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ABSTRACT

This report presents data compiled from the 117 libraries that were members of the Association of Research Libraries (ARL) during the 1982/83 academic year, as well as an examination of data for trends in expenditures for the previous 15 years from the 75 academic libraries that were members throughout those years. Information includes data from four libraries that joined ARL in 1982-83: Delaware, Georgia Institute of Technology, and North Carolina State, and the non-university Canada Institute for Scientific and Technical Information. A guide to library code numbers provides a complete list of ARL members. Research library resources, staffing, expenditures, and interlibrary loan activity are covered in the report's data tables. Further report sections include an analysis of selected variables; Ph.D. and enrollment statistics; the ARL Library Index, a summary of rank order tables for ARL university libraries; and the rank order tables for volumes in library, volumes added (gross), microform holdings, current serials, professional staff, nonprofessional staff, total staff, materials expenditures, materials and binding expenditures, salaries and wages expenditures, total operating expenditures, total items loaned, total items borrowed, and current serials expenditures. A copy of the ARL Statistics Questionnaire is included. (LMM)

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ARL STATISTICS

1982-83

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

Compiled by
Carol A. Mandel
and
Alexander Lichtenstein

ASSOCIATION OF RESEARCH LIBRARIES
WASHINGTON, D.C.
1984

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INTRODUCTION

The 1982-83 ARL Statistics presents data compiled from the 117 research libraries that were members of the Association during the 1982-83 fiscal year. Four libraries joined ARL in 1982-83: three university libraries—Delaware, Georgia Institute of Technology, and North Carolina State—and one non-university library—the Canada Institute for Scientific and Technical Information. Reports from these libraries are included in the Statistics for the first time this year. With these additions the ARL membership consists of 104 university libraries and 13 public, governmental, and private research collections. A complete list of ARL members is provided in the "Guide to Library Code Numbers," page 9a.

The tables presented in the Statistics describe research library resources, interlibrary loans, expenditures, and staffing in fiscal 1983, as well as university enrollments, Ph.D.'s awarded, and Ph.D. fields. To obtain a longer perspective on expenditure trends in the ARL, an analysis was performed on data for the past 15 years from the 75 academic libraries that have been members throughout these years. William Baumol has recently described the unfortunate impact on libraries of the continuing inflation of the 1970's and 1980's.¹ "Per unit expenditures, rather than outpacing the rate of inflation, have tended to lag behind it, so that in terms of dollars of constant purchasing power the unit costs* of these [library] services have actually fallen." This concept is illustrated by the data in the following table.

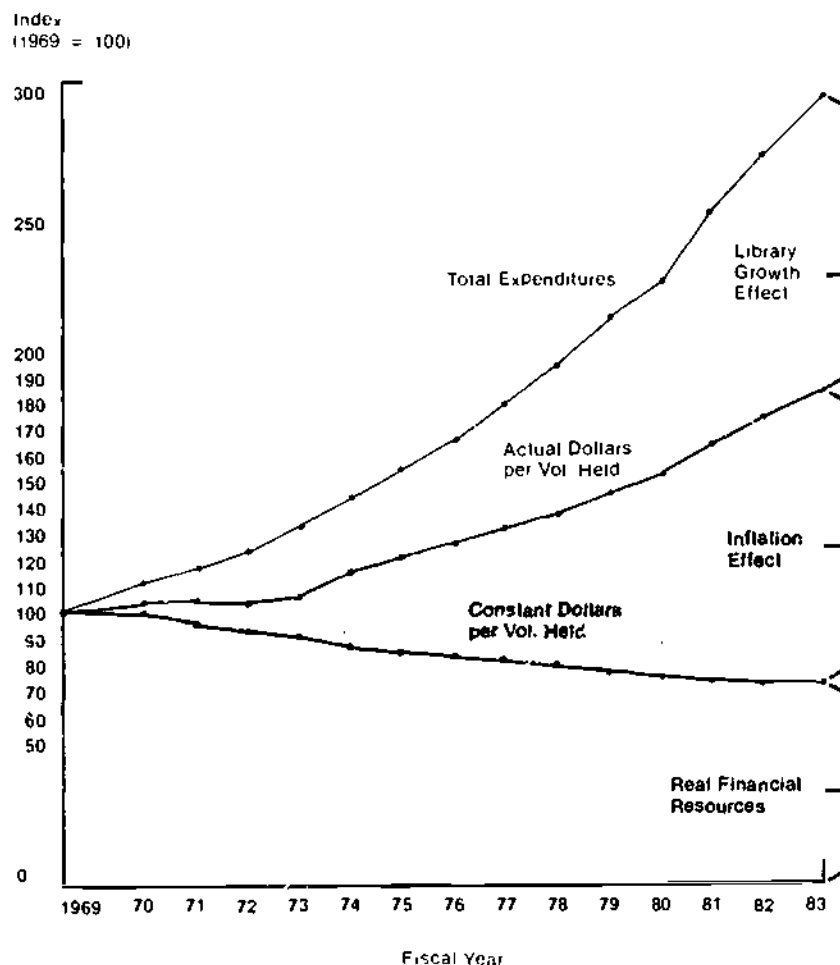
	(1)	(2)	(3)	(4)	(5)
Fiscal Year	Volumes Held (in 1,000's)	Total Library Expenditures Actual Dollars (in 1,000's)	Total Library Expenditures, Constant Dollars in 1972 Prices (in 1,000's)	Actual Dollars per Volume Held	Constant Dollars per Volume Held in 1972 Prices
1969	129,017	\$212,598	\$249,256	\$1.65	\$1.93
1970	136,658	237,432	264,892	1.74	1.94
1971	142,922	248,594	264,670	1.74	1.85
1972	148,329	256,658	261,964	1.73	1.77
1973	155,851	278,438	270,439	1.79	1.74
1974	160,823	303,685	274,122	1.89	1.70
1975	166,977	330,593	272,814	1.98	1.63
1976	171,812	357,157	274,175	2.08	1.60
1977	177,124	382,916	277,261	2.16	1.57
1978	182,877	416,818	281,225	2.28	1.54
1979	189,417	456,632	284,058	2.41	1.50
1980	193,101	487,195	281,652	2.52	1.46
1981	198,074	534,786	282,664	2.70	1.43
1982	203,756	587,423	288,027	2.88	1.41
1983	209,907	636,572	297,234	3.03	1.42

*Note: Baumol uses the terms "costs" and "expenditures" somewhat interchangeably here.

During the past 15 years the actual dollars spent by ARL university libraries (column 2) have increased by almost 200%, from \$212,598,000 in 1969 to \$636,572,000 in 1983. At the same time the economy's overall rate of inflation has risen by about 150% in the U.S. and 211% in Canada.² As a result, in dollars of constant (1972) purchasing power, adjusted for inflation (column 3), ARL library expenditures rose only from \$249,256,000 to \$297,234,000—an increase of just 19%.

Research libraries have not been static during the 15 years, however. Their needs have outpaced the dollars available to them, as we can see by looking at expenditures per unit of library operation. Baumol uses volumes held as a convenient measure of units of operation. Indeed, previous ARL studies have demonstrated the high correlations between volumes held and materials acquired, personnel, and expenditures: the more volumes a research library has, the more materials it acquires, the larger its staff, and the more expensive its operations. Total expenditures per volume held are

**Trends in ARL Library Total Expenditures:
Amount and Dollar per Volume Held in Actual and
Constant Dollars, Fiscal Years 1969-1983**



therefore a useful index of costs in ARL libraries. The data in column 4 show that in actual dollars ARL libraries were spending \$1.65 per volume held in 1969 and \$3.03 in 1983—an increase of 84%. In dollars of constant buying power (column 5), however, per unit expenditures have dropped 26%, from \$1.93 to \$1.42. As Baumol says, the expenditures per unit of ARL libraries have declined, as they have been forced "to adopt cutbacks in service, reduce the real compensation of their staffs, and even skimp on quality."

We can look at this matter in a slightly different way through the graph on page 6, which is modeled after a graph in a recent study by D. Kent Halstead.³ Here the data from the table are converted to index numbers, with 1969 expenditures equal to 100, in order to display the percentage changes over 15 years. The top line shows how total ARL library expenditures have increased about 200%. This is an annual compounded rate of 8%. The actual dollars per volume held have risen 84%, or about 5% each year. Finally, constant dollars (adjusted for inflation) per volume held have been decreasing 2% per year, for a total decrease of 26%. In other words, since 1969 the purchasing power per unit of operation of ARL libraries has been declining by 2% each year.

The index number for constant dollars per volume now stands at about 74, 26% below its level of 100 in 1969. Inflation of 150% in the U.S. and 211% in Canada has driven up prices so that the index for actual dollars spent per volume stands at 184, or 84% above its 1969 level. Finally, ARL library size and resources deployed, as measured by volumes held, increased 63% in 15 years. This 63% rise in units of operation further increased total expenditures in actual dollars to an index figure of about 300, 200% above their level in 1969. Thus, even though ARL libraries are spending 200% more actual dollars today than in 1969, a "Library Growth Effect" and an "Inflation Effect" have combined to make their real financial resources, as measured by constant dollars per volumes held, 26% fewer than in 1969 (see graph). Not only has the 200% increase in total outlays been completely absorbed by inflation and library growth; but in terms of per unit expenditures ARL libraries today have only three-quarters of the real buying power that they had 15 years ago.

It is also informative to look at resources for libraries in the context of recent trends in higher education. Just as volumes held have been used as an index of units of operation, student enrollments can be used as a different measure. Enrollments in ARL universities increased 17% in 15 years. The actual library expenditure per student was \$167 in 1969 and \$430 in 1983—an increase of 157%. In constant dollars, however, the expenditure was \$198 in 1969 and \$204 in 1983—an increase of only 3%. It is worth noting that up through 1982 constant dollars per student were below 1969 levels. For almost all of the 15-year period, therefore, the buying power of ARL libraries in support of university students has stayed more or less the same. Or in Halstead's terms, for ARL libraries the real financial resource of dollars spent per student has remained constant.

This rather disheartening picture of long-term trends may be modified somewhat by some short-term changes in ARL data.⁴ For the second year in a row the increase in expenditures for current serials was less than in past years: an 8.8% increase in 1983 and 7.0% in 1982, as compared with an annual compounded rate of 14.0% for the preceding six years. At the same time expenditures for monographs and other non-serial materials rose 10.6% in 1983 and 12.8% in 1982, but an average 4.4% for each of the previous six years. As a consequence of these changes, serials expenditures have dropped from a high of 58% of total materials expenditures in 1981 to 56% in 1983.

In regard to material resources, 1983 is notable as the first year since the mid-seventies when ARL libraries added substantially more volumes than in the preceding year. Gross volumes added had been decreasing by an average 2.7% per year from 1976 through 1982. But in 1983 volumes added rose 7.4%.

There is some light in the 1983 data; but whether it is the light at the end of the tunnel, time will tell.

Those using the ARL Statistics to compare individual institutions will need to consult the symbols indicated in the "ARL Library Data Table" and the "Footnotes." Although definitions used in the Statistics questionnaire are aimed at achieving consistency, variant reporting practices do exist among ARL libraries. For example, the majority of ARL libraries include government documents in their count of serials subscriptions, but about one-third do not. Some ARL libraries catalog government documents and report them in their volume count; others do not. Symbols are used to indicate which ARL libraries include law and medical libraries in their reports. Separate counts of the holdings of law school libraries are published each year in the spring issue of Law Library Journal. Similar statistics for U.S. and Canadian medical school libraries are published annually by the Association of Academic Health Sciences Library Directors. To aid comparability, expenditures of Canadian libraries are expressed in U.S. dollars in the ARL Statistics; the exchange rate used for 1982-83 is 1.2349 Canadian dollars to one U.S. dollar.⁵

The rank order tables and index scores presented in this publication are not intended to imply qualitative evaluations of the institutions described. In comparing any individual library to ARL medians or to other ARL members, one must always make evaluations within the context of local goals and characteristics.

Kendon L. Stubbs
University of Virginia Library
December 19, 1983

References:

1. William J. Baumol and Sue Blackman, "Electronics, the Cost Disease, and the Operation of Libraries," Journal of the American Society for Information Science 34:181-191 (May 1983). Our data differ from Baumol's because we use the same sample of libraries over 15 years. Baumol used the medians of the current ARL membership for each year. As the membership grew and smaller libraries joined ARL, the medians declined relatively. Thus, the percentage increases in Baumol's data are lower than those for our sample.
2. We follow Baumol in using as measures of inflation the U.S. and Canadian Gross National Product Implicit Price Deflators, with calendar year 1972 equal to 100. This index is more useful as an indicator of rises in the general price level than the Consumer Price Index, which measures the changing prices of a typical "market basket" of consumer goods. Nevertheless, the GNP Implicit Price Deflator underestimates the inflationary forces at work on research libraries. About one-third of their expenditures are for books and serials, the prices of which have increased more than the increases measured by the GNP Deflator, the CPI, or even the Higher Education Price Index. Halstead (see ref. 3) points out that the prices of books and serials have risen faster than any other major component of the Higher Education Price Index, except energy costs and fringe benefits. Consequently, inflation took an even greater toll on research libraries than is shown here.
3. D. Kent Halstead, Inflation Measures for Schools and Colleges (Washington: National Institute of Education, 1983), pp. 37-50, esp. p. 46.
4. For this analysis we use the 90 libraries which have been ARL members since at least 1976 and which have not had gaps in their data.
5. The rate used is the average monthly noon exchange rate published in the Bank of Canada Review for the period July 1982-June 1983. Expenditures as reported in Canadian dollars are given in the "Footnotes" to the ARL Statistics.

GUIDE TO LIBRARY CODE NUMBERS

GUIDE TO LIBRARY CODE NUMBERS

The institutions listed below are the 113 institutions that were members of the Association of Research Libraries in 1982. Each has been assigned a code number for use on the data tables on pages 8-17 in place of the names of the institutions. (See columns labeled "Library Code No." to the left of columns 1 and 12). Numbers 1-101 have been used to designate the 101 university library members of the Association. Numbers 102-113 designate the 12 nonuniversity members.

1. Alabama	40. Iowa	79. South Carolina
2. Alberta	41. Iowa State	80. Southern California
3. Arizona	42. Johns Hopkins	81. Southern Illinois
4. Arizona State	43. Kansas	82. Stanford
5. Boston	44. Kent State	83. SUNY-Albany
6. Brigham Young	45. Kentucky	84. SUNY-Buffalo
7. British Columbia	46. Louisiana State	85. SUNY-Stony Brook
8. Brown	47. McGill	86. Syracuse
9. Calif., Berkeley	48. McMaster	87. Temple
10. Calif., Davis	49. Manitoba	88. Tennessee
11. Calif., Irvine	50. Maryland	89. Texas
12. Calif., Los Angeles	51. Massachusetts	90. Texas A & M
13. Calif., Riverside	52. MIT	91. Toronto
14. Calif., San Diego	53. Miami	92. Tulane
15. Calif., Santa Barbara	54. Michigan	93. Utah
16. Case Western Reserve	55. Michigan State	94. Vanderbilt
17. Chicago	56. Minnesota	95. Virginia
18. Cincinnati	57. Missouri	96. Virginia Polytechnic
19. Colorado	58. Nebraska	97. Washington
20. Colorado State	59. New Mexico	98. Washington State
21. Columbia	60. New York	99. Washington Univ., St. Louis
22. Connecticut	61. North Carolina	100. Wayne State
23. Cornell	62. North Carolina St.	101. Western Ontario
24. Dartmouth	63. Northwestern	102. Wisconsin
25. Delaware	64. Notre Dame	103. Yale
26. Duke	65. Ohio State	104. York
27. Emory	66. Oklahoma	*105. Boston Public Library
28. Florida	67. Oklahoma State	*106. Canada Inst. of Tech.
29. Florida State	68. Oregon	*107. Center for Research Libraries
30. Georgetown	69. Pennsylvania	*108. John Crerar Library
31. Georgia	70. Pennsylvania State	*109. Library of Congress
32. Georgia Tech	71. Pittsburgh	*110. Linda Hall Library
33. Guelph	72. Princeton	*111. National Agricultural Library
34. Harvard	73. Purdue	*112. National Library of Canada
35. Hawaii	74. Queen's	*113. National Library of Medicine
36. Houston	75. Rice	*114. Newberry Library
37. Howard	76. Rochester	*115. New York Public Library
38. Illinois	77. Rutgers	*116. New York State Library
39. Indiana	78. Saskatchewan	*117. Smithsonian Institution

*Nonuniversity library

ARL Library Data Table

LIBRARY CODE NO	COLLECTIONS					INTERLIBRARY LOANS					
						LOANED			BORROWED		
	VOLUMES IN LIBRARY	VOLUMES ADDED (GROSS)	VOLUMES ADDED (NET)	TOTAL MICROFORM UNITS IN LIBRARY	CURRENT SERIALS	ORIGINALS	PHOTOCOPIES	TOTAL	ORIGINALS	PHOTOCOPIES	TOTAL
	1	2	3	4	5	6	7	8	9	10	11
1 - G.L.M	1,511,130	41,437	38,205	1,096,010	12,976	3,424	2,679	6,103	2,030	1,796	3,826
2 - G.L.M	2,316,560	88,842	85,367	1,635,707	14,605	4,847	7,625	12,472	3,159	4,203	7,362
3 - L.M	2,853,707	117,601	112,265	2,479,283	32,105	12,089	21,386	33,475	3,151	3,032	6,183
4 - L	1,830,329	92,452	72,889	1,645,818	22,422	7,623	8,246	15,869	6,352	8,438	14,790
5 - L.M	1,449,992	64,566	54,028	1,951,136	25,416	2,229	3,324	5,553	2,449	4,843	7,292
6 -	1,625,278	67,754	51,178	1,025,393	16,318	2,882	2,494	5,376	2,967	4,711	7,678
7 - L.S	2,262,210	124,309	91,654	2,687,722	33,815	8,739	8,518	17,257	2,826	4,267	7,093
8 - G.O.	1,847,736	43,367	42,754	778,595	14,579	2,039	3,362	5,401	2,550	1,329	3,879
9 - L	6,436,301	230,171	218,877	2,696,778	101,584	11,063	18,366	29,429	9,172	4,046	13,218
10 - G.L.M	1,827,150	86,582	73,937	1,829,939	46,480	8,593	21,616	30,209	2,882	2,887	5,769
11 - M	1,068,363	60,040	44,845	1,177,864	15,301	7,803	4,488	12,291	3,642	4,447	8,129
12 - L.M	5,744,114	157,008	150,780	2,695,219	80,908	10,390	28,572	38,962	6,427	2,258	8,685
13 -	1,121,517	47,709	46,389	917,757	14,228	3,406	2,196	5,602	3,133	4,986	8,119
14 - M	1,566,293	69,363	58,823	950,134	28,783	5,719	9,720	15,439	3,938	2,589	6,527
15 - G	1,532,918	61,291	59,610	1,838,028	19,811	2,789	15,537	18,326	5,750	4,250	10,000
16 - G.L.M	1,432,423	25,518	21,756	479,012	13,461	19,275	38,384	57,659	4,753	4,446	8,199
17 - L.M	4,688,361	130,629	122,770	911,975	50,233	3,253	20,898	24,151	2,952	766	3,718
18 - L.M	1,371,023	12,626	40,265	1,615,364	18,445	N/A	N/A	27,278	N/A	N/A	9,734
19 - L	1,972,172	45,213	44,473	2,476,185	20,365	3,415	6,620	10,035	3,835	2,397	6,232
20 -	1,456,950	46,054	41,430	810,040	15,549	3,627	6,621	10,248	3,666	3,511	7,177
21 - L.M	5,270,432	103,145	77,884	2,771,509	60,570	3,768	12,708	16,476	2,449	2,745	5,194
22 - G.L.M	1,801,211	62,302	54,265	1,645,071	16,969	7,064	14,242	21,306	3,139	4,325	7,524
23 - L	4,516,717	126,398	116,414	2,933,693	55,091	7,016	12,535	19,551	2,555	3,066	5,621
24 - M	1,516,998	42,861	41,344	1,363,780	18,592	3,125	3,404	6,529	2,989	3,348	6,337
25	1,554,082	59,047	59,047	1,016,480	16,974	5,641	3,182	8,823	1,426	1,310	2,736

B - INCLUDES BRANCH CAMPUSES
G - GOVERNMENT DOCUMENTS NOT INCLUDED IN SERIALS COUNT

L - INCLUDES LAW LIBRARY
M - INCLUDES MEDICAL LIBRARY
N/A - NOT AVAILABLE

+ - SEE FOOTNOTES
b - BIBLIOGRAPHIC COUNT

ARL Library Data Table

LIBRARY CODE NO	EXPENDITURES							PERSONNEL (FTE)			
	LIBRARY MATERIALS	CURRENT SERIALS	BINDING	TOTAL MATERIALS & BINDING	TOTAL SALARIES & WAGES	OTHER OPERATING EXPENDITURES	TOTAL LIBRARY OPERATING EXPENDITURES	PROF. STAFF	NON-PROF. STAFF	STUDENT ASSTS.	TOTAL STAFF
	12	13	14	15	16	17	18	19	20	21	22
1	1,888,852	812,137	90,985	1,979,837	1,640,703	390,897	4,011,437	45	63	59	167
2	2,660,505	1,034,139	150,182	2,810,687	6,621,145	1,111,927	10,543,759	79	260	47	386
3	3,194,650	1,678,211	224,552	3,419,202	4,511,024	1,057,686	8,987,912	86	180	84	350
4	2,815,848	1,508,188	162,785	2,975,641	3,281,351	453,118	6,710,110	60	151	67	278
5	2,148,524	1,235,959	130,378	2,278,902	3,098,501	902,303	6,279,706	63	134	66	263
6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	71	63	175	309
7	3,153,525	N/A	138,966	3,292,491	7,664,149	985,356	11,941,996	111	310	53	474
8	1,716,489	843,563	130,012	1,846,501	2,688,839	1,051,464	5,586,804	66	98	48	212
9	4,313,694	2,248,788	599,206	4,912,900	11,554,736	2,080,657	18,548,293	145	302	219	666
10	3,637,044	1,830,305	304,150	3,941,194	4,959,402	851,816	9,752,412	68	179	53	300
11	2,375,238	1,135,934	188,869	2,564,107	3,169,348	418,970	6,152,425	47	89	69	205
12	4,960,478	2,254,754	565,013	5,525,491	10,554,410	2,730,225	18,810,126	163	256	148	567
13	1,596,356	771,232	114,033	1,710,389	2,442,049	451,371	4,603,809	32	84	32	148
14	2,515,033	1,210,721	234,579	2,749,612	4,246,766	958,705	7,955,083	55	159	53	267
15	2,321,073	1,064,917	202,441	2,523,516	4,226,207	712,057	7,461,780	54	139	60	253
16	1,242,712	853,602	74,662	1,317,374	2,259,056	460,187	4,036,617	63	72	36	171
17	2,504,372	1,353,392	223,385	2,727,757	4,711,380	1,328,663	8,767,800	72	149	80	301
18	2,256,060	1,331,243	137,124	2,393,184	4,108,150	740,545	7,241,879	69	134	74	277
19	1,839,710	1,115,363	120,082	1,959,792	3,062,593	357,203	5,343,588	43	94	49	186
20	1,213,803	770,000	80,129	1,293,932	2,245,844	413,509	3,953,285	42	75	30	147
21	3,325,112	1,896,788	352,806	3,677,918	8,256,261	1,479,460	13,413,639	140	276	119	535
22	1,837,213	1,290,171	94,721	1,931,932	3,260,193	505,076	5,697,201	60	75	56	191
23	3,744,400	N/A	249,103	3,993,503	6,719,577	1,749,358	12,462,438	139	253	78	470
24	1,578,641	1,114,611	56,323	1,634,964	2,083,648	653,674	4,372,286	37	105	30	172
25	2,085,967	946,576	115,070	2,201,037	1,842,834	328,932	4,372,803	36	91	29	156

ARL Library Data Table

LIBRARY CODE NO	COLLECTIONS					INTERLIBRARY LOANS					
	VOLUMES IN LIBRARY	VOLUMES ADDED (GROSS)	VOLUMES ADDED (NET)	TOTAL MICROFORM UNITS IN LIBRARY	CURRENT SERIALS	LOANED			BORROWED		
						ORIGINALS	PHOTOCOPIES	TOTAL	ORIGINALS	PHOTOCOPIES	TOTAL
	1	2	3	4	5	6	7	8	9	10	11
26-GL	3,261,272	84,246	78,580	1,055,627	29,667	6,094	16,905	22,999	3,028	1,822	4,850
27 -L-M	1,789,395	58,408	53,204	1,174,764	17,032	11,114	11,785	22,879	2,442	2,665	5,107
28 -L-M	1,549,473	69,272	63,528	2,348,774	24,563	2,816	17,883	20,699	2,292	8,598	10,890
29 -GL	1,418,753	55,293	35,140	2,388,395	15,935	5,854	5,864	11,718	2,923	1,432	4,355
30 -GL-M	1,397,270	65,155	61,191	1,127,066	18,367	3,614	2,340	5,954	1,127	2,623	4,050
31 -L	2,226,090	84,473	84,473	2,787,338	45,126	10,358	15,189	25,547	3,189	1,808	4,997
32 -	1,661,559	116,917	92,853	1,737,597	24,754	2,422	11,955	14,377	973	1,023	1,996
33 -GL	1,408,433	68,111	67,683	801,998	9,345	921	2,441	3,362	1,925	3,500	5,425
34 -L-M	10,567,240	185,235	158,012	3,021,292	99,500	5,426	27,027	32,453	2,820	2,905	5,725
35 -GL	1,914,846	79,591	62,033	1,536,824	33,889	3,045	8,050	11,095	1,172	1,346	2,518
36 -GL	1,360,084	67,737	48,910	2,115,795	16,375	3,621	4,061	7,682	1,965	2,841	4,806
37 -L-M	1,317,755	74,581	73,200	1,420,593	25,078	1,624	978	2,602	541	703	1,244
38 -GL	6,411,248	176,095	169,333	1,978,782	93,913	84,888	42,582	127,470	61,237	6,812	68,049
39 -L	1,105,734	139,064	112,322	1,267,234	28,346	12,943	18,650	31,593	5,011	2,886	7,927
40 -L-M	2,494,680	87,282	82,103	2,074,442	30,633	6,367	25,387	31,754	2,873	2,867	5,740
41	1,498,279	55,590	50,929	1,394,705	26,098	6,582	11,804	18,386	2,649	1,913	4,562
42 -GL-M	2,393,572	51,996	44,531	1,070,066	18,097	6,344	8,911	15,255	7,145	7,416	14,516
43 -GL-M	2,323,978	72,575	71,361	1,272,088	28,487	17,234	14,208	31,442	9,392	6,900	16,292
44 -	1,484,183	49,581	46,026	958,194	8,718	3,177	2,173	5,350	6,424	2,465	8,889
45 -L-M	1,894,642	49,749	40,544	2,535,686	35,050	5,339	10,291	15,630	3,261	4,866	8,127
46 -L	2,017,565	65,728	63,182	1,712,189	22,172	3,505	3,348	6,853	1,270	1,942	3,212
47 -GL-M	2,188,662	67,439	61,977	567,008	14,419	6,674	20,395	27,069	5,104	2,460	7,564
48 -L-M	1,274,954	58,617	40,234	907,958	13,424	3,652	4,128	7,780	2,951	3,266	6,217
49 -GL-M	1,293,862	40,287	42,775	644,772	10,795	7,841	4,151	11,992	2,172	4,476	6,648
50 -GL	1,777,178	53,113	39,491	1,747,336	19,441	5,624	4,859	10,483	1,413	673	2,086

B - INCLUDES BRANCH CAMPUSES
 G - GOVERNMENT DOCUMENTS NOT
 INCLUDED IN SERIALS COUNT

L - INCLUDES LAW LIBRARY
 M - INCLUDES MEDICAL LIBRARY
 N/A - NOT AVAILABLE

* - SEE FOOTNOTES
 b - BIBLIOGRAPHIC COUNT

ARL Library Data Table

LIBRARY CODE NO	EXPENDITURES							PERSONNEL (FTE)			
	LIBRARY MATERIALS	CURRENT SERIALS	BINDING	TOTAL MATERIALS & BINDING	TOTAL SALARIES & WAGES	OTHER OPERATING EXPENDITURES	TOTAL LIBRARY OPERATING EXPENDITURES	PROF. STAFF	NON PROF. STAFF	STUDENT ASSTS.	TOTAL STAFF
	12	13	14	15	16	17	18	19	20	21	22
26	2,700,586	1,530,357	169,952	2,870,538	4,302,483	528,352	7,701,373	90	174	77	341
27	2,114,835	1,136,399	113,597	2,228,432	2,710,582	595,712	5,534,726	55	105	43	203
28	2,553,757	1,471,077	166,705	2,722,462	3,784,459	1,287,780	7,794,701	86	148	101	335
29	1,723,455	1,038,566	90,202	1,813,657	2,316,975	244,699	4,175,331	57	92	57	206
30	2,022,798	816,273	110,588	2,133,386	3,404,949	1,000,769	6,539,104	64	92	91	247
31	2,854,541	1,726,194	205,069	3,059,610	3,489,983	346,887	6,896,480	74	159	64	297
32	1,290,196	845,294	93,186	1,383,382	1,617,316	543,750	3,544,448	44	53	16	113
33	1,455,354	635,779	46,070	1,501,424	2,500,092	229,918	4,231,434	35	120	15	170
34	6,251,797	2,863,190	355,586	6,807,383	14,018,278	2,106,603	22,932,264	280	526	138	944
35	2,104,712	1,251,400	59,011	2,163,723	3,775,501	288,685	6,227,909	62	98	67	227
36	2,103,484	1,100,556	116,576	2,220,060	2,768,281	444,103	5,432,444	59	132	51	242
37	3,206,316	1,709,183	177,538	3,383,854	5,253,799	3,258,709	11,896,362	89	149	28	266
38	3,522,005	1,934,842	155,170	3,677,175	6,984,143	1,260,318	11,921,636	120	295	119	534
39	3,165,486	1,430,154	179,701	3,345,187	5,677,990	644,520	9,667,697	105	204	167	476
40	3,141,842	1,910,206	193,700	3,335,542	3,602,773	323,462	7,261,777	73	98	63	234
41	2,192,378	1,221,621	125,084	2,317,462	2,828,877	358,193	5,504,532	49	105	48	202
42	2,175,457	1,229,230	74,463	2,249,920	3,647,874	1,975,756	7,873,550	74	175	37	286
43	2,773,122	1,441,813	97,135	2,870,257	3,786,157	1,008,333	7,664,747	75	136	61	272
44	850,914	474,774	63,257	914,171	2,252,272	1,016,421	4,182,864	32	85	46	163
45	2,300,841	1,428,876	88,046	2,388,887	3,301,072	462,748	6,152,707	64	113	55	232
46	3,309,250	1,440,965	155,915	3,465,165	3,091,030	407,996	6,964,191	64	102	61	227
47	1,852,889	1,060,078	135,511	1,988,400	5,584,632	428,618	8,001,650	75	217	30	322
48	2,153,238	1,040,421	60,099	2,213,337	2,851,837	315,699	5,380,873	41	139	16	196
49	1,687,732	901,595	112,122	1,799,854	3,732,654	371,688	5,904,196	65	159	22	246
50	2,287,994	1,278,886	164,516	2,452,510	4,298,147	869,765	7,620,422	82	151	89	322

ARL Library Data Table

LIBRARY CODE NO	COLLECTIONS					INTERLIBRARY LOANS					
	VOLUMES IN LIBRARY	VOLUMES ADDED (Gross)	VOLUMES ADDED (NET)	TOTAL MICROFORM UNITS IN LIBRARY	CURRENT SERIALS	LOANED			BORROWED		
						ORIGINALS	PHOTOCOPIES	TOTAL	ORIGINALS	PHOTOCOPIES	TOTAL
	1	2	3	4	5	6	7	8	9	10	11
51 *	1,938,811	70,256	68,784	1,148,684	13,247	3,195	6,827	10,022	3,222	3,573	6,795
52	1,906,374	60,414	37,201	1,279,067	20,382	3,664	16,527	20,191	1,745	2,710	4,455
53 *LM	1,444,582	65,818	33,285	1,747,541	18,263	4,736	7,567	12,303	2,499	3,987	6,486
54 *LM	5,597,266	142,708	116,094	2,490,143	61,464	7,141	13,532	20,673	5,760	3,873	9,633
55 **	2,898,698	103,774	91,867	1,871,763	20,002	1,320	5,520	6,840	1,818	2,172	3,990
56 LM	4,037,478	106,352	92,081	1,686,647	42,930	27,291	127,694	154,985	7,808	6,253	14,061
57 *LM	2,180,287	56,398	43,131	2,720,052	19,207	9,709	12,293	22,002	3,227	3,625	6,852
58 *	1,523,130	54,221	50,320	1,450,731	18,535	4,810	5,804	10,614	2,202	2,080	4,282
59 **	1,126,047	49,502	39,518	2,043,551	9,317	4,364	2,055	6,419	2,304	1,570	3,874
60 *LM	2,736,470	60,479	57,599	1,676,461	28,390	4,030	5,064	9,094	2,218	5,339	7,557
61 *LM	2,952,859	121,501	113,001	1,845,576	40,157	7,772	11,163	18,935	2,085	2,089	4,174
62 *	1,092,724	49,441	44,744	1,962,167	16,616	4,955	19,031	23,986	1,638	1,568	3,206
63 *LM	2,973,100	103,280	83,698	1,278,889	32,970	4,233	6,348	10,581	5,164	2,815	7,979
64 *L	1,543,952	48,451	44,700	836,803	11,203	2,724	2,086	4,810	1,197	1,800	2,997
65 *LM	3,779,819	100,480	87,535	2,029,478	27,519	9,306	19,748	29,054	4,976	3,864	8,840
66 GLM	1,981,440	80,305	77,444	1,450,350	16,823	5,212	8,478	13,690	4,487	9,551	14,038
67 *	1,346,878	46,496	39,146	1,326,544	14,503	4,663	5,819	10,482	2,243	2,560	4,803
68 L	1,586,877	46,811	46,537	1,068,547	17,011	8,777	3,520	12,297	3,197	1,387	4,584
69 LM	3,120,976	79,247	66,742	1,522,668	31,687	4,050	4,644	8,694	4,904	3,392	8,296
70 *BM	2,402,938	138,885	129,958	2,493,017	23,335	5,719	7,710	13,429	4,825	4,051	8,876
71 *LM	2,472,489	83,864	65,862	1,713,068	20,094	8,426	19,864	28,390	3,524	2,339	5,863
72 *	3,519,262	95,131	89,020	1,603,912	32,910	3,927	3,177	7,104	2,862	1,404	4,266
73 *	1,538,062	56,022	34,964	1,334,465	16,846	1,217	7,563	8,780	2,348	2,816	5,164
74 *GLM	1,495,596	47,506	46,537	943,454	13,941	N/A	N/A	3,900	N/A	N/A	6,227
75 *B	1,146,577	37,450	36,780	1,424,884	10,862	4,316	6,210	10,526	911	923	1,834

B - INCLUDES BRANCH CAMPUSES
G - GOVERNMENT DOCUMENTS NOT INCLUDED IN SERIALS COUNT

L - INCLUDES LAW LIBRARY
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* - SEE FOOTNOTES
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ARL Library Data Table

LIBRARY CODE NO	EXPENDITURES							PERSONNEL (FTE)			
	LIBRARY MATERIALS	CURRENT SERIALS	BINDING	TOTAL MATERIALS & BINDING	TOTAL SALARIES & WAGES	OTHER OPERATING EXPENDITURES	TOTAL LIBRARY OPERATING EXPENDITURES	PROF. STAFF	NON-PROF. STAFF	STUDENT ASSTS	TOTAL STAFF
	12	13	14	15	16	17	18	19	20	21	22
51	1,702,717	800,342	55,553	1,758,270	3,219,864	228,815	5,206,949	55	107	50	212
52	1,692,225	1,077,599	116,273	1,808,498	3,885,102	771,602	6,465,202	86	158	35	279
53	1,927,892	1,035,346	108,744	2,036,626	2,966,597	700,400	5,703,623	56	111	66	233
54	4,268,564	2,276,512	230,578	4,499,142	7,565,239	1,519,029	13,583,410	136	293	143	572
55	2,279,658	1,134,803	156,516	2,436,174	4,020,593	1,069,456	7,526,223	73	123	102	298
56	3,433,396	1,870,362	338,126	3,791,522	7,049,057	1,238,805	12,079,384	123	167	120	410
57	2,041,097	1,363,650	137,998	2,199,095	2,612,137	413,788	5,225,020	52	109	43	204
58	1,712,881	1,133,186	84,264	1,797,145	2,175,040	602,046	4,574,231	50	104	30	184
59	1,430,885	727,698	84,355	1,515,240	2,488,563	244,956	4,248,759	45	99	61	205
60	2,632,451	1,763,516	180,920	2,813,371	5,159,537	1,347,684	9,320,592	87	187	74	348
61	3,441,258	1,439,349	201,442	3,642,700	5,108,907	820,392	9,571,099	108	184	65	357
62	1,990,418	973,211	113,609	2,104,027	2,373,316	377,282	4,854,625	41	107	38	186
63	2,476,552	1,475,982	113,752	2,590,304	4,737,447	693,676	8,012,427	102	148	88	338
64	1,452,296	715,372	116,140	1,568,436	2,161,511	405,079	4,135,026	44	94	16	154
65	3,989,869	1,530,300	141,481	4,131,350	6,099,506	1,467,434	11,698,290	101	203	140	444
66	1,927,508	1,326,647	75,363	2,002,871	2,741,011	650,167	5,394,049	51	85	62	198
67	1,515,737	892,980	82,361	1,598,098	1,699,334	377,029	3,674,461	40	55	59	154
68	2,034,426	957,957	80,841	2,115,267	2,437,193	267,105	4,819,565	45	82	53	180
69	2,108,386	1,215,140	296,042	2,404,428	5,126,224	1,065,013	8,595,665	92	152	76	320
70	2,839,766	1,603,887	151,093	2,990,859	5,943,909	1,410,525	10,345,293	98	256	61	415
71	2,182,612	819,834	172,329	2,354,941	4,221,082	621,864	7,197,887	81	166	76	323
72	3,171,448	1,465,069	250,618	3,422,066	5,856,673	994,409	10,273,148	93	244	59	396
73	1,774,764	1,219,445	105,882	1,880,646	3,136,412	541,272	5,558,330	41	163	49	253
74	1,720,700	858,539	80,861	1,801,561	2,884,191	249,195	4,934,947	40	164	26	230
75	1,509,483	926,465	49,523	1,559,006	1,685,340	461,431	3,705,777	36	72	20	128

ARL Library Data Table

LIBRARY CODE NO	COLLECTIONS					INTERLIBRARY LOANS					
	VOLUMES IN LIBRARY	VOLUMES ADDED (Gross)	VOLUMES ADDED (NET)	TOTAL MICROFORM UNITS IN LIBRARY	CURRENT SERIALS	LOANED			BORROWED		
						ORIGINALS	PHOTOCOPIES	TOTAL	ORIGINALS	PHOTOCOPIES	TOTAL
	1	2	3	4	5	6	7	8	9	10	11
76 +GM	1,925,138	57,465	53,463	2,064,509	9,894	5,155	10,575	15,730	2,397	3,296	5,693
77 +RGM	2,083,310	99,289	59,095	1,672,761	21,910	4,801	16,570	21,371	2,438	4,394	6,832
78 +GLM	1,124,670	41,324	41,324	1,287,990	9,377	1,799	3,914	5,713	2,717	5,201	7,918
79 +LM	2,003,347	55,924	53,362	1,972,448	16,561	5,460	6,001	11,461	2,556	1,319	3,875
80 +LM	2,247,063	82,782	76,289	1,480,342	36,765	2,524	3,675	6,199	1,403	697	2,100
81 +L	1,756,367	44,422	40,154	2,194,039	19,709	20,177	12,890	33,067	2,595	1,952	4,547
82 +LM	5,040,940	163,099	146,400	2,606,896	46,572	7,412	11,021	18,433	3,887	2,851	6,738
83 +	1,062,495	36,168	34,552	1,966,142	15,660	6,571	6,906	13,477	4,146	6,990	11,136
84 +LM	2,181,241	64,353	43,300	2,550,694	22,933	4,518	14,915	19,433	2,529	3,700	6,229
85 +bM	1,374,100	54,065	52,822	1,930,265	18,463	5,307	10,439	15,746	2,514	2,618	5,132
86 +bL	2,065,873	67,750	55,864	2,181,160	21,232	1,790	1,103	2,893	2,281	1,863	4,144
87 +LM	1,742,595	47,672	44,785	1,085,089	14,881	4,084	3,921	8,005	1,970	1,859	3,829
88 +G	1,448,738	31,012	27,396	1,465,853	24,915	8,974	6,238	15,212	2,017	1,951	3,968
89 +L	5,057,649	177,633	158,655	2,859,790	61,133	8,852	5,623	14,475	5,523	2,714	8,237
90 +M	1,418,345	54,368	53,422	2,042,624	16,886	6,526	27,456	33,982	3,952	6,405	10,357
91 +GLM	4,856,750	202,440	67,010	1,754,949	42,941	9,697	7,005	16,702	3,125	4,051	7,176
92 +LM	1,478,003	51,889	50,637	1,362,036	14,155	N/A	N/A	7,565	N/A	N/A	6,360
93 +G	2,045,797	38,542	30,135	1,942,337	14,290	5,087	3,682	8,769	4,389	3,448	7,837
94 +LM	1,517,038	48,995	38,548	1,080,357	15,941	7,173	5,202	12,375	3,071	1,691	4,762
95 GLM	2,550,064	91,553	83,311	2,859,945	25,021	4,607	2,172	6,779	2,176	513	2,689
96 +	1,391,736	60,210	56,757	3,434,127	21,336	4,995	10,201	15,196	1,750	1,576	3,326
97 +LM	4,168,079	140,418	77,267	3,910,104	39,476	26,298	66,863	93,161	2,976	1,406	4,382
98 +G	1,346,609	43,998	42,109	1,942,224	31,675	477	370	847	108	208	316
99 +LM	1,953,047	45,795	35,174	1,259,184	15,210	4,165	11,643	15,808	2,352	4,233	6,585
100 +bLM	1,941,348	42,601	37,141	1,324,228	14,448	5,741	26,860	32,601	932	2,051	2,983

B - INCLUDES BRANCH CAMPUSES
G - GOVERNMENT DOCUMENTS NOT
INCLUDED IN SERIALS COUNT

L - INCLUDES LAW LIBRARY
M - INCLUDES MEDICAL LIBRARY
N/A - NOT AVAILABLE

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b - BIBLIOGRAPHIC COUNT

ARL Library Data Table

LIBRARY CODE NO	EXPENDITURES							PERSONNEL (FTE)			
	LIBRARY MATERIALS	CURRENT SERIALS	BINDING	TOTAL MATERIALS & BINDING	TOTAL SALARIES & WAGES	OTHER OPERATING EXPENDITURES	TOTAL LIBRARY OPERATING EXPENDITURES	PROF. STAFF	NON-PROF. STAFF	STUDENT ASSTS.	TOTAL STAFF
	12	13	14	15	16	17	18	19	20	21	22
76	1,815,181	1,074,587	101,076	1,908,557	2,843,403	527,451	5,279,411	60	92	63	215
77	2,569,991	1,790,384	251,210	2,812,471	6,597,629	788,982	10,198,782	96	230	65	391
78	1,721,078	1,032,472	53,446	1,774,524	2,818,865	292,663	4,886,052	42	114	19	175
79	1,375,760	758,884	193,775	1,659,535	2,508,741	753,340	4,921,616	63	113	30	203
80	2,829,361	1,717,069	124,515	2,944,876	4,486,352	928,774	8,360,002	85	136	94	315
81	1,763,527	1,232,542	106,677	1,870,204	3,573,302	565,369	6,008,875	60	104	88	252
82	1,611,057	2,293,307	289,323	4,920,560	10,823,140	2,453,964	18,197,484	150	347	69	566
83	1,355,223	1,110,562	51,000	1,605,223	2,276,725	413,496	4,296,444	49	97	24	170
84	2,264,228	1,499,524	135,610	2,399,838	3,872,521	772,127	7,044,486	91	136	60	287
85	1,929,767	1,187,678	76,320	2,006,087	2,605,288	415,378	5,026,753	48	114	47	209
86	1,809,504	1,029,495	85,000	1,894,504	3,127,613	1,128,317	6,150,434	65	135	62	262
87	1,478,626	1,043,131	90,687	1,569,313	3,290,547	468,841	5,328,701	66	118	53	237
88	1,592,719	1,094,223	97,200	1,689,919	2,622,297	647,272	4,959,488	50	131	45	226
89	6,200,024	2,079,845	189,807	6,365,831	8,250,140	1,333,077	15,953,048	139	336	82	557
90	2,077,193	1,209,001	130,728	2,207,921	2,957,942	751,971	5,917,834	54	125	56	235
91	4,403,420	1,945,063	186,331	4,589,751	11,665,104	1,173,782	17,428,636	150	482	84	716
92	2,168,437	1,050,079	95,562	2,263,999	2,218,441	569,193	5,051,633	50	85	52	197
93	1,691,511	705,669	96,816	1,788,327	2,682,992	700,795	5,172,114	46	97	67	210
94	1,678,232	1,039,747	90,489	1,768,721	2,666,957	950,243	5,385,921	58	110	68	236
95	2,886,476	1,446,562	183,784	3,070,260	4,719,966	956,285	8,746,511	86	196	50	332
96	1,964,000	1,228,800	166,400	2,130,400	2,488,700	579,200	5,198,300	51	95	21	167
97	3,971,429	2,279,494	220,542	4,191,971	6,056,263	977,994	11,226,228	117	229	119	465
98	2,092,692	1,216,758	100,920	2,193,612	2,592,421	706,292	5,492,325	40	94	64	198
99	1,914,895	1,274,351	194,755	2,019,650	2,860,639	1,666,942	6,547,231	60	122	40	222
100	1,579,326	855,591	103,278	1,682,604	3,214,336	942,299	5,839,239	57	92	47	196

ARL Library Data Table

[illegible]

ARL Library Data Table Totals

COLLECTIONS					INTERLIBRARY LOANS					
VOLUMES IN LIBRARY	VOLUMES ADDED (Gross)	VOLUMES ADDED (NET)	TOTAL MICROFORM UNITS IN LIBRARY	CURRENT SERIALS	LOANED			BORROWED		
					ORIGINALS	PHOTOCOPIES	TOTAL	ORIGINALS	PHOTOCOPIES	TOTAL
1	2	3	4	5	6	7	8	9	10	11
UNIVERSITY MEDIAN										
1,900,503	64,460	56,948	1,659,290	19,943	5,184	7,668	13,584	2,868	2,816	6,200
UNIVERSITY HIGH										
10,567,240	230,171	218,877	3,910,104	101,584	84,898	127,694	154,985	61,237	20,535	68,049
UNIVERSITY LOW										
1,062,493	25,518	21,756	470,012	8,715	477	370	847	108	208	316
TOTALS—UNIVERSITY LIBRARIES										
251,210,388	8,147,955	7,024,845	178,559,508	2,581,654	729,965	1,240,571	2,020,723	378,498	330,742	737,955
TOTALS—NON-UNIVERSITY LIBRARIES										
45,559,247	850,557	779,582	19,731,829	555,199	307,031	477,612	784,643	22,819	5,686	43,454
GRAND TOTALS—ALL ARL LIBRARIES										
296,769,635	8,998,508	7,804,427	198,291,337	3,136,853	1,036,996	1,718,183	2,805,366	401,317	336,428	781,409

ARL Library Data Table Totals

EXPENDITURES							PERSONNEL (FTE)			
LIBRARY MATERIALS	CURRENT SERIALS	BINDING	TOTAL MATERIALS & BINDING	TOTAL SALARIES & WAGES	OTHER OPERATING EXPENDITURES	TOTAL LIBRARY OPERATING EXPENDITURES	PROF. STAFF	NON-PROF. STAFF	STUDENT ASSTS	TOTAL STAFF
12	13	14	15	16	17	18	19	20	21	22
<hr/> UNIVERSITY MEDIAN <hr/>										
5,148,524	1,215,140	120,082	2,249,920	3,377,268	700,400	6,279,706	64	134	59	250
<hr/> UNIVERSITY HIGH <hr/>										
6,251,797	2,863,190	599,206	6,807,383	14,018,278	3,258,709	22,932,264	280	526	219	944
<hr/> UNIVERSITY LOW <hr/>										
850,914	474,774	46,070	914,171	1,617,316	179,593	3,544,448	32	53	15	113
<hr/> TOTALS—UNIVERSITY LIBRARIES <hr/>										
251,645,994	130,225,878	15,626,388	267,272,382	435,827,115	87,223,286	790,277,782	7,782	16,173	6,724	30,679
<hr/> TOTALS—NON-UNIVERSITY LIBRARIES <hr/>										
23,898,614	9,459,553	1,850,081	35,748,694	173,266,545	110,792,069	309,807,309	3,722	4,535	227	8,484
<hr/> GRAND TOTALS—ALL ARL LIBRARIES <hr/>										
275,544,608	139,685,431	17,476,469	293,021,076	609,093,660	198,015,355	1,100,085,091	11,504	20,708	6,951	39,163

ANALYSIS OF SELECTED VARIABLES OF UNIVERSITY LIBRARIES

The percentages and ratios below are intended to summarize the basic data in the ARL Library Data Tables. The high, median, and low figures indicate the range as well as the midpoint for ARL's 104 university library members.

	<u>Category</u>	<u>High</u>	<u>Median</u>	<u>Low</u>
1.	Professional Staff as percent of Total Staff	38	25	16
2.	Nonprofessional Staff as percent of Total Staff	71	51	20
3.	Student Assistant Staff as percent of Total Staff	56	22	8
4.	Ratio of Professional to Non-professional Staff (excluding student assistants)	1.1:1	0.5:1	0.2:1
5.	Ratio of Items Loaned to Items Borrowed	21.3:1	2.4:1	0.6:1
6.	Materials Expenditures as percent of Total Operating Expenditures	47	32	20
7.	Serials Expenditures as percent of Materials Expenditures	71	54	30
8.	Salary and Wage Expenditures as percent of Total Operating Expenditures	69	53	40
9.	Ratio of Salary and Wage Expenditures to Materials Expenditures	3.0:1	1.6:1	0.9:1

Median figures are useful indicators when there is wide dispersion within a distribution. Because the mean represents a "balance point," a few very high or low scores may sometimes pull the mean away from the actual point at which values cluster. Medians, on the other hand, are a measure of central tendency, focusing on the midpoint in a distribution, and are thus preferable for describing ARL libraries.

Ph.D. AND ENROLLMENT STATISTICS *

INSTITUTION	Ph.D.'s Awarded	Ph.D. Fields	ENROLLMENTS - FALL 1982			
			Total Full-time**	Total FTE Part-time**	Full-time Graduate	Part-time Graduate FTE
Alabama	92	40	14,017	902	2,002	482
Alberta	130	57	21,012	888	2,302	272
Arizona	243	70	22,627	3,379	3,020	1,605
Arizona State	119	32	25,884	5,130	2,295	1,194
Boston+	141	45	17,620	3,128	4,459	1,366
Brigham Young	59	30	22,619	3,299	1,460	407
British Columbia	104	137	20,688	1,915	2,614	372
Brown	137	27	5,407	32	1,439	62
Calif., Berkeley	781	103	29,313	N/A	8,806	N/A
Calif., Davis	290	51	19,321	0	5,254	0
Calif., Irvine	80	30	11,009	730	2,525	0
Calif., Los Angeles+	481	60	33,333	N/A	11,266	N/A
Calif., Riverside	103	25	4,439	103	1,247	0
Calif., San Diego	168	37	12,410	257	1,548	0
Calif., Santa Barbara	138	54	13,496	600	1,867	77
Case Western Reserve	133	35	6,540	2,158	966	905
Chicago	350	80	7,154	993	3,450	842
Cincinnati	139	55	19,541	3,597	2,314	474
Colorado	215	49	19,686	977	2,547	185
Colorado State	159	36	16,717	548	1,797	209
Columbia	329	54	13,102	996	6,446	479
Connecticut	168	42	16,408	6,392	2,220	3,729
Cornell	383	178	17,144	N/A	4,061	N/A
Dartmouth	25	10	3,546	40	847	55
Delaware	58	40	13,805	1,855	858	405
Duke	169	28	9,295	160	3,231	37
Emory	78	95	7,104	293	860	174
Florida	286	66	22,837	1,644	3,669	1,122
Florida State	279	62	16,977	1,987	2,014	511
Georgetown	70	24	9,264	1,319	951	698
Georgia	208	47	20,998	2,298	2,581	647
Georgia Tech	74	61	10,081	526	1,290	261
Guelph	39	53	10,355	535	816	50
Harvard	340	55	15,578	140	6,548	110
Hawaii	120	38	15,141	2,289	1,728	584
Houston	151	31	15,835	7,355	2,032	1,927
Howard	60	23	12,677	N/A	3,811	N/A
Illinois+	857	75	36,678	4,180	5,263	2,368

* These figures were reported on ARL questionnaires and have not been verified with the National Center for Education Statistics.

** Includes both undergraduate and graduate students.

N/A - Not available

+ - See footnotes

PH.D. AND ENROLLMENT STATISTICS *

INSTITUTION	Ph.D.'s Awarded	Ph.D. Fields	ENROLLMENTS - FALL 1982			
			Total Full-time**	Total FTE Part-time**	Full-time Graduate	Part-time Graduate FTE
Indiana	289	99	27,346	1,815	3,650	708
Iowa	236	54	22,140	2,577	3,027	1,152
Iowa State	214	62	22,127	1,408	2,181	750
Johns Hopkins	192	45	4,920	1,697	2,117	1,202
Kansas+	212	61	20,104	2,298	2,198	1,222
Kent State	117	18	14,697	1,681	1,486	440
Kentucky	144	49	17,497	1,559	2,606	538
Louisiana State	117	48	24,722	2,406	1,176	1,063
McGill	152	50	15,610	4,346	2,797	896
McMaster	58	27	11,161	2,217	1,174	605
Manitoba	67	33	14,983	3,740	1,875	512
Maryland	322	56	26,524	3,908	2,761	1,468
Massachusetts	174	47	21,858	809	2,347	517
MIT	473	220	9,475	192	4,306	61
Miami	53	39	11,372	1,672	1,081	415
Michigan	585	122	30,836	1,794	6,706	1,015
Michigan State	481	148	34,175	3,595	3,449	1,830
Minnesota	466	85	27,389	9,232	8,196	474
Missouri	222	75	20,806	1,197	1,973	696
Nebraska	204	27	19,126	2,390	1,716	818
New Mexico	114	36	14,017	3,523	1,402	887
New York	327	144	17,475	5,365	7,128	3,869
North Carolina	282	59	18,599	1,541	2,700	1,406
North Carolina State	197	46	14,526	3,149	1,171	1,849
Northwestern	276	61	12,254	1,150	5,254	465
Notre Dame	121	24	9,026	103	1,085	39
Ohio State	564	84	43,151	3,887	5,595	1,025
Oklahoma	132	55	16,402	1,987	1,508	849
Oklahoma State	123	38	19,621	1,556	1,503	829
Oregon	206	49	13,226	751	1,941	216
Pennsylvania	396	83	17,736	946	5,487	331
Pennsylvania State	345	88	49,715	4,981	3,746	432
Pittsburgh	392	70	17,225	4,854	3,482	1,988
Princeton	171	51	6,031	0	1,512	0
Purdue	388	53	28,840	1,146	3,375	507
Queen's	136	27	11,396	3,327	1,369	458
Rice	71	27	3,719	0	1,076	0
Rochester	147	66	6,574	662	1,650	227

* These figures were reported on ARL questionnaires and have not been verified with the National Center for Education Statistics.

** Includes both undergraduate and graduate students.

N/A - Not available

+ - See footnotes

PH.D. AND ENROLLMENT STATISTICS *

INSTITUTION	Ph.D.'s Awarded	Ph.D. Fields	ENROLLMENTS - FALL 1982			
			Total Full-time**	Total FTE Part-time**	Full-time Graduate	Part-time Graduate FTE
Rutgers	246	53	31,527	5,967	3,989	3,106
Saskatchewan	26	N/A	11,110	888	745	344
South Carolina	118	33	16,142	8,154	2,962	5,211
Southern California	N/A	N/A	18,409	4,362	2,608	3,546
Southern Illinois	198	20	19,492	2,053	803	1,234
Stanford	438	74	11,605	726	4,943	526
SUNY - Albany	86	21	9,939	1,716	1,630	1,253
SUNY - Buffalo	273	56	19,260	2,597	4,790	974
SUNY - Stony Brook	153	25	12,902	3,279	2,547	N/A
Syracuse +	138	86	14,505	2,206	1,792	602
Temple	60	110	18,468	3,491	1,824	1,684
Tennessee	176	52	20,578	2,499	2,280	804
Texas	416	63	42,181	2,901	7,544	1,443
Texas A & M	293	72	31,672	1,811	3,190	532
Toronto	298	64	34,670	4,912	5,007	1,157
Tulane	48	31	8,532	1,980	1,648	254
Utah	168	60	16,814	3,123	1,242	751
Vanderbilt	149	39	7,974	243	1,770	164
Virginia	186	43	15,499	557	2,975	227
Virginia Polytechnic	175	48	20,247	899	2,442	590
Washington	387	67	26,510	3,409	5,016	773
Washington State	142	32	15,800	1,534	1,411	481
Wash. Univ., St. Louis	151	68	7,035	1,062	2,772	350
Wayne State	162	38	17,191	4,978	2,019	1,472
Western Ontario	91	29	15,295	3,305	1,794	228
Wisconsin +	549	121	35,246	2,568	7,217	746
Yale	281	56	9,934	398	3,545	232
York +	42	N/A	25,110	N/A	4,528	N/A

* These figures were reported on ARL questionnaires and have not been verified with the National Center for Education Statistics.

** Includes both undergraduate and graduate students.

N/A - Not available

+ - See footnotes

THE ARL LIBRARY INDEX*

The data tables at the beginning of the ARL Statistics display figures reported by ARL member libraries in 22 categories that, with the exception of the measures of interlibrary loan activity, describe the size of ARL libraries in terms of holdings, expenditures, and personnel. The rank order tables provide an overview of the ranges and medians for 14 of these categories, or variables, among ARL academic libraries, as well as quantitatively comparing each library with other ARL member institutions. However, no one of the 22 variables provides a summary measure of a library's relative size within ARL or characterizes the ARL libraries as a whole.

The ARL Library Index has been derived as a means of providing this summary characterization, permitting quantitative comparisons of ARL academic libraries, singly and as a group, with other academic libraries. Through the use of statistical techniques known as factor analysis, it can be determined that 15 of the variables reported to ARL are more closely correlated with each other than with other categories. Within this group of 15 variables, some are subsets or combinations of others, e.g. expenditures for serials are a subset of expenditures for library materials. When the subsets and combinations are eliminated, ten variables emerge as characteristic of ARL library size. These are: volumes held, volumes added (gross), microform units held, current serials received, expenditures for library materials, expenditures for binding, total salary and wage expenditures, other operating expenditures, number of professional staff, and number of nonprofessional staff.

These ten categories delineate an underlying dimension, or factor, of library size. By means of principal component analysis, a technique that is a variant of factor analysis, it is possible to calculate the correlations of each of the variables with this hypothetical factor of library size. From this analysis, a weight for each variable can be determined based upon how closely that variable is correlated with the overall dimension of library size defined by all ten categories. A high correlation indicates that much of the variation in ARL library size is accounted for by the variable in question, implying a characteristic in which ARL libraries are relatively alike. The component score coefficients, or weights, for the 1982-83 ARL academic library data are:

Volumes held	.12372
Volumes added (gross)	.12075
Microforms held	.07568
Current serials received	.12147
Expenditures for library materials	.12455
Expenditures for binding	.11398
Expenditures for salaries and wages	.12725
Other operating expenditures	.10002
Number of professional staff	.12752
Number of nonprofessional staff	.11816

*For a full description of the index see Kendon Stubbs, The ARL Library Index and Quantitative Relationships in the ARL (Washington, D.C.: ARL, 1980).

From these weights an individual library can compute an index score that will indicate its relative position among ARL libraries with respect to the overall factor of library size. The data for each of the ten variables are converted to standard normal form and multiplied by the appropriate weight. The resulting scores are expressed in terms of the number of standard deviations above or below the mean index score for ARL academic libraries. Thus the formula* for calculating a library's 1982-83 index score is:

$$\begin{aligned}
 &.12372 (\log \text{ of volumes held} - 6.3218)/.2133 \\
 + &.12075 (\log \text{ of volumes added gross} - 4.8455)/.1988 \\
 + &.07568 (\log \text{ of microforms} - 6.2023)/.1756 \\
 + &.12147 (\log \text{ of current serials} - 4.3567)/.2334 \\
 + &.12455 (\log \text{ of expenditures for materials} - 6.3575)/.1573 \\
 + &.11398 (\log \text{ of expenditures for binding} - 5.1132)/.2283 \\
 + &.12725 (\log \text{ of total salaries} - 6.5740)/.2046 \\
 + &.10002 (\log \text{ of operating expenditures} - 5.8456)/.2688 \\
 + &.12752 (\log \text{ of professional staff} - 1.8313)/.1854 \\
 + &.11816 (\log \text{ of nonprofessional staff} - 2.1416)/.2015
 \end{aligned}$$

The index scores for the 104 academic libraries that were members of ARL during 1982-83 are shown on the following page. It is important to emphasize that these scores are only a summary description of library size, distributing ARL libraries along a normal curve, based on ten quantitative measures that are positively correlated with one another in ARL libraries. The scores are in no way a qualitative assessment of the collections, services, or operations of these libraries.

*For calculation on a hand calculator, the formula can be mathematically simplified to:

$$\begin{aligned}
 &.58003 \times \log \text{ of volumes held} \\
 + &.60739 \times \log \text{ of volumes added gross} \\
 + &.43098 \times \log \text{ of microforms} \\
 + &.52044 \times \log \text{ of current serials} \\
 + &.79180 \times \log \text{ of expenditures for materials} \\
 + &.49926 \times \log \text{ of expenditures for binding} \\
 + &.62195 \times \log \text{ of total salaries} \\
 + &.37210 \times \log \text{ of operating expenditures} \\
 + &.68781 \times \log \text{ of professional staff} \\
 + &.58640 \times \log \text{ of nonprofessional staff} \\
 - &27.91629
 \end{aligned}$$

ARL Library Index, 1982-1983

1. Harvard	3.08	53. Virginia Polytechnic	-.33
2. Calif., Berkeley	2.49	54. Hawaii	-.36
3. Calif., Los Angeles	2.36	55. Texas A&M	-.36
4. Yale	2.13	56. Washington, St. Louis	-.37
5. Stanford	2.08	57. Georgetown	-.40
6. Texas	1.96	58. Houston	-.40
7. Toronto	1.90	59. Miami	-.40
8. Michigan	1.80	60. Southern Illinois	-.43
9. Columbia	1.73	61. South Carolina	-.46
10. Illinois	1.70	62. Western Ontario	-.50
11. Cornell	1.65	63. Emory	-.51
12. Washington	1.43	64. Brigham Young	-.54
13. Wisconsin	1.42	65. Oklahoma	-.55
14. Minnesota	1.27	66. Connecticut	-.56
15. British Columbia	1.08	67. York	-.56
16. Ohio State	1.01	68. Washington State	-.56
17. Princeton	.97	69. Colorado	-.56
18. North Carolina	.94	70. Purdue	-.57
19. Pennsylvania State	.92	71. Iowa State	-.57
20. Indiana	.87	72. Rochester	-.61
21. Arizona	.86	73. Brown	-.61
22. Chicago	.79	74. Calif., Irvine	-.61
23. Calif., Davis	.73	75. Wayne State	-.61
24. Virginia	.68	76. Vanderbilt	-.66
25. Rutgers	.68	77. Temple	-.69
26. Pennsylvania	.62	78. SUNY - Stony Brook	-.69
27. New York	.55	79. Utah	-.69
28. Howard	.53	80. Tennessee	-.70
29. Alberta	.51	81. Nebraska	-.74
30. Northwestern	.43	82. Tulane	-.75
31. Georgia	.43	83. Manitoba	-.77
32. Florida	.40	84. Georgia Tech	-.80
33. Duke	.39	85. North Carolina State	-.80
34. Southern California	.38	86. Massachusetts	-.84
35. Michigan State	.31	87. Florida State	-.93
36. Pittsburgh	.23	88. McMaster	-.94
37. Iowa	.21	89. Delaware	-.94
38. SUNY - Buffalo	.19	90. Queen's	-.95
39. Kansas	.14	91. Oregon	-.99
40. Calif., San Diego	.10	92. Dartmouth	-1.01
41. Arizona State	.04	93. Notre Dame	-1.10
42. Maryland	.04	94. SUNY - Albany	-1.13
43. Johns Hopkins	-.05	95. New Mexico	-1.15
44. Calif., Santa Barbara	-.05	96. Calif., Riverside	-1.16
45. Louisiana State	-.09	97. Alabama	-1.20
46. Boston	-.11	98. Saskatchewan	-1.24
47. MIT	-.13	99. Colorado State	-1.28
48. Syracuse	-.13	100. Oklahoma State	-1.30
49. Kentucky	-.18	101. Guelph	-1.34
50. McGill	-.18	102. Kent State	-1.41
51. Cincinnati	-.24	103. Case Western Reserve	-1.43
52. Missouri	-.31	104. Rice	-1.50

SUMMARY OF RANK ORDER TABLES FOR UNIVERSITY LIBRARIES

The table below presents the rank for each university library in each of the fourteen categories for which rank order tables are prepared. As a further indication of the relative position of each institution, note that, in the individual rank order tables on the following pages, "group codes" are used. This is done because, in a number of cases, there is a relatively insignificant difference between two institutions which are nevertheless given two different rankings. The "coarser" ranking provided by clustering institutions into groups (based upon ranges) more realistically describes a library's relative standing.

The table numbers in the chart below refer to the following categories:

Table 1 - Volumes in Library	Table 8 - Materials Expenditures
Table 2 - Volumes Added (Gross)	Table 9 - Materials & Binding Expenditures
Table 3 - Total Microform Holdings	Table 10 - Salaries & Wages Expenditures
Table 4 - Current Serials	Table 11 - Total Expenditures
Table 5 - Professional Staff (FTE)	Table 12 - Total Items Lent
Table 6 - Nonprofessional Staff (FTE)	Table 13 - Total Items Borrowed
Table 7 - Total Staff (FTE)	Table 14 - Current Serials Expenditures

INSTITUTION	TABLES													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Alabama	73	97	84	96	85	101	95	69	70	102	99	91	88	91
Alberta	33	29	55	84	35	11	21	32	34	15	18	55	33	75
Arizona	24	18	18	25	28	26	23	20	20	31	26	8	53	21
Arizona State	55	27	53	43	57	39	43	29	28	55	48	41	4	25
Boston	78	52	35	35	53	51	48	52	50	62	52	95	34	43
Brigham Young	62	45	90	76	43	102	35	N/A	N/A	N/A	N/A	97	29	N/A
British Columbia	34	15	12	22	15	6	13	23	24	9	13	38	37	N/A
Brown	54	93	101	85	46	77	69	80	77	76	64	96	83	88
Calif., Berkeley	4	1	10	1	6	7	3	6	5	3	3	16	8	6
Calif., Davis	56	31	42	13	45	27	37	12	12	27	22	15	55	13
Calif., Irvine	103	59	80	81	83	92	74	39	39	59	55	59	22	57
Calif., Los Angeles	5	8	11	4	3	12	6	3	3	5	2	6	18	5
Calif., Riverside	101	82	95	90	103	95	101	88	88	87	88	94	24	93
Calif., San Diego	65	42	93	30	68	34	46	36	35	35	33	46	45	52
Calif., Santa Barbara	69	55	41	54	71	45	50	40	40	36	40	37	12	67
Case Western Reserve	84	104	104	93	54	99	92	101	101	91	93	5	21	86
Chicago	11	13	96	11	42	41	36	37	36	30	27	22	90	36
Cincinnati	90	95	56	62	44	52	44	45	45	39	42	19	13	37
Colorado	46	89	19	49	90	84	86	71	71	64	73	72	50	59
Colorado State	92	87	99	80	91	97	102	102	102	93	100	71	36	94

N/A - Not available

INSTITUTION	TABLES													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Columbia	7	23	8	7	7	10	9	17	15	7	9	40	61	11
Connecticut	57	54	54	69	58	98	85	72	72	56	63	28	32	40
Cornell	12	14	4	8	8	14	14	11	11	14	10	32	59	N/A
Dartmouth	72	94	67	59	99	70	91	91	92	98	91	88	49	60
Delaware	66	60	91	68	100	91	98	58	57	99	90	76	96	80
Duke	19	33	89	29	25	29	25	31	30	33	36	24	66	23
Emory	58	62	81	66	69	71	77	53	53	75	66	25	64	56
Florida	31	43	21	40	29	43	27	35	37	44	35	29	10	28
Florida State	79	102	20	78	64	87	73	77	78	97	96	61	75	74
Georgetown	87	51	83	63	50	88	53	62	61	51	50	92	80	90
Georgia	36	32	7	14	38	35	39	26	26	50	46	21	65	18
Georgia Tech	61	19	46	39	88	104	104	100	100	103	103	51	101	87
Guelph	86	44	100	102	102	59	93	97	99	84	94	101	60	99
Harvard	1	3	3	2	1	1	1	1	1	1	1	11	57	1
Hawaii	51	37	58	21	56	78	63	55	60	45	53	65	98	44
Houston	91	47	25	75	62	54	55	56	54	73	69	82	67	62
Howard	95	39	65	36	26	42	47	19	21	23	15	103	103	20
Illinois	3	5	31	3	13	8	10	14	16	13	14	2	1	9
Indiana	15	11	78	33	17	21	12	22	22	21	23	13	26	38
Iowa	27	30	26	28	40	79	60	24	23	48	41	12	56	10
Iowa State	74	68	66	50	79	72	79	47	49	71	67	36	71	48
Johns Hopkins	30	69	87	65	39	28	41	49	52	47	34	47	5	46
Kansas	32	40	77	31	36	47	45	30	31	43	37	14	3	31
Kent State	76	76	92	104	104	93	97	103	103	92	95	98	15	101
Kentucky	53	75	14	20	51	64	61	41	46	53	54	45	23	34
Louisiana State	43	50	49	44	52	75	64	18	18	63	45	85	92	32
MIT	52	57	75	48	30	37	42	83	79	41	51	31	73	65
Manitoba	96	79	102	99	48	36	54	85	81	46	59	60	42	82
Maryland	64	73	45	56	33	40	31	42	41	34	38	69	100	41
Massachusetts	49	41	82	95	70	68	70	82	86	57	77	73	40	92
McGill	37	48	103	88	37	20	30	70	69	22	32	20	30	68
McMaster	97	61	97	94	93	46	83	51	55	69	72	81	52	72
Miami	82	49	44	64	66	61	56	66	65	65	62	57	46	69

N/A - Not available

TABLES

INSTITUTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Michigan	6	9	17	5	10	9	5	7	7	10	8	30	14	4
Michigan State	23	21	39	52	41	57	38	43	42	40	39	86	81	58
Minnesota	16	20	50	16	12	30	18	15	13	12	12	1	6	12
Missouri	39	65	9	57	73	67	76	60	58	80	76	26	38	35
Nebraska	70	71	62	60	76	73	88	81	82	95	89	66	76	55
New Mexico	99	77	28	103	86	76	75	99	98	86	93	89	86	96
New York	25	56	51	32	27	24	24	33	32	24	25	75	31	16
North Carolina	22	17	40	17	16	25	22	16	17	26	24	34	78	33
North Carolina State	102	78	34	73	94	69	87	63	64	89	86	23	93	78
Northwestern	21	22	76	23	18	44	26	38	38	28	31	67	25	27
Notre Dame	67	81	98	97	89	85	99	98	96	96	97	99	94	97
Ohio State	17	24	30	34	19	22	16	9	10	17	16	17	17	24
Oklahoma	45	36	63	72	74	94	80	67	68	74	70	52	7	39
Oklahoma State	93	86	71	86	96	103	100	94	94	100	102	70	68	83
Oregon	63	85	88	67	87	96	89	61	63	88	87	58	70	79
Pennsylvania	20	38	59	26	23	38	32	54	43	25	29	79	19	51
Pennsylvania State	29	12	16	41	20	13	17	27	27	19	19	54	16	22
Pittsburgh	28	34	48	51	34	31	29	48	47	37	43	18	54	89
Princeton	18	26	57	24	22	15	19	21	19	20	20	84	77	29
Purdue	68	66	70	71	95	33	51	75	75	60	65	77	62	49
Queen's	75	84	94	92	97	32	62	79	80	67	83	100	51	84
Rice	98	100	64	98	101	100	103	95	97	101	101	68	102	81
Rochester	50	63	27	100	59	89	68	74	73	70	75	44	58	66
Rutgers	40	25	52	45	21	17	20	34	33	16	21	27	39	14
SUNY Albany	104	101	33	79	80	80	94	93	93	90	92	53	9	61
SUNY Buffalo	38	53	15	42	24	49	40	44	44	42	44	33	43	26
SUNY Stony Brook	89	72	38	61	82	63	72	65	67	81	81	43	63	54
Saskatchewan	100	98	74	101	92	62	90	78	84	72	85	93	27	76
South Carolina	44	67	32	74	55	65	78	92	91	83	84	62	85	95
Southern California	35	35	60	19	32	48	34	28	29	32	30	90	99	19
Southern Illinois	59	91	23	55	60	74	52	76	76	49	57	9	72	45
Stanford	9	7	13	12	4	4	7	4	4	4	4	35	41	2
Syracuse	41	46	24	47	49	50	49	73	74	61	56	102	79	77

N/A - Not available

INSTITUTION	TABLES													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Temple	60	83	85	83	47	60	57	96	95	54	74	80	87	71
Tennessee	80	103	61	38	77	55	65	89	89	79	32	48	82	63
Texas	8	4	6	6	9	5	8	2	2	8	7	50	20	7
Texas A & M	85	70	29	70	72	56	59	59	56	66	58	7	11	53
Toronto	10	2	43	15	5	2	2	5	6	2	5	39	35	8
Tulane	77	74	68	91	78	82	82	50	51	94	80	83	48	70
Utah	42	99	36	89	84	81	71	84	83	77	79	78	28	98
Vanderbilt	71	80	86	77	63	66	58	86	85	78	71	56	69	73
Virginia	26	28	5	37	31	23	28	25	25	29	28	87	97	30
Virginia Polytechnic	88	58	2	46	75	83	96	64	62	85	78	49	91	47
Washington	14	10	1	18	14	18	15	10	9	18	17	3	74	3
Washington State	94	92	37	27	98	86	81	57	59	82	68	104	104	50
Washington, St. Louis	47	88	79	82	61	58	66	68	66	68	49	42	44	42
Wayne State	48	96	72	87	65	90	84	90	90	58	60	10	95	85
Western Ontario	81	90	69	58	67	19	33	46	48	38	47	64	89	64
Wisconsin	13	16	22	10	11	16	11	13	14	11	11	4	2	15
Yale	2	6	47	9	2	3	4	8	8	6	6	63	47	17
York	83	64	73	53	81	53	67	87	87	52	61	74	84	100

N/A - Not available

RANK ORDER TABLE 1: VOLUMES IN LIBRARY

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group ranges (in thousands) are:

1- 8,000 and over	5- 4,000-4,999
2- 7,000-7,999	6- 3,000-3,999
3- 6,000-6,999	7- 2,000-2,999
4- 5,000-5,999	8- 1,000-1,999

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	Harvard	10,567,240	50	Rochester	1,925,138	
2	2	Yale	7,880,025	51	Hawaii	1,914,846	
3	3	Illinois	6,411,948	52	MIT	1,906,374	
	4	Calif., Berkeley	6,336,301	53	Kentucky	1,894,632	
4	5	Calif., Los Angeles	5,744,144	54	Brown	1,847,736	
	6	Michigan	5,597,266	55	Arizona State	1,830,329	
	7	Columbia	5,270,432	56	Calif., Davis	1,827,150	
	8	Texas	5,057,649	57	Connecticut	1,801,211	
	9	Stanford	5,040,940	58	Emory	1,789,395	
5	10	Toronto	4,856,750	59	Southern Illinois	1,756,367	
	11	Chicago	4,688,361	60	Temple	1,742,595	
	12	Cornell	4,516,717	61	Georgia Tech	1,661,559	
	13	Wisconsin	4,281,749	62	Brigham Young	1,625,278	
	14	Washington	4,168,079	63	Oregon	1,586,877	
	15	Indiana	4,105,734	64	Maryland	1,577,178	
	16	Minnesota	4,037,478	65	Calif., San Diego	1,566,293	
6	17	Ohio State	3,779,819	66	Delaware	1,554,082	
	18	Princeton	3,519,262	67	Notre Dame	1,543,952	
	19	Duke	3,261,222	68	Purdue	1,538,062	
	20	Pennsylvania	3,120,976	69	Calif., Santa Barbara	1,532,918	
7	21	Northwestern	2,973,100	70	Nebraska	1,523,130	
	22	North Carolina	2,952,859	71	Vanderbilt	1,517,038	
	23	Michigan State	2,898,698	72	Dartmouth	1,516,998	
	24	Arizona	2,853,707	73	Alabama	1,511,340	
	25	New York	2,756,470	74	Iowa State	1,498,279	
	26	Virginia	2,550,064	75	Queen's	1,495,596	
	27	Iowa	2,494,680	76	Kent State	1,484,183	
	28	Pittsburgh	2,472,489	77	Tulane	1,478,003	
	29	Pennsylvania State	2,402,938	78	Boston	1,449,992	
	30	Johns Hopkins	2,393,572	79	Florida State	1,448,753	
	31	Florida	2,349,473	80	Tennessee	1,448,738	
	32	Kansas	2,323,678	81	Western Ontario	1,447,373	
	33	Alberta	2,316,560	82	Miami	1,444,582	
	34	British Columbia	2,262,210	83	York	1,436,146	
	35	Southern California	2,247,063	84	Case Western Reserve	1,432,425	
	36	Georgia	2,226,090	85	Texas A & M	1,418,345	
	37	McGill	2,188,662	86	Guelph	1,408,433	
	38	SUNY-Buffalo	2,181,241	87	Georgetown	1,407,270	
	39	Missouri	2,160,287	88	Virginia Polytechnic	1,391,736	
	40	Rutgers	2,083,310	89	SUNY-Stony Brook	1,374,100	
	41	Syracuse	2,065,873	90	Cincinnati	1,371,023	
	42	Utah	2,045,797	91	Houston	1,360,084	
	43	Louisiana State	2,017,365	92	Colorado State	1,356,950	
	44	South Carolina	2,003,347	93	Oklahoma State	1,346,878	
8	45	Oklahoma	1,981,440	94	Washington State	1,346,609	
	46	Colorado	1,972,172	95	Howard	1,315,753	
	47	Washington, St. Louis	1,953,047	96	Manitoba	1,293,852	
	48	Wayne State	1,941,348	97	McMaster	1,273,954	
	49	Massachusetts	1,938,833	98	Rice	1,146,577	
				99	New Mexico	1,126,047	
				100	Saskatchewan	1,124,670	
				101	Calif., Riverside	1,121,512	
				102	North Carolina State	1,092,724	
				103	Calif., Irvine	1,068,363	
				104	SUNY-Albany	1,062,495	

RANK ORDER TABLE 2: VOLUMES ADDED (GROSS)

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 200,000 and over	6- 100,000-119,999
2- 180,000-199,999	7- 80,000- 99,999
3- 160,000-179,999	8- 60,000- 79,999
4- 140,000-159,999	9- 40,000- 59,999
5- 120,000-139,999	10- under 40,000

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	Calif., Berkeley	230,171	9	51	Georgetown	65,155
	2	Toronto	202,440		52	Boston	64,566
2	3	Harvard	185,225		53	SUNY-Buffalo	64,353
	4	Texas	177,633		54	Connecticut	62,302
3	5	Illinois	176,095		55	Calif., Santa Barbara	61,291
	6	Yale	172,165		56	New York	60,479
	7	Stanford	163,099		57	MIT	60,414
					58	Virginia Polytechnic	60,210
					59	Calif., Irvine	60,040
4	8	Calif., Los Angeles	157,008	10	60	Delaware	59,047
	9	Michigan	142,708		61	McMaster	58,617
	10	Washington	140,418		62	Emory	58,408
5	11	Indiana	139,064		63	Rochester	57,465
	12	Pennsylvania State	138,885		64	York	57,174
	13	Chicago	130,629		65	Missouri	56,398
	14	Cornell	126,398		66	Purdue	56,022
	15	British Columbia	124,309		67	South Carolina	55,924
	16	Wisconsin	121,531		68	Iowa State	55,590
	17	North Carolina	121,501		69	Johns Hopkins	54,996
6	18	Arizona	117,601		70	Texas A & M	54,368
	19	Georgia Tech	116,017		71	Nebraska	54,221
	20	Minnesota	106,352		72	SUNY-Stony Brook	54,065
	21	Michigan State	103,774		73	Maryland	53,113
	22	Northwestern	103,280		74	Tulane	51,889
	23	Columbia	103,145		75	Kentucky	49,749
	24	Ohio State	100,480		76	Kent State	49,581
7	25	Rutgers	99,269		77	New Mexico	49,502
	26	Princeton	95,131		78	North Carolina State	49,441
	27	Arizona State	92,452		79	Manitoba	49,287
	28	Virginia	91,553		80	Vanderbilt	48,995
	29	Alberta	88,842		81	Notre Dame	48,451
	30	Iowa	87,282		82	Calif., Riverside	47,709
	31	Calif., Davis	86,582		83	Temple	47,672
	32	Georgia	84,473		84	Queen's	47,506
	33	Duke	84,246		85	Oregon	46,811
	34	Pittsburgh	83,864		86	Oklahoma State	46,496
	35	Southern California	82,782		87	Colorado State	46,054
	36	Oklahoma	80,305		88	Washington, St. Louis	45,795
8	37	Hawaii	79,591		89	Colorado	45,213
	38	Pennsylvania	79,247		90	Western Ontario	44,832
	39	Howard	74,781		91	Southern Illinois	44,422
	40	Kansas	72,575		92	Washington State	43,998
	41	Massachusetts	70,256		93	Brown	43,367
	42	Calif., San Diego	69,363		94	Dartmouth	42,861
	43	Florida	69,272		95	Cincinnati	42,626
	44	Guelph	68,111		96	Wayne State	42,601
	45	Brigham Young	67,754		97	Alabama	41,437
	46	Syracuse	67,750		98	Saskatchewan	41,324
	47	Houston	67,737	10	99	Utah	38,542
	48	McGill	67,439		100	Rice	37,450
	49	Miami	65,818		101	SUNY-Albany	36,168
	50	Louisiana State	65,728		102	Florida State	35,293
					103	Tennessee	31,012
					104	Case Western Reserve	25,518

RANK ORDER TABLE 3: MICROFORM HOLDINGS

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group ranges (in thousands) are:

1- 3,500 and over	5- 1,500-1,999
2- 3,000-3,499	6- 1,000-1,499
3- 2,500-2,999	7- 500- 999
4- 2,000-2,499	8- under 500

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	Washington	3,910,104	53	Arizona State	1,645,818	
2	2	Virginia Polytechnic	3,434,127	54	Connecticut	1,645,071	
	3	Harvard	3,021,292	55	Alberta	1,635,707	
3	4	Cornell	2,953,693	56	Cincinnati	1,615,364	
	5	Virginia	2,859,945	57	Princeton	1,603,912	
	6	Texas	2,859,799	58	Hawaii	1,536,824	
	7	Georgia	2,787,338	59	Pennsylvania	1,522,668	
	8	Columbia	2,771,509	6	60	Southern California	1,480,342
	9	Missouri	2,720,052	61	Tennessee	1,465,853	
	10	Calif., Berkeley	2,696,778	62	Nebraska	1,450,731	
	11	Calif., Los Angeles	2,695,219	63	Oklahoma	1,450,350	
	12	British Columbia	2,687,722	64	Rice	1,424,884	
	13	Stanford	2,606,866	65	Howard	1,420,593	
	14	Kentucky	2,555,680	66	Iowa State	1,394,705	
	15	SUNY-Buffalo	2,550,694	67	Dartmouth	1,363,780	
				68	Tulane	1,362,036	
4	16	Pennsylvania State	2,493,017	69	Western Ontario	1,352,999	
	17	Michigan	2,490,143	70	Purdue	1,334,465	
	18	Arizona	2,479,283	71	Oklahoma State	1,326,544	
	19	Colorado	2,476,185	72	Wayne State	1,324,228	
	20	Florida State	2,388,395	73	York	1,324,160	
	21	Florida	2,348,774	74	Saskatchewan	1,287,990	
	22	Wisconsin	2,271,769	75	MIT	1,279,067	
	23	Southern Illinois	2,194,039	76	Northwestern	1,278,889	
	24	Syracuse	2,181,160	77	Kansas	1,272,088	
	25	Houston	2,115,795	78	Indiana	1,267,234	
	26	Iowa	2,074,442	79	Washington, St. Louis	1,259,184	
	27	Rochester	2,064,509	80	Calif., Irvine	1,177,864	
	28	New Mexico	2,043,551	81	Emory	1,174,764	
	29	Texas A & M	2,042,624	82	Massachusetts	1,148,684	
	30	Ohio State	2,029,478	83	Georgetown	1,127,066	
5	31	Illinois	1,978,782	84	Alabama	1,096,010	
	32	South Carolina	1,972,448	85	Temple	1,085,089	
	33	SUNY-Albany	1,966,142	86	Vanderbilt	1,080,357	
	34	North Carolina State	1,962,167	87	Johns Hopkins	1,070,066	
	35	Boston	1,951,136	88	Oregon	1,068,547	
	36	Utah	1,942,337	89	Duke	1,055,627	
	37	Washington State	1,942,224	90	Brigham Young	1,025,393	
	38	SUNY-Stony Brook	1,930,265	91	Delaware	1,016,480	
	39	Michigan State	1,871,763	7	92	Kent State	958,194
	40	North Carolina	1,845,576	93	Calif., San Diego	950,134	
	41	Calif., Santa Barbara	1,838,028	94	Queen's	943,454	
	42	Calif., Davis	1,829,939	95	Calif., Riverside	917,757	
	43	Toronto	1,754,949	96	Chicago	911,979	
	44	Miami	1,747,541	97	McMaster	907,958	
	45	Maryland	1,747,336	98	Notre Dame	836,903	
	46	Georgia Tech	1,737,597	99	Colorado State	810,040	
	47	Yale	1,716,933	100	Guelph	801,998	
	48	Pittsburgh	1,713,068	101	Brown	778,595	
	49	Louisiana State	1,712,189	102	Manitoba	644,772	
	50	Minnesota	1,686,647	103	McGill	567,008	
	51	New York	1,676,461	8	104	Case Western Reserve	479,012
	52	Rutgers	1,672,761				

RANK ORDER TABLE 4: CURRENT SERIALS

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 90,000 and over	6- 40,000-49,999
2- 80,000-89,999	7- 30,000-39,999
3- 70,000-79,999	8- 20,000-29,999
4- 60,000-69,999	9- 10,000-19,999
5- 50,000-59,999	10- under 10,000

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	Calif., Berkeley	101,584	51	Pittsburgh	20,094	
	2	Harvard	99,500	52	Michigan State	20,002	
	3	Illinois	93,913				
2	4	Calif., Los Angeles	80,908	9	53	York	19,883
4	5	Michigan	61,464		54	Calif., Santa Barbara	19,811
	6	Texas	61,133		55	Southern Illinois	19,709
	7	Columbia	60,570		56	Maryland	19,441
5	8	Cornell	55,094		57	Missouri	19,207
	9	Yale	52,212		58	Western Ontario	18,891
	10	Wisconsin	52,153		59	Dartmouth	18,592
	11	Chicago	50,233		60	Nebraska	18,535
6	12	Stanford	46,572		61	SUNY-Stony Brook	18,463
	13	Calif., Davis	46,480		62	Cincinnati	18,445
	14	Georgia	45,126		63	Georgetown	18,367
	15	Toronto	42,941		64	Miami	18,263
	16	Minnesota	42,930		65	Johns Hopkins	18,097
	17	North Carolina	40,157		66	Emory	17,032
7	18	Washington	39,476		67	Oregon	17,011
	19	Southern California	36,765		68	Delaware	16,974
	20	Kentucky	35,050		69	Connecticut	16,969
	21	Hawaii	33,889		70	Texas A & M	16,886
	22	British Columbia	33,815		71	Purdue	16,846
	23	Northwestern	32,970		72	Oklahoma	16,823
	24	Princeton	32,910		73	North Carolina State	16,616
	25	Arizona	32,105		74	South Carolina	16,561
	26	Pennsylvania	31,687		75	Houston	16,375
	27	Washington State	31,675		76	Brigham Young	16,318
	28	Iowa	30,633		77	Vanderbilt	15,941
8	29	Duke	29,667		78	Florida State	15,935
	30	Calif., San Diego	28,883		79	SUNY-Albany	15,660
	31	Kansas	28,487		80	Colorado State	15,549
	32	New York	28,390		81	Calif., Irvine	15,301
	33	Indiana	28,346		82	Washington, St. Louis	15,210
	34	Ohio State	27,519		83	Temple	14,881
	35	Boston	25,416		84	Alberta	14,605
	36	Howard	25,078		85	Brown	14,579
	37	Virginia	25,021		86	Oklahoma State	14,503
	38	Tennessee	24,915		87	Wayne State	14,448
	39	Georgia Tech	24,754		88	McGill	14,419
	40	Florida	24,563		89	Utah	14,299
	41	Pennsylvania State	23,335		90	Calif., Riverside	14,228
	42	SUNY-Buffalo	22,933		91	Tulane	14,155
	43	Arizona State	22,422		92	Queen's	13,941
	44	Louisiana State	22,172		93	Case Western Reserve	13,461
	45	Rutgers	21,910		94	McMaster	13,424
	46	Virginia Polytechnic	21,336		95	Massachusetts	13,247
	47	Syracuse	21,232		96	Alabama	12,976
	48	MIT	20,382		97	Notre Dame	11,203
	49	Colorado	20,366		98	Rice	10,862
	50	Iowa State	20,098		99	Manitoba	10,795
				10	100	Rochester	9,894
					101	Saskatchewan	9,377
					102	Guelph	9,345
					103	New Mexico	9,317
					104	Kent State	8,718

RANK ORDER TABLE 5: PROFESSIONAL STAFF (FTE)

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 200 and over	5- 100-124
2- 175-199	6- 75- 99
3- 150-174	7- 50- 74
4- 125-149	8- under 50

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	Harvard	280	51	Kentucky	64	
2	2	Yale	179	52	Louisiana State	64	
3	3	Calif., Los Angeles	163	53	Boston	63	
	4	Stanford	150	54	Case Western Reserve	63	
	5	Toronto	150	55	South Carolina	63	
4	6	Calif., Berkeley	145	56	Hawaii	62	
	7	Columbia	140	57	Arizona State	60	
	8	Cornell	139	58	Connecticut	60	
	9	Texas	139	59	Rochester	60	
	10	Michigan	136	60	Southern Illinois	60	
	11	Wisconsin	129	61	Washington, St. Louis	60	
5	12	Minnesota	123	62	Houston	59	
	13	Illinois	120	63	Vanderbilt	58	
	14	Washington	117	64	Florida State	57	
	15	British Columbia	111	65	Wayne State	57	
	16	North Carolina	108	66	Miami	56	
	17	Indiana	105	67	Western Ontario	56	
	18	Northwestern	102	68	Calif., San Diego	55	
	19	Ohio State	101	69	Emory	55	
6	20	Pennsylvania State	98	70	Massachusetts	55	
	21	Rutgers	96	71	Calif., Santa Barbara	54	
	22	Princeton	93	72	Texas A & M	54	
	23	Pennsylvania	92	73	Missouri	52	
	24	SUNY-Buffalo	91	74	Oklahoma	51	
	25	Duke	90	75	Virginia Polytechnic	51	
	26	Howard	89	76	Nebraska	50	
	27	New York	87	77	Tennessee	50	
	28	Arizona	86	78	Tulane	50	
	29	Florida	86	8	79	Iowa State	49
	30	MIT	86	80	SUNY-Albany	49	
	31	Virginia	86	81	York	49	
	32	Southern California	85	82	SUNY-Stony Brook	48	
	33	Maryland	82	83	Calif., Irvine	47	
	34	Pittsburgh	81	84	Utah	46	
	35	Alberta	79	85	Alabama	45	
	36	Kansas	75	86	New Mexico	45	
	37	McGill	75	87	Oregon	45	
7	38	Georgia	74	88	Georgia Tech	44	
	39	Johns Hopkins	74	89	Notre Dame	44	
	40	Iowa	73	90	Colorado	43	
	41	Michigan State	73	91	Colorado State	42	
	42	Chicago	72	92	Saskatchewan	42	
	43	Brigham Young	71	93	McMaster	41	
	44	Cincinnati	69	94	North Carolina State	41	
	45	Calif., Davis	68	95	Purdue	41	
	46	Brown	66	96	Oklahoma State	40	
	47	Temple	66	97	Queen's	40	
	48	Manitoba	65	98	Washington State	40	
	49	Syracuse	65	99	Dartmouth	37	
	50	Georgetown	64	100	Delaware	36	
				101	Rice	36	
				102	Guelph	35	
				103	Calif., Riverside	32	
				104	Kent State	32	

RANK ORDER TABLE 6: NONPROFESSIONAL STAFF (FTE)

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 400 and over	5- 200-249
2- 350-399	6- 150-199
3- 300-349	7- 100-149
4- 250-299	8- 50- 99

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	Harvard	526	51	Boston		134
	2	Toronto	482	52	Cincinnati		134
2	3	Yale	390	53	York		134
				54	Houston		132
3	4	Stanford	347	55	Tennessee		131
	5	Texas	336	56	Texas A & M		125
	6	British Columbia	310	57	Michigan State		123
	7	Calif., Berkeley	302	58	Washington, St. Louis		122
4				59	Guelph		120
	8	Illinois	295	60	Temple		118
	9	Michigan	293	61	Miami		117
	10	Columbia	276	62	Saskatchewan		114
	11	Alberta	260	63	SUNY-Stony Brook		114
	12	Calif., Los Angeles	256	64	Kentucky		113
	13	Pennsylvania State	256	65	South Carolina		110
5	14	Cornell	253	66	Vanderbilt		110
				67	Missouri		109
	15	Princeton	244	68	Massachusetts		107
	16	Wisconsin	236	69	North Carolina State		107
	17	Rutgers	230	70	Dartmouth		105
	18	Washington	229	71	Emory		105
	19	Western Ontario	219	72	Iowa State		105
	20	McGill	217	73	Nebraska		104
	21	Indiana	204	74	Southern Illinois		104
	22	Ohio State	203	75	Louisiana State		102
6				8	76	New Mexico	99
	23	Virginia	196	77	Brown		98
	24	New York	187	78	Hawaii		98
	25	North Carolina	184	79	Iowa		98
	26	Arizona	180	80	SUNY-Albany		97
	27	Calif., Davis	179	81	Utah		97
	28	Johns Hopkins	175	82	Tulane		95
	29	Duke	174	83	Virginia Polytechnic		95
	30	Minnesota	167	84	Colorado		94
	31	Pittsburgh	166	85	Notre Dame		94
	32	Queen's	164	86	Washington State		94
	33	Purdue	163	87	Florida State		92
	34	Calif., San Diego	159	88	Georgetown		92
	35	Georgia	159	89	Rochester		92
	36	Manitoba	159	90	Wayne State		92
	37	MIT	158	91	Delaware		91
	38	Pennsylvania	152	92	Calif., Irvine		89
	39	Arizona State	151	93	Kent State		85
40	Maryland	151	94	Oklahoma		85	
7				95	Calif., Riverside		84
	41	Chicago	149	96	Oregon		82
	42	Howard	149	97	Colorado State		75
	43	Florida	148	98	Connecticut		75
	44	Northwestern	148	99	Case Western Reserve		72
	45	Calif., Santa Barbara	139	100	Rice		72
	46	McMaster	139	101	Alabama		63
	47	Kansas	136	102	Brigham Young		63
	48	Southern California	136	103	Oklahoma State		55
	49	SUNY-Buffalo	136	104	Georgia Tech		53
50	Syracuse	135					

RANK ORDER TABLE 7: TOTAL STAFF (FTE)

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 630 and over	7- 350-399
2- 600-649	8- 300-349
3- 550-599	9- 250-299
4- 500-549	10- 200-249
5- 450-499	11- 150-199
6- 400-449	12- 100-149

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	Harvard	944	51	Purdue	253	
	2	Toronto	716	52	Southern Illinois	252	
	3	Calif., Berkeley	666				
2	4	Yale	620	10	53	Georgetown	247
					54	Manitoba	246
					55	Houston	242
3	5	Michigan	572		56	Miami	239
	6	Calif., Los Angeles	567		57	Temple	237
	7	Stanford	566		58	Vanderbilt	236
	8	Texas	557		59	Texas A & M	235
					60	Iowa	234
4	9	Columbia	535		61	Kentucky	232
	10	Illinois	534		62	Queen's	230
	11	Wisconsin	501		63	Hawaii	227
					64	Louisiana State	227
5	12	Indiana	476		65	Tennessee	226
	13	British Columbia	474		66	Washington, St. Louis	222
	14	Cornell	470		67	York	221
	15	Washington	465		68	Rochester	215
					69	Brown	212
6	16	Ohio State	444		70	Massachusetts	212
	17	Pennsylvania State	415		71	Utah	210
	18	Minnesota	410		72	SUNY-Stony Brook	209
					73	Florida State	206
7	19	Princeton	396		74	Calif., Irvine	205
	20	Rutgers	391		75	New Mexico	205
	21	Alberta	386		76	Missouri	204
	22	North Carolina	357		77	Emory	203
	23	Arizona	350		78	South Carolina	203
					79	Iowa State	202
8	24	New York	348				
	25	Duke	341	11	80	Oklahoma	198
	26	Northwestern	338		81	Washington State	198
	27	Florida	335		82	Tulane	197
	28	Virginia	332		83	McMaster	196
	29	Pittsburgh	323		84	Wayne State	196
	30	McGill	322		85	Connecticut	191
	31	Maryland	322		86	Colorado	186
	32	Pennsylvania	320		87	North Carolina State	186
	33	Western Ontario	317		88	Nebraska	184
	34	Southern California	315		89	Oregon	180
	35	Brigham Young	309		90	Saskatchewan	175
	36	Chicago	301		91	Dartmouth	172
	37	Calif., Davis	300		92	Case Western Reserve	171
					93	Guelph	170
9	38	Michigan State	298		94	SUNY-Albany	170
	39	Georgia	297		95	Alabama	167
	40	SUNY-Buffalo	287		96	Virginia Polytechnic	167
	41	Johns Hopkins	286		97	Kent State	163
	42	MIT	279		98	Delaware	156
	43	Arizona State	278		99	Notre Dame	154
	44	Cincinnati	277		100	Oklahoma State	154
	45	Kansas	272				
	46	Calif., San Diego	267	12	101	Calif., Riverside	148
	47	Howard	266		102	Colorado State	147
	48	Boston	263		103	Rice	128
	49	Syracuse	262		104	Georgia Tech	113
	50	Calif., Santa Barbara	253				

RANK ORDER TABLE 8: MATERIALS EXPENDITURES

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group ranges (in thousands) are:

1- 5,000 and over	6- 2,500-2,999
2- 4,500-4,999	7- 2,000-2,499
3- 4,000-4,499	8- 1,500-1,999
4- 3,500-3,999	9- 1,000-1,499
5- 3,000-3,499	10- under 1,000

Grp	Rank	Institution	Value	Grp	Rank	Institution	Value
1	1	Harvard	6,251,797	51	51	McMaster	2,153,238
	2	Texas	6,200,024		52	Boston	2,148,524
2	3	Calif., Los Angeles	4,960,478	53	53	Emory	2,114,835
	4	Stanford	4,631,057		54	Pennsylvania	2,108,386
3	5	Toronto	4,403,420	55	55	Hawaii	2,104,712
	6	Calif., Berkeley	4,313,694		56	Houston	2,103,484
	7	Michigan	4,268,564	57	57	Washington State	2,092,692
	8	Yale	4,111,500		58	Delaware	2,085,967
4	9	Ohio State	3,989,869	59	59	Texas A & M	2,077,193
	10	Washington	3,971,429		60	Missouri	2,041,097
	11	Cornell	3,744,400	61	61	Oregon	2,034,426
	12	Calif., Davis	3,637,044		62	Georgetown	2,022,798
	13	Wisconsin	3,543,073	8	63	North Carolina State	1,990,418
	14	Illinois	3,522,005		64	Virginia Polytechnic	1,964,000
5	15	Minnesota	3,453,396		65	SUNY-Stony Brook	1,929,767
	16	North Carolina	3,441,258		66	Miami	1,927,882
	17	Columbia	3,325,112		67	Oklahoma	1,927,508
	18	Louisiana State	3,309,250		68	Washington, St. Louis	1,914,895
	19	Howard	3,206,316		69	Alabama	1,888,852
	20	Arizona	3,194,650		70	McGill	1,852,889
	21	Princeton	3,171,448		71	Colorado	1,839,710
	22	Indiana	3,165,486		72	Connecticut	1,837,211
	23	British Columbia	3,153,525		73	Syracuse	1,809,504
	24	Iowa	3,141,842		74	Rochester	1,807,481
6	25	Virginia	2,886,476		75	Purdue	1,774,764
	26	Georgia	2,854,541		76	Southern Illinois	1,763,527
	27	Pennsylvania State	2,839,766		77	Florida State	1,723,455
	28	Southern California	2,820,361		78	Saskatchewan	1,721,078
	29	Arizona State	2,812,846		79	Queen's	1,720,700
	30	Kansas	2,773,122		80	Brown	1,716,489
	31	Duke	2,700,586		81	Nebraska	1,712,881
	32	Alberta	2,660,505		82	Massachusetts	1,702,717
	33	New York	2,632,451		83	MIT	1,692,225
	34	Rutgers	2,560,961		84	Utah	1,691,511
	35	Florida	2,555,757		85	Manitoba	1,687,732
	36	Calif., San Diego	2,515,033		86	Vanderbilt	1,678,232
	37	Chicago	2,504,372		87	York	1,630,988
7	38	Northwestern	2,476,552		88	Calif., Riverside	1,596,356
	39	Calif., Irvine	2,375,238		89	Tennessee	1,592,719
	40	Calif., Santa Barbara	2,321,075		90	Wayne State	1,579,326
	41	Kentucky	2,300,841		91	Dartmouth	1,578,641
	42	Maryland	2,287,994		92	South Carolina	1,555,760
	43	Michigan State	2,279,658		93	SUNY-Albany	1,555,223
	44	SUNY-Buffalo	2,264,228		94	Oklahoma State	1,515,737
	45	Cincinnati	2,256,060		95	Rice	1,509,483
	46	Western Ontario	2,246,251	9	96	Temple	1,478,626
	47	Iowa State	2,192,378		97	Guelph	1,455,354
	48	Pittsburgh	2,182,612		98	Notre Dame	1,452,296
	49	Johns Hopkins	2,175,457		99	New Mexico	1,430,885
	50	Tulane	2,168,437		100	Georgia Tech	1,290,196
					101	Case Western Reserve	1,242,712
					102	Colorado State	1,213,803
				10	103	Kent State	850,914

Brigham Young figure not published.

RANK ORDER TABLE 9: MATERIALS AND BINDING EXPENDITURES

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

(Group ranges (in thousands) are:

1- 5,000 and over	6- 2,500-2,999
2- 4,500-4,999	7- 2,000-2,499
3- 4,000-4,499	8- 1,500-1,999
4- 3,500-3,999	9- 1,000-1,499
5- 3,000-3,499	10- under 1,000

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	Harvard	6,807,383	51	Tulane	2,263,999	
	2	Texas	6,369,831	52	Johns Hopkins	2,249,920	
	3	Calif., Los Angeles	5,525,491	53	Emory	2,228,432	
2	4	Stanford	4,920,380	54	Houston	2,220,060	
	5	Calif., Berkeley	4,912,900	55	McMaster	2,213,337	
	6	Toronto	4,589,751	56	Texas A & M	2,207,921	
3	7	Michigan	4,499,142	57	Delaware	2,201,037	
	8	Yale	4,368,600	58	Missouri	2,199,095	
	9	Washington	4,191,971	59	Washington State	2,193,612	
4	10	Ohio State	4,131,350	60	Hawaii	2,163,723	
	11	Cornell	3,993,503	61	Georgetown	2,133,386	
	12	Calif., Davis	3,941,194	62	Virginia Polytechnic	2,130,400	
5	13	Minnesota	3,791,522	63	Oregon	2,115,267	
	14	Wisconsin	3,721,673	64	North Carolina State	2,104,027	
	15	Columbia	3,677,918	65	Miami	2,036,626	
6	16	Illinois	3,677,175	66	Washington, St. Louis	2,019,650	
	17	North Carolina	3,642,700	67	SUNY-Stony Brook	2,006,087	
	18	Louisiana State	3,465,165	68	Oklahoma	2,002,871	
7	19	Princeton	3,422,066	8	69	McGill	1,988,400
	20	Arizona	3,419,202	70	Alabama	1,979,837	
	21	Howard	3,383,854	71	Colorado	1,959,792	
8	22	Indiana	3,345,187	72	Connecticut	1,931,932	
	23	Iowa	3,335,542	73	Rochester	1,908,557	
	24	British Columbia	3,292,491	74	Syracuse	1,894,504	
9	25	Virginia	3,070,260	75	Purdue	1,880,646	
	26	Georgia	3,059,610	76	Southern Illinois	1,870,204	
	27	Pennsylvania State	2,990,859	77	Brown	1,846,501	
10	28	Arizona State	2,975,641	78	Florida State	1,813,657	
	29	Southern California	2,944,876	79	MIT	1,808,498	
	30	Duke	2,870,538	80	Queen's	1,801,561	
11	31	Kansas	2,870,257	81	Manitoba	1,799,854	
	32	New York	2,813,371	82	Nebraska	1,797,145	
	33	Rutgers	2,812,171	83	Utah	1,788,327	
12	34	Alberta	2,810,687	84	Saskatchewan	1,774,524	
	35	Calif., San Diego	2,749,612	85	Vanderbilt	1,768,721	
	36	Chicago	2,727,757	86	Massachusetts	1,758,270	
13	37	Florida	2,722,462	87	York	1,723,744	
	38	Northwestern	2,590,304	88	Calif., Riverside	1,710,389	
	39	Calif., Irvine	2,564,107	89	Tennessee	1,689,919	
14	40	Calif., Santa Barbara	2,523,516	90	Wayne State	1,682,604	
	41	Maryland	2,452,510	91	South Carolina	1,659,535	
	42	Michigan State	2,436,174	92	Dartmouth	1,634,964	
15	43	Pennsylvania	2,404,428	93	SUNY-Albany	1,606,223	
	44	SUNY-Buffalo	2,399,838	94	Oklahoma State	1,598,098	
	45	Cincinnati	2,393,184	95	Temple	1,569,313	
16	46	Kentucky	2,388,887	96	Notre Dame	1,568,436	
	47	Pittsburgh	2,354,941	97	Rice	1,559,006	
	48	Western Ontario	2,335,903	98	New Mexico	1,515,240	
17	49	Iowa State	2,317,462	99	Guelph	1,501,424	
	50	Boston	2,278,902	9	100	Georgia Tech	1,383,382
				101	Case Western Reserve	1,317,374	
			102	Colorado State	1,293,932		
			10	103	Kent State	914,171	

RANK ORDER TABLE 10: SALARIES AND WAGES

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group ranges (in thousands) are:

1- 10,000 and over	6- 5,000-5,999
2- 9,000-9,999	7- 4,000-4,999
3- 8,000-8,999	8- 3,000-3,999
4- 7,000-7,999	9- 2,000-2,999
5- 6,000-6,999	10- 1,000-1,999

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	Harvard	14,018,278	9	50	Georgia	3,489,983
	2	Toronto	11,665,104		51	Georgetown	3,404,949
	3	Calif., Berkeley	11,554,736		52	York	3,377,268
	4	Stanford	10,823,140		53	Kentucky	3,301,072
	5	Calif., Los Angeles	10,554,410		54	Temple	3,290,547
2	6	Yale	9,218,900		55	Arizona State	3,281,351
					56	Connecticut	3,260,193
3	7	Columbia	8,256,261		57	Massachusetts	3,219,864
	8	Texas	8,250,140		58	Wayne State	3,214,336
4	9	British Columbia	7,664,149		59	Calif., Irvine	3,169,348
	10	Michigan	7,565,239		60	Purdue	3,136,412
	11	Wisconsin	7,267,140		61	Syracuse	3,127,613
	12	Minnesota	7,049,057		62	Boston	3,098,501
5	13	Illinois	6,984,143		63	Louisiana State	3,091,030
	14	Cornell	6,719,577		64	Colorado	3,062,593
	15	Alberta	6,621,145				
	16	Rutgers	6,597,629				
	17	Ohio State	6,099,506				
	18	Washington	6,056,263				
6	19	Pennsylvania State	5,943,909	65	Miami	2,966,597	
	20	Princeton	5,856,673	66	Texas A & M	2,957,942	
	21	Indiana	5,677,990	67	Queen's	2,884,191	
	22	McGill	5,584,632	68	Washington, St. Louis	2,860,639	
	23	Howard	5,253,799	69	McMaster	2,851,837	
	24	New York	5,159,537	70	Rochester	2,843,403	
	25	Pennsylvania	5,126,224	71	Iowa State	2,828,877	
	26	North Carolina	5,108,007	72	Saskatchewan	2,818,865	
7	27	Calif., Davis	4,959,402	73	Houston	2,768,281	
	28	Northwestern	4,737,447	74	Oklahoma	2,741,011	
	29	Virginia	4,719,966	75	Emory	2,710,582	
	30	Chicago	4,711,380	76	Brown	2,668,839	
	31	Arizona	4,511,024	77	Utah	2,682,992	
	32	Southern California	4,486,352	78	Vanderbilt	2,666,957	
	33	Duke	4,302,483	79	Tennessee	2,622,297	
	34	Maryland	4,298,147	80	Missouri	2,612,137	
	35	Calif., San Diego	4,246,766	81	SUNY-Stony Brook	2,605,288	
	36	Calif., Santa Barbara	4,226,207	82	Washington State	2,592,421	
	37	Pittsburgh	4,221,082	83	South Carolina	2,508,741	
	38	Western Ontario	4,200,276	84	Guelph	2,500,092	
	39	Cincinnati	4,108,150	85	Virginia Polytechnic	2,488,700	
	40	Michigan State	4,020,593	86	New Mexico	2,488,563	
8	41	MIT	3,885,102	87	Calif., Riverside	2,442,049	
	42	SUNY-Buffalo	3,872,521	88	Oregon	2,437,193	
	43	Kansas	3,786,157	89	North Carolina State	2,373,316	
	44	Florida	3,784,459	90	SUNY-Albany	2,276,725	
	45	Hawaii	3,775,501	91	Case Western Reserve	2,259,056	
	46	Manitoba	3,732,654	92	Kent State	2,252,272	
	47	Johns Hopkins	3,647,874	93	Colorado State	2,245,844	
	48	Iowa	3,602,773	94	Tulane	2,218,441	
	49	Southern Illinois	3,573,302	95	Nebraska	2,175,040	
				96	Notre Dame	2,161,511	
			97	Florida State	2,116,975		
			98	Dartmouth	2,083,648		
			99	Delaware	1,842,834		
			10	100	Oklahoma State	1,699,334	
				101	Rice	1,685,340	
				102	Alabama	1,640,703	
				103	Georgia Tech	1,617,316	

RANK ORDER TABLE 11: TOTAL OPERATING EXPENDITURES

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group ranges (in thousands) are:

1- 14,000 and over	7- 8,000-8,999
2- 13,000-13,999	8- 7,000-7,999
3- 12,000-12,999	9- 6,000-6,999
4- 11,000-11,999	10- 5,000-5,999
5- 10,000-10,999	11- 4,000-4,999
6- 9,000-9,999	12- 3,000-3,999

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value	
1	1	Harvard	22,932,264		50	Georgetown	6,539,104	
	2	Calif., Los Angeles	18,810,126		51	MIT	6,465,202	
	3	Calif., Berkeley	18,548,293		52	Boston	6,279,706	
	4	Stanford	18,197,484		53	Hawaii	6,227,909	
	5	Toronto	17,428,636		54	Kentucky	6,152,707	
	6	Yale	16,088,000		55	Calif., Irvine	6,152,425	
	7	Texas	15,953,048		56	Syracuse	6,150,434	
2	8	Michigan	13,583,410	10	57	Southern Illinois	6,008,875	
	9	Columbia	13,413,639		58	Texas A & M	5,917,834	
3	10	Cornell	12,462,438	59	Manitoba	5,904,196		
	11	Wisconsin	12,424,555	60	Wayne State	5,839,239		
	12	Minnesota	12,079,384	61	York	5,713,319		
4	13	British Columbia	11,941,996	62	Miami	5,703,623		
	14	Illinois	11,921,636	63	Connecticut	5,697,201		
	15	Howard	11,896,362	64	Brown	5,586,804		
	16	Ohio State	11,698,290	65	Purdue	5,558,330		
	17	Washington	11,226,228	66	Emory	5,534,726		
5	18	Alberta	10,543,759	67	Iowa State	5,504,532		
	19	Pennsylvania State	10,345,293	68	Washington State	5,492,325		
	20	Princeton	10,273,148	69	Houston	5,432,444		
	21	Rutgers	10,198,782	70	Oklahoma	5,394,049		
6	22	Calif., Davis	9,752,412	71	Vanderbilt	5,385,921		
	23	Indiana	9,667,697	72	McMaster	5,380,873		
	24	North Carolina	9,571,099	73	Colorado	5,343,588		
	25	New York	9,320,592	74	Temple	5,328,701		
7	26	Arizona	8,987,912	75	Rochester	5,279,411		
	27	Chicago	8,767,800	76	Missouri	5,225,020		
	28	Virginia	8,746,511	77	Massachusetts	5,206,949		
	29	Pennsylvania	8,595,665	78	Virginia Polytechnic	5,198,300		
	30	Southern California	8,360,002	79	Utah	5,172,114		
	31	Northwestern	8,012,427	80	Tulane	5,051,633		
	32	McGill	8,001,650	81	SUNY-Stony Brook	5,026,753		
	8	33	Calif., San Diego	7,955,083	11	82	Tennessee	4,959,488
34		Johns Hopkins	7,873,550	83		Queen's	4,934,947	
35		Florida	7,794,701	84		South Carolina	4,921,616	
36		Duke	7,701,373	85		Saskatchewan	4,886,052	
37		Kansas	7,664,747	86		North Carolina State	4,854,625	
38		Maryland	7,620,422	87		Oregon	4,819,565	
39		Michigan State	7,526,223	88		Calif., Riverside	4,603,809	
40		Calif., Santa Barbara	7,461,780	89		Nebraska	4,574,231	
41		Iowa	7,261,777	90		Delaware	4,372,803	
42		Cincinnati	7,241,879	91		Dartmouth	4,372,286	
43		Pittsburgh	7,197,887	92		SUNY-Albany	4,296,444	
44		SUNY-Buffalo	7,044,486	93		New Mexico	4,248,759	
9		45	Louisiana State	6,964,191		94	Guelph	4,231,434
		46	Georgia	6,896,480		95	Kent State	4,182,864
		47	Western Ontario	6,715,772		96	Florida State	4,175,331
		48	Arizona State	6,710,110		97	Notre Dame	4,135,026
	49	Washington, St. Louis	6,547,231	98	Case Western Reserve	4,036,617		
	12	100	Colorado State	3,953,285	99	Alabama	4,011,437	
		101	Rice	3,705,777				
		102	Oklahoma State	3,674,461				
		103	Georgia Tech	3,544,448				

RANK ORDER TABLE 12: TOTAL ITEMS LOANED

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 50,000 and over	7- 20,000-24,999
2- 45,000-49,999	8- 15,000-19,999
3- 40,000-44,999	9- 10,000-14,999
4- 35,000-39,999	10- 5,000-9,999
5- 30,000-34,999	11- under 5,000
6- 25,000-29,999	

Grp	Rank	Institution	Value	Grp	Rank	Institution	Value	
1	1	Minnesota	154,985	51	Georgia Tech	14,377		
	2	Illinois	127,470	52	Oklahoma	13,690		
	3	Washington	93,161	53	SUNY-Albany	13,477		
	4	Wisconsin	89,843	54	Pennsylvania State	13,429		
	5	Case Western Reserve	57,659	55	Alberta	12,472		
4	6	Calif., Los Angeles	38,962	56	Vanderbilt	12,375		
	7	Texas A & M	33,982	57	Miami	12,303		
	8	Arizona	33,475	58	Oregon	12,297		
	9	Southern Illinois	33,067	59	Calif., Irvine	12,291		
	10	Wayne State	32,601	60	Manitoba	11,992		
5	11	Harvard	32,453	61	Florida State	11,718		
	12	Iowa	31,754	62	South Carolina	11,461		
	13	Indiana	31,593	63	Yale	11,444		
	14	Kansas	31,442	64	Western Ontario	11,216		
	15	Calif., Davis	30,209	65	Hawaii	11,095		
6	16	Calif., Berkeley	29,429	66	Nebraska	10,614		
	17	Ohio State	29,054	67	Northwestern	10,581		
	18	Pittsburgh	28,390	68	Rice	10,526		
	19	Cincinnati	27,278	69	Maryland	10,483		
	20	McGill	27,069	70	Oklahoma State	10,482		
7	21	Georgia	25,547	71	Colorado State	10,248		
	22	Chicago	24,151	72	Colorado	10,035		
	23	North Carolina State	23,936	73	Massachusetts	10,022		
	24	Duke	22,959	10	74	York	9,175	
	25	Emory	22,879		75	New York	9,094	
26	Missouri	22,002	76		Delaware	8,823		
27	Rutgers	21,371	77		Purdue	8,780		
28	Connecticut	21,306	78		Utah	8,769		
29	Florida	20,699	79		Pennsylvania	8,694		
30	Michigan	20,673	80		Temple	8,005		
31	MIT	20,191	81		McMaster	7,780		
8	32	Cornell	19,551		82	Houston	7,682	
	33	SUNY-Buffalo	19,433		83	Tulane	7,565	
	34	North Carolina	18,935		84	Princeton	7,104	
	35	Stanford	18,433		85	Louisiana State	6,853	
	36	Iowa State	18,386		86	Michigan State	6,840	
9	37	Calif., Santa Barbara	18,326		87	Virginia	6,779	
	38	British Columbia	17,257		88	Dartmouth	6,529	
	39	Toronto	16,702		89	New Mexico	6,419	
	40	Columbia	16,476		90	Southern California	6,199	
	41	Arizona State	15,869		91	Alabama	6,103	
10	42	Washington, St. Louis	15,808		92	Georgetown	5,954	
	43	SUNY-Stony Brook	15,746		93	Saskatchewan	5,713	
	44	Rochester	15,730		94	Calif., Riverside	5,602	
	45	Kentucky	15,630		95	Boston	5,553	
	46	Calif., San Diego	15,439		96	Brown	5,401	
11	47	Johns Hopkins	15,255		97	Brigham Young	5,376	
	48	Tennessee	15,212		98	Kent State	5,350	
	49	Virginia Polytechnic	15,196		11	99	Notre Dame	4,810
	50	Texas	14,475			100	Queen's	3,900
						101	Guelph	3,362
			102			Syracuse	2,893	
			103			Howard	2,602	
			104		Washington State	847		

RANK ORDER TABLE 13: TOTAL ITEMS BORROWED

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 17,000 and over	6- 7,000-8,999
2- 15,000-16,999	7- 5,000-6,999
3- 13,000-14,999	8- 3,000-4,999
4- 11,000-12,999	9- 1,000-2,999
5- 9,000-10,999	10- under 1,000

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	Illinois	68,049	52	McMaster	6,217	
	2	Wisconsin	30,314	53	Arizona	6,183	
2	3	Kansas	16,292	54	Pittsburgh	5,863	
				55	Calif., Davis	5,769	
3	4	Arizona State	14,790	56	Iowa	5,740	
	5	Johns Hopkins	14,516	57	Harvard	5,725	
	6	Minnesota	14,061	58	Rochester	5,693	
	7	Oklahoma	14,038	59	Cornell	5,621	
	8	Calif., Berkeley	13,218	60	Guelph	5,425	
4	9	SUNY-Albany	11,136	61	Columbia	5,194	
				62	Purdue	5,164	
5	10	Florida	10,890	63	SUNY-Stony Brook	5,132	
	11	Texas A & M	10,357	64	Emory	5,107	
	12	Calif., Santa Barbara	10,000	8	65	Georgia	4,997
	13	Cincinnati	9,734		66	Duke	4,850
	14	Michigan	9,633		67	Houston	4,806
6	15	Kent State	8,889		68	Oklahoma State	4,803
	16	Pennsylvania State	8,876		69	Vanderbilt	4,762
	17	Ohio State	8,840		70	Oregon	4,584
	18	Calif., Los Angeles	8,685		71	Iowa State	4,562
	19	Pennsylvania	8,296		72	Southern Illinois	4,547
	20	Texas	8,237		73	MIT	4,455
	21	Case Western Reserve	8,199		74	Washington	4,382
	22	Calif., Irvine	8,129		75	Florida State	4,355
	23	Kentucky	8,127		76	Nebraska	4,282
	24	Calif., Riverside	8,119		77	Princeton	4,266
	25	Northwestern	7,979		78	North Carolina	4,174
	26	Indiana	7,927	79	Syracuse	4,144	
	27	Saskatchewan	7,918	80	Georgetown	4,050	
	28	Utah	7,837	81	Michigan State	3,990	
	29	Brigham Young	7,678	82	Tennessee	3,968	
	30	McGill	7,564	83	Brown	3,879	
	31	New York	7,557	84	York	3,878	
32	Connecticut	7,524	85	South Carolina	3,875		
33	Alberta	7,362	86	New Mexico	3,874		
34	Boston	7,292	87	Temple	3,829		
35	Toronto	7,178	88	Alabama	3,826		
36	Colorado State	7,177	89	Western Ontario	3,825		
37	British Columbia	7,093	90	Chicago	3,718		
7	38	Missouri	6,852	91	Virginia Polytechnic	3,326	
	39	Rutgers	6,832	92	Louisiana State	3,212	
	40	Massachusetts	6,795	93	North Carolina State	3,206	
	41	Stanford	6,738	9	94	Notre Dame	2,997
	42	Manitoba	6,648		95	Wayne State	2,983
	43	SUNY-Buffalo	6,629		96	Delaware	2,736
	44	Washington, St. Louis	6,585		97	Virginia	2,689
	45	Calif., San Diego	6,527		98	Hawaii	2,518
	46	Miami	6,486		99	Southern California	2,100
	47	Yale	6,439		100	Maryland	2,086
	48	Tulane	6,360		101	Georgia Tech	1,996
	49	Dartmouth	6,337		102	Rice	1,834
	50	Colorado	6,232		103	Howard	1,244
	51	Queen's	6,227	10	104	Washington State	316

RANK ORDER TABLE 14: CURRENT SERIALS EXPENDITURES

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group ranges (in thousands) are:

1- 2,300 and over	6- 1,300-1,499
2- 2,100-2,299	7- 1,100-1,299
3- 1,900-2,099	8- 900-1,099
4- 1,700-1,899	9- 700-899
5- 1,500-1,699	10- under 700

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	Harvard	2,863,190	50	Washington State	1,216,758	
2	2	Stanford	2,293,307	51	Pennsylvania	1,215,140	
	3	Washington	2,279,494	52	Calif., San Diego	1,210,721	
	4	Michigan	2,276,512	53	Texas A & M	1,209,001	
	5	Calif., Los Angeles	2,254,754	54	SUNY-Stony Brook	1,187,676	
	6	Calif., Berkeley	2,248,788	55	Nebraska	1,153,186	
3	7	Texas	2,079,845	56	Emory	1,136,399	
	8	Toronto	1,945,063	57	Calif., Irvine	1,135,934	
	9	Illinois	1,934,842	58	Michigan State	1,134,803	
	10	Iowa	1,910,206	59	Colorado	1,115,363	
4	11	Columbia	1,896,788	60	Dartmouth	1,114,611	
	12	Minnesota	1,870,362	61	SUNY-Albany	1,110,562	
	13	Calif., Davis	1,830,305	62	Houston	1,100,556	
	14	Rutgers	1,790,384	8	63	Tennessee	1,094,223
	15	Wisconsin	1,779,688		64	Western Ontario	1,092,302
	16	New York	1,763,516		65	MIT	1,077,599
	17	Yale	1,759,600		66	Rochester	1,074,587
	18	Georgia	1,726,194		67	Calif., Santa Barbara	1,064,917
	19	Southern California	1,717,069		68	McGill	1,060,078
	20	Howard	1,709,183		69	Miami	1,055,346
5	21	Arizona	1,678,237		70	Tulane	1,050,070
	22	Pennsylvania State	1,603,887		71	Temple	1,043,131
	23	Duke	1,530,357		72	McMaster	1,040,421
	24	Ohio State	1,530,300		73	Vanderbilt	1,039,747
	25	Arizona State	1,508,188		74	Florida State	1,036,566
6	26	SUNY-Buffalo	1,499,924		75	Alberta	1,034,139
	27	Northwestern	1,475,982		76	Saskatchewan	1,032,472
	28	Florida	1,471,077		77	Syracuse	1,029,495
	29	Princeton	1,465,069		78	North Carolina State	973,211
	30	Virginia	1,446,562		79	Oregon	957,957
	31	Kansas	1,441,813		80	Delaware	946,576
	32	Louisiana State	1,440,965		81	Rice	926,465
	33	North Carolina	1,439,349		82	Manitoba	901,595
	34	Kentucky	1,428,876	9	83	Oklahoma State	892,980
	35	Missouri	1,363,650		84	Queen's	858,559
	36	Chicago	1,353,392		85	Wayne State	855,591
	37	Cincinnati	1,331,243		86	Case Western Reserve	853,602
	38	Indiana	1,330,154		87	Georgia Tech	845,294
	39	Oklahoma	1,326,647		88	Brown	843,563
7	40	Connecticut	1,290,171		89	Pittsburgh	819,834
	41	Maryland	1,278,886		90	Georgetown	816,273
	42	Washington, St. Louis	1,274,351		91	Alabama	812,137
	43	Boston	1,255,959		92	Massachusetts	800,342
	44	Hawaii	1,251,400		93	Calif., Riverside	775,232
	45	Southern Illinois	1,232,542		94	Colorado State	770,000
	46	Johns Hopkins	1,229,230		95	South Carolina	758,884
	47	Virginia Polytechnic	1,228,800		96	New Mexico	727,698
	48	Iowa State	1,221,621		97	Notre Dame	715,372
	49	Purdue	1,219,445		98	Utah	705,669
				10	99	Guelph	635,779
					100	York	615,521
					101	Kent State	474,774

Figures for British Columbia and Cornell not available; figure for Brigham Young not published.

Association of Research Libraries

1527 New Hampshire Avenue, N.W., Washington, D.C. 20036

(202) 232-2466

ARL STATISTICS 1982-83

Instructions for Completion of the Questionnaire

1. Definitions of the statistical categories used in this questionnaire can be found in Library Statistics: A Handbook of Concepts, Definitions and Terminology (Chicago: American Library Association, 1966).
2. All figures should be rounded to the nearest whole number.
3. In a university which 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 in its Higher Education General Information Survey describes a branch campus as one "located in a community different from that of its parent institution ... beyond a reasonable commuting distance from the main campus ... The educational activities at the location must be organized on a relatively permanent basis ... and include course offerings for one or more complete college-level programs of at least one full year.") If figures for libraries located on branch campuses are reported, please provide an explanatory footnote on p. 3 of the questionnaire.
4. Questions 1-5. Use the ALA definition for "Volume" as noted in instruction 1 above. Include duplicates and bound volumes of periodicals. Exclude microforms, nonprint materials, uncataloged items, and government documents unless cataloged. (Government document volumes classed separately may be included if cataloged.) If any of these items must be included, please provide an explanatory footnote on p. 3 of the questionnaire.
5. Question 6. Include duplicate subscriptions and government document serials. Because of the number of questions raised regarding the counting of serials, we call to your attention the definition to be used for this survey.

Publications constituting one issue in a continuous series under the same title published at regular or irregular intervals, over an indefinite period, individual issues in the series being numbered consecutively or each issue being dated. Newspapers as well as publications appearing annually or less frequently are included in the definition.

6. Questions 12-15 - Personnel. Report the number of staff in filled positions, or positions which are only temporarily vacant. Include staff hired for special projects and grants, but provide an explanatory footnote indicating the number of such staff on p. 3 of the questionnaire. The number of FTE staff should be determined on the basis of the length of the work week in the reporting library. Round figures to the nearest whole numbers.

7. Question 12. 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, such as computer experts, systems analysts, budget officers, etc.
8. Questions 16-22 - Expenditures. Report all expenditures, regardless of whether the funds come from the regular library budget or from special funds, such as research grants. When special project or grant funds are included, please provide a footnote indicating the amount of such funds on p. 3 of the questionnaire. Include federal funds for work study students. The questionnaire assumes a fiscal year ending June 30, 1982. If your fiscal year is different, please provide a footnote on p. 3 of the questionnaire.

Canadian libraries should report expenditures in both Canadian and U.S. dollars. To determine figures in U.S. dollars, divide Canadian dollar amounts by 1.2349, the average monthly noon exchange rate published in the Bank of Canada Review for the period July 1982 - June 1983.

9. Question 20. Exclude fringe benefits.
10. Question 21. Report net expenditures after any cost recovery. Exclude expenditures for buildings and maintenance.
11. Questions 25-26 - Ph.D. Degrees. 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.) are not required for this survey. If you are unable to provide a figure for Ph.D.s only, please note this in a footnote on p. 3 of the questionnaire.
12. Question 26. For the purposes of this report, Ph.D. fields are equivalent to the several hundred specific discipline specialties enumerated in the form used by the U.S. Department of Education entitled, "Higher Education General Information Survey, Degrees . . . Conferred," designated as NCES Form 2300-2.1A-1. This year NCES is initiating a major change in the breakdown of disciplines used in the form by introducing a new classification that provides about three times as many subject categories. Therefore, the number of Ph.D. fields reported for your institution may be greater than in previous years.

Although the HEGIS form requests figures for all doctoral degrees, only fields in which Ph.D.s are awarded should be reported on the ARL questionnaire. Any exceptions should be noted in a footnote on p. 3 of the questionnaire.

13. Questions 27-30 - Enrollment. U.S. libraries should use figures reported to the Department of Education on the form entitled "Higher Education General Information Survey, Fall Enrollment and Compliance Report . . . 1982," designated as NCES Form 2300-2.3A. The line and column numbers on the HEGIS form for each category are noted on the questionnaire.

14. 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. 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.
15. After the questionnaire has been completed please compare the figures with those submitted last year. On occasion, an error will be detected because of an unusual difference between numbers submitted this year and those for the preceding year.
16. Return one copy of the questionnaire to the ARL Office by October 3, 1983. If there are any questions about the procedure to be followed in completing this questionnaire, contact the ARL Office.

Association of Research Libraries

1527 New Hampshire Avenue, N.W., Washington, D.C. 20036

(202) 232-2466

ARL STATISTICS QUESTIONNAIRE, 1982-83

Reporting Library _____

Questionnaire Completed by (Name) _____

Phone Number _____ Date Returned to ARL _____

COLLECTIONS (See instructions 4-5)

1. Volumes held June 30, 1982 (Exclude microforms and govt. docs.)
(Record figure reported last year or footnote adjusted figure on p.3) _____
2. Volumes added during year - Gross
(Exclude microforms and govt. docs.) _____
3. Volumes withdrawn during year
(Exclude microforms and govt. docs.) _____
4. Volumes added during year - Net (Subtract line 3 from line 2) _____
5. Volumes held June 30, 1983 (Add line 1 to line 4) _____
6. Number of current serials, including periodicals, received
(See instruction 5) _____
7. Reels of microfilm held June 30, 1983 _____
8. Number of microcards held June 30, 1983 _____
9. Number of microprint sheets held June 30, 1983 _____
10. Number of microfiche sheets held June 30, 1983 _____
11. Total microform units held June 30, 1983 (Add lines 7, 8, 9, 10) _____

PERSONNEL (See instructions 6-7) (Round figures to nearest whole number)

12. Number of professional staff, FTE _____
13. Number of nonprofessional staff, FTE _____
14. Number of student assistants, FTE _____
15. Total FTE staff (Add lines 12, 13, 14) _____

ARL Statistics Questionnaire - Page 2

	Dollars Canadian (Canadian libraries only)	Dollars U.S. (Divide Canadian dollars by 1.2319)
<u>EXPENDITURES</u> (See instructions 8-10)		
16. Books, serials and other library materials	_____	_____
17. Current serials including periodicals (See instruction 5) (Subtotal of 16)	_____	_____
18. Binding	_____	_____
19. Total library materials and binding (Add lines 16, 18)	_____	_____
20. Total salaries and wages, including student assistants' wages (omit fringe benefits)	_____	_____
21. Other operating expenditures (See instruction 10)	_____	_____
22. Total library expenditures (Add lines 19, 20, 21)	_____	_____

INTERLIBRARY LOANS

23. Items loaned: Originals _____; Photocopies _____; Total _____

24. Items borrowed: Originals _____; Photocopies _____; Total _____

PH.D. DEGREES (See instructions 11-12)

25. Number of Ph.D.s awarded _____

26. Number of fields in which Ph.D.s can be awarded _____

ENROLLMENT - FALL 1982 (See instruction 13)

27. Total full-time students (line 14, columns 13 and 14) _____

28. Total FTE part-time students (line 28, column 15) _____

29. Total full-time graduate students
(line 11, columns 13 and 14) _____

30. Total FTE part-time graduate students
(line 25, column 15) _____

ARL Statistics Questionnaire - Page 3

FOOTNOTES FOR ARL STATISTICS, 1982-83

(Compare with footnotes from previous year as they appear in the published ARL Statistics.)

1. Law Library statistics are included.

☐ Yes ☐ No ☐ We do not have a Law Library.

2. Medical Library statistics are included.

☐ Yes ☐ No ☐ We do not have a Medical Library.

3. Other libraries not included:

4. Figures include reports from branch campus libraries. (See instruction 3.)

☐ Yes ☐ No

5. If branch campus libraries are included, please specify which campuses:

6. Basis of volume count is: ☐ Physical ☐ Bibliographical

7. Count of current serials (question 6) includes government document serials.

☐ Yes ☐ No

8. Fringe benefits are included in expenditures for salaries and wages (question 20).

☐ Yes ☐ No

9. Other comments:

Please return completed questionnaire to the ARL Office by October 3, 1983

FOOTNOTES TO ARL STATISTICS, 1982-83

<u>Institution</u>	<u>Category from Main Table</u>	<u>Notes</u>
ALABAMA		All figures are as of September 30, 1983.
ALBERTA		Excludes Extension Library, Boreal Institute Library, St. Joseph's College Library, St. Jean Library, and Map Library.
	(5)	Figure represents periodicals only.
	(12-18)	Expenditures reported in Canadian dollars were: (12) \$3,285,457; (13) \$1,277,058; (14) \$185,460; (15) \$3,470,917; (16) \$8,176,452; (17) \$1,373,119; (18) \$13,020,488.
	(6-22)	Figures are as of March 31, 1983.
ARIZONA	(1)	Includes government documents received through 1978.
	(12,16,17)	Includes special grant funds of \$10,255 for materials, \$119,551 for salaries and wages, and \$10,122 for other operating expenditures.
ARIZONA STATE		Includes Law Library not included in previous reports.
BOSTON		Includes the Theology Library.
		Ph.D. count includes all doctorates other than M.D. and D.M.D. Count of Ph.D. fields based on pre-1983 NCES classification.
BRIGHAM YOUNG		Figures are as of August 31, 1983.
	(3)	Library made a concentrated effort to withdraw duplicate copies in all subject disciplines during the year.
	(12-18)	Reported, but not published.

<u>Institution</u>	<u>Category from Main Table</u>	<u>Notes</u>
BRITISH COLUMBIA		Figures are as of March 31, 1983.
	(1)	1981-82 figure revised because reading room collections are no longer part of the Library system.
	(19, 20, 22)	Salaries of 4.5 professionals, 25 nonprofessionals, and 5 FTE students are paid from grants.
	(12-18)	Expenditures reported in Canadian dollars were: (12) \$3,894,288; (14) \$171,609; (15) \$4,065,897; (16) \$9,464,458; (17) \$1,216,816; (18) \$14,747,171.
BROWN		Includes John Carter Brown Library. Also includes Annmary Brown Library which was not included in previous years' reports.
	(18)	Includes Title II-C funding.
CISTI		All figures are as of March 31, 1983.
		Includes 14 branch libraries throughout Canada which serve the divisions of the National Research Council of Canada, CISTI's parent organization.
	(12-18)	Expenditures reported in Canadian dollars were: (12) \$6,164,560; (13) \$3,526,412; (14) \$25,440; (15) \$6,190,000; (16) \$5,384,000; (17) \$3,561,000; (18) \$15,135,000.
CALIF., DAVIS		Excludes Michael and Margaret B. Harrison Western Research Center Library.
CALIF., LOS ANGELES	(1)	Includes 711,200 volumes which are recently reclassified government documents not included in previous years' reports.
	(1-3)	Initial volume count in 1940s was bibliographical; subsequent counts of added volumes have been physical.
		Ph.D. count includes Ed.D. and D.S.W. degrees.

<u>Institution</u>	<u>Category from Main Table</u>	<u>Notes</u>
CALIF., RIVERSIDE	(12)	Includes \$2,040 in grant funds.
	(16)	Includes \$22,229 in federal work study funds and \$545 in other grants.
	(17)	Includes \$6,679 in grant funds.
CALIF., SAN DIEGO	(1)	1981-82 figure revised.
CASE WESTERN RESERVE	(1)	1981-82 figure revised.
	(1-3)	Count is physical for some libraries and bibliographical for others.
CHICAGO	(1-3)	Includes a bibliographical count of microforms.
	(22)	Includes 17 FTE staff on special grants.
COLORADO	(16)	Includes \$162,552 from work study funds.
COLORADO STATE	(5)	Reduced by 163 titles from 1981-82 totals reported after title-by-title inventory of holdings.
	(16)	Includes fringe benefits.
COLUMBIA	(16)	Includes \$36,854 for special projects. Excludes expenditures for fringe benefits of \$1,553,692.
	(17)	Includes \$21,856 for special projects.
	(19,20)	Part of 8 professional and 10 nonprofessional salaries were funded by special projects.
CORNELL		Includes Geneva Experiment Station.
	(1)	1981-82 figure revised to exclude Annex Library.
	(12)	Includes \$114,797 in grant and special project expenditures.
	(16)	Includes \$763,661 in work study funds.
DARTMOUTH	(1)	Includes government documents.

<u>Institution</u>	<u>Category from Main Table</u>	<u>Notes</u>
DARTMOUTH (cont'd)	(5)	Includes cataloged government documents.
	(19,20)	Includes 1 professional, 6.5 nonprofessionals paid from grant funds.
DUKE	(1)	1981-82 figure revised.
	(13)	Includes expenditures for monographic sets and series.
	(16)	Previous year's figure inadvertently included fringe benefits.
EMORY	(5)	Includes 906 government document serials not included in previous years' reports.
	(12-18)	Figures are as of August 31, 1983.
	(16)	Includes \$68,749 in project, grant, and work study funds.
	(20,21)	Includes 2 FTE nonprofessionals and 4 FTE student assistants paid from grant funds.
FLORIDA STATE	(16)	Includes some fringe benefits.
GEORGETOWN		Excludes Center for Population Research (2,000 volumes).
	(1)	1981-82 figure revised.
	(17)	Library computer costs of \$45,947 are not included as they are not charged to the Library's budget.
GEORGIA		Includes experiment stations at Griffin, Tifton, Skidaway, and Sapelo.
GEORGIA TECH	(1)	Includes some microforms.
	(18)	Figure includes \$54,540 from research and grants.
GUELPH		All figures are as of April 30, 1983.

<u>Institution</u>	<u>Category from Main Table</u>	<u>Notes</u>
GUELPH (cont'd)	(12-18)	Expenditures reported in Canadian dollars were: (12) \$1,797,216; (13) \$785,123; (14) \$56,892; (15) \$1,854,108; (16) \$3,088,386; (17) \$283,926; (18) \$5,226,420.
	(17)	Includes cost of computer operations in the amount of Can. \$111,000 (maintenance of minicomputer and terminals, \$68,000, and charges for use of University's main computer, \$43,000).
HARVARD		Includes research institutions in District of Columbia, Texas, and Italy.
	(18)	Separate figure for expenditures from grants and special projects not available. Expenditures do not include fringe benefits (\$2,552,214), building and maintenance charged to library budgets (\$2,561,966), cost-recovery items (\$1,173,592). Total reported expenses including these items: \$29,220,036.
HAWAII		Excludes Industrial Relations Library, Hawaii Institute of Geophysics Library, and School of Public Health Reference Collection, all not under university library administration.
	(12)	Includes \$98,289 in federal grant funds.
HOUSTON		All figures are as of August 31, 1983.
ILLINOIS		Part-time enrollments are headcounts, not FTE.
INDIANA	(1)	1981-82 figure revised.
		Figures are reported for the Bloomington campus only. Prior to 1979-80 figures were reported in addition for the six regional campuses and the Indianapolis campuses. System-wide figures for all campuses of the University, comparable to those reported in previous years, are: (1) 5,695,649; (2) 200,200; (3)

<u>Institution</u>	<u>Category from Main Table</u>	<u>Notes</u>
INDIANA (cont'd)		157,471; (4) 2,443,747; (5) 47,434; (6) 16,336; (7) 30,709; (8) 47,045; (9) 14,552; (10) 17,115; (11) 31,667; (12) \$5,080,711; (13) \$2,617,815; (14) \$279,524; (15) \$5,360,235; (16) \$8,436,020; (17) \$997,820; (18) \$14,794,075; (19) 171; (20) 296; (21) 216; (22) 683.
IOWA	(5)	Includes only those government documents received on paid subscriptions.
	(18)	Includes \$49,548 in gifts and \$87,152 in federal grant funds.
	(20)	Includes .5 FTE paid from grant funds.
JOHN CRERAR		Collections data include Crerar Library only. Fiscal and staff data include all services, grant and contract operations. All data represent the latest figures available and are for the period October 1, 1981 - September 30, 1982.
	(1-5)	Includes government documents.
JOHNS HOPKINS		Includes Peabody Conservatory Library, Welch Medical Library, School of Hygiene and Public Health Library, Applied Physics Laboratory Library, and School of Advanced International Studies in Washington, D.C. and Bologna, Italy.
	(1)	1981-82 figure revised.
KANSAS		Includes School of Medicine in Kansas City.
	(19-22)	Includes 5 FTE professionals, 4 FTE nonprofessionals, and 3 FTE student assistants that are grant funded positions. Count of Ph.D. fields includes one joint program with Kansas State, for a total of 51 fields at Lawrence campus and 10 at Medical Center in Kansas City.

<u>Institution</u>	<u>Category from Main Table</u>	<u>Notes</u>
KANSAS (cont'd)		Changed from 1981-82 reporting due to consolidation or transfer of programs; no Ph.D. fields were discontinued.
KENT STATE	(17)	Includes fringe benefits.
LIBRARY OF CONGRESS		All figures are as of September 30, 1983.
	(5)	Estimated figure.
LINDA HALL		All figures are as of December 31, 1982.
	(4)	1981-82 figure revised.
LOUISIANA STATE		Includes Veterinary Medicine Library.
	(1)	1981-82 figure revised. Includes bound government documents.
McGILL		All figures are as of May 31, 1983.
	(1)	1981-82 figure revised.
	(12)	Includes Can. \$200,000 in special funds.
	(16)	Includes Can. \$124,156 for contracted security services.
	(12-18)	Expenditures reported in Canadian dollars were: (12) \$2,288,133; (13) \$1,309,090; (14) \$167,343; (15) \$2,455,476; (16) \$6,896,462; (17) \$529,300; (18) \$9,881,238.
McMASTER		All figures are as of April 30, 1983.
	(12-18)	Expenditures reported in Canadian dollars were: (12) \$2,659,033; (13) \$1,284,817; (14) \$74,217; (15) \$2,733,250; (16) \$3,521,734; (17) \$389,857; (18) \$6,644,841.
	(19)	Includes 3 FTE paid by grant funds.
MANITOBA		All figures are as of March 31, 1983.

<u>Institution</u>	<u>Category from Main Table</u>	<u>Notes</u>
MANITOBA (cont'd)	(12-18)	Expenditures reported in Canadian dollars were: (12) \$2,084,180; (13) \$1,113,380; (14) \$138,460; (15) \$2,222,640; (16) \$4,609,454; (17) \$458,998; (18) \$7,291,092.
	(12,13,16,17)	Includes grants (in Canadian dollars): (12) \$46,615; (13) \$2,165; (16) \$47,130; (17) \$14,261.
	(19,20)	Includes 2 FTE professionals and 1 FTE nonprofessional paid through grant funds.
MARYLAND		College of Library and Information Services data are included for collections and expenditures (except salaries and wages), but not for personnel.
	(1, 4)	1981-82 figures revised.
	(16, 21)	Expenditures for federal work study students are not included, but these students are included in the calculation of FTE student assistants.
MASSACHUSETTS	(5)	Includes some government documents which are cataloged separately from the Government Documents Collection.
MIAMI	(16)	Excludes Director's salary.
	(16, 20)	Includes 7 nonprofessionals hired for special project with University funds.
	(17)	Includes \$323,083 in service fees which pay staff, operating, and materials expenses.
	(18)	Includes \$191,526 in special project and grant funds.
MICHIGAN		Excludes Dearborn Campus Library and the University of Michigan, Flint Library.
	(1)	Includes microforms held in the Transportation Research Institute.
	(16)	Excludes Transportation Research Institute.

<u>Institution</u>	<u>Category from Main Table</u>	<u>Notes</u>
MICHIGAN STATE	(1)	1981-82 figure revised.
MISSOURI	(17)	Includes \$56,305 of special and grant funds.
NAT. AGRIC. LIB.		U.S.D.A. field libraries not included. Figures are as of September 30, 1983.
NAT. LIB. OF CANADA		Figures for holdings, interlibrary loans, and expenditures are as of March 31, 1983.
	(5)	This year's figures include current serials only; last years' figure included all serials.
	(12-18)	Expenditures reported in Canadian dollars were: (12) \$1,868,247; (13) \$407,642; (14) \$15,600; (15) \$1,883,847; (16) \$14,433,666; (17) \$9,569,112; (18) \$25,886,625.
	(19-22)	Figures represent headcount (as of September 20, 1983), not FTE.
NAT. LIB. OF MED.	(12-22)	Statistics on personnel and expenditures reflect only the Library Operations component of the National Library of Medicine, namely: Reference Services Division, Bibliographic Services Division, Technical Services Division, History of Medicine Division, Medical Subject Headings Section, and the Office of the Associate Director for Library Operations.
NEBRASKA	(1)	Excludes Law Library, which was included in previous years reports.
NEWBERRY	(14)	Covers in-house bindery and associated costs. According to in-house cost accounting, the expenditure for binding is \$86,913.
NEW MEXICO	(5)	Previous years' figure revised.
NEW YORK	(2)	Decrease due to a change in the method of counting at New York University's Law Library.

<u>Institution</u>	<u>Category from Main Table</u>	<u>Notes</u>
NEW YORK (cont'd)	(4)	Decrease reflects withdrawal of 142,610 duplicate fiche.
NEW YORK PUBLIC	(5)	Beginning in 1976, serial count comprised both serials and periodicals. Prior to 1976 only periodical titles were reported. Includes current and dead titles; no separate count kept of current cataloged titles.
	(12-18)	1982-83 expenditure figures not yet available. Figures given are for 1981-82.
NEW YORK STATE LIB.		All figures as of March 31, 1983.
NORTH CAROLINA	(19, 20, 22)	4.5 FTE professionals and 1 FTE nonprofessional funded on federal grant.
	(12)	Includes \$520,163 in grants and special project funds.
	(16)	Does not include federal work study funds.
NORTH CAROLINA STATE		Includes Veterinary Medical Library.
NORTHWESTERN		Includes Dental Library.
		All figures are as of August 31, 1983.
	(12-18)	Includes project and grant funds as follows: (12) \$203,277; (16) \$60,323 and \$222,074 of federal work study funds; (17) \$56,912.
	(19-22)	Includes 3 FTE professionals, 2 FTE nonprofessionals, and 1 FTE student on special projects.
NOTRE DAME	(4)	Does not include microforms in various departmental collections.
OHIO STATE		Includes University Archives.
	(1)	1981-82 figure revised.
	(19-22)	Includes 2 FTE professionals, 2 FTE nonprofessionals, 2.5 FTE students on special grant funds.

<u>Institution</u>	<u>Category from Main Table</u>	<u>Notes</u>
OKLAHOMA STATE		Excludes OSU Technical Institute in Oklahoma City and OSU School of Technical Training in Okmulgee.
PENNSYLVANIA STATE		Includes main campus and branches at Allentown, Altoona, Beaver, Berks, Delaware Co., DuBois, Fayette, Hazleton, McKeesport, Mont Alto, New Kensington, Ogontz, Schuylkill, Scranton, Shenango Valley, Wilkes-Barre, York, Behrend College and King of Prussia Center for Graduate Studies. Excludes Capitol Campus at Middletown, Pennsylvania.
	(17)	Includes \$82,576 partial payment on computer upgrade and \$165,935 of special project funds for automation program.
PITTSBURGH	(1)	Includes cataloged government documents which were not reported in 1981-82, but which had been reported in previous years.
	(12-18)	Figures include \$246,195 expended from gifts, grants, and endowments.
PRINCETON	(20)	Includes 5 nonprofessionals on grant funds.
QUEEN'S		Figures are as of April 30, 1983.
		Excludes Library of the Industrial Relations Centre.
	(12-18)	Expenditures reported in Canadian dollars were: (12) \$2,124,893; (13) \$1,060,234; (14) \$99,855; (15) \$2,224,748; (16) \$3,561,688; (17) \$307,731; (18) \$6,094,167.
RICE	(19-22)	Includes positions funded by external grants.
ROCHESTER		Includes Sibley Music Library of Eastman School of Music.
	(5)	Count revised based on first year of using computer (CONDAT) figures.

<u>Institution</u>	<u>Category from Main Table</u>	<u>Notes</u>
RUTGERS		Figures include services to a non-Rutgers medical school, colleges and professional schools in Camden, Newark, and New Brunswick.
SASKATCHEWAN		Excludes Theological College libraries on campus that are not part of the library system.
	(1)	1981-82 figure revised.
	(12-18)	Figures as of April 30, 1983. Expenditures reported in Canadian dollars were: (12) \$2,125,359; (13) \$1,275,000; (14) \$66,000; (15) \$2,191,359; (16) \$3,481,016; (17) \$361,410; (18) \$6,033,785.
SMITHSONIAN		All figures are as of September 30, 1983.
		Includes Smithsonian Astrophysical Observatory in Cambridge, Mass. and Mt. Hopkins, Ariz.; Cooper-Hewitt Museum in New York City; and Smithsonian Tropical Research Institute in Panama. Excludes Hirshhorn Museum and Sculpture Garden, Woodrow Wilson International Center for Scholars, Freer Gallery of Art, National Museum of American Art, and National Portrait Gallery.
	(1-3)	Includes microforms in volume equivalents.
SOUTH CAROLINA	(22)	Includes 4 FTE paid by grant funds.
SOUTHERN CALIF.		Includes the Andrus Gerontology Center Library and the Hancock Library of Biology and Oceanography. Does not include the Safety and Systems Management Library and Arnold Schoenberg Institute Library.
SOUTHERN ILLINOIS		Excludes Center for Dewey Studies; Papers of Ulysses S. Grant; Instructional Development, Research and Evaluation Faculty of Learning Resources Service; School of Medicine

<u>Institution</u>	<u>Category from Main Table</u>	<u>Notes</u>
SOUTHERN ILLINOIS (cont'd)		Library (Springfield). Includes the School of Law Library, which is not administratively part of Library Affairs.
STANFORD	(1)	1981-82 figure revised.
	(16)	Excludes federal workstudy funds.
	(12-18)	Figures are as of August 31, 1983.
SUNY, ALBANY		Includes the Graduate Library of Public Policy (formerly Hawley Library) on East campus.
	(12)	Includes \$15,258 in grant funds.
	(16)	Excludes federal work study allocations.
	(12-18)	Figures are as of March 31, 1983.
SUNY, BUFFALO		Figures are as of March 31, 1983.
	(19,20)	Includes 2 professional and 4 nonprofessional FTE on special projects/grants.
SUNY, STONY BROOK		Figures are as of March 31, 1983.
	(12-18)	Includes funds from the Income Fund Reimbursable account as follows: (12) \$1,158; (16) \$37,336; (17) \$48,598.
	(20)	Includes 3 FTE supported through subcontract with Regional Medical Library and reimbursable funds.
SYRACUSE		Excludes Utica College.
	(16)	Includes \$89,740 for Academic Computer Center staff.
	(17)	Includes Academic Computer Center computer rentals, collection insurance, CRL dues, as well as regular operating expenditures.
	(19)	Includes 3.5 FTE in Academic Computer Center.

<u>Institution</u>	<u>Category from Main Table</u>	<u>Notes</u>
SYRACUSE (cont'd)		Ph.D.'s awarded include all doctoral degrees.
TEMPLE		Excludes Journalism, Health, Physical Education, Recreation, and Dance Libraries and other departmental collections.
	(1)	1981-82 figure revised.
	(12)	Includes \$42,925 in grant funds.
	(16)	Includes \$31,750 in grant and endowment funds and \$60,612 in work study funds.
	(17)	Includes \$25,089 in grant and endowment funds. Figure increased from previous years due to late charges for building renovations and new accounting procedures for computer operations.
TENNESSEE	(19)	Includes 1 FTE paid from grants funds.
TEXAS		Figures are as of August 31, 1983 and include the General Libraries, Law Library, and the Humanities Research Center.
	(1)	1981-82 figure revised to include Lewis and Edie Wasserman Public Affairs Library and Richard T. Flemming University Writings Collection.
	(15)	Includes expenditures of \$3,258,560 by General Libraries, \$611,271 by Law Library, and \$2,500,000 by Humanities Research Center.
	(16)	Includes Title II-C and federal work study funds.
	(22)	Includes staff hired on grant funds.
TEXAS A & M		All figures are as of August 31, 1983.
		Includes Medical Science Library, which was not included in 1980-81 and 1981-82 reports.

<u>Institution</u>	<u>Category from Main Table</u>	<u>Notes</u>
TEXAS A&M (cont'd)	(1)	1981-82 figure revised to include Medical Science Library holdings.
TORONTO		Includes only the libraries of the university within the President's budget; excludes the libraries of the federated and affiliated institutions.
	(1)	Includes government documents, some of which are cataloged.
	(12-18)	Expenditures reported in Canadian dollars were: (12) \$5,437,783; (13) \$2,401,958; (14) \$230,100; (15) \$5,667,883; (16) \$14,405,237; (17) \$1,449,503; (18) \$21,522,623.
TULANE		Includes Delta Primate Center in Covington, La.
	(4)	Excludes holdings for Medical Library.
	(16)	Includes some fringe benefits.
VANDERBILT	(1)	1981-82 figure revised.
	(6-11)	Excludes Law Library.
	(17)	Includes \$64,065 for video tapes not included in collections count.
VIRGINIA POLY.		Includes "open reserve" collection of approximately 10,000 volumes at Northern Virginia Graduate Center in Falls Church, Virginia.
WASHINGTON	(1)	1981-82 figure revised.
	(5)	Includes only government document serials that are cataloged.
	(19-22)	Includes 8 FTE professionals, 9.5 FTE nonprofessionals, 9 FTE students on special projects and grants.
WASHINGTON STATE	(19-22)	Includes 2 FTE professionals, 10 FTE nonprofessionals, 11 FTE students for Instructional Media Services.

<u>Institution</u>	<u>Category from Main Table</u>	<u>Notes</u>
WASHINGTON, ST. LOUIS	(1)	1981-82 figures revised. Includes cataloged volumes in Special Collections not previously reported.
WAYNE STATE	(15-17)	Includes project and grant funds as follows: (15) \$51,961; (16) \$339,804; (17) \$430,740.
	(19-22)	Includes FTE staff on special projects or grants: 3 professional, 9 non-professional, 4 student assistants.
WESTERN ONTARIO		Excludes libraries of 3 affiliated colleges, School of Library and Information Science, libraries operated within single university departments.
	(1-4)	Holdings are as of April 30, 1983.
	(12-18)	Expenditures reported in Canadian dollars were: (12) \$2,773,895; (13) \$1,348,884; (14) \$110,711; (15) \$2,884,606; (16) \$5,186,921; (17) \$221,780; (18) \$8,293,307.
WISCONSIN	(1)	1981-82 figure revised; based on corrected count from Health Sciences Library.
	(5)	Figure revised based on new count in Engineering and Agriculture Libraries.
	(18)	Includes \$286,579 of federal grant and work study funds.
	(22)	Includes 15 FTE paid by federal grant and work study funds.
		Ph.D. and enrollment figures reported for 1981-82 were incorrect.
YALE		Includes Lewis-Walpole Library in Farmington, Connecticut.
	(15)	Excludes \$75,800 for preservation supplies.
	(18)	Total expenditures exclude fringe benefits, \$1,735,200; utility costs, \$941,200; buildings and grounds

<u>Institution</u>	<u>Category from Main Table</u>	<u>Notes</u>
YALE (cont'd)		maintenance, \$963,500; central university assessments, \$575,100; capital outlays (renovations), \$917,500; new construction, \$498,100. The total library expenditures were \$21,718,600.
YORK		All figures are as of April 30, 1983. Includes Glendon campus.
	(12-18)	Expenditures reported in Canadian dollars were: (12) \$2,014,107; (13) \$760,107; (14) \$114,544; (15) \$2,128,651; (16) \$4,170,588; (17) \$756,138; (18) \$7,055,377. Figures are as of April 30, 1983.
	(19,20)	Includes 2 FTE professional and 1.5 FTE nonprofessional staff paid by special project grant funds. Statistical information on enrollments is in fiscal full-time equivalents.

ARL STATISTICAL COMPILATIONS

1. ARL Statistics.

Published annually. Formerly Academic Library Statistics; title changed with 1974-75 edition.

a. 1963-64 to date.

Current issued available from the Association. Price: \$10.00 per issue (ARL members, \$8.00). When out-of-print, this publication may be ordered from:

ERIC Document Reproduction Service
P.O. Box 190
Arlington, Virginia 22210

b. 1919-20 to 1962-63.

Compiled by Princeton University Library and available from:

University Microfilms International
300 North Zeeb Road
Ann Arbor, Michigan 48106

1) 1944-45 to 1962-63. Special Film No. S-338.

Published as "Princeton University Library Statistics."

2) 1919-20 to 1943-44. AG 1-OP30634.

Originally published in 1947 under title: College and University Library Statistics.

2. Cumulated ARL University Library Statistics, 1962-63 through 1978-79. 1981.

Compiled by Kendon Stubbs and David Buxton for the Committee on ARL Statistics. Includes ARL annual statistics and salary data, plus data on university enrollments, expenditures, federal support, and Ph.D.'s awarded from non-ARL sources and not included in the printed ARL Statistics.

a. Book format. Available from the Association. Price: \$15.00 (ARL members, \$10.00).

b. 1600 b.p.i., 9-track magnetic tape. Suitable for use with SPSS, BMDP, SAS, and other statistical software. Price: \$40.00 (with documentation).

Order from: Kendon L. Stubbs
Alderman Library
University of Virginia
Charlottesville, Virginia 22901

3. The ARL Library Index and Quantitative Relationships in the ARL. 1981.

A detailed description of the index developed as a summary indicator of relative ARL library size, prepared by Kendon Stubbs for the Committee on ARL Statistics. Available from the Association. Price \$5.00 (ARL members, \$2.50)

4. ARL Annual Salary Survey.

Published annually since 1967-68. Provides data on beginning and median professional salaries, as well as numbers and average salaries for positions in ARL university libraries and distribution of these positions by sex and minority group, and by location, size, and type of institution.

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