONA 31,227 72 18 BRITISH COLUMBIA 30,267 73 COLORADO 16,593 19 NORTHWESTERN 29,615 74 MIAMI 16,818 20 INDIANA 29,126 75 UTAH 16,818 21 KENT STATE 28,949 76 IOWA STATE 16,418 22 MICHIGAN 28,613 77 DELAWARE 15,447 23 VIRGINIA 28,572 78 WAYNE STATE 15,809 24 TEXAS A&M 27,873 79 SUNY-BUFFALO 15,549 25 HARVARD 26,797 80 HOUSTON 15,492 26 KENTUCKY 25,690 81 DARTMOUTH 15,463 27 OKLAHOMA 25,636 82 PITTISBURCH 13,311 28 TERNESSEE 25,566 83 DUKE 14,457 29 TEXAS 32,311 20 SOUTH CAROLINA 24,746 80 NORTH CAROLINA STATE 14,467 21 REINESSEE 24,360 89 SUNY-LEPTALO 13,439 23 CALIFORNIA, SAN DIECO 24,777 85 NORTH CAROLINA STATE 14,467 24 MANSA 24,264 86 NORTH CAROLINA STATE 14,467 26 KENTUCKY 25,690 81 DARTMOUTH 15,463 27 OKLAHOMA 25,636 82 PITTISBURCH 13,311 28 TERNESSEE 25,566 82 PITTISBURCH 13,311 29 OUTH CAROLINA 24,746 80 NORTH CAROLINA STATE 14,467 29 TEXAS 32,330 89 SUNY-STONY BROOK 12,201 31 SOUTH CAROLINA 24,266 96 TULIANE 11,351 32 OUTH CAROLINA 24,266 96 TULIANE 11,361 33 OUTHERN ILLINOIS 24,361 89 SUNY-STONY BROOK 11,243 34 CALIFORNIA, BERKELEY 23,004 99 FOUTH CAROLINA 11,241 34 PARCHON 24,257 99 NOTRE DAM 11,251 35 PERMANSA 22,259 99 NOTRE DAM 11,267 36 CALIFORNIA, BERKELEY 23,004 99 GEORGIA 11,465 37 CALIFORNIA, BERKELEY 23,004 99 GEORGIA 11,465 38 TEXAS AS A			53,227			18,878
7 GEORGE WASHINGTON 47,500 62 CALIFORNIA, SANTA BARBARA 18,789 8 TEXAS TECH 42,407 63 SUNY-ALBANY 18,334 9 CASE WESTERN RESERVE 40,925 64 COLUMBIA 18,327 10 ILLINOIS, CHICAGO 39,486 65 FLORIDA STATE 18,229 11 PENNSYLVANIA 37,697 66 CALIFORNIA, RIVERSIDE 18,109 12 ALBERTA 35,526 67 MANITOBA 17,961 13 CONNECTICUT 33,999 68 SASKATCHEWAN 17,884 14 PENNSYLVANIA STATE 33,034 69 BMORY 17,803 15 OREGON 32,494 70 MINNESOTA 17,433 16 WISCONSIN 31,273 27 YALE 16,931 17 RAZIONA 31,273 27 YALE 16,931 18 BRITISH COLUMBIA 30,267 73 COLORADO 16,831 19 NORTHWESTERN	6		48.054			18,876
8 TEXAS TECH 42,407 63 SUNY-ALBANY 18,337 9 CASE WESTERN RESERVE 40,925 64 COLUMBIA 18,327 10 ILLINOIS, CHICAGO 39,486 65 FLORIDA STATE 18,229 11 PENNSYLVANIA 37,697 66 CALIFORNIA, RIVERSIDE 18,100 12 ALBERTA 35,526 67 MANITOBA 17,961 13 CONNECTICUT 33,599 68 SASKATCHEWAN 17,884 14 PENNSYLVANIA STATE 33,034 69 EMORY 17,507 15 OREGON 32,494 70 MINNESOTA 17,433 16 WISCONSIN 32,014 71 WASHINGTON 17,130 17 ARIZONA 31,273 72 YALE 16,931 18 BRITISH COLUMBIA 30,267 73 COLORADO 16,884 19 NORTHWESTERN 29,615 74 MIAMI 16,818 20 INDIANA 29,126 75 UTAH 16,814 1			47,500			18,789
9 CASE WESTERN RESERVE 40,925 64 COLUMBIA 18,327 10 ILLINOSIS, CHICAGO 39,486 65 FLORIDA STATE 18,229 11 PENNSYLVANIA 37,697 66 CALIFORNIA, RIVERSIDE 18,109 12 ALBERTA 35,526 67 MANITOBA 17,961 13 CONNECTICUT 33,999 68 SASKATCHEWAN 17,884 14 PENNSYLVANIA STATE 33,034 69 EMORY 17,500 15 OREGON 32,494 70 MINNESOTA 17,433 16 WISCONSIN 32,014 71 WASHINGTON 17,100 17 ARIZONA 31,273 72 YALE 16,331 18 BRITISH COLUMBIA 30,267 73 COLORADO 16,684 19 NORTHWESTERN 29,515 74 MIAMI 16,818 20 INDIANA 29,126 75 UTAH 16,818 21 KENT STATE 28,949 76 IOWA STATE 16,416 22 MICHIGAN 28,613 77 DELAWARE 15,461 23 VIRGINIA 28,572 78 WAYNE STATE 15,402 24 VIRGINIA 28,572 78 WAYNE STATE 15,403 25 HARVARD 26,797 80 HOUSTON 15,492 26 KENTUCKY 25,690 81 DARTMOUTH 15,463 27 OKLAHOMA 25,536 82 PITTSBURGH 13,311 28 TENNESSEE 25,506 83 DUKE 14,533 29 TEXAS AND DIEGO 24,777 85 NEBRASKA 14,287 31 SOUTH CAROLINA 24,746 8 NORTH CAROLINA STATE 14,609 30 CALIFORNIA, SAN DIEGO 24,777 85 NEBRASKA 14,287 31 SOUTH CAROLINA 24,746 8 NORTH CAROLINA 14,023 32 ARIZONA STATE 24,399 87 LAVAL 13,403 33 SOUTHERN ILLINOIS 24,361 88 MCMASTER 13,403 34 KANSAS 25,311 84 NORTH CAROLINA 14,023 35 NEW MEXICO 22,507 90 HAWAII 12,441 36 OKLAHOMA STATE 24,399 87 LAVAL 13,403 36 CALIFORNIA, IRVINE 24,452 91 STANFORD 12,433 37 CALIFORNIA, IRVINE 24,452 91 STANFORD 12,434 38 CALIFORNIA, IRVINE 24,452 91 STANFORD 12,434 39 CALIFORNIA, IRVINE 23,448 92 SYRACUSE 12,407 31 CALIFORNIA, EREKELEY 25,500 87 SOUTHERN CALIFORNIA 11,251 31 CALIFORN			42,407			18,334
10 ILLINOIS, CHICAGO 39,486 65 FLORIDA STATE 18,229 11 PENNSYLVANIA 37,697 66 CALIFORNIA, RIVERSIDE 18,109 12 ALBERTA 35,526 67 MANITIOBA 17,961 13 CONNECTICUT 33,999 68 SASKATCHEWAN 17,884 14 PENNSYLVANIA STATE 33,094 69 EMORY 17,507 15 OREGON 32,494 70 MINNESOTA 17,433 16 WISCONSIN 30,014 71 WASHINGTON 17,190 17 ARIZONA 31,273 72 YALE 16,931 18 RRITISH COLUMBIA 30,267 73 COLORADO 16,858 19 NORTHWESTERN 29,615 74 MIAMI 16,818 20 INDIANA 29,126 75 UTAH 16,818 21 KENT STATE 28,949 76 IOWA STATE 16,416 22 MICHIGAN 28,613 77 DELAWARE 15,847 23 VIRGINIA 28,572 78 WAYNE STATE 15,849 24 TEXAS ARM 27,873 79 SUNY-BUFFALO 13,499 25 HARVARD 26,977 80 HOUSTON 13,492 26 KENTUCKY 25,690 81 DARTMOUTH 15,463 27 OKLAHOMA 25,636 82 PITISBURGH 13,311 28 TENNESSEE 25,506 83 DUKE 14,657 29 TEXAS ARI 24,349 86 MORTH CAROLINA STATE 14,697 31 SOUTH CAROLINA 24,746 80 NORTH CAROLINA STATE 14,697 32 ARIZONA STATE 24,399 81 DARTMOUTH 13,463 33 SOUTH CAROLINA 24,746 80 NORTH CAROLINA 14,023 34 ARIZONA STATE 24,399 81 MARTMOUTH 12,438 35 OKLAHOMA STATE 24,399 91 STANFORD 12,433 36 OKLAHOMA STATE 23,452 91 STANFORD 12,433 37 CALIFORNIA, LOS ANGELES 23,100 91 STANFORD 12,434 40 CALIFORNIA, BERKELEY 23,004 95 GEORGIA 11,656 41 IOWA 22,626 96 TULANE 11,167 45 MCGILL 22,594 100 ALABAMA 10,244 46 FLORIDA 22,224 101 TORONTO 10,095 47 NEW YORK 22,911 102 VANDERBILT 9,909 48 ROOWN 1,704 103 QUEEN'S 9,898 49 CHICAGO 21,010 104 AUBURN 9,498 40 CALIFORNIA, DAVIS 20,228 106 MASSACHUSETTS 9,223 50 PRINCETON 20,404 107 RICE 7,690 50 LOUISMAN STATE 19,90			40.925			18,327
12 ALBERTA 35,526 67 MANITOBA 17,961 13 CONNECTICUT 33,999 68 SASKATCHEWAN 17,884 14 PENNSYLVANIA STATE 33,034 69 EMORY 17,507 15 OREGON 32,494 70 MINNESOTA 17,433 16 WISCONSIN 32,014 71 WASHINGTON 17,190 17 ARIZONA 31,273 72 YALE 16,931 18 BRITISH COLUMBIA 30,267 73 COLORADO 16,854 19 NORTHWESTERN 29,615 74 MIAMI 16,818 20 INDIANA 29,126 75 UTAH 16,814 21 KENT STATE 28,949 76 IOWA STATE 16,416 22 MICHIGAN 28,613 77 DELAWARE 15,847 23 VIRGINIA 28,572 78 WAYNE STATE 15,808 24 TEXAS A&M 27,873 79 SUNY-BUFFALO 15,499 25 HARVARD 26,797 80 HOUSTON 15,492 26 KENTUCKY 25,690 81 DARTMOUTH 15,463 27 OKLAHOMA 25,636 82 PITTSBURGH 15,311 28 TEINNESSEE 25,506 83 DUKE 14,659 29 TEXAS 25,311 84 NORTH CAROLINA STATE 14,609 30 CALIFORNIA, SAN DIEGO 24,777 85 NEBRASKA 13,387 31 SOUTH CAROLINA 24,746 86 NORTH CAROLINA STATE 14,609 32 ARIZONA STATE 24,399 87 LAVAL 13,403 33 SOUTHERN ILLINOIS 24,361 88 MCMASTER 13,602 34 KANSAS 23,630 89 SUNY-STONY BROOK 12,801 35 NORTH MEMORY 24,448 92 SYRACUSE 12,407 36 CALIFORNIA, LOS ANGELES 23,160 94 MIT 12,448 40 CALIFORNIA, LOS ANGELES 23,160 94 MIT 12,148 41 OWA 22,626 96 TULANE 11,351 42 WASHINGTON U. ST. LOUIS 22,578 97 SOUTHERN ICALIFORNIA 10,224 43 VIRGINIA TECH 22,574 98 TEMPLE 11,218 44 OCHIFORNIA, LOS ANGELES 23,160 94 MIT 12,148 45 MCGILL 22,504 100 ALABAMA 10,204 46 FLORIDA 22,224 101 TORONTO 10,005 47 NEW YORK 22,031 102 VANDERBILT 9,909 48 BROWN 21,704 103 QUEEN'S 9,888 49 CHICAGO 21,010 104 AUBURN 9,488 40 CHICAGO 21,010 104 AUBURN 9,488 40 CHICAGO 21,010 104 AUBURN 9,488		ILLINOIS, CHICAGO				18,229
12 ALBERTA 35,526 67 MANITOBA 17,961 13 CONNECTICUT 33,999 68 SASKATCHEWAN 17,884 14 PENNSYLVANIA STATE 33,034 69 EMORY 17,507 15 OREGON 32,044 71 MASHINGTON 17,190 16 WISCONSIN 32,014 71 WASHINGTON 17,190 17 ARIZONA 31,273 72 YALE 16,931 18 BRITISH COLUMBIA 30,267 73 COLORADO 18,854 19 NORTHWESTERN 29,615 74 MIAMI 16,818 20 INDIANA 29,126 75 UTAH 16,814 21 KENT STATE 28,949 76 IOWA STATE 16,416 22 MICHIGAN 28,613 77 DELAWARE 15,808 23 VIRCINIA 28,572 78 WAYNE STATE 15,808 24 TEXAS A&M 27,873 79 SUNY-BUFFALO 15,499 25 HARVARD 26,797 80 HOUSTON 15,492 26 KENTUCKY 25,690 81 DARTMOUTH 15,463 27 OKLAHOMA 25,636 82 PITTSBURGH 15,311 28 TENNESSEE 25,506 83 DUKE 16,501 29 TEXAS 25,311 84 NORTH CAROLINA STATE 14,609 30 CALIFORNIA, SAN DIEGO 24,777 85 NEBRASKA 13,387 31 SOUTH CAROLINA 24,746 86 NORTH CAROLINA STATE 14,609 32 ARIZONA STATE 24,399 87 LAVAL 13,403 33 SOUTHERN ILLINOIS 24,361 88 MCMASTER 13,602 34 KANSAS 23,630 89 SUNY-STONY BROOK 12,801 35 NEW MEXICO 25,507 90 HAWAII 12,641 36 CALIFORNIA, LOS ANGELES 23,160 94 MIT 12,148 40 CALIFORNIA, LOS ANGELES 23,160 94 MIT 12,148 41 OWA 24,64 96 FULANE 11,256 42 WASHINGTON UST. LOUIS 22,578 97 SOUTHERN ILLINOIS 12,453 43 VIRGINIA TECH 22,574 98 TEMPLE 11,216 44 JOHNS HOPKINS 22,529 99 NOTRE DAME 11,167 45 MCGILL 22,504 100 ALABAMA 10,204 46 FLORIDA 24,746 96 FULANE 11,167 47 MCGILL 22,574 98 TEMPLE 11,216 48 MCMATTATE 20,770 105 GEORGIA 11,266 49 ORDITAR STATE 20,770 105 GEORGIA 11,266 40 CALIFORNIA, BERKELEY 20,004 97 GEORGIA 11,266 41 IOWA 24,266 96 TULANE 1	11	PENNSYLVANIA	37,697	66	CALIFORNIA, RIVERSIDE	18,109
13 CONNECTICUT 33,999	12	ALBERTA				
14 PENNSYLVANIA STATE 33,034 69 EMORY 17,507 15 ORGCON 32,494 70 MINNESOTA 17,433 16 WISCONSIN 32,014 71 WASHINGTON 17,190 17 ARIZONA 31,273 72 YALE 16,931 18 BRITISH COLUMBIA 30,267 73 COLORADO 16,854 19 NORTHWESTERN 29,4615 74 MIAMI 16,818 18 16,818 19 NORTHWESTERN 29,4615 74 MIAMI 16,818 16,818 17 MIAMI 16,818 17 MIAMI 16,818 17 MIAMI 16,818 18 MIAMI	13	CONNECTICUT	33,599	68	SASKATCHEWAN	
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RANK ORDER TABLE 16 PROFESSIONAL STAFF (FTE)

RANK	Institution	VALUE	RANK	Institution	VALUE
1	HARVARD	451		ILLINOIS, CHICAGO	73
2	STANFORD	245	57		72
3	YALE	217	57	TEMPLE	72
4	CALIFORNIA, BERKELEY	191		GEORGE WASHINGTON	70
5	TORONTO	170		CALIFORNIA, SAN DIEGO	69
5	WISCONSIN	170		CHICAGO	69
7	COLUMBIA	168		CASE WESTERN RESERVE	68
	ILLINOIS, URBANA	162	63	TENNESSEE	67
9	MICHIGAN	150		MCGILL	63
10	INDIANA	142	64	MICHIGAN STATE	63
10	TEXAS .	142	66	ALBERTA	62
	CALIFORNIA, LOS ANGELES	140	67		61
	WASHINGTON	136		PURDUE	61
_	PENNSYLVANIA STATE	133		NEW MEXICO	60
	NORTH CAROLINA	125		OHIO	60
_	OHIO STATE	122		LOUISIANA STATE	59
	DUKE	121		CALIFORNIA, DAVIS	58
	PENNSYLVANIA	117		FLORIDA STATE	58
19		116		OKLAHOMA STATE	58
	CORNELL NORTHWESTERN	- 114		HOUSTON	57
21	KENTUCKY	113	76	ALABAMA	56
		113		COLORADO	56
	PRINCETON	111		HAWAII	56
	MINNESOTA	110		LAVAL	56
	FLORIDA			MISSOURI	56
	TEXAS A&M	110 108		SYRACUSE	56
	MARYLAND				55
	SUNY-BUFFALO	108		DELAWARE	55
	NEW YORK	107		MASSACHUSETTS	54
28 28	NORTH CAROLINA STATE RUTGERS	107 107	84 84	MANITOBA OREGON	54
20	COLUMN CALIFORNIA	107	84	TULANE	54
28	SOUTHERN CALIFORNIA	107	87		53
	BRIGHAM YOUNG	105	87 87	RICE	53
33	BRITISH COLUMBIA				52
	PITTSBURGH	103	89		52 52
35	ARIZONA STATE	102	89		52
	EMORY	98		SUNY-ALBANY	51
	JOHNS HOPKINS	98		YORK	
	KANSAS	97		HOWARD	50
38 40	VIRGINIA WASHINGTON UST. LOUIS	97 96	93 93	NOTRE DAME WASHINGTON STATE	50 50
_					
	ARIZONA	93		OKLAHOMA	49
	IOWA	91		GEORGIA TECH	48
43	WAYNE STATE	90		WESTERN ONTARIO	47
44	VANDERBILT	89	99	SOUTHERN ILLINOIS	46
45	GEORGIA	86		AUBURN	45
45	MIT	86		IOWA STATE	45
47	CONNECTICUT	83		SUNY-STONY BROOK	45
48	CINCINNATI	82		CALIFORNIA, SANTA BARBARA	42
	KENT STATE	79	104	COLORADO STATE	41
	ROCHESTER	78	104		41
50	SOUTH CAROLINA	78	106	QUEEN'S	40
	BROWN	77		WATERLOO	38
	TEXAS TECH	77		CALIFORNIA, RIVERSIDE	37
	UTAH	77		VIRGINIA TECH	36
	GEORGETOWN	76		MCMASTER	33
55	GLONGLIOTTI	, 0		GUELPH	26



RANK ORDER TABLE 17 SUPPORT STAFF (FTE)

RANK	Institution	VALUE	Rank	Institution	VALUE
1	HARVARD	589		NORTH CAROLINA STATE	132
2	PENNSYLVANIA STATE	351		FLORIDA STATE	129
3	TEXAS	350		IOWA	128
4	YALE	345		SOUTH CAROLINA	128
5	TORONTO	340	58	GEORGETOWN	128
6	MICHIGAN	311		COLORADO	123
7	STANFORD	306		OUEEN'S	122
8	CORNELL	288		MARYLAND	121
9	CALIFORNIA, LOS ANGELES	274			121
10	COLUMBIA	253	65		120
11	RUTGERS	241	66	NEBRASKA	119
12	ILLINOIS, URBANA	238	67	MIAMI	115
13	CALIFORNIA, BERKELEY	237	67	CALIFORNIA, IRVINE	115
	NEW YORK	234		DELAWARE	113
15	WASHINGTON	226	69	CALIFORNIA, SANTA BARBARA	113
15	BRITISH COLUMBIA	226		WAYNE STATE	112
17	ARIZONA STATE	213	72	CINCINNATI	111
	PRINCETON	209	72	SASKATCHEWAN	111
19	FLORIDA	208		DARTMOUTH	110
19	ALBERTA	208	75	KANSAS	109
	GEORGIA	206	<i>7</i> 5	MICHIGAN STATE	109
	VIRGINIA	201	<i>7</i> 7		108
	NORTH CAROLINA	200		MCMASTER	108
	INDIANA	197		MIT	106
	MINNESOTA	196		TEMPLE	105
	WISCONSIN	195	80	WASHINGTON STATE	105
27	TEXAS A&M	187		WATERLOO ·	104
	JOHNS HOPKINS	187		BROWN	99
29	UTAH	185	84	VIRGINIA TECH	98
39	NEW MEXICO	185	85	TEXAS TECH	96
	OHIO STATE	183		SOUTHERN ILLINOIS	96
	PITTSBURGH	180		GUELPH	95
33	PENNSYLVANIA	178	88	CONNECTICUT	93
	CHICAGO	176		OREGON	92
	CALIFORNIA, SAN DIEGO	174		TULANE	90
	DUKE	171		SUNY-ALBANY	90
37	ARIZONA	168		LOUISIANA STATE	88
	CALIFORNIA, DAVIS	167		HOUSTON	88
39	EMORY	163		HAWAII	· 87
40	ILLINOIS, CHICAGO	160	94	MASSACHUSETTS	87
	NOTRE DAME	160		COLORADO STATE	87
42	MCGILL	157		HOWARD	85
	LAVAL	157		OKLAHOMA STATE	83
	SOUTHERN CALIFORNIA	151	98	CALIFORNIA, RIVERSIDE	83
	PURDUE CEORCE MASHINICTON	150		OKLAHOMA	80
	GEORGE WASHINGTON	144		ROCHESTER	79
47 47	NORTHWESTERN	140		OHIO	78 70
47	SYRACUSE MANITOBA	140		ALABAMA	78
50	WASHINGTON UST. LOUIS	138 137		SUNY-STONY BROOK SUNY-BUFFALO	75 73
51	TENNESSEE	136	105	AUBURN	70
	MISSOURI	136		KENT STATE	73 66
	WESTERN ONTARIO	136		CASE WESTERN RESERVE	
_	VANDERBILT	135		RICE	66 62
	BOSTON	133		GEORGIA TECH	58
<i>55</i> BO		100	111	BRIGHAM YOUNG	52



ARL STATISTICS 1998-99

RANK ORDER TABLE 18 TOTAL STAFF (FTE)

RANK	Institution	VALUE	Rank	Institution	VALUE
1	HARVARD	1,204	56	MCGILL	269
2	STANFORD	669	56	TEXAS TECH	269
3	TORONTO	637	58	PURDUE	265
4	YALE	628		SUNY-BUFFALO	264
5	CALIFORNIA, LOS ANGELES	617		GEORGE WASHINGTON	261
6	CALIFORNIA, BERKELEY	603		GEORGETOWN	260
7	MICHIGAN	602		SYRACUSE	255
8	PENNSYLVANIA STATE	576		CONNECTICUT	251
9	CORNELL	567	64		248
10	TEXAS	564		FLORIDA STATE	247
11	WISCONSIN	538	66	CALIFORNIA, IRVINE	244
12	COLUMBIA	515		COLORADO	242
13	ILLINOIS, URBANA	514	68	NOTRE DAME	241
14	WASHINGTON	495	69	MISSOURI	239
15	INDIANA	473		BROWN	230
16	RUTGERS	452	70	SOUTHERN ILLINOIS	230
17	NEW YORK	441		KENT STATE	229
18	OHIO STATE	439		TEMPLE	226
19	MINNESOTA	427		MIAMI	222
	-NORTH-CAROLINA	421		YORK	220
21	TEXAS A&M	412	75	CALIFORNIA, SANTA BARBARA	220
	FLORIDA	410		OREGON	220
23	PENNSYLVANIA	394		LAVAL	216
	KENTUCKY	392		NEBRASKA	216
25	BRITISH COLUMBIA	388		DELAWARE	216
	PRINCETON	387		MIT	216
27	UTAH	378		HAWAII	216
28	PITTSBURGH	373		IOWA STATE	215
29	ARIZONA STATE	363		MANITOBA	212
30	SOUTHERN CALIFORNIA	362	85	OKLAHOMA STATE	209
31	VIRGINIA	361	86	ROCHESTER	208
	GEORGIA	358	87		206
33	ARIZONA	354		LOUISIANA STATE	203
33	NORTHWESTERN	354		WASHINGTON STATE	200
35	DUKE	348		WESTERN ONTARIO	198
36	NEW MEXICO	338		VIRGINIA TECH	196
36	MARYLAND	338		DARTMOUTH	192
	JOHNS HOPKINS	337		MASSACHUSETTS	192
39	ALBERTA	328		OKLAHOMA	192
40	CHICAGO	325	95	HOUSTON	188
41	BOSTON	323	96	QUEEN'S	186
	BRIGHAM YOUNG	319		ALABAMA	185
43		316		SUNY-ALBANY	183
43	NORTH CAROLINA STATE	316		TULANE	
45	EMORY	311			182
		304		COLORADO STATE	178
46 47	MICHIGAN STATE	304 299		HOWARD	174
	IOWA			SUNY-STONY BROOK	173
48	VANDERBILT	298		CASE WESTERN RESERVE	171
49 50	WAYNE STATE SOUTH CAROLINA	292 287	104 105	WATERLOO SASKATCHEWAN	169 164
50	KANSAS	287	107		
50 52				MCMASTER CALLEDDILA DIVERSIDE	160 157
52 52	CALIFORNIA, DAVIS	284 284		CALIFORNIA, RIVERSIDE	157
54 54	WASHINGTON UST. LOUIS			AUBURN	152
	CINCINNATI	277		GUELPH	137
55	ILLINOIS, CHICAGO	273		RICE CEORGIA TEGLI	126
			111	GEORGIA TECH	<u>110</u>



ARL STATISTICS QUESTIONNAIRE 1998-99



ARL STATISTICS QUESTIONNAIRE, 1998-99 INSTRUCTIONS FOR COMPLETING THE QUESTIONNAIRE

General Instructions

Please enter your data on the ARL Statistics Website (access via http://www.arl.org/stats/coordinator.html) and provide a paper copy to use for data verification.

Definitions of the statistical categories used in this questionnaire can be found in *Library Statistics, ANSI/NISO Z39.7-1995*. (Bethesda, MD: NISO Press, 1997.)

The questionnaire assumes a fiscal year ending June 30, 1999. If your fiscal year is different, please provide a footnote in the "Footnotes" section of the questionnaire.

Please do not use decimals. All figures should be rounded to the nearest whole number.

Please do not leave any lines blank. If an exact figure is unavailable, use -1, i.e., "U/A." If the appropriate answer is zero or none, use 0. For non-university libraries, if a question is not applicable to your library, use -2, i.e., "N/A." (Academic libraries should never use -2.)

In a university that includes both main and branch campuses, an effort should be made to report figures for the main campus only. (The U.S. National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS) defines a branch institution as "a campus or site of an educational institution that is not temporary, is located in a community beyond a reasonable commuting distance from its parent institution, and offers organized programs of study, not just courses.") If figures for libraries located at branch campuses are reported, please provide an explanation in the "Footnotes" section of the questionnaire.

A branch library is defined as an auxiliary library service outlet with quarters separate from the central library of an institution, which has a basic collection of books and other materials, a regular staffing level, and an established schedule. A branch library is administered either by the central library or (as in the case of some law and medical libraries) through the administrative structure of other units within the university. Departmental study/reading rooms are not included.

Specific Instructions

Questions 1-4. Volumes in Library. Use the ANSI/NISO Z39.7-1995 definition for volume as follows:

a single physical unit of any printed, typewritten, handwritten, mimeographed, or processed work, distinguished from other units by a separate binding, encasement, portfolio, or other clear distinction, which has been cataloged, classified, and made ready for use, and which is typically the unit used to charge circulation transactions.

Include duplicates and bound volumes of periodicals. For purposes of this questionnaire, unclassified bound serials arranged in alphabetical order are considered classified. Exclude microforms, maps, nonprint materials, and uncataloged items. If any of these items cannot be excluded, please provide an explanatory footnote in the "Footnotes" section of the questionnaire.



Include government document volumes that are accessible through the library's catalogs regardless of whether they are separately shelved. "Classified" includes documents arranged by Superintendent of Documents, CODOC, or similar numbers. "Cataloged" includes documents for which records are provided by the library or downloaded from other sources into the library's card or online catalogs. Documents should, to the extent possible, be counted as they would if they were in bound volumes (e.g., 12 issues of an annual serial would be one or two volumes). Title and piece counts should not be considered the same as volume counts. If a volume count has not been kept, it may be estimated through sampling a representative group of title records and determining the corresponding number of volumes, then extrapolating to the rest of the collection. As an alternative, an estimate may be made using the following formulae:

52 documents pieces per foot 10 "traditional" volumes per foot 5.2 documents pieces per volume

If either formulas or sampling are used for deriving your count, please indicate in a footnote.

Question 2. Volumes Added. Include only volumes cataloged, classified, and made ready for use. Include government documents if they have been included in the count of volumes on line 1a. <u>Do not include</u> as part of Volumes Added Gross any government documents or other collections (such as large gift collections) that were added to the collection as the result of a one time download or addition to the OPAC. Include these items in Volumes Held of the previous year (Line 1a) and provide a footnote explaining the revision of Line 1a.

Question 4. Monographic Volumes Purchased. Report number of volumes purchased. Include all volumes for which an expenditure was made during 1998-99, including volumes paid for in advance but not received during the fiscal year. Include monographs in series and continuations. If only number of titles purchased can be reported, please report the data and provide an explanatory footnote in the "Footnotes" section of the questionnaire. Note: This question is concerned with volumes purchased rather than volumes received or cataloged. Question 16 requests the expenditure for the volumes counted here

Questions 5-7. Serials. Report the total number of subscriptions, not titles. Include duplicate subscriptions and, to the extent possible, all government document serials even if housed in a separate documents collection. Verify the inclusion or exclusion of document serials in Question 48 of the questionnaire. Exclude unnumbered monographic and publishers' series. Electronic serials acquired as part of an aggregated package (e.g., Project MUSE, Academic IDEAL) should be counted by title. A serial is

a publication in any medium issued in successive parts bearing numerical or chronological designations and intended to be continued indefinitely. This definition includes periodicals, newspapers, and annuals (reports, yearbooks, etc.); the journals, memoirs, proceedings, transactions, etc. of societies; and numbered monographic series.

Question 6. Serials: Not Purchased. If separate counts of nonpurchased and purchased serials are not available, report only the total number of current serials received on line 7, and report -1, i.e., "U/A," for lines 5 and 6.

Question 8. Microforms. Report the total number of physical units: reels of microfilm, microcards, and microprint and microfiche sheets. <u>Include all government documents in microform</u>; provide a footnote in the "Footnotes" section of the questionnaire if documents are excluded.

Question 9. Government documents. Report the total number of physical units (pieces) of government documents in paper format that have not been counted elsewhere. Include local, state, national, and international documents; include documents purchased from a commercial source if shelved with separate documents collections and not counted above. Include serials and monographs. To estimate pieces from a measurement of linear feet, use the formula 1 foot = 52 pieces and indicate in a footnote that the count is based on this estimate. Exclude microforms and nonprint formats such as maps or CD-ROMs. Adjust line 1a, i.e., last year's Volumes Held, and provide a footnote if you are adding records to the OPAC for government documents previously held but not counted as part of Volumes Held (line 1a).

Question 10. Computer files. Include the number of pieces of computer-readable disks, tapes, CD-ROMs, and similar machine-readable files comprising data or programs that are <u>locally held as part of the library's collections</u> available to library clients. Examples are U.S. Census data tapes, sample research software, locally-mounted databases, and reference tools on CD-ROM, tape or disk. Exclude bibliographic records used to manage the collection (i.e., the library's own catalog in machine-readable form), library system software, and microcomputer software used only by the library staff.

Question 11. Manuscripts and archives. Include both manuscripts and archives measured in linear feet.



Question 12. Cartographic materials. Include the numbers of pieces of two- and three-dimensional maps and globes. Include satellite and aerial photographs and images.

Question 13. Graphic materials. Include the number of pieces of prints, pictures, photographs, postcards, slides, transparencies, film strips, and the like.

Question 14. Audio materials. Include the number of pieces of audio cassettes, phonodiscs, audio compact discs, reel-to-reel tapes, and other sound recordings.

Question 15. Film and video materials. Include the number of pieces of motion pictures, video cassettes, video laser discs, and similar visual materials.

Questions 16-27. Expenditures. Report all expenditures of funds that come to the library from the regular institutional budget, and from sources such as research grants, special projects, gifts and endowments, and fees for service. (For question 25 include non-library funds; see instruction Q24-25.) Do not report encumbrances of funds that have not yet been expended. Canadian libraries should report expenditures in Canadian dollars. (To determine figures in U.S. dollars, divide Canadian dollar amounts by 1.5103, the average monthly noon exchange rate published in the Bank of Canada Review for the period July 1998-June 1999.) Please round figures to the nearest dollar.

Question 16. Monographs. Report expenditures for volumes counted on line 4.

Question 17. Current Serials. Report expenditures for serials counted on line 5. Exclude unnumbered monographic and publishers' series, and encumbrances.

Question 18. Other library materials. Include expenditures for all materials not reported in Questions 16 and 17, e.g., backfiles of serials, charts and maps, audiovisual materials, manuscripts, etc. If expenditures for these materials are included in lines 16 and/or 17 and cannot be disaggregated, please report -1, i.e., ""U/A," and provide a footnote in the "Footnotes" section of the questionnaire. Do not include encumbrances.

Question 19. Miscellaneous expenditures. Include any other materials funds expenditures not included in questions 16-18, e.g., expenditures for bibliographic utilities, literature searching, security devices, memberships for the purposes of publications, etc. Please list categories, with amounts, in a footnote in the "Footnotes" section of the questionnaire. Note: If your library does <u>not</u> use materials funds for non-materials expenditures—i.e., such expenditures are included in "Other Operating Expenditures"—report 0, not -1, i.e., "U/A," on line 19.

Question 21. Contract Binding. Include only <u>contract</u> expenditures for binding done <u>outside</u> the library. If all binding is done in-house, state this fact and give in-house expenditures in a footnote in the "Footnotes" section of the questionnaire; do not include personnel expenditures. (This figure should also be reported in the 1998-99 ARL Preservation Survey, question 7b.)

Questions 22-25. Salaries and wages. Exclude fringe benefits. If professional and support staff salaries cannot be separated, enter -1, i.e., "U/A," on lines 22 and 23 and enter total staff on line 25.

Questions 24-25. Salaries and wages: Student Assistants. Report 100% of student wages regardless of budgetary source of funds. Include federal and local funds for work study students.

Question 26. Other operating expenditures. Exclude expenditures for buildings, maintenance, and fringe benefits.

Questions 28-31. Personnel. Report the number of staff in filled positions, or positions that are only temporarily vacant. ARL defines temporarily vacant positions as positions that were vacated during the fiscal year for which ARL data were submitted, for which there is a firm intent to refill, and for which there are expenditures for salaries reported on lines 22-25.

Include cost recovery positions and staff hired for special projects and grants, but provide an explanatory footnote indicating the number of such staff. If such staff cannot be included, provide a footnote in the "Footnotes" section of the questionnaire. To compute full-time equivalents of part-time employees and student assistants, take the total number of hours per week (or year) worked by part-time employees in each category and divide it by the number of hours considered by the reporting library to be a full-time work week (or year). Round figures to the nearest whole numbers.



Question 28. Professional Staff. Since the criteria for determining professional status vary among libraries, there is no attempt to define the term "professional." Each library should report those staff members it considers professional, including, when appropriate, staff who are not librarians in the strict sense of the term, for example computer experts, systems analysts, or budget officers.

Question 30. Student Assistants. Report the total FTE (see instruction Q28-31) of student assistants employed on an hourly basis whose wages are paid from funds under library control or from a budget other than the library's, including federal work-study programs. Exclude maintenance and custodial staff.

Questions 32-33. Instruction. Sampling based on a typical week may be used to extrapolate TO A FULL YEAR for Ouestions 32 and 33. Please indicate if responses are based on sampling.

Question 32. Presentations to Groups. Report the total number of sessions during the year of presentations made as part of formal bibliographic instruction programs and through other planned class presentations, orientation sessions, and tours. If the library sponsors multi-session or credit courses that meet several times over the course of a semester, each session should be counted. Presentations to groups may be for either bibliographic instruction, cultural, recreational, or educational purposes. Presentations both on and off the premises should be included as long as they are sponsored by the library. Do not include meetings sponsored by other groups using library meeting rooms. Please indicate if the figure is based on sampling.

Question 33. Participants in Group Presentations. Report the total number of participants in the presentations reported on line 32. For multi-session classes with a constant enrollment, count each person only once. Personal, one-to-one instruction in the use of sources should be counted as reference transactions on line 34. Please indicate if the figure is based on sampling. Use the "Footnotes" section to describe any special situations.

Question 34. Reference Transactions. Report the total number of reference transactions. A reference transaction is

an information contact that involves the knowledge, use, recommendations, interpretation, or instruction in the use of one or more information sources by a member of the library staff. The term includes information and referral service. Information sources include (a) printed and nonprinted material; (b) machine-readable databases (including computer-assisted instruction); (c) the library's own catalogs and other holdings records; (d) other libraries and institutions through communication or referral; and (e) persons both inside and outside the library. When a staff member uses information gained from previous use of information sources to answer a question, the transaction is reported as a reference transaction even if the source is not consulted again.

If a contact includes both reference and directional services, it should be reported as one reference transaction. Duration should not be an element in determining whether a transaction is a reference transaction. Sampling based on a typical week may be used to extrapolate TO A FULL YEAR for Question 34. Please indicate if the figure is based on sampling.

EXCLUDE SIMPLE DIRECTIONAL QUESTIONS. A directional transaction is an information contact that facilitates the logistical use of the library and that does not involve the knowledge, use, recommendations, interpretation, or instruction in the use of any information sources other than those that describe the library, such as schedules, floor plans, and handbooks.

Questions 35-36. Circulation. For Question 35, count the number of initial circulations during the fiscal year from the general collection for use usually (although not always) outside the library. Do not count renewals. Include circulations to and from remote storage facilities for library users (i.e., do not include transactions reflecting transfers or stages of technical processing). Count the total number of items lent, not the number of borrowers. For Question 36, report total circulation for the fiscal year including initial transactions reported on line 35 and renewal transactions.

Exclude reserve circulations; these are no longer reported. NOTE: Based on recommendation from the ARL Statistics and Measurement Committee, the question on reserve circulations was removed this year.

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Questions 37-38. Interlibrary Loans. Report the number of requests for material (both returnables and non-returnables) provided to other libraries on line 37 and the number of filled requests for material received from libraries or other providers on line 38. On both lines, include originals, photocopies, and materials sent by telefacsimile or other forms of electronic transmission. Include patron-initiated transactions. Do not include transactions between libraries covered by this questionnaire.

Questions 39-40. Ph.D. Degrees. Report the number awarded during the 1998-99 fiscal year. Please note that only the number of Ph.D. degrees are to be counted. Statistics on all other advanced degrees (e.g., D.Ed., D.P.A., M.D., J.D.) should not be reported in this survey. If you are unable to provide a figure for Ph.D.s only, please add a footnote in the "Footnotes" section of the questionnaire.

Question 40. Ph.D. Fields. For the purposes of this report, Ph.D. fields are defined as the specific discipline specialties enumerated in the U.S. Department of Education's Integrated Postsecondary Education Data System (IPEDS) "Completions" Survey. Although the IPEDS form requests figures for all doctoral degrees, only fields in which <u>Ph.D.s.</u> are awarded should be reported on the ARL questionnaire. Any exceptions should be footnoted in the "Footnotes" section of the questionnaire.

Question 41. Instructional Faculty. Instructional faculty are defined by the U.S. Dept. of Education as

those members of the instruction/research staff who are employed full-time as defined by the institution, including faculty with released time for research and faculty on sabbatical leave.

Full-time counts generally exclude faculty who are employed to teach fewer than two semesters, three quarters, two trimesters, or two four-month sessions; replacements for faculty on sabbatical leave or leave without pay; faculty for preclinical and clinical medicine; faculty who are donating their services; faculty who are members of military organizations and paid on a different pay scale from civilian employees; academic officers, whose primary duties are administrative; and graduate students who assist in the instruction of courses. Please be sure the number reported, and the basis for counting, are consistent with those for 1997-98 (unless in previous years faculty were counted who should have been excluded according to the above definition). Please footnote any discrepancies.

Questions 42-45. Enrollment. U.S. libraries should use the Fall 1998 enrollment figures reported to the Department of Education on the form entitled "Integrated Postsecondary Education Data System, Fall Enrollment 1998." The line and column numbers on the IPEDS form for each category are noted on the questionnaire. Please check these figures against the enrollment figures reported to ARL last year to ensure consistency and accuracy. Note: In the past, the number of part-time students reported was FTE; the number now reported to IPEDS is a head count of part-time students. Canadian libraries should note that the category "graduate students" as reported here includes all post-baccalaureate students.

Question 46: Basis of Volume Count. A physical count is a piece count; a bibliographic count is a catalog record count.

Question 53. Footnotes. Reporting libraries are urged to record in the footnote section any information that would clarify the figures submitted, e.g., the inclusion of branch campus libraries (see paragraph six of the "General Instructions" for definition of branch campus libraries). Explanatory footnotes will be included with the published statistics. Please make an effort to word your footnotes in a manner consistent with notes appearing in the published report, so that the ARL Office can interpret your footnotes correctly. For your convenience, your footnotes from the ARL Statistics 1997-98 are included in the printed copy of the questionnaire. Please update these notes, delete them, or indicate that they remain valid, and return them to the ARL office. Note that the number in parentheses refers to the appropriate column on the Library Data Tables in the published ARL Statistics, as well as to the corresponding line number on the questionnaire.

Please return a <u>printed version</u> of the completed questionnaire <u>in addition to the Web version</u> to the ARL Statistics and Measurement Program by **October 31, 1999.**

Please contact Martha Kyrillidou (martha@arl.org) or the Statistics Research Assistant (stats-ra@arl.org) at (202) 296-2296 for assistance.



ARL STATISTICS QUESTIONNAIRE, 1998-99

<u>Please do not leave any lines blank</u>. If an exact figure is unavailable, use "-1" (that is, "U/A"). If the appropriate answer is zero or none, use "0." For non-university libraries, if a question is not applicable in your library, use "-2" (that is, "N/A"). (Academic libraries should not use -2.)

Date Returned to ARL
Phone number
Phone number
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f titles.)



(ADI Statistic	cs Questionnaire 1998-99, page 2.)	INSTNO		
COLLECTIONS (cont'd.)	es Questionnune 1770-77, puge 2.)			
Other Library Materials: Total number of pieces	hold June 20, 1000;			
•	nelu Julie 30, 1999.			
(
9. Government documents not counted elsewl	here. (See instruction Q9.)			
10. Computer files. (See instruction Q10.)				
11. Manuscripts and archives (linear ft.). (See	instruction Q11.)			
Audiovisual materials:				
12. Cartographic. (See instruction Q12.)	13. Graphic. (See instruction Q13.)			
14. Audio. (See instruction Q14.)	15. Film and Video. (See instruction Q15.)			
_	Reported in Canadian dollars?Yes.	No.		
Library Materials:				
16. Monographs. (Expenditures for volumes re	eported on line 4.) (See instruction Q16.)			
17. Current serials including periodicals. (See	7. Current serials including periodicals. (See instruction Q17.)			
18. Other library materials (e.g., microforms, a/v, etc.). (See instruction Q18.)				
 Miscellaneous. (All materials fund expendi (See instruction Q19.) 	tures not included above.)	<u> </u>		
20. Total library materials (Add lines 16, 17,	0. Total library materials (Add lines 16, 17, 18, 19.)			
21. Contract binding: (See instruction Q21; also r	eport figure on ARL 1998-99 Preservation Survey	v)		
Salaries and Wages: (See instruction Q22-25.)				
22. Professional staff.				
23. Support staff.				
24. Student assistants. (See instruction Q24-25.				
25. Total salaries and wages. (Add lines 22, 23	3, 24.)			
26. Other operating expenditures: (See instruction	on Q26.)			
27. Total library expenditures: (Add lines 20, 21	, 25, 26.)			



	INS	TNO
(ARL Statistics Questionnaire 1998-99, page 3.)		
PERSONNEL (See instruction Q28-31. Round figures to nearest whole number.)		
28. Professional staff, FTE. (See instruction Q28.)		
29. Support staff, FTE.		
30. Student assistants, FTE. (See instruction Q30.)		
31. Total FTE staff. (Add lines 28, 29, 30.)		
INSTRUCTION (See instruction Q32-33.)		
32. Number of library presentations to groups (See instruction Q32.)		
Figure based on sampling?Yes	No.	
33. Number of total participants in group presentations reported on line 32. (See instruction Q33.)		
Figure based on sampling? Yes.	No.	
REFERENCE		
34. Number of reference transactions. (See instruction Q34.)		
Figure based on sampling? Yes.	No.	
CIRCULATION (See instruction Q35-36.)		
35. Number of initial circulations (excluding reserves).		
36. Total circulations (initial and renewals, excluding reserves).		
Figure for reserves no longer reported.		
INTERLIBRARY LOANS (See instruction Q37-38.)		
37. Total number of filled requests for materials provided to other libraries.		
38. Total number of filled requests for materials <u>received</u> from other libraries or providers.		
PH.D. DEGREES (See instruction Q39-40.)		



39. Number of Ph.D.s awarded in FY1998-99.

40. Number of fields in which Ph.D.s can be awarded. (See instruction Q40.)

(ARL Statistics Questionnaire 1998-99, page 4.)	10
FACULTY (See instruction Q41.)	
41. Number of full-time instructional faculty in FY1998-99.	
ENROLLMENT FALL 1998 (TOTALS) (See instruction Q42-45; line numbers refer to IPEDS survey)	form.)
42. Full-time students, undergraduate and graduate. (Add line 8, columns 15 & 16, and line 14, columns 15 & 16).	
43. Part-time students, undergraduate and graduate. (Add line 22, columns 15 & 16, and line 28, columns 15 & 16).	
44. Full-time graduate students. (Line 14, columns 15 & 16.)	
45. Part-time graduate students. (Line 28, columns 15 & 16.)	
LOCAL CHARACTERISTICS or ATTRIBUTES	
46. Basis of volume count is: Physical Bibliographic. (See instruction Q	146.)
47. Government documents are included in count of Current Serials. Yes No.	
48. Fringe benefits are included in expenditures for salaries and wages. Yes. No.	
49. Law Library statistics are included Yes No We do not have a	a Law Library.
50. Medical Library statistics are included Yes No We do not have	a Medical Library
51. Other main campus libraries included: [list in "Footnotes" below].	
52. Branch Campus Libraries. (See paragraph six of the General Instructions.)	
Figures include branch CAMPUS libraries: Yes No We have on	ly one campus.
If branch campus libraries are included, please specify which campuses in "Footnotes" below.	
If branch campus libraries are <u>not</u> included, please specify which campuses in "Footnotes" below.	
FOOTNOTES (See instruction Q53.)	
53. Footnotes as published in the ARL Statistics 1997-98.	
For your convenience, a copy of your library's footnotes as they appear in the published ARL Statist attached. Please indicate revisions, additions, and deletions as appropriate. If any footnotes published unchanged, please mark them to indicate that they are still valid.	<i>ics 1997-98</i> is ed last year are
Please return a <u>printed version</u> of the completed questionnaire <u>in addition to the Web version</u> ARL Statistics and Measurement Program by October 31, 1999.	to the

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Please contact Martha Kyrillidou (martha@arl.org) or the Statistics Research Assistant (stats-ra@arl.org) at (202) 296-2296 for assistance.

FOOTNOTES TO THE ARL STATISTICS, 1998-99



FOOTNOTES TO THE ARL STATISTICS, 1998–99

Footnotes may also include errata and corrections to data from prior years not previously reported. Numbers in parentheses refer to columns in Library Data Tables and to Questionnaire numbers.

Institution	QUESTION NUMBER	NOTES
ALABAMA		All figures are as of September 30, 1999.
	1	Includes Government documents, beginning in 1996; pre-1996 documents are not included in the catalog.
	4	Includes law library.
	8	Includes Government documents in microformats.
	18	Includes Map library only; the other libraries do not separate expenditures for Audiovisual materials and Microforms.
	19	Includes Center for Research Libraries membership.
	26	Includes bibliographic utilities, memberships (except CRL), and literature searching.
		Decrease due to completion of integrated library system replacement.
ALBERTA		All figures are as of March 31, 1999.
		Includes East Campus archival storage facility.
		Volume count erroneously reported as physical in 1997-98.
	5-7	Includes Government documents.
	6	Increase due to large acquisition of free, electronic journal titles.
	8	Includes Government documents.
	16-27	Expenditures reported in Canadian dollars: (16) \$2,275,496; (17) \$6,772,519; (18) \$0.00; (19) \$459,220; (20) \$9,507,234; (21) \$147,204; (22) \$3,810,855; (23) \$6,854,945; (24) \$656,892; (25) \$11,322,692; (26) \$1,453,178; (27) \$22,430,308.
	18	Included in Monograph expenditures (16) and Serial expenditures (17).
	19	Includes GST (Goods and Services Tax), postage, courier, and supplies expenditures, as well as membership expenditures not already paid through the materials budget.
	22	Decrease reflects retirements of staff at higher salary levels, and hiring of staff at lower salary levels.
	26	Does not include special one-time funding and resulting expenditures.
	36	Excludes reserves. In past years reserves could not be disaggregated from Total ciruculations.
	40	Number of Ph.D. fields varies from year to year.
ARIZONA		Includes Architecture, Center for Creative Photography, Music, and the Science and Engineering library.
		Excludes Sierra Vista Branch Campus.
		Basis of volume count for Law library is physical; for main and Health Sciences libraries is bibliographic.



Institution	QUESTION NUMBER	NOTES
ARIZONA (cont'd)	5-7	Law library cannot supply disaggregated data, reports only total. Main library reports: (5) 27,096; (6)2,904 (7)30,000. Law library reports: (7) 4,412. Med library reports: (5) 2,872; (6) 102; (7) 2,974.
ARIZONA STATE		Includes ASU West; ASU East; Architectural and Environmental Design Library, Hayden Library, Music library, Noble Science and Engineering Library, and the Law library.
	19	Includes memberships (\$103,967); ILL (\$64,694); and Marcive (\$272); total (\$168,933). Law: Marcive, OCLC, ILL/Doc Delivery. ASU East: document delivery in lieu of purchase, ASU West: search services (\$8,189); media rentals (\$808); misc. (1,897); document delivery (24,669); and document delivery contract (\$20,000).
	43-45	Total enrollment reflects unduplicated counts for ASU Main and ASU West/East combined. Enrollments for the three campuses are not additive.
AUBURN		All figures are as of September 30, 1999.
		Includes Architecture and Veterinary Medicine libraries.
	18	Included in Monographs (16) and Current serials (17) expenditures.
BOSTON		Volumes held June 30, 1998 revised to 2,099,555.
e e e e e e e e e e e e e e e e e e e	5-6	Law library not able to disaggregate. Mugar=9,531; STH=415, Alumni Med=1,277.
	7	Some libraries unable to disaggregate purchased books and books received.
	16,17	Includes Microforms from Law library.
	19	Includes prepayment to bibliographic utility.
	22	Includes three year retroactive payment for labor agreement settlement.
	26	Includes \$399,148 in Special collections monies.
	28	Reflects increase in filled positions and system-wide personnel upgrades.
	33	Includes Medical library for the first time.
	41	Does not include Medical library.
BRIGHAM YOUNG		All figures are as of August 31, 1999.
	1-3, 5-8	Includes Government documents.
	34	Figure based on sampling.
BRITISH COLUMBIA		All figures are as of March 31, 1999, except where noted.
		Includes Adult Education reading room, Architecture reading room, Asian library, Asian Studies reading room, Biomedical branch library, Chemistry/Physics reading room, CICSR Reading Room, Crane Resource Centre, Education library, Engineering reading rooms, Extension library, Fine Arts library, First Nations House of Learning (XW17XWA), Geography reading room, Geology reading room, Geophysics/Astronomy reading room, The Walter C. Koerner Library, Language and Education Resource Centre, Main library, David Lam Management Library, Hamber Library, Law library, MacMillan library, Mathematics library, Music library, Psychiatry reading room, Science and Engineering Division, St. Paul's Hospital Library, Woodward Biomedical Library, Special Collections Division, and University Archives.
		Medical and Law library statistics cannot be disaggregated from the main statistics.
	2-3	Increase due to resumption of cataloging after transfer to DRA cataloging system.



Institution	QUESTION NUMBER	NOTES
BRITISH COLUMBIA (cont'd)	16-27	Expenditures reported in Canadian dollars: (16) \$2,996,295; (17) \$7,295,268; (18) included in 16; (19) \$1,023,264; Expenditures disaggregated: Internet Access (\$700,000); Electronic Services (\$199,582); Electronic Document Delivery (\$123,091); Cost Recovery (\$591); (20) \$11,313,827; (21) \$213,585; (22) \$5,815,411; (23) \$7,340,537; (24) \$1,566,216; (25) \$14,722,164; (26) \$2,946,815; (27) \$29,197,391.
	31	Includes operating budget 362.85 FTE; cost recovery 14.01 FTE; grant/other 9.46 FTE; Project 1.6 FTE; For a total of 387.92 FTE.
	36 ·	Includes reserve circulation.
	39	Figures are for calendar year 1998.
BROWN		Includes principle libraries: John Carter Brown Library, Rockefeller (Social Sciences & Humanities), Sciences; John Hay (Special Collections) and the Art Slide library, Demography library, Orwig Music Library, and Media Services Branch Libraries.
		Medical library statistics cannot be disaggregated from the main statistics because the Medical collection is an integral part of the Sciences library.
	5	Figure for 1997–98 revised to 10,906.
	6	Figure for 1997–98 revised to 2,734.
	7	Figure for 1997–98 revised to 13,640.
	11	Manuscripts only.
	22-25, 27	In previous years these categories included fringe benefits. In an effort to make Brown's data more comparable. Excludes fringe benefits of \$998,316 for Professional staff and \$739,961 for Support staff.
CALIFORNIA, BERKELEY		Volumes held June 30, 1998 revised to 8,791,187.
	8-11	Government documents are reported by material type when known and otherwise as generic "government documents."
	16	Includes expenditures for all library materials except serials.
	31	Includes temporary employees, and reflects temporary reductions in hours due to voluntary action by career employees.
	32	Decrease due to changes in counting methods.
	38	Does not include photocopies provided by authorized document delivery subcontractors (e.g., Boalt Express).
	39-40	Includes some professional, doctoral degrees in addition to Ph.Ds. A new analysis revealed that the actual Ph.D. count was lower than previously reported.
	41	Includes all full-time faculty. In previous years only tenure-track faculty were counted.
CALIFORNIA, DAVIS		Includes Harrison Western Research Center Library (20,923 bound volumes and 107 non-document serials) in Fair Oaks, California.
		Basis of volume count in General library is bibliographic; Law library is physical.
	17	Includes \$1,381,904 in one-time prepaid periodicals.
	19	Includes for Law library: RLIN (\$14,517); LEXIS and WESTLAW (\$50,765).
	34	Law library is based on sampling. General library is based on count.
	35	Figure for Health Sciences library and Law library is 37,278.
	39	1998–99 figure not available. 1997–98 figure is 337.



Institution	QUESTION NUMBER	NOTES
CALIFORNIA, IRVINE	16	Expenditure increase due to a collection budget increase.
	19	Figure represents prepayments. The library received a sizable one-time increase to its collection budget and a smaller permanent increase.
•	20,27	Increased spending is due to permanent and one-time budget increase.
CALIFORNIA, LOS ANGELES		Volumes held June 30, 1998 revised to 7,250,134 due to the closure of the Center for International Relations Library and the addition of the Humanities reading room and the Multimedia & Technology Lab.
	22	Professional staff salaries include approximately \$350,000 in unaffiliated librarians' salaries inadvertently excluded from the 1997–98 report. They also include approximately \$300,000 of librarian and professional staff salaries inadvertently reported in support staff salaries in the 1997–98 report.
	23	Support staff salaries are adjusted to reflect the reduction of approximately $$300,000$ of librarian and professional staff salaries that were inadvertently reported in support staff salaries in the 1997–98 report.
	30	1998–99 Student FTE calculated based on an average student salary of \$12,500.
CALIFORNIA, RIVERSIDE	18	Increase due to the acquisition of electronic and serial backfiles and microform sets.
GALIFORNIA, SAN-DIEGO	ra.d.f. temme_	Includes: Biomedical library, Medical Center library, Social Sciences and Humanities library, Science and Engineering library, Scripps Institution of Oceanography Library, International Relations and Pacific Studies Library, Undergraduate library, Music library, Art and Architecture library, and the Mandeville Special Collections Library.
	3	High number of withdrawals due to several massive withdrawal projects, including nearly 14,000 volumes in one branch library because of mold infestation.
	5	Includes 2,599 serial titles with internet access.
	6	Includes 2,722 serial titles with internet access.
	11	Includes some materials acquired but not reported in 1997–98.
	17	Includes monographic and publishers' series. Includes all formats.
	18	Unusual increase due to one-time LION expense, \$46,478 and Web of Science back set 94-98, \$105,794.
	19	Expenditures for database services (literature searches).
	31	Includes 11.48 FTE hired for cost recovery operations, special projects, and grants.
CALIFORNIA, SANTA BARBARA	11	1997–98 figure revised to 16,498. Previously reported figure did not include archival manuscripts.
	12	Increase due to addition of satellite imagery collection.
	16	Increase due to one-time only influx of funds.
	35-36	Figures not reported due to a system failure.
CANADA INSTITUTE FOR SCIENTIFIC AND TECHNICAL		Volumes held June 30, 1998 revised to 7,959,314.
INFORMATION		Collections have been centralized, branch libraries are now virtual.
	3	Increase due to completion of major weeding project initiated in 1997-98.
	4	Increase due to transfer of monograph fund to serials.
	7	Increase due to addition of approximately 2,500 electronic journals.



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Institution	QUESTION NUMBER	NOTES
CANADA INSTITUTE FOR SCIENTIFIC AND TECHNICAL INFORMATION (cont'd)	10	Includes full-text and databases for internal patrons (i.e., researchers at the National Research Council of Canada). Site licenses have been negotiated for the NRCX and access is through a web site, or "virtual library" that is restricted to their use.
	16-27	Expenditures reported in Canadian dollars: (16) \$554,336; (17) \$8,821,395; (18) N/A; (19) \$53,381 (20) \$9,429,113; (21) N/A; (22) U/A; (23)U/A; (24)U/A (25) \$12,905,323; (26) \$14,005,664; (27) \$36,340,100.
	36	Virtual branch-library circulations are included for the first time.
CASE WESTERN RESERVE	3	The Medical library withdrew a number of duplicate journal titles.
	3, 10, 13-14	Mandel School of Applied Social Sciences Library conducted a major withdrawal project of outdated media, unused journals held elsewhere, and duplicate materials.
	5-6	1997-98 figures for main library revised to reflect correction. Electronic serials purchased through a consortium were reported as Current serials purchased (5) rather than Serials received but not purchased (6).
	22, 28	The Medical library no longer includes staff positions and salaries for the Dittrick Medical History Center.
	22-26, 28-31	The Electronic Library Services Group has disbanded. Their positions and expenses are no longer reported.
CENTER FOR RESEARCH LIBRARIES	1-3, 8	Includes Government documents (number estimated). Decrease reflects the deaccession of post-1950 imprint U.S. State documents.
	4	Increase reflects purchases made for Russian Academy of Sciences exchange program.
	5-7	Excludes most Government documents in collection.
	10	Figure for Computer files represents a collection of digitized files for Latin American Microfilm Project (LAMP) on CRL's web site that appears to users as one large file but is actually many.
	12-15	Audiovisual materials are counted with the material they accompany.
	18	Includes restricted-fund expenditures, some of which are grant funded.
	19	Includes funds for replacement of missing materials and preservation microfilming.
	28-29	Decrease reflects some staff vacancies that are not in active recruitment. Includes 5 FTE of grant-funded personnel.
CHICAGO		Medical library cannot be disaggregated from the main statistics, as the medical collection is an integral part of the science collection.
	3	Includes cataloged Government documents.
	4, 16	Excludes monographic series and continuations.
	7	Includes monographic series and cataloged Government document serials (paper and microform); excludes duplicate subscriptions.
	9	Chicago catalogs and classifies most Government documents for the general collections. The library has no separate Government documents department, and counts of uncataloged Government documents are not maintained.
	10, 13-15	Excludes unprocessed items.
	17	Includes monographic series and duplicate subscriptions.
	18	Includes expenditures for some electronic media (LEXIS and WESTLAW) and some microforms and A-V materials. Other electronic media, manuscripts, etc. are included in Monographs expenditures (16) and Serials expenditures (17).





Institution	QUESTION NUMBER	NOTES
CHICAGO (cont'd)	22-25	Includes cost-recovery positions and staff hired for special programs and grants.
	34	Figure based on sampling.
	38	Includes 399 requests filled by the Center for Research Libraries.
CINCINNATI		Does not include Raymond Walters College and Clermont College branch campus libraries unless otherwise noted.
		Main library volume count is physical. Medical Center library volume count is bibliographic.
	30	Inflated figure reported by Law library on 1997-98. Revised figure for 1997-98 combined statistics is 89.
	31	Inflated figure reported by Law library on 1997-98 survey. assistant. Revised figure for 1997-98 combined statistics is 274.
	35	Inflated figure reported by Law library on 1997-98 survey. Revised figure for 1997-98 combined statistics is 78,732.
	36	Inflated figure reported by Law library on 1997–98 survey. Revised figure for 1997-98 combined statistics is 62,954.
	37-38	Reduction in filled requests is a result of a change in algorithm used to calculate data and an improved reporting methodology. Includes figures for branch campuses.
COLORADO	5-7	Excludes Law library.
	10	1997–98 figure revised to 9,389.
	11	Increase due to more accurate linear-foot count.
	19	Bibliographic Utilities \$235,072; Literature Searching \$107,739; CARL \$98,865; Off-Site Storage \$357,750.
	28	Includes 1 gift.
	29	Includes 2 auxiliary.
COLORADO STATE	1	Includes 400,000 to 500,000 flood-damaged volumes which will be restored over the next few years.
	2	Includes 13,972 documents.
	8	Includes 1,931,363 documents.
	19	Includes ARL (\$15,632); CNI (\$2,450); Educause (\$948); Networking (\$285,655); SUMO Deposit (\$20,000); STN Searches (\$202); First Search (\$48,050); OVID Maintenance (\$3,040); JSTOR Setup (\$40,000); ISI Local Journal Use (\$6,000).
	32-33	Increase due to creation of an instructional unit.
	37-38	ILL lending ceased and ILL borrowing was reduced due to flood recovery efforts.
	40	Decrease reflects a new count by the Office of Budgets and Institutional Analysis.
	43	Increase reflects a change in the way part-time graduate students are counted.
COLUMBIA		Basis of volume count in Main and Medical library is physical. Law library count is bibliographic.
	1-8	Includes Government documents.
	2	Decrease was a result of an unusually large number of volumes added in 1997–98.



Institution	QUESTION NUMBER	NOTES
COLUMBIA (cont'd)	8	1997–98 figure revised to 5,305,425.
	18-19	Included in Monograph expenditures (16).
	34	Medical library figure based on sampling. Law library statistics not available for 98–99.
CONNECTICUT		Includes HBL (Main Campus), medical, and law libraries. Also includes the Greater Hartford, Avery Point, Stamford, Torrington, and Waterbury campus libraries.
•	14	Figure represents the first count of the collection.
	20, 26	Expenditure figures are due to refurbishing of Homer Babbidge Library and the acquisition of new library system.
	22	1997–98 figure revised to \$4,281,953.
	23	1997–98 figure revised to \$3,582,846.
CORNELL		Includes the Africana, Engineering, Fine Arts, Hotel, Kroch (Rare & Mss. Coll.), Law, Management, Mathematics, Music, Olin/Kroch (Asia Coll.), Physical Sciences, Uris, Industrial & Labor Relations, Mann/Entomology, and Veterinary Medicine Libraries on the main campus.
		Includes the New York Agricultural Experiment Station in Geneva, NY.
	11	Manuscripts and archives reported in cubic feet.
	28-31	Includes professional staff, support staff, and student assistants on grants and projects.
	36	Includes reserves.
	41	Faculty count includes only full, associate, and assistant professors. Excludes faculty at the Medical Division in New York City.
	42-45	Excludes Medical Division in New York City and students registered in absentia. Parttime enrollment reflects employee, degree-registrants only.
DARTMOUTH	28	Includes 1 FTE on soft money.
	10	Decrease due to improved counting method.
	29	Includes 1 FTE on soft money.
	41	Includes medical school faculty underreported in FY98.
DELAWARE	13	Increase due to the acquisition of a large collection of post cards.
	18	Increase due to the purchase of a back file for the Web of Science.
	22-25	Excludes professional and support staff in Information Technologies assigned to the library.
	38	Excludes copies obtained directly by users from unmediated document suppliers.
DUKE	4	Excludes Law library.
	5-7	Figures no longer include ProQuest and Expanded Academic Index titles.
	10, 12-15	Excludes Rare Book, Manuscript and Special Collections.
	10	1997–98 figure revised to 4,483.
	11	Excludes Duke University archives.
	16, 20, 27	One of the independent libraries was double-counted in 1997-98. FY 97/98 responses revised to: 3,066,831 (16); 9,335,964 (20); 23,723,650 (27).



Institution	QUESTION NUMBER	NOTES
DUKE (cont'd)	18	Includes Law, Medical and Business libraries only.
	31	Includes 12 FTE on special projects and grants.
	32-33	Excludes Law library.
	35-36	Include some Reserve circulations.
EMORY		Includes Theology library and Oxford campus library except were indicated.
		Volumes held June 30, 1998 revised to 2,449,821.
	4	Excludes Oxford campus library.
	9	Includes uncatalogued Government documents (pieces) from Law and main libraries.
	16-27	Figures are as of August 31, 1999.
	22	Includes 2.3 FTE positions wholly or partially funded from grants.
	26	Includes "package charge" computing, overhead cost assignment of \$925,752.
FLORIDA		Includes Borland Health Science branch library in Jacksonville, FL.
	4–5	Some funds for monographs were directed to serials and electronic resources.
	11	1997=98 figure revised to 8,165.
	19	Includes: Other materials (\$206,775); Database Searches (\$234,452); Document Delivery (\$58,190); Preservation (\$63,153); Contracted Computer Services (\$184,886).
	34	Figure based on sampling.
	39-45	Figures include First Professional Degrees.
FLORIDA STATE		Includes branch campus in Panama City (holdings and materials expenditures only). Excludes Developmental Research School.
	1-3	Includes most cataloged Government documents.
	4-6	Excludes Law library.
	8, 11, 18	Increase due to purchase of large microform monographic sets.
	16	Includes some microforms and audiovisual materials.
	19	Main library only: (Online databases (\$171,997); Document delivery (\$45,566); Outsourcing (\$15,436); Postage/handling (\$42,215). Law library only: Computer bibliographic services (\$9,301); online searching and electronic files (\$84,651).
	40	Figure represents total number of doctoral degrees awarded; number of PhDs not available.
GEORGE WASHINGTON		Includes Gelman (main), Himmelfarb (medical), and Burns (law) libraries on the main campus, and the Mt. Vernon and Ashburn departmental libraries. George Washington acquired the Mt. Vernon campus in July, 1999.
		Volumes held June 30, 1998 revised to include 58,126 volumes acquired through the acquisition of the Mt. Vernon college.
		Basis of volume count for Gelman library is physical; for Mt. Vernon, Law and Medical libraries it is bibliographic.
	2	Includes 838 volumes acquired through the acquisition of Mt. Vernon College and 5,513 volumes acquired through a large gift by the Kiev family.



Institution	QUESTION NUMBER	N NOTES
GEORGE WASHINGTON (cont'd)	3	Includes 2,405 volumes withdrawn from the Mt.Vernon collection. Serials unit at Gelman completed a project in April, 1999 to clean up records for the Code of Federal Regulations (700 items were withdrawn).
		Law and Medical libraries reported a negative number (-2,643).
	4	Count of serial volumes (Gelman) based on a monthly average. Decrease due to shift of collections fund allocations. Also, prior to 1997–98 monographs received on standing order had not been counted. Law library data not available
	5-6	Excluding Law library, 8,944 (5); 834 (6).
	7	Includes 5,576 for Law library.
	8	Medical library figure is 0.
	10	Gelman library moved additional titles to the web.
	11	Law and Medical libraries report 0.
	12	Law and Medical libraries report 0.
	13	Law library figure is 0.
	14	In 1997–98 Gelman library included these figures in line 15.
	16	Reduction in funds to base budget resulted in a shift of collections funds to support serials.
	18	Voyager reports were more accurate in FY99.
	19	Gelman library increase due to greater expenditures for database fees; WRLC fee increased by \$6690. Gelman: Lexis-Nexis (\$20,122), Capcon (\$157,094), WRLC (\$488,722); Database fees (\$23,438). Law: Bibliographic utility (\$33,000).
		Medical library figure is 0.
	21	Binding policy changed to one-week turnaround and required additional funds.
	22	Includes \$900 for payments to faculty for services (honorarium, musical performances, etc) and salaries for 4 professional classified staff previously reported on line 23.
	24	Increase due to special projects and temporary staff hired with wage funds.
	26	Decrease due to decision at Gelman library to allocate resources to other categories such as binding.
	28	Includes 1.0 FTE cost-recovery position for Gelman library.
	29	Includes 4.0 FTE cost-recovery positions, 13 shelvers, and other temporary staff for Gelman library.
	30	Includes 2.0 FTE cost-recovery positions for Gelman.
	32	Law library data unavailable.
	33	Law library data unavailable; Some Gelman library departments used sampling, others did not. Medical library was not sampled.
		Law library data unavailable; Gelman library closed the Information Desk in 1998. Gelman's figure based on sampling for some departments, and on actual counts for others.



1997-98 figure revised to 19,540.

1997-98 figure revised to 40,673.

Until March, 1999, Mount Vernon Campus library's circulation system was not automated and no statistics were kept.

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Institution	QUESTION NUMBER	NOTES
GEORGETOWN		Includes the Joseph M. Lauinger, Woodstock Theological, Blommer Science, and the Kennedy Institute of Bioethics libraries.
		Basis of volume count in Law library is bibliographic.
	6	Increase reflects increased ability to count gift serials.
	21	Includes \$22,000 binding of paperbacks, \$4,098 for preservation photocopying and \$3,850 for contract conservation services. Medical library reports \$11,648 in material expenditures that covers binding.
GEORGIA	8	1997–98 figure revised to 5,815,005.
	14-15	Include figures for media archives for materials not reported prior to 1998.
	19	Includes expenditures for bibliographic utilities in the Main library, which had been reported in the monographs category prior to 1998.
	32-33	Figure for Law library was based on sampling.
	34	Figure for the Law library was based on actual count.
GEORGIA TECH	1-3, 5-7	Includes Government documents that are cataloged, classified, and housed separately.
	41	Figure for 1997–98 revised to 698.
GUELPH		Excludes Alfred College, Kempyville College and Ridgetown College branch campus libraries.
		All figures as of April 30, 1999.
	16-27	Expenditures reported in Canadian dollars: (16) \$656.451; (17) \$2,847,188; (18) U/A; (19) \$275,041;(20) \$3,778,680; (21) \$77,488; (22) \$1,535,064; (23) \$3,090,121; (24) \$118,025; (25) \$4,743,210; (26) \$611,867; (27) \$9,211,245.
	16	Decrease is the result of later ordering due to implementation of new library system. All available 98/99 funds were committed/encumbered, but considerable material will be received and counted as expenditures in 99/00 fiscal year.
	18	Expenditures for all materials are included in 16 and 17.
	19	Increase is largely due to restructuring internal UG budget. Document Delivery (\$198,148) and library membership expenses (ARL, CARL, etc - \$27,497) now fall in this category with the broad "Collections/Information Resources" area.
	36	Decrease largely due to three-week stack closure during major facility renovation in 1998.
	37-38	Large year-over-year increases are due to implementation of consortial union catalog and extension of full reciprocal borrower privileges among consortia members.
HARVARD		Includes research institutions in the District of Columbia and Italy.
		Excludes Medicine and Dental Schools.
		Volumes held June 30, 1998 revised to 13,903,387.
		All PhDs are awarded through the Graduate School of Arts and Sciences.
	1-2	Includes some Government documents.
	6	Includes some Government documents; excludes some international Government documents.
	8	Increase in microform units due to increase in acquisitions in faculty libraries.



Institution	QUESTION NUMBER	NOTES
HARVARD (cont'd)	26	Includes some expense attributable to Miscellaneous expenditures (19). Additional duplicate expenses deducted.
	27	Separate figures for expenditures from grants and special projects are not available. Excludes fringe benefits (\$10,180,846) and buildings and maintenance (\$6,002,629) charged to library budget. Includes cost recovery items (\$5,501,734) excluding Harvard Depository.
	37	Excludes items requested by Faculty libraries from Harvard Depository.
	41	Number represents total headcount, separate figures for full and part-time positions unavailable.
HAWAII	1-3, 5-8	Includes Government documents; based on a formula applied to a piece count.
	4	Figure represents monographic titles purchased; piece count is not available.
	16	Over \$400,000 in book funds added to library budget in last quarter of fiscal 98/99. These funds were committed to approval plan contracts. Monographs purchased with these funds will not be received until FY $99/00$.
	28	Includes 2 FTE funded through cost-recovery funds.
	38	Includes new service: self-initiated, unmediated document requests via UnCover subsidized by the library.
HOUSTON		All figures are as of August 31, 1999.
		Includes O'Quinn Law, Art and Architecture, Music, Optometry, Pharmacy, and M.D. Anderson libraries.
		Excludes branch campus libraries at Clear Lake, Victoria, and Downtown Houston.
	5-6	Decrease due to revision in counting method.
	19	Includes bibliographic services (\$119,374), Lexis/Nexis and Westlaw (\$109,635); other online services (\$8,400); conservation of materials (\$5,000); and MARC records (\$1,855).
	34	Does not include Law library reference transactions.
	47	Law library includes government documents in count of current serials; other campus libraries do not.
HOWARD	9	There is no separate Government documents department. Government documents are included in the serials count.
	22, 23	Includes institutional support for electronic information systems.
	26	Includes professional fees paid for program and design professional services for new library buildings. Includes consultant fees for Law library and the Louis Stokes Health Sciences Library (\$2,000,000).
ILLINOIS, CHICAGO	4, 16	Library received additional funds to purchase monographs.
	4	Includes Government documents.
	8	640,740 microcard set added.
	10	Figure represents titles, not units. Number reflects increase in computer files held and increase in computer files cataloged.
	13-14	Decrease due to weeding and inventory of part of collection.
	18	Includes several major back file purchases.



INSTITUTION	QUESTION NUMBER	NOTES
ILLINOIS, URBANA	4	1997-98 figure revised to 75,724.
	8	Includes addition of major microfiche collection of over 3 million items.
	19	Includes preservation to outside vendor (\$11,318); Express, Freight, and Postage (\$121,624); Interlibrary Loan (\$12,854); Handling (\$66,419); Document Delivery (\$34,154); Electronic resources (Fund 2001) (\$590,918); CRL Membership (\$46,941); Year-end adjustment (\$-1,174); and Online Info Services/non-recoverable (\$17,857).
	28–29	Over 20 professional and support positions have been eliminated.
	28	Includes 42.5 FTE graduate assistants.
	33	Figure is a mix of exact numbers and estimates, depending on individual units reporting.
INDIANA		Volumes held June 30, 1998 revised to 6,042,532.
		Excludes branch campus libraries at Indianapolis, Ft. Wayne, Kokomo, South Bend, Gary, New Albany, Richmond, and Columbus.
	1	1997–98 figure revised to 6,042,532.
	8	1997–98 figure revised to 4,007,191.
	40	1997–98 figure revised to 71.
and the second of the second o	41	Includes academic administrators and visiting faculty. Excludes librarians.
IOWA		Volumes held June 30, 1998 revised to 3,927,344 due to revised volume count at the Law library.
	1-3	Excludes annuals and proceedings.
	5	FY 1999 serial cuts not reflected in data.
	6, 10	Government documents are increasingly sent in electronic form, increasing the number of computer files and decreasing the number of paper serials.
	15-16	Resources for monographs were reallocated for videos in response to library needs.
	19	Figure reflects expenditures for Law library databases.
	31	Excludes salary for .5 FTE Associate Dean for Research at the Law library.
	34	Law library figure based on sampling.
	41	Excludes 568 clinical and pre-clinical faculty with departmental appointments.
IOWA STATE	3	The formula of "5.2 document pieces per volume" was used to estimate the number of Government documents.
	19	Includes preservation supplies and reformatting contract services, ILL document service charges, additional acquisitions postage, and support for local information services. Major decrease in spending for this category.
	28	Increase due to reclassification of some librarians as professional staff.
JOHNS HOPKINS		Includes Eisenhower Library, Welch Medical Library, Institute of the History of Medicine, School of Hygiene and Public Health library, Peabody Conservatory Library, Applied Physics Laboratory library, School of Advanced International Studies (SAIS) in Washington, DC, and Bologna, Italy, the Center for Italian Studies in Florence, Italy, the Montgomery County Center in Rockville, MD, and the School of Continuing Studies, Columbia Center and Downtown Center.



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Excludes SAIS in Nanjing, China.

Institution	QUESTION NUMBER	NOTES
		Data from the Applied Physics Laboratory covers January through December 1998.
	1	Includes Government documents based on ARL formula.
	14	Decrease reflects underreported data from a branch library.
	19	Includes literature searching and postage for library materials.
	35, 36	Decreases are a result of increased use of internet resources by patrons.
	41	Includes data from the Peabody Institute, which was not reported in previous years.
KANSAS		Includes Regents Center Library in Overland Park, Health Sciences library and Clendening History of Medicine Library in Kansas City.
		Excludes University of Kansas School of Medicine (Farha Library) at Wichita.
		Only FY 96 information available for Clendening History of Medicine library.
	1-3, 5-8	Includes Government documents.
	4	Volume count is not available; figure reflects number of monograph titles purchased.
	26	Includes \$507,123 of one-time expenditures for a new library computer system and \$136,803 for office equiptment.
	32-34	First year this information is being provided.
	40	Includes the Speech Pathology and Audiology fields that are inter-campus programs for Medical library. Main library includes one joint program with Kansas State University.
KENT STATE		Includes branch campuses at Ashtabula, Geauga, East Liverpool, Salem, Stark, Trumbull, and Tuscarawas.
	16-27, 28-31	Expenditure and personnel figures include Audiovisual Services, Teleproductions, Instructional Resources Center, and Distributed Learning.
	23, 29	Decrease due to relocation of a unit of support staff to another part of the university.
KENTUCKY		Volumes held June 30, 1998 revised to 2,750,634 due to addition of information from Lexington Community College.
		Includes Lexington Community College except where noted.
	7	Decrease due to clarification of definition of aggregated packages.
	8-15, 32-38	Excludes Lexington Community College library.
LAVAL		All figures are as of May 31, 1999.
		Medical and Law library statistics cannot be disaggregated from the main statistics because those collections are an integral part of the Main library.
	5	Excludes 2,267 electronic full-text and 450 printed periodicals.
	21	Most binding is done in house.
LIBRARY OF CONGRESS		All figures are as of September 30, 1999.
	2	Arrearage reduction effort underway; this figure includes many prior-year acquisitions.
	7	Total number of current serials received, including periodicals, can only be estimated.



Institution	QUESTION NUMBER	NOTES
LOUISIANA STATE	3	Increased withdrawals due to a temporary weeding project. Government document withdrawals computed for the first time.
	5-7	Includes aggregated databases as titles for the first time.
	9	Increase due to revised Government document estimate.
	12	Underreported in previous years.
	22, 28	Changed classification of Professional staff to include 13.25 FTE professionals without MLS.
McGILL		All figures are as of May 31, 1999.
	4, 16	Includes numbered monograph series and their expenditures.
	16-27	Figures reported in Canadian dollars were (16) \$2,728,487; (17) \$4,854,053; (18) \$948,989; (19) \$270,862; (20) \$8,802,391; (21) \$203,432; (22) \$3,852,168; (23) \$5,058,766; (24) \$732,203; (25) \$9,643,137; (26) \$1,010,303; (27) \$19,659,263.
	19	Includes tattletapes (Can \$18,574), bibliographic utilities/searching (Can \$136,965), Document Delivery (Can \$25,802), memberships (Can \$93,201), and appraisals (Can \$1,320).
	26	Includes capital equipment (Can \$117,403), and automation (Can\$195,278).
. • • • • • • • • • • • • • • • • • • •	38	Includes unmediated, subsidized, patron-initiated borrowing.
McMASTER		All figures are as of April 30, 1999.
	4	Figure is estimated.
•	16-27	Figures reported in Canadian dollars were (16) \$813,768; (17) \$4,675,541; (18) \$7,616; (19) \$16,408; (20) \$5,513,333; (21) \$161,966; (22) \$1,949,776; (23) \$3,598,000; (24) \$197,293; (25) \$5,745,069; (26) \$851,568; (27) \$12,271,936.
	24, 30	Includes library interns.
	26	Includes appropriated funds for bibliographic system.
MANITOBA		All figures are as of March 31, 1999.
	6	Decrease reflects the Canadian government's increased digital publication, reducing paper copies of government serials.
	10	1997–98 figure revised to 356.
•	13	Medical library removed 218 items from service.
	16-27	Expenditures reported in Canadian dollars were: (16) \$1,203,265; (17) \$3,659,204; (18) U/A; (19) \$420,943; (20) \$5,283,412; (21) \$155,709; (22) \$3,165,756; (23) \$3,873,214; (24) \$527,726; (25) \$7,566,696; (26) \$3,522,116; (27) \$16,527,933.
	18	In FY 1998 the Medical library received one-time Special Education funds resulting in a decrease for this category in FY 1999.
	45	The Master of Teaching program has been discontinued.
MARYLAND	2	Increase due to loading of retrospective government document tapes.
	6	Increase is result of enhancement funding, free print copies that accompany electronic journals, and loading retrospective Government documents.
	18-19	Increase due to revised counting methods.
	22-23	Some support staff are now classified as professional staff.



Institution	QUESTION NUMBER	NOTES
MARYLAND (cont'd)	30	Includes 22.5 FTE graduate assistants.
MASSACHUSETTS		Includes Biological Sciences, and Physical Sciences & Engineering libraries.
	37	Decrease due to use of GET function by 5-College consortium partners.
MIT		Includes all divisional and on-campus branch libraries and the MIT Archives, as well as collections in on-campus and off-site storage facilities.
	1-3, 6-8	Includes Government documents.
	19	Includes literature searching (\$48,869), postage (\$54,390), and preservation microfilming (\$1,150).
	40	Increașe reflects a more accurate count.
	41	1997–98 figure revised to 955.
	43	1997–98 figure revised to 223.
	45	1997–98 figure revised to 168.
MIAMI		Includes the Architecture, Music, and Marine Science libraries.
	1	Figure represents volumes held May 31, 1999
	13	Increase due to addition of the Medical library which was not included in 1997-98.
	18	Medical library only.
	22	Excludes the director's salary.
MICHIGAN		Includes Bentlay Historical Library, William L. Clements Library, Kresge Business Library, and Law library. Excludes Dearborn Campus library and the University of Michigan-Flint library.
	1-3, 5-8	Includes Government documents.
	4	Volumes count.
	5-6	Figures for Law library are estimated.
	10, 13	Includes counts from Digital library Program.
	16-20	Figures for the William L. Clements Library are estimated.
	17	Includes microform serials.
	18	Increase due to Law library's commitment to convert volumes into microforms instead of storing them off-site.
	22	Includes wages for librarians only.
	23	Includes wages for Professional/Administrative and Clerical categories. Increase due to effort to improve Support staff salaries.
	40	Includes PhD fields only; professional degrees and individualized program degrees are excluded.
MICHIGAN STATE		Excludes the Detroit College of Law library on the Michigan State University campus.
	5-7	Includes monographic series that cannot be disaggregated.



Institution	QUESTION NUMBER	NOTES
MICHIGAN STATE (cont'd)	11	Increase due to the addition of several new collections and improved organization which resulted in a more accurate count.
	17	Includes expenditures for monographic series that cannot be disaggregated.
	18	Included in Monograph expenditures (16) and Current serials expenditures (17).
	24	Includes grant and revenue accounts.
	34	Decrease because of inability to exclude directional questions for the first time.
	35-36	Figures reflect totals for August 1998-June 1999. July 1998 and part of August 1998 were on NOTIS and the statistics were not calculated.
	40	Subfields are included in the count for the first time. Information is reported in more detail to the State of Michigan. The same figures will be used for all requests for statistics.
MINNESOTA		Excludes branch campus libraries at Duluth, Morris, and Crookston.
	4	Figure reflects titles, not volumes.
	9	Government documents reduced by 236,744 physical units added by OPAC. Figures not reduced in previous years when count was included in cataloged volumes.
	11	Does not include 4,050 cubic feet of Relia.
	13-15	Individual counts unavailable. Total Audiovisual is 805,027.
	26	Includes one-time cost for remodeling of \$117,941.
	34	Figure represents a combination of actual counting and sampling.
	41	Count not available. Figure is from 1997–98.
MISSOURI	9	Decrease due to 12,448 Government documents that were recataloged as regular volumes when adding them to OPAC,
	17	Includes \$517,907 for databases from University wide systems office.
	22	Includes \$178,125 from UM Library Systems Office for OPAC.
·	23	Includes \$9,877 from UM Library Systems Office for OPAC.
	26	Includes \$141,177 from UM Library Systems Office for OPAC.
	32-33	Figures from Law library are based on sampling.
NATL. AGRICULTURAL LIBRARY		All figures are as of September 30, 1999.
		Excludes USDA field libraries.
	1-3, 5-8	Includes Government documents.
	12-15	Figures represent title counts, not piece counts.
	18	Figure represents Preservation Microfilm Masters.
	32-34	Change reflects NAL's increased emphasis on electronic presentation of information to reach larger audience and the temporary closure of training and meeting rooms for renovation and a reduction in mediated service requests
NATL. LIBRARY OF CANADA		All figures are as of March 31, 1999.
	1-4	Excludes government documents.



Institution	QUESTION NUMBER	NOTES
NATL. LIBRARY OF CANADA (cont'd)	4-5	In addition to monographs purchased, two copies of documents published in Canada are received on legal deposit.
	6	Includes all active serials (non-government, Canadian federal and provincial government, and UNESCO) that are counted as copies. The concept of "copy" is equivalent to a subscription.
	16-17	Canadian monographs and serials are received on legal deposit. Excludes materials purchased for staff as working copies.
	16-27	Expenditures reported in Canadian dollars were: (16) \$555,219; (17) \$646,495; (18) \$641,889; (19) \$79,808; (20) \$1,923,411; (21) \$6,821; (22) \$11,498,826; (23) \$8,803,925; (24) \$373,201; (25) \$20,675,952; (26) \$7,691,412; (27) \$30,297,326.
	21	Decrease reflects completion of Parish Registers binding project.
	28-31	Utilized person-years.
	34-36	A drop in patron registration due to building construction which resulted in a reduction of on-site reference and in-house use of materials.
NATL. LIBRARY OF MEDICINE		All figures are as of September 30, 1999.
	4	Figure reflects decrease in acquisitions during the implementation of a new ILS.
	34	Increase due to transition of all customer service to reference.
	38	Increase due to use of improved tracking system.
NEBRASKA	4, 9-11	Figures unavailable for Law library.
	6-7	Includes Government documents.
	13	Law library reported 0. For other libraries, figure includes only those Government documents cataloged using OCLC. Increase due to conversion of slides from a separate database to the online catalog.
	14-15	Includes only those Government documents cataloged using OCLC.
	28	Includes one 1 FTE on grant funds; one .5 FTE on a temporary one-year "dual career" appointment; and one .63 FTE on a non-tenure-track appointment
	29	Includes 2.0 FTE on grant funds.
	33	Includes students who attended Library Instruction course for credit.
NEW MEXICO		The General library, the Law library, and the Health Sciences Center library are separately funded and administered.
		Includes the following main campus libraries: Bainbridge Bunting Slide Library, Memorial Slide Library, MEC/Equity Library, Tireman Learning Materials Library, and Native American Studies Center Library.
		Excludes the following branch campus libraries: Gallup Campus, Harwood Foundation, Los Alamos Campus, Santa Fe Graduate Center, Taos Education Center, Valencia County Campus.
		Volumes held June 30, 1998 revised to 2,245,119 holdings; Tireman Learning Materials Library incorrectly reported volume count last year.
	2	Main library multiplies number of non-government document titles by conversion factor 1.2 to estimate volumes. Government document pieces are divided by 5.2 to estimate volumes.
	4	Main library and Health Sciences Center library report titles only.



Institution	QUESTION NUMBER	NOTES
NEW MEXICO (cont'd)	6	Includes Government documents for Main library. Excludes Government documents for Law and Health Sciences Center libraries.
		Main library holdings reported based on actual count by University of Iowa of government depository serials currently received.
	29	1997–98 figure revised to 185.
NEW YORK		All figures as of August 31, 1999.
		Volumes held June 30,1998 revised to 3,722,132 to reflect 8,778 volumes that were withdrawn in 1997–98.
		Includes Elmer Holmes Bobst Library, Institute of Fine Arts, Real Estate Institute, Courant Institute of Mathematical Sciences, Kriser Dental Center, Ehrman Medical Library, and the Law School library.
NEW YORK PUBLIC LIBRARY	1-3, 5-8	Includes Government documents.
	5-7	Since FY 1996-97 this figure has represented additions, not cumulative totals.
	22-23	Expenditures for salaries for both Professional and Support staff is \$19,789,934. Separate figures not available.
	28-29	The combined total for Professional and Support staff is 562 FTE.
NEW YORK STATE LIBRARY		All figures as of March 31, 1999.
		Medical and Law library statistics cannot be disaggregated from the main statistics because the Medical and Law collections are an integral part of the main library.
NORTH CAROLINA		Includes Institute of Marine Sciences library.
	1-3, 5-8	Includes Government documents.
	5	Decrease partially reflects substantial correction in holdings of East Asian Unit rather than serial cancellations.
	19	Miscellaneous library material expenditures include payments for CRL memberships.
	27	Includes \$2,477,575 in grants, trust and other special funds; excludes \$398,264 in expenditures for the Triangle Research Libraries Network from funds contributed by Ducke, North Carolina State and North Carolina Central Universities.
	28-31	Excludes 4.0 FTE paid from funds contributed by Duke, North Carolina State, and North Carolina Central Universities for support of the Triangle Research Libraries Network.
NORTH CAROLINA STATE		Includes Veterinary Medical library.
	4	Includes some monographic standing order items paid from serials funds.
	5-6	Figures reflect a shift of non-purchased and NC LIVE electronic journals from Current serials purchased (5) to Current serials not purchased (6).
	17	Includes some monographic titles that are paid from serials funds.
		Excludes expenditures for electronic resources as part of NC LIVE consortium.
	19	Includes bibliographic utilities (\$167,905), Document Delivery (\$43,476), and memberships (\$176,386).
	39	Reflects change to NCES Classification of Instructional Programs system.
	41	Figure represents Fall 1998 figures.
		4 0 0



Institution	QUESTION NUMBER	NOTES
NORTHWESTERN		All figures are as of August 31, 1999.
		Includes Science and Engineering, Math and Geology libraries as well as Law, Health Sciences, and Schaffner (business) branch campus libraries.
	1-3	Includes Government documents.
	11	Excludes Law and Health Sciences libraries.
	13	Excludes Health Sciences libraries.
	19	Increase due to addition of services such as EXAC and ProQuest.
NOTRE DAME		Volumes held June 30, 1998 revised to 2,644,261.
	4, 9, 11-13	Figures for the Law library are unavailable.
	13	Law library figure for Audio (14) was reported in Graphic (13) in 1997-98.
•		1997-98 figure revised to "U/A"
	14	1997-98 figure revised to 14,664.
	35-36	Figure unavailable for the university libraries due to the implementation of a new integrated Library Management System (Ex Libris Aleph).
	32	Figure unavailable for the Law library.
	33	Figure unavailable for the Law library. Main library figure is calculated as Presentations to groups (324) multiplied by 20, which is the estimated average number of attendees.
ОНІО		Includes Athens (main) campus holdings in Alden Library, the Music/Dance library, the Chemistry/Physics reading room, and the Mathematics/Computer Science reading room. Includes branch campus libraries in Chillicothe, Lancaster, Ironton, St. Clairsville, and Zanesville.
	19	Includes Document Delivery, e-journals, membership dues, and database membership.
	24	Includes federal work-study and PACE support.
	34	Does not include non-reference questions. Previous to 1997-98 these questions were included.
OHIO STATE		Includes Agriculture; Biological Sciences/Pharmacy; Business; Education, Human Ecology, Psychology, and Social Work; Fine Arts; Geology; Health Sciences; Journalism; Law; Music/Dance; Science/Engineering; and Veterinary Medicine libraries.
		Excludes branch libraries at the Lima, Mansfield, Marion, and Newark Regional campuses, the Agricultural Technical Institute, and the Ohio Agricultural Research and Development Center in Wooster.
	5	Now includes serials that are received as part of paid memberships.
	14	Includes Audio, Film, and Video.
	18-19	Figure represents expenses for the Health Sciences and Law libraries only.
	37-38	Includes materials loaned and borrowed via the OhioLINK statewide system.
OKLAHOMA		Volumes held June 30, 1998 revised to 4,049,963.
	2	1997-98 figure revised 75,092.



Institution	QUESTION NUMBER	NOTES
OKLAHOMA (cont'd)	3	1997-98 figure revised to 57,047.
OKLAHOMA STATE		Includes Architecture, Curriculum Materials, Edmon Low, Patent and Trademark, and Veterinary Medicine libraries.
		Includes OSU technical branches in Oklahoma City and Okmulgee and OSU's College of Osteopathic Medicine in Tulsa.
		During FY99 the university assumed administrative responsibility for another Tulsa campus, known as OSU-Tulsa. The addition of the holdings of this library, together with its services, staff and expenditures, account for many of the significant increases in this year's report.
	5-7	Present online acquisitions system does not make the distinction between serials that are purchased and those that are received as gifts.
OREGON	18	Formats are included under monographic or serials expenditures (16 $\&$ 17) and cannot be disaggregated.
	19	Includes computer files and search services (\$252,678); Document Delivery, ILL, postage & freight (\$12,253); automated system maintenance (\$144,725); bibliographic utilities, networks, and consortia (\$197,036).
	26	Includes all other automated system hardware and software; all other supplies, services, and equipment.
· ·	37-38	Increase due to implementation of Orbis (consortium) patron-initiated borrowing.
PENNSYLVANIA	7	Includes electronic journals acquired as part of aggregated packages, such as Muse and JSTOR.
	17	Includes expenditures for licensed network databases.
	26	Includes one-time expenditures for building renovations.
PENNSYLVANIA STATE		Includes main campus and branches at Abington-Ogontz, Allentown, Altoona, Beaver, Delaware, DuBois, Fayette, Hazleton, McKeesport, Mont Alto, New Kensington, Penn State Erie, Penn State Great Valley, Penn State Harrisburg, Schuylkill, Shenango Valley, Wilkes-Barre, Worthington-Scranton, and York, unless specified otherwise.
		1997–98 was the first year that the Law library (Dickinson School of Law) statistics were included.
	4	7,774 reported by Law library.
	5-7	Government Documents are included in count of current serials for main campus and Medical library only.
	34	Figure derived from sampling for Main campus and Law library only (extrapolation used: 41.2987); actual number reported for branch campuses and Medical library.
PITTSBURGH		Volumes held June 30, 1998 revised to 3,910,024 due to errors in East Asian and Steven Foster collections report.
		Includes branch campus libraries at Bradford, Greensburg, Johnstown, and Titusville.
	2	Several libraries withdrew volumes due to electronic access.
	9	Increase due to expanded collection in Law library.
	18	Increase due to change in Law library allocation method.
	19	Decrease due to change in counting method.



Institution	QUESTION NUMBER	NOTES
PRINCETON	37	1997–98 figure revised to 11,260.
	38	1997–98 figure revised to 17,479.
PURDUE		Excludes branch campuses at Purdue North Central in Westville, Purdue Calumet in Hammond, and Purdue Fort Wayne in Ft. Wayne.
·	1-3	Includes cataloged Government documents.
	4	Excludes volumes purchased on sponsored research programs.
	5-7	Excludes some numbered monographic series. Increase reflects improved count of electronic serials.
	6	Includes cataloged depository, exchange, and gift serials.
	12	Decrease due to weeding of the aerial photo collection.
	16-17	Expenditures for electronic serials are now included in (17). Prior to 1998-99, these expenditures were included in (16).
	18	Expenditures for these materials are included in Monograph expenditures (16) and Serial expenditures (17), and cannot be disaggregated.
	26	Decrease reflects FY 97-98 purchase of software and hardware for new integrated online system.
	32-33	Instructional program includes one asynchronous course, Information Strategies, offered over the web for distance learning. (32) includes the 16 sessions this class would have met had it been a traditional, classroom course. (33) includes the 16 students who completed the asynchronous course. Excludes 4 students who did not complete the course.
		Excludes 574 users of on-line interactive tutorial, CORE+.
	42	1997–98 figure revised to 31,896.
	43	1997–98 figure revised to 5,551.
	44	1997–98 figure revised to 4,493.
	45	1997–98 figure revised to 2,104.
QUEEN'S		All figures are as of April 30, 1999.
	1-15	Excludes Government documents.
	3	Decrease due to a large number of volumes withdrawn as the result of a one-time special effort to merge ten branch libraries into a central library with the removal of duplicate volumes.
	4	Purchased volumes received.
	7	Figure reflects titles received.
	13	Excludes Education library.
	16-27	Expenditures reported in Canadian dollars were: (16) \$1,449,905; (17) \$4,913,691; (18) \$15,441; (19) \$87,736; (20) \$6,466,773; (21) \$159,714; (22) \$2,226,912; (23) \$4,103,808; (24) \$342,725; (25) \$6,673,445; (26) \$754,985; (27) \$14,054,917.
	17	Includes microforms.
	18	Includes audiovisual materials only.
	19	Includes Document Delivery services.
	28	Includes 1.0 FTE librarian contract position paid on soft money, not operating funds.



Institution	QUESTION NUMBER	NOTES
QUEEN'S (cont'd)	42	All ranks combined, including deans but excluding pre-clinical and clinical instructors.
	43-46	Enrollments as of November 1, 1998.
	44	1997–98 figure revised to 2,388.
	45	Excludes interns, residents, and fellows.
RICE		Volume count erroneously reported as bibliographic in previous years.
	11	Manuscripts and archives reported in cubic feet.
	19	Includes memberships (\$39,299), ILL (\$89,128), CRL (\$35,031), and bibliographic utilities (\$93,304).
	22-23	Includes salary expenditures for contract/project labor.
	36	Remote renewal feature introduced in FY99.
	38-39	Excludes fee-based, off-campus, information-delivery operation.
ROCHESTER		Volume count for June 30, 1998 revised to 2,992,048 due to adjusted count for Sibley Music Library.
	5	Includes 490 e-journals for River Campus libraries.
· — · · · · · · · · · · · · · · · · · ·	6	Figure unavailable for Sibley Music Library.
	9, 11	Excludes Sibley Music Library.
	12	1997-98 figure revised to 98,941.
	13	Edward G. Miner Library only.
	14	Excludes Edward G. Miner Library.
	16	Includes monograph series for River Campus libraries.
	18	Excludes River Campus libraries.
	19	River Campus libraries only.
	35-36	Includes River Campus reserves.
RUTGERS		Volumes held June 30, 1998 revised to 3,703,600.
		Includes two law libraries, services to a non-Rutgers medical school, and campuses in Camden, Newark, and New Brunswick.
	1,3	Includes newly cataloged Government documents.
	12-15	Total Audiovisual materials is 123,226 items.
	19	Includes memberships (\$126,966) and publications packages (\$383,100).
	25, 31	Excludes staff hired for special projects and grants.
	34	Figure based on sampling.
	35	Decrease due to change in calculation process.
	38	1997-98 figure revised to 17,848.
SASKATCHEWAN		All figures are as of April 30, 1999.
		Excludes Theological College libraries on campus that are not part of the library system.



Institution	QUESTION NUMBER	NOTES
SASKATCHEWAN (cont'd)		Includes Education, Engineering, Geology/Physics, Thorvaldson, and Veterinary Medicine branch libraries.
	1-7	Includes Government documents.
	3	Decrease due to major weeding project at two branch libraries.
	4	Figure represents titles purchased.
	9, 14	Increases due to recount of collection.
	16-27	Expenditures reported in Canadian dollars were: (16) \$1,234,048; (17) \$4,050,836; (18) U/A; (19) \$173,439; (20) \$5,458,323; (21) \$97,193; (22) \$2,275,716; (23) \$2,990,545; (24) \$274,716; (25) \$5,540,977; (26) \$1,128,925; (27) \$12,225,418.
	22	Computer programmers, technicians, and budget officers included in professional staff.
	27	Includes funding from grants and special funds.
SMITHSONIAN INSTITUTION		All figures are as of September 30, 1999.
		Branches outside Washington, DC include: Cooper-Hewitt National Design Museum, New York City; and Smithsonian Tropical Research Institute in Panama.
	1-4	As purchasing agent for all library materials for the Smithsonian Institution, Smithsonian Institution Libraries (SIL) purchases monographs and serials for some libraries that are not under SIL administration. The non-SIL libraries are located in the Hirshhorn Museum and Sculpture Garden, Woodrow Wilson International Center for Scholars, National Museum of American Art, National Portrait Gallery, and the Gustav Heye Center of the National Museum of the American Indian. Purchases for non-SIL libraries are not added to the SIL collections but the expenditures for monographs and serials are in those figures.
	2-3	Represents volumes received in the SIL branches. Microforms are not included.
		Decrease partially due to major weeding and withdrawal project by the Research Annex.
	5	Represents the number of titles, not volumes. Includes purchases for SIL and non-SIL libraries. Includes purchases for branch library at the Cultural Resources Center of the National Museum of the American Indian. The cost of purchases for non-SIL libraries is included in Monograph expenditures (16) and Serial expenditures (17).
	8	Figure given is pieces. This is the second year this category has been reported.
	9	Government documents are included in appropriate format (monograph, serial, etc.) They are not counted as a separate category.
	10, 12-15	Reporting titles. Figures reported for the first time in 1997–98. The count begins with 1998. No count has been done for the entire collection of each category prior to 1998.
	16	Includes expenditures for both print and non-print items; the amount for non-print items cannot be disaggregated from the total.
	18	Includes ILL and reformatting contracts.
	19	Includes database searching, document delivery, and OCLC.
	24	Includes salaries for five different students who worked an estimated 4.0 FTE.
	25	Actual "on-board" costs. Does not include any "lapsed salaries" due to vacancies. Lapsed salaries were reprogrammed for expenditures in other areas.



Institution	QUESTION NUMBER	NOTES
SMITHSONIAN INSTITUTION (cont'd)	26	Includes contract staff travel, training, public programs, cataloging, general, preservation and automation supplies and equipment purchases, memberships, equipment maintenance, exhibits, and miscellaneous contracts. Excludes health and medical benefits, and building maintenance. In prior years, travel, training, public programs, equipment maintenance, and exhibits were not included. Total funding from federal and private sources totaled \$8,291,410.
	32	There is no formal bibliographic instruction program. Instruction provided as needed.
	34	Includes time spent on bibliographic instruction as the need arose, for individuals or groups.
	35-36, 38	Collection in three branches were nearly inaccessible due to renovations. ILL was increased to meet patron needs.
SOUTH CAROLINA		Includes Music, Business, Mathematics, and South Caroliniana libraries.
		Does not include USC Aiken, USC Beaufort, USC Spartanburg, USC Sumter, USC Union, USC Lancaster, or USC Salkehatchie branch campus libraries.
	34	Figure based on sampling.
SOUTHERN CALIFORNIA		Includes Law library, which is an administratively separate library located on the Main campus. Includes Health Sciences library system, which is an administratively separate system and located on a separate Health Sciences Campus, except for the Dental library, which is located on Main campus.
		Basis of volume count is physical for Main and Health Sciences libraries but bibliographic for the Law library.
	9	Main campus collection only. All other Government documents are cataloged.
	12	Figure is unavailable for main campus. Figure for Law library is 54 ; Health Sciences library system is 0 .
	16-19	Figures for Main campus differ significantly from FY 1997-98 because of new accounting methods.
	19	\$477,714 reported for the Main campus includes some ILL costs, memberships, and database costs: \$45,430 reported for the Health Sciences library system includes databases from NLM; Law library figure is 0.
	34	Law library figures are based on sampling; Main campus and Health Sciences libraries use actual count.
SOUTHERN ILLINOIS		Excludes School of Medicine library in Springfield, which is not administratively part of SIU Library Affairs.
	1-3	Includes Government documents.
	4	Figure represents title count.
	5	Increase due to the addition of several full-text electronic serials.
	15	1997-98 figure revised to 5,344.
	34	Figure based on sampling.
STANFORD		Figures include Hopkins Marine Station Library.
		Medical and Law library statistics cannot be disaggregated from the main statistics because the Medical and Law collections are an integral part of the main library.

All totals reflect 1991-92 figures for the Stanford Linear Accelerator Center and 1997-98 figures for the Jackson Graduates School of Business, which have been unable to report since these respective dates.

Institution	QUESTION NUMBER	N NOTES
STANFORD (cont'd)	1-3, 5-8	Includes Government documents.
	25, 31	Increases due to growth in Highwire Press.
	27	Includes \$481,771 in grant and contract funds.
	32, 37	Decrease due to construction at Green Library.
	39	Stanford no longer counts First Professional Degrees in this category.
SUNY-ALBANY		Includes the Thomas E. Dewey Graduate Library of Public Affairs and Policy on the downtown campus.
	4	Figure reflects title count.
	10	No longer includes ICPSR datasets. Subscription gives library access to entire ICPSR database.
	19	Includes: ILL services, \$24,913; memberships, \$110,106; bibliographic utilities, \$137,219; computer-based reference services, \$90,573.
	22-23	Salary breakdown is based on percentage formula.
	25	Includes 1.0 FTE professional, 3.9 FTE support staff, and 2.2 FTE estimated student assistants in cost-recovery positions and from grants.
SUNY-BUFFALO	5	Increase due to the addition of 159 electronic subscriptions which were not counted in previous years.
	6	Increase due to the addition of 1,420 electronic serials not previously counted. This number includes titles for which we receive a paid print subsciription and some for which no print subscription is received.
	12-15	Figures are estimated.
	17	Increase is due to inclusion of electronic subscriptions, previously reported in (18).
	32-34	Figure based on sampling.
	44-45	Includes professional school enrollment.
SUNY-STONY BROOK	19	Includes bibliographic utilities, memberships, and some automation
	27	Includes income funds and grants, capital funds (\$84,119), and external funding for database back file (\$138,358). Excludes campus AV department (\$269,000).
	32-34	Figure for main library based on sampling; figure for Medical library reflects actual count.
SYRACUSE		Basis of volume count is bibliographic for the Syracuse University Library. Volume count is physical for the Law library.
	4	Includes law library.
	8-10	Figures based on estimates.
	8	Increase due to improved counting methods at Law library.
	11	Includes University Archives materials which are housed in the Syracuse University Library. Due to the physical location of the materials, in addition to the fact that Special Collections Reference staff do not distinguish between archives and special collections, the materials were counted here, which differs from previous years. Excludes Law library.
	16-17, 20, 27	Includes expenditures for volumes purchased to support programs abroad.



Institution	QUESTION NUMBER	NOTES
SYRACUSE (cont'd)	22-23, 28-29	Some Professional staff were reclassified as Support staff.
	22	Includes \$171,275 from Computing and Media Services (CMS) in professional and technical support.
	23, 29	Non-librarian supervisors are now included in support staff.
	26	Includes \$107,047 in CMS support for library-related expenditures (non-personnel).
	28-29	Includes 3.0 FTE CMS positions assigned to library support in (28). Figures no longer include open, but unfilled positions.
	34	Figure based on sampling.
	40	Excludes 207 JDs awarded by the Law School.
	44-45	Includes Law School graduate students.
TEMPLE		Volumes held June 30, 1998 revised to 2,409,965 to reflect the addition of the Charles E. Krausz Library holdings to the Health Science Center library.
		Includes Paley Library, five departmental science libraries, the Engineering and Architecture library, Zahn Library, and the Blockson African American Collection, and the Law library.
the second of th		Includes Tyler School of Art and Temple University Ambler branch campuses, and Health Sciences Center Libraries.
TENNESSEE		Volumes held June 30, 1998 revised to 2,322,723.
		Includes the Social Work branch campus library in Nashville.
	4-7	The UTK Libraries are on a new system, which has resulted in a different process for collecting these data.
	6	The 1997-98 figure did not include document serials.
	8-15	Figure reflects all holdings for branches. In 1997-98 some branches listed items added, not held.
	8	Increase reflects a recount of the collection.
	18	Decrease due to reclassification of some expenditures as regular expenditures.
	27	Includes \$144,757 from restricted accounts (e.g., endowed funds)
	35-36	Decrease due to change to a new software system and longer loan periods.
TEXAS		All figures are as of August 31, 1999 and include the General libraries, the Center for American History, the Tarlton Law Library, and the Humanities Research Center.
	4	Includes 50,104 monographic volumes purchased by the General libraries, 220 by the Center for American History, 2,078 by the Tarlton Law Library, and 1,560 by the Humanities Research Center.
	5	Includes 20,175 current serials purchased by the General libraries, 75 by the Center for American History, 6,432 by the Tarlton Law Library, and 229 by the Humanities Research Center.
	6	Includes 21,796 serials received but not purchased by the General libraries, 150 by the Center for American History, 3,622 by the Tarlton Law Library, and 57 by the Humanities Research Center.
	16	Includes expenditures for monographs of \$2,911,523 by the General libraries, \$5438 by the Center for American History, \$87,764 by the Tarlton Law Library, and \$107,231 by the Humanities Research Center.



Institution	QUESTION NUMBER	NOTES
TEXAS (cont'd)	17	Includes expenditures for current serials of \$4,863,921 by the General libraries, \$4,161 by the Center for American History, \$771,286 by the Tarlton Law Library, and \$11,504 by the Humanities Research Center.
	18	Includes expenditures for other materials of \$731,643 by the General libraries, $$18,030$ by the Center for American History, $$77,193$ by the Tarlton Law Library, and $$535,379$ by the Humanities Research Center.
	19	Includes expenditures for miscellaneous materials of \$2,474 by the General libraries, \$20,658 by the Center for American History, and \$17,846 by the Tarlton Law Library.
	20	Includes total expenditures for library materials of \$8,509,559 by the General libraries, \$48,287 by the Center for American History, \$954,089 by the Tarlton Law Library, and \$654,114 by the Humanities Research Center.
	24	Includes federal work-study funds.
	31	Includes 1.5 FTE staff hired on grant funds.
	39	Includes EdD degrees.
TEXAS A&M		All figures are as of August 31, 1999.
		Medical library is a separate academic entity.
		Includes Business and Agricultural library, the Technical Reference Center (TRS) for Architecture, and a branch library at Galveston.
	6	Figure is estimated.
	9	Figures unavailable for branch libraries.
	13	Count corrected from 1997-98 reported figure.
	26	Operating expenditures does not include one-time furnishings expenditures reported in $1997-98$ data.
	28	Includes librarians, other faculty, several categories of non-librarian professionals, and graduate assistants.
	34	Decrease due to change in method of counting, relocation of reference service point during major renovation of main library, and increased remote access to databases.
	35-36	Figure includes in-house use (pickup statistics).
	39-45	Official University IPEDS reported data.
TEXAS TECH		All figures as of August 31, 1999.
		Includes Health Science libraries at the Amarillo-Harrington, El Paso, and Odessa branch campuses. Includes Architecture Branch.
	1	Used formula of "10 traditional volumes per foot" to calculate Government documents at the Main library.
	5	Increase in number of current serials purchased due to counting electronic serial titles acquired as part of an aggregate package.
	13	Increase due to the acquisition of the LaVentana collection.
		Includes: Reference Update (\$6,341); OVID (\$21,775); Micromedex (\$62,337); Icybertools (\$38,760); AMIGOS (\$14,297); MD Consult (\$1,867); Computer Equiptment (\$11,114); Computer Software(\$310); Equiptment (\$2,696); Continuations (\$81,687); Interlibrary Loan (\$56,368).
	34	Excludes Law library.
	44-45	Excludes Health Sciences library.



INSTITUTION QUESTION **NOTES** NUMBER All figures are as of April 30, 1999. **TORONTO** Includes all University of Toronto libraries. Main campus libraries include Architecture, Astronomy, Business, Chemistry, Criminology, Dentistry, Earth Sciences, Education (OISE), Engineering and Computer Science, Fine Art, Industrial Relations, Innis College, Law, Music, New College, OISE/UT, Physics, St. Michael's College, Trinity College, University College, Victoria College and Zoology. Also includes Erindale and Scarborough campus libraries. The federated libraries budgets are under the authority of the University President and the libraries are located on the UT campus. In 1998–99 Computer Science library merged with Engineering library to form Engineering and Computer Sciences library. As of May 1, 1998, Mathematics library was administered by Central library and was renamed Mathematical Sciences library. Volumes held June 30, 1998 revised to 8,477,132 due to recount and relocation of materials. Includes monographic series and Government documents. 1-4 Serial subscriptions include licensed electronic journals. 5-7 Increase due to purchase of fine arts graphics slides collection. 13 Expenditures reported in Canadian dollars: (16) \$8,191,564; (17) \$10.123.095; (18) 16-27. 2,311,063; (19) U/A; (20) \$20,625,722; (21) \$420,450; (22) \$10,743,977; (23) \$12,980,688; (24) \$2,883,772; (25) \$26,608,437; (26) \$6,259,180; (27) \$53,913,789. Included in monograph expenditures (16) and serials expenditures (17). 19 Excludes fringe benefits (Can \$4,432,432). 22-25 Excludes Restricted Funds (Can \$122,222). 26 Figures reported for total library system. 32-34 Includes on the Uptown campus: Main, Law, Business, and the Women's Center TULANE library. Also includes the Medical library on the downtown campus. Decrease due to the separation of serials from standing orders for the first time by the 7 Main library. Decrease due to a combination of less-reported expenditures on Other library materials 27 (18) and Other operating expenses (26). Decrease due to multiple professional and support staff vacancies and fewer student 31 workers. **UTAH** 4 Figure for Medical library is 2,412. Includes Law library for the first time. 5.7 Increase due to re-inventory. 11 Includes libraries 2000 and Higher Education Technology Initiative funding for the 19 first time. Increase due to a large number of students who did not register for sufficient credit-43,45 hours after conversion to semester system.



VANDERBILT

Main campus libraries included are: Biomedical, Central, Science and Engineering,

Divinity, Education, Management, Music, Law, Special Collections, and University

Archives.

Institution	QUESTION NUMBER	NOTES
VANDERBILT (cont'd)	41	Figure reflects a substantial decrease in clinical faculty.
VIRGINIA		Excludes the University of Virginia's College at Wise.
		Volumes held June 30, 1998 revised to 4,514,746 in order to correct a miscount by the Health Science library .
	5-7	Includes Government document serials. Includes monographic series in the Health Sciences and Law libraries.
	8	Includes Government documents in microformats.
	9	Includes all U.S., international, and Virginia state documents in separate documents collections, excluding those represented by OPAC records.
	22-25	Includes fringe benefits.
VIRGINIA TECH	9	Effective February 1996, no retention in SuDocs; all documents cataloged.
	11	Increase due to the use of more accurate counting methods.
	16	Includes firm order approval and blanket-order monographs.
	18	Includes only AV and microformats; electronic resources reported in Serials expenditures (17).
	19	Includes bibliographic utilities, literature searching, membership dues (ARL, CNI, CRL), interlibrary loans, postage and handling, and VPI dissertation filming.
WASHINGTON		Medical library includes: Social Work library, Harborview Medical Center library, and National Network/ Libraries of Medicine (Regional Medical library).
		Excludes Bothell and Tacoma branch campuses.
	4-7, 9-15	Excludes Law library.
	18	Figure available for Medical library only.
	19	Figures unavailable for Main and Law libraries.
	22	$\label{thm:professional staff} Professional\ staff\ for\ Law\ library\ includes\ all\ librarians\ (including\ Head\ Law\ librarian)\ and\ professional\ staff.$
	28	Includes Head Law librarian (Faculty Status) 1.00 FTE, 1.95 FTE part-time librarians, and 2.00 FTE professional staff.
	34	Figure available for Medical library only.
	35	22,404 for main library only.
	39-45	Excludes Law library.
	23	1997-98 figure revised to \$4,714,409.
	25	1997-98 figure revised to \$11,036,007.
	27	1997-98 figure revised to \$19,699,826.
WASHINGTON STATE		Includes Holland Library, Owen Science and Engineering Library, Brain Education Library, Architecture library, Fischer Agricultural Sciences Library, Veterinary Medical/Pharmacy library. Includes branch campuses at Spokane, Tri-Cities, Vancouver, the Intercollegiate
		Center for Nursing Education (Spokane), and the WSU Energy library in Olympia.



INSTITUTION	QUESTION NUMBER	NOTES
WASHINGTON STATE (cont'd)	12-15	Figures include Manuscripts, Archives, and Special Collection items in addition to the Media Materials Services collection.
	16-27	Figures includes expenditures for CD-ROMs, microforms, Manuscripts and Archives, and Special Collection items.
	18	Includes Media Materials Services films, videos, and compact discs.
	19	Includes CRL membership dues.
WASHINGTON U ST. LOUIS	5-7	Government documents are not included in serial count for Central library but are included for Medical and Law libraries. Separate figures not available for Law library for (5) and (6).
	10	Incorrect figure reported in FY98 for Government Publications. Actual figure is approximately 2,000 lower than figure reported.
	19	Separate figures not available for Law and Social Work libraries. Reduction in FY99 expenditures is a result of prepayment for OCLC and FirstSearch charges from the FY98 budget that were not used until FY99.
	22-25, 31	Includes telecommunications staff in Medical library (paid from library budget). Staff reports to the Director of the Medical library. Excludes Information Resources staff in Law library.
a e	22	Law library figure for FY 98 revised to 344,993 from 268,470 previously reported.
	23	Law library figure for FY 98 revised to 201,603 from 325,107 previously reported.
	25	Law library figure for FY 98 revised to 650,005 from 696,986 previously reported.
	26	Excludes $$1,813,378$ in fringe benefits. Includes $$2,352,959$ building expenses charged to the library's budget.
	32	Figures not available for Business library.
	34	Figures not available for Business library. Based on sampling for Central library but actual count for Medical and Law libraries.
	37	Includes 1,509 items provided to MOBIUS Consortium.
	38	Includes 1,531 items received from MOBIUS Consortium.
WATERLOO		All figures are as of April 30, 1999.
	16-27	Expenditures reported in Canadian dollars were: (16) \$1,059,888; (17) \$3,370,525; (18) U/A; (19) \$449,248; (20) 4,879,661; (21) \$85,287; (22) \$2,203,558; (23) \$3,142,391; (24) \$455,151; (25) \$5,801,100; (26) \$870,716; (27) \$11,636,764.
	28	Some support staff have been reclassified as professional staff
	35-38	ILL with the University of Guelph cannot be dissagregated from circulation figures since the TUG consortium went on-line.
	38	Includes counts for Document Delivery received from CISTI.
WAYNE STATE		All figures are as of September 30, 1999.
		Includes Reuther Archives of Labor and Urban Affairs.
		Medical and Law library statistics cannot be disaggregated from the main statistics because the Medical and Law collections are an integral part of the main library.
	1-7	Includes Government documents.



Institution	QUESTION NUMBER	NOTES
WAYNE STATE (cont'd)	5-7	The serials count is taken from the online system and reflects an adjustment from prior years' estimates. The system does not currently provide a count of purchased vs. not purchased serials.
	11, 13, 34	Figures are estimated.
	18	Figure cannot be disaggregated from Monograph expenditures (16) and Serials expenditures (17).
	39	Includes EdD degrees.
WESTERN ONTARIO		All figures are as of April 30, 1999.
		Volumes held June 30, 1998 revised to 2,295,893 to include 3,608 bound periodicals which had not been counted.
	16-27	Expenditures reported in Canadian dollars were: (16) \$1,512,896; (17) \$5,432,947; (18) U/A; (19) \$560,940; (20) \$7,506,783; (21) \$184,792; (22) U/A; (23)U/A; (24) u/a; (25) \$6,987,536; (26) \$595,338; (27) \$15,274,449.
	36	Includes circulation of reserve material.
	43	Figure reported is FTE. The actual number is 4,012.
	45	Figured reported is FTE. The actual number is 426.
WISCONSIN		Includes the libraries of the General library System: Memorial, College-Undergraduate, Music, Art, Business, Social Science, Geography, Social Work, Biology, Chemistry, Geology, Mathematics, and Physics libraries.
		Includes the Steenbock Agricultural and Life Sciences Library, the Wendt Engineering Library, the Middleton Health Sciences and Pharmacy Libraries, the School of Education library, the Law library, the School of Library and Information Studies library, and the Primate, Map, and Plant Pathology departmental libraries.
		Volumes held June 30, 1998 revised to 5,900,418.
	1	Includes maps not included in Cartographic (12).
	5-6	Excludes electronic serials.
	5-9	Some Government document serials that are assigned Library of Congress numbers are included in Current serials.
	11	Includes the Health Science collection which was not previously reported.
	17	Excludes electronic serials expenditures. These expenditures are included in Miscellaneous expenditures (19).
	32-33	Excludes 6,700 uses of self-instructional CAI program.
	34	Figure based on sampling.
YALE	5,7	Serials title data for the Law library was under-represented in previous years.
	8	Revised figure to correct error made in FY96/97 submission involving the microform collection of the Law library.
	43, 45	Decrease due to change in counting part-time students.
YORK		All figures are as of April 30, 1999.
		Includes Glendon Campus.
	2-3	Increase is a result of large donation.



]	INSTITUTION	QUESTION NUMBER	NOTES
,	ORK (cont'd)	13	Includes additional holdings of 1,148 linear feet.
		16-27	Expenditures reported in Canadian dollars were: (16) \$1,642,573; (17) \$4,392,859; (18) \$111,444; (19) \$144,937; (20) \$6,291,813; (21) \$202,588; (22) \$3,715,025; (23) \$4,217,898; (24) \$715,918; (25) \$8,648,841; (26) \$1,830,347; (27) \$16,973,589.
		26-27	Includes Gifts-in-Kind donations as both revenue and expense.



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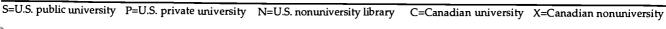
APPENDIX A

ARL MEMBER LIBRARIES

The Association of Research Libraries (ARL) represents the interests of 121 libraries that serve major North American research institutions. ARL operates as a forum for the exchange of ideas and as an agent for collective action to influence the forces affecting the ability of these libraries to meet the future needs of scholarship. The ARL Statistics and Measurement program is organized around identifying, collecting, analyzing, and distributing quantifiable information describing the characteristics of research libraries. The program offers publications and special member services, and collaborates with other national and international library statistics programs. Data collected include salaries, library holdings, expenditures, staff, interlibrary lending, and preservation activities.

The members of the Association are:

Institution	<u>Category</u>	Full Name of Institution	<u>Location</u>
Alabama	S	University of Alabama	Tuscaloosa, Alabama
Alberta	С	University of Alberta	Edmonton, Alberta
Arizona	S	University of Arizona	Tucson, Arizona
Arizona State	S	Arizona State University	Tempe, Arizona
Auburn	S	Auburn University	Auburn, Alabama
Boston	P	Boston University	Boston, Massachusetts
Brigham Young	P	Brigham Young University	Provo, Utah
British Columbia	С	University of British Columbia	Vancouver, British Columbia
Brown	P	Brown University	Providence, Rhode Island
California, Berkeley	S	University of California, Berkeley	Berkeley, California
California, Davis	S	University of California, Davis	Davis, California
California, Irvine	S	University of California, Irvine	Irvine, California
California, Los Angeles	S	University of California, Los Angeles	Los Angeles, California
California, Riverside	S	University of California, Riverside	Riverside, California
California, San Diego	S	University of California, San Diego	La Jolla, California
California, Santa Barbara	S	University of California, Santa Barbara	Santa Barbara, California
Case Western Reserve	P	Case Western Reserve University	Cleveland, Ohio
Chicago	P	University of Chicago	Chicago, Illinois
Cincinnati		University of Cincinnati	Cincinnati, Ohio
Colorado	S S	University of Colorado	Boulder, Colorado
Colorado State	S	Colorado State University	Fort Collins, Colorado
Columbia	P	Columbia University	New York, New York
Connecticut	S	University of Connecticut	Storrs, Connecticut
Cornell	P	Cornell University	Ithaca, New York
Dartmouth	P	Dartmouth College	Hanover, New Hampshire
Delaware	S	University of Delaware	Newark, Delaware
Duke	P	Duke University	Durham, North Carolina
Emory	P	Emory University	Atlanta, Georgia
Florida	S	University of Florida	
Florida State	S	Florida State University	Gainesville, Florida
George Washington	P	George Washington University	Tallahassee, Florida
Georgetown	P	Georgetown University	Washington, D.C. Washington, D.C.
Georgia	S	University of Georgia	
Georgia Tech	S	Georgia Institute of Technology	Atlanta Coorgia
Guelph	Ċ	University of Guelph	Atlanta, Georgia Guelph, Ontario
Harvard	P	Harvard University	Cambridge, Massachusetts
Hawaii	S	University of Hawaii	Honolulu, Hawaii
Houston	S	University of Houston	
Howard	P	Howard University	Houston, Texas
Illinois, Chicago	S	University of Illinois at Chicago	Washington, D.C. Chicago, Illinois
Illinois, Urbana	S	University of Illinois at Urbana	Urbana, Illinois
Indiana	Š	Indiana University	
Iowa	Š	University of Iowa	Bloomington, Indiana
Iowa State	S	Iowa State University	Iowa City, Iowa
Johns Hopkins	P		Ames, Iowa
Kansas	s	Johns Hopkins University University of Kansas	Baltimore, Maryland
Kent State	Š	Kent State University	Lawrence, Kansas
Kentucky	S	University of Kentucky	Kent, Ohio
Laval	Č	Laval University	Lexington, Kentucky
Louisiana State	S	Louisiana State University	Quebec
McGill	Č	McGill University	Baton Rouge, Louisiana
McMaster	C C C	McMaster University	Montreal, Quebec
Manitoba	č	University of Manitoba	Hamilton, Ontario
Maryland	Š	University of Maryland	Winnipeg, Manitoba
Massachusetts	S	University of Massachusetts	College Park, Maryland
MIT	P	Massachusetts Institute of Technology	Amherst, Massachusetts Cambridge, Massachusetts





Institution	<u>Category</u>	Full Name of Institution	Location
Miami	P	University of Miami	Coral Gables, Florida
Michigan	S	University of Michigan	Ann Arbor, Michigan
Michigan State	S	Michigan State University	East Lansing, Michigan
Minnesota	S	University of Minnesota	Minneapolis, Minnesota
Missouri	S	University of Missouri	Columbia, Missouri
Nebraska	S	University of Nebraska-Lincoln	Lincoln, Nebraska
New Mexico	S	University of New Mexico	Albuquerque, New Mexico
New York	P	New York University	New York, New York
North Carolina	S	University of North Carolina	Chapel Hill, North Carolina
North Carolina State	S	North Carolina State University	Raleigh, North Carolina
Northwestern	P	Northwestern University	Evanston, Illinois
Notre Dame	P	University of Notre Dame	Notre Dame, Indiana
Ohio	S S S	Ohio University	Athens, Ohio
Ohio State	5	Ohio State University	Columbus, Ohio Norman, Oklahoma
Oklahoma	5	University of Oklahoma	Stillwater, Oklahoma
Oklahoma State	S S	Oklahoma State University	Eugene, Oregon
Oregon	P P	University of Oregon	Philadelphia, Pennsylvania
Pennsylvania	S S	University of Pennsylvania Pennsylvania State University	University Park, Pennsylvania
Pennsylvania State	S	University of Pittsburgh	Pittsburgh, Pennsylvania
Pittsburgh Princeton	P	Princeton University	Princeton, New Jersey
Purdue	S	Purdue University	West Lafayette, Indiana
Queen's	Č	Queen's University	Kingston, Ontario
Rice	P	Rice University	Houston, Texas
Rochester	P	University of Rochester	Rochester, New York
Rutgers	S	Rutgers University	New Brunswick, New Jersey
Saskatchewan	Ċ	University of Saskatchewan	Saskatoon, Saskatchewan
South Carolina	S	University of South Carolina	Columbia, South Carolina
Southern California	P	University of Southern California	Los Angeles, California
Southern Illinois	S =	Southern Illinois University	_Carbondale, Illinois
Stanford	P	Stanford University	Stanford, California
SUNY-Albany	S	State University of New York at Albany	Albany, New York
SUNY-Buffalo	S	State University of New York at Buffalo	Buffalo, New York
SUNY-Stony Brook	S	State University of New York at Stony Brook	Stony Brook, New York
Syracuse	P	Syracuse University	Syracuse, New York
<u>T</u> emple	S	Temple University	Philadelphia, Pennsylvania
Tennessee	S	University of Tennessee	Knoxville, Tennessee
Texas	S	University of Texas	Austin, Texas College Station, Texas
Texas A&M	S S	Texas A&M University	Lubbock, Texas
Texas Tech	C	Texas Tech University of Toronto	Toronto, Ontario
Toronto Tulane	P	Tulane University	New Orleans, Louisiana
Utah	S	University of Utah	Salt Lake City, Utah
Vanderbilt	P	Vanderbilt University	Nashville, Tennessee
Virginia	S	University of Virginia	Charlottesville, Virginia
VPI & SU	Š	Virginia Polytechnic Institute & State University	Blacksburg, Virginia
Washington	Š	University of Washington	Seattle, Washington
Washington State	S	Washington State University	Pullman, Washington
Washington USt. Louis	P	Washington University	St. Louis, Missouri
Waterloo	С	University of Waterloo	Waterloo, Ontario
Wayne State	S	Wayne State University	Detroit, Michigan
Western Ontario	C	University of Western Ontario	London, Ontario
Wisconsin	S	University of Wisconsin	Madison, Wisconsin
Yale	P	Yale University	New Haven, Connecticut
York	С	York University	North York, Ontario
Boston Public Library	N	Boston Public Library	Boston, Massachusetts
Canada Inst. SciTech Info.	X	Canada Inst. for Scientific & Technical Information	Ottawa, Ontario
Center for Research Libs.	N	Center for Research Libraries	Chicago, Illinois
Library of Congress	N	Library of Congress	Washington, D.C.
Natl. Agricultural Lib.	N	National Agricultural Library	Beltsville, Maryland
Natl. Library of Canada	X	National Library of Canada	Ottawa, Ontario
Natl. Library of Medicine	N	National Library of Medicine	Bethesda, Maryland
New York Public Library	N	New York Public Library	New York, New York
New York State Library	N	New York State Library	Albany, New York
Smithsonian Institution	N	Smithsonian Institution	Washington, D.C.



APPENDIX B

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ARL Statistics and Measurement Program PUBLICATIONS AND SERVICES http://www.arl.org/

ARL Academic Law and Medical Library Statistics

ISSN 1088-1093 • Back issues are available • Standing order: \$79 (\$39 ARL members)
Yearly report of data for collections' size and growth, materials and operating expenditures, staffing, and public service activities in ARL university law and medical libraries. Includes comparisons to the larger research collections at each university.

ARL Annual Salary Survey

ISSN 0361-5669 • Back issues are available • Standing order: \$79 (\$39 ARL members)
Annual compilation of data on beginning, median, and average salaries by race, sex, years of experience, geographic region, and professional position for research, university, law, and medical libraries. Data covers over 12,000 employees in ARL member libraries.

ARL Preservation Statistics

ISSN 1050-7442 • Back issues are available • Standing order: \$65 (\$35 ARL members)
Annual compilation of data on current levels of preservation efforts and reports on the key organizational, functional, and fiscal components comprising ARL preservation programs.

Developing Indicators for Academic Library Performance: Ratios from the ARL Statistics ISSN 1084-9459 • Back issues are available • Standing order: \$50 (\$25 ARL members) Presents 30 selected ratios that describe changes in internal library operations, as well as resources per faculty and per student, for ARL university libraries over a two-year period.

User Surveys in Academic Libraries

This workshop presents the basic concepts and steps for conducting a user survey: defining objectives, sampling, measurement scales, logistics, data analysis, and report writing.

Electronic Publishing of Data Sets on the World Wide Web

This three-day workshop is designed for librarians, information professionals, and educators. It provides hands-on experience in developing interfaces for publishing and analyzing social, economic, and other numeric data sets on the WWW.

Customized Services

For any dataset produced by ARL, one can request comparative institutional data and ARL will perform the analysis and provide tables and reports in the format best suited to the need.

For more information on any of these products or services, please contact Martha Kyrillidou, Senior Program Officer for Statistics and Measurement, at 202-296-2296 or email <martha@arl.org>





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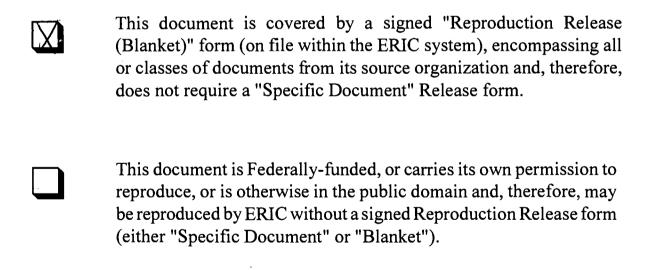
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