

DOCUMENT RESUME

ED 308 872

IR 052 826

AUTHOR Daval, Nicola, Comp.; Feather, Celeste, Comp.
 TITLE ARL Statistics, 1987-88. A Compilation of Statistics from the One Hundred and Nineteen Members of the Association of Research Libraries.
 INSTITUTION Association of Research Libraries, Washington, D.C.
 PUB DATE 89
 NOTE 100p.; For the ARL Statistics of 1985-86, see ED 285 594.
 AVAILABLE FROM Association of Research Libraries, 1527 New Hampshire Ave., NW, Washington, DC 20036 (members \$20.00/year; nonmembers \$60.00/year).
 PUB TYPE Statistical Data (110) -- Reports - Research/Technical (143) -- Tests/Evaluation Instruments (160)
 EDRS PRICE MF01/PC04 Plus Postage.
 DESCRIPTORS *Academic Libraries; Doctoral Programs; Enrollment; Foreign Countries; Higher Education; Interlibrary Loans; *Library Collections; *Library Expenditures; *Library Personnel; *Library Statistics; Library Surveys; Microforms; Questionnaires; *Research Libraries; Statistical Analysis; Tables (Data)
 IDENTIFIERS *Association of Research Libraries; Canada; United States

ABSTRACT

This report presents statistics on the 107 university libraries and 12 independent research libraries that were members of the ARL (Association of Research Libraries) during the 1987-88 fiscal year. Data are reported in alphabetical and rank order on collections (volumes in library, gross and net volumes added, monographs purchased, current serials purchased and not purchased, and microform holdings); interlibrary loans; personnel (professional staff, non-professional staff, and student assistants); and expenditures (materials, salaries and wages, monographs, serials, other operating, and total expenditures). Ph.D.s awarded, faculty, enrollment statistics and rank order tables of university libraries are also included. A copy of the ARL statistics questionnaire is attached. (MSE)

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ARL STATISTICS, 1987-88

Errata Sheet

Duke University (Library no. 26)

Page 15: Column 9 (Total Items Loaned) - 35,583
Column 10 (Total Items Borrowed) - 6,282

University of Georgia (Library no. 31)

Page 15: Column 16 (Current Serials Expenditures) - \$2,681,722
Page 16: Column 20 (Contract Binding Expenditures) - \$238,234

University of Southern California (Library no. 82)

Page 24: Column 11 (Professional Staff) - 89
Column 12 (Nonprofessional Staff) - 213
Column 13 (Student Assistants FTE) - 208
Column 14 (Total Staff) - 510

Yale University (Library no. 106)

Page 27: Column 14 (Total Staff) - 668

New York Public Library (Library no. 117)

Page 28: Column 20 (Contract Binding Expenditures) - \$431,077

Temple University (Library no. 89)

Page 92: Excludes branch campus libraries in Rome and Tokyo.

Add codes as follows:

Page 11: University of Chicago - b	Page 26: Washington Univ., St. Louis - L,M
Page 14: Emory University - M	University of Waterloo - B
Page 17: Johns Hopkins University - M	Wayne State University - B,L,M
University of Michigan - L,M	University of Western Ontario - L,M
Page 20: Northwestern University - b,L,M	University of Wisconsin - L,M
University of Oklahoma - b,L,M	Yale University - b,L,M
Page 23: Stanford University - B,L,M	York University - B,L
	National Library of Canada - G

ARL STATISTICS, 1987-88

ARL STATISTICS

1987-88

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

Compiled by
Nicola Davai
and
Celeste Feather

**ASSOCIATION OF RESEARCH LIBRARIES
WASHINGTON, D.C.
1989**

The *ARL Statistics* is published annually by the Association of Research Libraries, 1527 New Hampshire Ave., N.W., Washington, D.C. 20036.

Price: ARL members, \$20.00/year
Nonmembers, \$60.00/year

ARL statistical data are also available from the Association in machine-readable form.

Association of Research Libraries.

ARL statistics,
Washington, Association of Research Libraries.

v. 29 cm.

Began with 1974/75 issue.

Continues: Academic library statistics, ISSN 0571-8519.

Key title: ARL statistics, ISSN 0147-2135

1. Libraries, University and college—United States—Statistics—Collected works. 2. Research libraries—United States—Statistics—Collected works. 3. Libraries, University and college—Canada—Statistics—Collected works. 4. Research libraries—Canada—Statistics—Collected works. I. Title.

Z675.U5A78

027.773

77-647280

MARC-S

Library of Congress

77

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Printed in the United States of America

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INTRODUCTION

The 1987-88 *ARL Statistics* presents data from the 119 U.S. and Canadian libraries that were members of the Association of Research Libraries during the 1987-88 fiscal year. The ARL membership consists of 107 university libraries and 12 public or private, independent research libraries. The University of Illinois at Chicago joined ARL during the fiscal year, and its data are reported here for the first time.

The 1987-88 statistics paint a disheartening picture of research libraries paying more for materials and buying less. Since 1985-86 ARL has been collecting data that allow calculation of rough price indexes for monographs and serials, to which 91% of the materials budget is devoted in university libraries. In the university libraries that have reported monographs and purchased serials over the last three years, the median unit prices of both monographs and serials increased 12% from fiscal year 1987 to 1988. For the three-year period 1986 to 1988, the statistics indicate the following percent changes:

	<u>Monographs</u>	<u>Serials</u>
Median unit prices	+21%	+32%
Total expenditures	+2%	+30%
Number purchased	-15%	0%

Because of price increases, university libraries paid about one-third more in 1988 for the same number of serial subscriptions they had in 1986, and they bought 15% fewer monographs. It seems clear that ARL libraries are trying to protect their serials at the expense of monographs.

In order to provide a longer view of changes indicated by the data, an analysis was done of the statistics of the 93 university libraries that have been members of ARL since 1978-79 and that lacked no more than one data value for the ten years from 1978-79 through 1987-88. Highlights of the analysis are described in the following sections.

Expenditures: Over the ten-year period the various categories of expenditures increased as follows:

	<u>Overall Increases</u>	<u>Annual Rates</u>
Monographs, microforms, and other non-serial materials	91%	7%
Serials	143%	10%
Salaries and wages	87%	7%
Other operating expenses, including binding	162%	11%
Total expenditures	105%	8%

For some categories the calculated compound annual rates above (based on the differences between 1988 and 1979 data) differ in some years from the actual yearly increases. For example, as indicated earlier, expenditures for monographs and other non-serials have increased hardly at all since 1986. In respect to serials, increases during the years 1982-86 were under 10%, but since 1986 the increases have been 17% and 12%. After years of annual increases in the 9-16% range, the 1988 increase in other operating expenditures was inexplicably lower.

As a result of differing rates of increase, the ratios of the major expenditure categories to total expenditures have been changing steadily. The table below displays the ratios 25 years ago, 10 years ago, and in 1988, together with predicted ratios in the year 2000 if 1979-88 trends continue:

	<u>1964</u>	<u>1979</u>	<u>1988</u>	<u>2000</u>
Salaries and wages	59%	57%	52%	45%
Library materials	31%	31%	33%	35%
Other operating expenses	10%	12%	15%	20%

By the end of the century, if recent trends continue, serials will comprise two-thirds of materials expenditures. Almost twice as much will be spent on other operating expenditures (for example, automation and equipment) as on monographs, microforms, and other non-serial materials. Ten years ago, 75% of ARL libraries spent more--sometimes considerably more--on non-serial materials than on other operating expenses. 1988 is the first year in which a majority of libraries (56%) are spending more on other operating than on monographs, microforms, etc. ARL is changing from the "classic" 60/30/10 model for personnel/materials/other, to a 45/35/20 model. More and more, 15% of the budget that used to go to personnel is going to materials and other operating expenditures.

Collections: Because of rising prices ARL libraries are less well off in building their collections than they were ten years ago. They are adding only about 96% as many volumes as they added in 1979: some 350,000 volumes fewer in 1988 than in 1979 for the 93 university libraries in the analysis. The number of current serials is 13% higher than ten years ago, but this 13% increase in serials has been paid for with a 143% increase in the serials bill.

Personnel: Total staff in the 93 libraries increased by 10%, or 2,717 FTE's. 27% of the increase was professional staff, 25% nonprofessionals, and 48% student assistants. About two-thirds of the libraries had more professionals, more student assistants, and more total staff in 1988 than in 1979. 58% had more nonprofessionals.

The preceding analysis is based on aggregate data. Those using the *ARL Statistics* to compare individual libraries should consult the symbols indicated in the "ARL Library Data Tables" and in the "Footnotes". Although definitions used in the *Statistics* aim at achieving consistency, variant reporting practices do exist among ARL libraries. To aid comparability, expenditures of Canadian libraries are expressed in U.S. dollars in the *ARL Statistics*; the exchange rate used for 1987-88 is 1.2826 Canadian dollars to one U.S. dollar.¹

The rank order tables presented in this publication are based on quantitative data supplied by ARL member libraries. They are not indicative of qualitative factors and, therefore, should not be used as measures of library quality. In comparing any individual library to ARL medians or to other ARL members, one must be careful to make such comparisons within the context of differing institutional and local goals and characteristics.

Kendon Stubbs
University of Virginia
January 8, 1989

¹ The rate used is the average monthly noon exchange rate published in the Bank of Canada Review for the period July 1987-June 1988. Expenditures reported in Canadian dollars are given in the "Footnotes" to the *ARL Statistics*.

ARL LIBRARY DATA TABLES

ARL LIBRARY DATA TABLE

COLLECTIONS

INSTITUTION	Libr No.	Volumes In Library	Volumes Added (Gross)	Volumes Added (Net)	Mono-graphs Purchased	Current Serials Purchased	Current Serials Not Purchased	Current Serials Total	Total Microform Units In Library
		1	2	3	4	5	6	7	8
	GLM+	1,733,048	48,075	38,911	12,187	14,795	670	17,465	1,781,513
	GLM+	1,733,048	48,075	38,911	12,187	14,795	670	17,465	1,781,513
	GLM+	2,123,050	58,627	57,716	38,513	12,909	2,166	15,075	2,173,632
	GLM+	2,340,993	124,580	132,703	U/A	U/A	U/A	94,757	2,475,750
BOSTON	GLM+	1,665,753	57,964	43,417	22,466	17,749	11,626	29,375	2,587,487
BRIGHAM YOUNG	+	1,926,477	65,964	63,253	38,025	11,089	7,202	18,291	1,544,426
BRITISH COLUMBIA	GLM+	2,719,586	92,451	80,147	55,042	16,793	4,862	21,655	903,056
BROWN	b+	2,123,050	58,627	57,716	38,513	12,909	2,166	15,075	1,062,880
BERKELEY	L+	7,130,881	151,012	168,367	U/A	U/A	U/A	94,757	7,285,000
	GLM+	1,237,158	78,838	67,908	34,313	11,438	14,800	26,238	1,315,396
	GLM+	1,301,765	58,925	55,024	37,367	12,911	973	18,284	1,360,279
LOS ANGELES	LM+	5,012,163	207,140	148,039	U/A	U/A	U/A	94,757	5,156,910
CALIFORNIA, RIVERSIDE	+	1,369,083	67,960	65,211	31,586	11,728	1,069	12,797	1,159,401
CALIFORNIA, SAN DIEGO	M+	1,846,761	63,674	35,917	37,914	18,068	11,169	29,237	1,360,279
CALIFORNIA, SANTA BARBARA	+	1,862,167	60,302	56,128	34,039	12,672	9,112	21,784	3,342,333
CASE WESTERN RESERVE	GLM+	1,534,807	28,715	22,674	9,803	11,524	755	12,279	659,322
	GLM+	1,733,048	48,075	38,911	12,187	14,795	670	17,465	1,781,513
	GLM+	1,733,048	48,075	38,911	12,187	14,795	670	17,465	1,781,513
	GLM+	1,733,048	48,075	38,911	12,187	14,795	670	17,465	1,781,513
	GLM+	1,733,048	48,075	38,911	12,187	14,795	670	17,465	1,781,513

B - Includes Branch Campuses
 G - Government Documents Not Included in Serials Count

L - Includes Law Library
 M - Includes Medical Library
 N/A - Not Applicable

+ - See Footnotes
 b - Bibliographic Count
 U/A - Unavailable

ARL LIBRARY DATA TABLE

Libr No	INTERLIBRARY LOANS		PERSONNEL (FTE)				EXPENDITURES			
	Total Loaned	Total Borrowed	Prof. Staff	Non. Prof. Staff	Student Assts.	Total Staff	Monographs	Current Serials	Other Library Materials	Misc. Materials Expend.
9	10	11	12	13	14	15	16	17	18	
	1,445	34	73	47	175	588,346	1,558,887	23,007		
	1,445	34	73	47	175	588,346	1,558,887	23,007		
	1,445	34	73	47	175	588,346	1,558,887	23,007		
	1,445	34	73	47	175	588,346	1,558,887	23,007		
5	5,723	8,869	66	145	67	278	815,595	1,920,121	376,391	82,989
6	10,674	13,675	88	47	190	325	1,657,817	1,411,989	204,333	16,329
7	21,149	11,283	103	269	47	419	1,936,721	2,007,770	U/A	U/A
8	9,909	5,341	72	106	65	243	1,336,164	1,278,510	10,998	U/A
	11,404	100	294	278	740	2,897,276	3,788,251	U/A		
	11,404	100	294	278	740	2,897,276	3,788,251	U/A		
	11,404	100	294	278	740	2,897,276	3,788,251	U/A		
	11,404	100	294	278	740	2,897,276	3,788,251	U/A		
	11,404	100	294	278	740	2,897,276	3,788,251	U/A		
13	10,283	9,654	34	98	41	173	1,036,598	1,200,963	46,539	0
14	20,609	9,453	82	173	76	331	1,259,409	1,056,112	207,382	50,043
15	9,465	10,362	62	145	43	250	1,741,829	1,586,088	U/A	0
16	35,605	9,027	62	79	30	171	498,700	1,651,341	50,938	88,967
	1,445	34	73	47	175	588,346	1,558,887	23,007		
	1,445	34	73	47	175	588,346	1,558,887	23,007		
	1,445	34	73	47	175	588,346	1,558,887	23,007		
	1,445	34	73	47	175	588,346	1,558,887	23,007		
	1,445	34	73	47	175	588,346	1,558,887	23,007		

N/A - Not Applicable

U/A - Unavailable

ARL LIBRARY DATA TABLE

EXPENDITURES

Total Library Materials	Contract Binding	Salaries & Wages Prof.	Salaries & Wages Non-Prof.	Salaries & Wages Student Assistants	Total Salaries & Wages	Other Operating Expend.	Total Library Expend.	INSTITUTION
19	20	21	22	23	24	25	26	
3,195,096	282,869	1,868,148	2,061,080	323,941	4,253,169	897,339	8,628,473	BOSTON
2,290,468	111,329	2,292,803	687,155	1,218,300	4,198,258	771,433	8,371,488	BRIGHAM YOUNG
3,944,491	162,328	3,184,559	4,156,542	680,271	8,021,372	1,064,920	13,193,111	BRITISH COLUMBIA
2,625,672	105,543	2,093,206	1,592,113	334,894	4,020,213	2,455,694	9,207,127	BROWN
2,284,100	160,795	1,357,365	1,777,244	574,555	3,709,164	688,997	6,843,056	CALIFORNIA, RIVERSIDE
3,372,946	315,351	2,451,236	3,421,731	813,589	6,686,556	1,582,147	11,957,000	CALIFORNIA, SAN DIEGO
3,327,917	264,609	2,330,575	2,816,851	734,974	5,882,400	1,021,536	10,496,462	CALIFORNIA, SANTA BARBARA
2,329,946	106,121	1,894,909	1,074,147	124,051	3,093,107	645,305	6,174,479	CASE WESTERN RESERVE
2,284,100	160,795	1,357,365	1,777,244	574,555	3,709,164	688,997	6,843,056	CALIFORNIA, RIVERSIDE
3,372,946	315,351	2,451,236	3,421,731	813,589	6,686,556	1,582,147	11,957,000	CALIFORNIA, SAN DIEGO
3,327,917	264,609	2,330,575	2,816,851	734,974	5,882,400	1,021,536	10,496,462	CALIFORNIA, SANTA BARBARA
2,329,946	106,121	1,894,909	1,074,147	124,051	3,093,107	645,305	6,174,479	CASE WESTERN RESERVE

N/A - Not Applicable

U/A - Unavailable

ARL LIBRARY DATA TABLE

COLLECTIONS

INSTITUTION	Libr No.	Volumes In Library	Volumes Added (Gross)	Volumes Added (Net)	Mono- graphs Purchased	Current Serials Purchased	Current Serials Not Purchased	Current Serials Total	Total Microform Units In Library	
										1
COLUMBIA	LM+	21	5,740,832	140,135	114,907	U/A	40,051	18,465	58,516	3,694,261
CONNECTICUT	BLM+	22	2,146,993	78,955	72,550	U/A	U/A	U/A	20,871	2,352,897
CORNELL	BL+	23	4,924,421	141,067	116,911	U/A	U/A	U/A	58,429	4,530,771
DARTMOUTH	GM+	24	1,722,398	60,432	57,551	U/A	16,469	3,910	20,379	2,014,484
	BL+	25	1,837,158	58,243	56,243	U/A	U/A	U/A	22,543	1,889,944
	BLM+	26	1,898,926	90,060	77,750	44,917	U/A	U/A	20,484	1,710,917
	BL+	27	1,700,394	84,807	81,314	U/A	U/A	U/A	14,867	1,800,375
	BLM+	28	1,781,857	105,776	96,258	46,553	25,830	3,460	29,290	2,476,944
FLORIDA STATE	GBL+	29	1,718,271	54,147	50,551	U/A	U/A	U/A	18,018	3,103,577
GEORGETOWN	GLM+	30	1,669,036	60,872	55,594	32,974	19,680	1,927	21,607	1,735,808
GEORGIA	BL+	31	2,688,433	83,832	83,832	U/A	42,659	13,965	56,624	3,797,738
GEORGIA TECH	+	32	1,576,452	44,926	44,259	5,194	15,082	4,714	19,796	2,783,380
	BL+	33	1,779,183	72,945	72,945	26,541	U/A	U/A	9,595	1,090,533
	LM+	34	11,406,906	313,922	291,831	U/A	U/A	U/A	102,000	4,900,000
	BL+	35	2,244,118	81,131	79,621	U/A	26,053	6,927	32,980	2,363,729
	GL+	36	1,562,001	35,985	35,710	20,914	19,081	861	19,942	3,001,000
HOWARD	GLM+	37	1,671,119	53,973	52,860	45,421	27,957	1,725	29,782	2,987,742
ILLINOIS, CHICAGO	M+	38	1,563,615	67,294	60,341	33,433	U/A	U/A	18,204	1,662,162
ILLINOIS, URBANA	L+	39	7,377,051	189,222	186,608	124,002	U/A	U/A	92,530	3,198,912
INDIANA	GL+	40	4,011,675	103,316	90,314	42,000	25,237	1,447	26,684	1,466,554

B - Includes Branch Campuses
G - Government Documents Not
Included in Serials Count

L - Includes Law Library
M - Includes Medical Library
N/A - Not Applicable

+ - See Footnotes
b - Bibliographic Unit
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ARL LIBRARY DATA TABLE

Libr No	INTERLIBRARY LOANS		PERSONNEL (FTE)				EXPENDITURES			
	Total Loaned	Total Borrowed	Prof. Staff	Non. Prof. Staff	Student Assts.	Total Staff	Monographs	Current Serials	Other Library Materials	Misc. Materials Expend.
	9	10	11	12	13	14	15	16	17	18
21	19,441	6,111	163	328	140	631	2,427,075	3,161,492	40,841	21,683
22	25,166	10,953	66	101	63	230	U/A	1,727,741	U/A	U/A
23	24,396	13,337	163	270	78	511	U/A	U/A	U/A	U/A
24	12,795	7,617	41	107	36	184	747,680	1,694,601	U/A	0
29	27,579	7,278	56	101	80	237	1,255,903	1,935,139	45,429	53,239
30	5,293	3,634	73	141	73	287	1,219,511	1,487,902	307,989	0
31	31,711	5,979	78	195	81	354	996,874	2,747,415	330,317	0
32	15,039	3,104	43	51	18	112	291,947	1,121,368	356,976	99,836
37	2,584	1,211	81	124	59	264	1,243,949	2,789,240	60,001	21,225
38	31,799	16,031	74	179	42	295	1,282,017	1,733,270	98,467	0
39	136,745	164,950	148	275	113	536	2,000,890	3,058,629	U/A	184,510
40	46,265	12,343	112	205	150	467	1,559,352	2,162,010	488,660	286,462

N/A - Not Applicable

U/A - Unavailable

ARL LIBRARY DATA TABLE

EXPENDITURES

Total Library Materials	Contract Binding	Salaries & Wages Prof.	Salaries & Wages Non-Prof.	Salaries & Wages Student Assistants	Total Salaries & Wages	Other Operating Expend.	Total Library Expend.	INSTITUTION
19	20	21	22	23	24	25	26	
5,651,091	558,271	5,481,912	5,210,977	1,369,985	12,062,874	3,638,056	21,910,292	COLUMBIA
3,268,212	207,997	U/A	U/A	U/A	5,151,484	1,103,412	9,731,105	CONNECTICUT
4,905,819	236,032	5,038,874	3,687,300	638,400	9,364,574	2,973,584	17,480,059	CORNELL
2,442,281	72,677	1,269,662	1,828,340	119,315	3,217,317	824,054	6,556,329	DARTMOUTH
3,289,710	166,379	1,482,022	1,228,439	384,333	3,094,794	445,376	6,996,259	FLORIDA STATE
3,015,402	171,287	2,188,120	2,460,397	593,529	5,242,046	1,987,691	10,416,426	GEORGETOWN
4,074,606	172,541	2,033,523	2,379,851	570,875	4,984,249	1,266,457	10,497,853	GEORGIA
1,870,127	73,996	1,227,880	522,641	122,754	1,873,275	655,881	4,473,279	GEORGIA TECH
2,115,400	100,000	1,800,000	1,500,000	100,000	2,000,000	500,000	4,000,000	INDIANA
2,115,400	100,000	1,800,000	1,500,000	100,000	2,000,000	500,000	4,000,000	INDIANA
2,115,400	100,000	1,800,000	1,500,000	100,000	2,000,000	500,000	4,000,000	INDIANA
2,115,400	100,000	1,800,000	1,500,000	100,000	2,000,000	500,000	4,000,000	INDIANA
4,114,415	131,723	2,621,507	2,248,412	209,640	5,079,559	1,501,603	10,827,300	HOWARD
3,113,754	130,736	2,214,703	2,383,800	445,761	5,044,264	1,130,097	9,418,851	ILLINOIS, CHICAGO
5,244,029	272,882	4,291,510	3,580,659	790,189	8,662,158	2,158,012	16,337,081	ILLINOIS, URBANA
4,496,484	232,669	3,194,145	2,947,297	888,524	7,029,966	849,306	12,608,425	INDIANA

N/A - Not Applicable

U/A - Unavailable

ARL LIBRARY DATA TABLE

COLLECTIONS

INSTITUTION		Libr No.	Volumes	Volumes	Volumes	Mono- graphs Purchased	Current	Current	Current	Total Microform Units In Library
			In Library	Added (Gross)	Added (Net)		Serials Purchased	Serials Not Purchased	Serials Total	
			1	2	3	4	5	6	7	8
		44	2,930,832	46,138	51,536	46,738	21,834	1,243	23,077	1,943,977
		45	2,275,822	78,274	76,465	45,179	14,744	1,926	16,670	1,636,005
		46	2,086,428	45,738	43,035	13,008	16,027	2,661	18,688	2,221,341
		47	1,653,067	58,103	57,514	25,529	10,396	4,162	14,558	749,109
KENT STATE	G+	45	1,659,396	27,701	21,013	21,977	6,792	525	7,317	799,454
KENTUCKY	GLM+	46	2,086,428	45,738	43,035	13,008	16,027	2,661	18,688	2,221,341
LAVAL	+	47	1,653,067	58,103	57,514	25,529	10,396	4,162	14,558	749,109
LOUISIANA STATE	GL+	48	2,327,869	64,854	57,475	29,650	18,189	4,078	22,267	1,943,977
		49	2,441,484	83,330	56,553	53,444	14,250	2,200	17,450	2,221,341
		50	1,752,389	43,814	39,446	38,843	9,889	650	10,539	1,618,554
		51	2,086,428	45,738	43,035	13,008	16,027	2,661	18,688	2,221,341
		52	1,653,067	58,103	57,514	25,529	10,396	4,162	14,558	749,109
MASSACHUSETTS	G+	53	2,275,822	78,274	76,465	45,179	14,744	1,926	16,670	1,636,005
MIT	+	54	2,103,392	54,991	40,574	19,069	10,626	10,776	21,402	1,618,554
MIAMI	GLM+	55	1,615,442	50,961	38,882	28,646	U/A	U/A	15,570	979,247
MICHIGAN	+	56	6,133,171	130,358	111,004	U/A	34,497	33,033	67,530	3,472,083
		57	3,301,739	116,584	76,594	40,411	15,716	13,840	29,556	2,221,341
		58	1,752,389	43,814	39,446	U/A	30,141	9,196	39,337	1,618,554
		59	2,086,428	45,738	43,035	13,008	16,027	2,661	18,688	2,221,341
		60	1,653,067	58,103	57,514	25,529	10,396	4,162	14,558	749,109
		61	2,327,869	64,854	57,475	29,650	U/A	U/A	22,267	1,943,977

B - Includes Branch Campuses
G - Government Documents Not
Included in Serials Count

L - Includes Law Library
M - Includes Medical Library
N/A - Not Applicable

+ - See Footnotes
b - Bibliographic Count
U/A - Unavailable

ARL LIBRARY DATA TABLE

Libr No	INTERLIBRARY LOANS		PERSONNEL (FTE)				EXPENDITURES			
	Total Loaned	Total Borrowed	Prof. Staff	Non. Prof. Staff	Student Assts.	Total Staff	Monographs	Current Serials	Other Library Materials	Misc. Materials Expend.
	9	10	11	12	13	14	15	16	17	18
45	11,789	7,373	42	93	48	183	519,602	1,062,065	171,797	0
46	19,282	11,027	68	121	74	263	796,619	1,942,350	U/A	103,744
47	14,810	10,051	70	192	7	269	714,190	1,404,862	292,620	118,911
48	11,032	6,615	62	118	103	283	1,209,750	2,092,682	67,464	0
53	15,878	6,907	56	121	49	226	1,281,363	1,831,597	296,427	496,794
54	15,968	2,967	87	146	32	265	743,172	1,681,154	48,252	203,468
55	20,688	12,468	74	123	44	241	817,069	2,251,674	60,520	9,501
56	22,773	11,150	142	302	151	595	U/A	3,480,670	U/A	U/A

N/A - Not Applicable

U/A - Unavailable

ARL LIBRARY DATA TABLE

EXPENDITURES

Total Library Materials	Contract Binding	Salaries & Wages Prof.	Salaries & Wages Non-Prof.	Salaries & Wages Student Assistants	Total Salaries & Wages	Other Operating Expend.	Total Library Expend.	INSTITUTION
19	20	21	22	23	24	25	26	
1,753,464	67,610	1,473,468	1,373,182	345,484	3,692,134	1,255,330	6,768,538	KENT STATE
2,842,713	80,775	1,715,515	1,591,832	522,953	3,830,300	511,584	7,265,372	KENTUCKY
2,530,583	57,772	2,624,352	3,582,668	109,155	6,316,175	785,734	9,690,264	LAVAL
3,369,896	68,050	1,697,223	1,495,553	726,870	3,919,646	604,281	7,961,873	LOUISIANA STATE
3,906,181	121,665	2,267,129	2,347,749	367,657	4,982,535	488,538	9,498,919	MASSACHUSETTS
2,676,046	150,106	2,354,708	2,399,776	342,521	5,097,005	1,519,608	9,442,765	MIT
3,138,764	107,170	1,978,913	1,676,691	364,003	4,019,607	1,102,904	8,368,445	MIAMI
6,838,655	303,006	4,659,751	4,835,591	1,197,375	10,692,717	2,637,782	20,472,160	MICHIGAN

N/A - Not Applicable

U/A - Unavailable

ARL LIBRARY DATA TABLE

COLLECTIONS

INSTITUTION		Libr No.	Volumes	Volumes	Volumes	Mono-graphs Purchased	Current	Current	Current	Total Microform Units In Library
			In Library	Added (Gross)	Added (Net)		Serials Purchased	Serials Not Purchased	Serials Total	
			1	2	3	4	5	6	7	8
NEW MEXICO	G+	61	1,299,782	30,204	22,893	20,328	U/A	U/A	10,722	3,844,403
NEW YORK	LM+	62	2,988,453	73,914	68,278	35,227	24,770	3,696	28,466	2,396,661
NORTH CAROLINA	LM+	63	3,520,273	121,680	105,630	54,037	U/A	U/A	42,094	2,731,236
NORTH CAROLINA STATE	G+	64	1,239,528	45,927	37,976	19,824	12,462	2,591	15,053	2,893,815
[REDACTED SECTION]										
OKLAHOMA STATE	GB+	69	1,483,703	28,810	21,718	13,142	9,873	1,038	10,911	730,908
OREGON	GL+	70	1,804,926	39,362	39,293	30,962	16,038	5,043	21,081	1,637,564
PENNSYLVANIA	LM+	71	3,499,741	85,540	57,352	U/A	U/A	U/A	28,140	1,105,575
PENNSYLVANIA STATE	B+	72	2,965,695	84,004	77,353	U/A	29,324	U/A	29,324	2,925,368
[REDACTED SECTION]										
		73	2,713,324	87,744	28,361	U/A	U/A	U/A	20,628	2,713,324
		74	4,878,827	111,716	109,412	82,903	U/A	U/A	33,836	2,911,111
		75	1,811,508	73,412	67,381	16,575	18,008	3,053	21,061	1,711,111
		76	1,712,140	40,653	39,869	24,167	15,599	U/A	15,599	1,640,111
RICE	b+	77	1,368,323	45,110	44,853	U/A	11,434	752	12,186	1,790,416
ROCHESTER	BM+	78	2,590,720	51,153	41,663	18,448	11,853	1,831	13,684	2,360,899
RUTGERS	GBL+	79	3,065,533	116,017	96,460	63,673	U/A	U/A	27,482	3,362,830
SASKATCHEWAN	GLM+	80	1,360,380	50,674	34,116	17,850	8,843	846	9,689	1,896,380

B - Includes Branch Campuses
 G - Government Documents Not Included in Serials Count

L - Includes Law Library
 M - Includes Medical Library
 N/A - Not Applicable

+ - See Footnotes
 b - Bibliographic Count
 U/A - Unavailable

ARL LIBRARY DATA TABLE

Libr No	INTERLIBRARY LOANS		PERSONNEL (FTE)				EXPENDITURES			
	Total Loaned	Total Borrowed	Prof. Staff	Non. Prof. Staff	Student Assts.	Total Staff	Monographs	Current Serials	Other Library Materials	Misc. Materials Expend.
	9	10	11	12	13	14	15	16	17	18
61	9,821	5,928	46	109	96	251	503,450	1,206,370	U/A	342,821
62	11,062	7,380	109	186	69	364	1,144,620	2,874,549	186,078	152,287
63	29,021	4,875	117	205	90	412	1,917,591	2,619,503	308,682	U/A
64	29,571	4,278	43	122	59	224	767,276	1,756,547	280,303	221,308
65	12,660	5,431	45	75	65	185	565,897	1,443,603	92,456	28,324
66	14,239	8,078	50	91	74	215	912,555	1,611,696	U/A	410,355
67	17,315	14,607	108	165	95	368	1,407,698	2,554,585	U/A	U/A
68	22,457	12,250	113	275	69	457	1,866,689	2,895,260	U/A	U/A
69	15,717	3,125	42	76	31	149	851,740	1,171,283	25,256	151,670
70	25,871	8,576	62	113	56	231	940,726	2,113,028	8,003	345,564
71	17,476	12,852	118	206	137	521	2,409,911	3,343,055	379,478	267,419
72	9,017	10,023	36	129	12	177	667,177	1,866,567	U/A	0

N/A - Not Applicable

U/A - Unavailable

ARL LIBRARY DATA TABLE

EXPENDITURES

Total Library Materials	Contract Binding	Salaries & Wages Prof.	Salaries & Wages Non-Prof.	Salaries & Wages Student Assistants	Total Salaries & Wages	Other Operating Expend.	Total Library Expend.	INSTITUTION
19	20	21	22	23	24	25	26	
2,052,641	101,734	1,277,462	1,950,978	766,523	3,994,963	641,921	6,791,259	NEW MEXICO
4,357,534	262,520	3,513,406	3,362,560	717,499	7,593,465	2,311,590	14,525,109	NEW YORK
4,845,776	239,916	3,700,525	3,440,667	507,682	7,648,874	1,969,565	14,704,131	NORTH CAROLINA
3,025,434	121,734	1,278,617	2,062,027	440,048	3,780,692	1,214,250	8,142,110	NORTH CAROLINA STATE
					2,744,730	1,228,813	11,224,885	OKLAHOMA STATE
					3,078,156	823,206	11,208,354	OREGON
					3,205,250	2,312,752	13,744,114	PENNSYLVANIA
					7,770,528	629,781	16,079,625	PENNSYLVANIA STATE
2,130,280	78,003	1,340,377	846,777	433,289	2,620,443	864,270	5,692,996	OKLAHOMA STATE
2,934,606	144,161	1,339,964	1,354,719	567,389	3,262,072	828,506	7,169,345	OREGON
3,962,283	303,542	3,196,099	3,503,015	702,369	7,401,483	2,110,454	13,777,762	PENNSYLVANIA
4,761,949	317,570	U/A	U/A	U/A	8,600,913	2,399,193	16,079,625	PENNSYLVANIA STATE
					5,435,916	1,607,462	10,592,041	PITTSBURGH
					8,477,251	1,170,000	15,191,300	ROCHESTER
					4,108,216	720,000	7,866,800	RUTGERS
					1,025,402	431,700	7,870,383	SASKATCHEWAN
2,199,949	46,781	1,178,345	880,437	184,797	2,243,579	546,318	5,036,627	RICE
3,407,321	123,564	1,752,134	1,534,943	352,619	3,639,696	1,229,450	8,400,031	ROCHESTER
6,399,863	393,491	4,944,779	5,307,209	1,230,803	11,482,791	2,507,406	20,783,551	RUTGERS
2,533,744	94,750	1,093,203	2,133,994	157,340	3,384,537	402,970	6,416,000	SASKATCHEWAN

N/A - Not Applicable

U/A - Unavailable

ARL LIBRARY DATA TABLE

COLLECTIONS

INSTITUTION	Libr No.	Volumes In Library	Volumes Added (Gross)	Volumes Added (Net)	Mono-graphs Purchased	Current Serials Purchased	Current Serials Not Purchased	Current Serials Total	Total Microform Units In Library	
		1	2	3	4	5	6	7	8	
SUNY-ALBANY	GB+	85	1,225,304	38,509	30,342	21,562	16,277	0	16,277	2,383,431
SUNY-BUFFALO	LM+	86	2,492,502	59,329	56,048	23,411	19,208	4,902	24,110	3,461,883
SUNY-STONY BROOK	GM+	87	1,614,088	48,486	47,390	25,438	U/A	U/A	11,803	2,633,725
SYRACUSE	bGL+	88	2,247,176	37,305	29,945	19,526	U/A	U/A	20,994	3,308,306
TORONTO	LM+	93	5,698,275	166,792	141,714	U/A	29,753	7,673	37,426	1,051,744
TULANE	GBLM+	94	1,715,893	49,791	39,906	21,403	U/A	U/A	16,496	1,722,485
UTAH	G+	95	1,705,473	61,734	58,923	58,902	10,649	2,918	13,567	2,274,245
VANDERBILT	GLM+	96	1,761,379	59,798	49,605	U/A	U/A	U/A	18,862	1,529,198

B - Includes Branch Campuses
 G - Government Documents Not Included in Serials Count

L - Includes Law Library
 M - Includes Medical Library
 N/A - Not Applicable

+ - See Footnotes
 b - Bibliographic Count
 U/A - Unavailable

ARL LIBRARY DATA TABLE

Libr No	INTERLIBRARY LOANS		PERSONNEL (FTE)				EXPENDITURES			
	Total Loaned	Total Borrowed	Prof. Staff	Non. Prof. Staff	Student Assts.	Total Staff	Monographs	Current Serials	Other Library Materials	Misc. Materials Expend.
	9	10	11	12	13	14	15	16	17	18
		8,456	60	113	30	203	743,113	1,810,250	12,906	
		7,100	54	123	100	277	1,241,850	1,431,500	800,100	
		5,000	50	90	80	220	653,721	1,400,117	90,000	
		9,270	162	300	97	618	1,003,047	1,001,000	471	
85	20,991	7,637	50	85	35	170	564,636	1,485,626	3,159	265,229
86	32,152	9,159	92	115	84	291	862,137	2,258,476	153,989	155,505
87	23,655	5,988	54	125	42	221	880,530	1,684,930	34,693	360,358
88	6,368	5,587	69	147	56	272	927,850	1,952,767	54,055	U/A
		4,200	70	114	43	227	903,099	1,445,736	60,400	
		4,371	52	143	61	244	619,549	1,632,100	43,000	
		3,700	137	370	73	586	2,060,576	2,761,701	U/A	
		20,400	87	150	92	309	980,831	2,266,497	227,511	
93	20,583	8,731	160	496	174	830	2,953,759	3,030,481	U/A	U/A
94	10,367	9,761	52	101	28	181	1,031,619	1,638,882	38,820	110,975
95	11,393	7,881	50	111	68	229	1,770,351	1,189,560	U/A	U/A
96	18,491	9,081	87	137	65	289	1,035,961	2,044,362	194,071	171,336
		6,200	44	194	53	343	1,846,074	2,282,160	565,300	
				110	40	190	669,872	2,401,000	U/A	
				100	50	400	1,100,000	3,431,000	200,000	
				110	50	200	652,300	1,700,000	20,000	

N/A - Not Applicable

U/A - Unavailable

ARL LIBRARY DATA TABLE

Libr No	INTERLIBRARY LOANS		PERSONNEL (FTE)				EXPENDITURES			
	Total Loaned	Total Borrowed	Prof. Staff	Non. Prof. Staff	Student Assts.	Total Staff	Monographs	Current Serials	Other Library Materials	Misc. Materials Expend.
	9	10	11	12	13	14	15	16	17	18
101	20,926	10,079	66	124	40	230	904,464	2,461,542	102,909	111,400
102	4,836	4,903	44	140	21	205	1,024,532	1,275,916	U/A	U/A
103	27,606	3,310	74	96	96	266	1,479,538	2,174,916	U/A	0
104	9,676	4,155	54	202	50	306	1,141,226	1,894,274	U/A	35,655
109	427,302	0	107	118	11	236	U/A	U/A	U/A	U/A
110	36,679	0	23	30	15	68	20,027	181,217	670,535	0
111	56,293	589	2,652	2,158	N/A	4,810	1,900,827	2,595,663	1,995,862	82,511
112	50,477	91	21	38	N/A	59	199,806	1,270,468	U/A	41,494
117	4,848	2,159	243	357	150	750	2,033,000	4,064,000	U/A	U/A
118	37,392	1,900	85	135	N/A	220	558,063	1,706,595	U/A	0
119	6,912	14,488	51	68	0	119	556,800	619,000	4,000	479,776

N/A - Not Applicable

U/A - Unavailable

ARL LIBRARY DATA TABLE

EXPENDITURES

Total Library Materials	Contract Binding	Salaries & Wages Prof.	Salaries & Wages Non-Prof.	Salaries & Wages Student Assistants	Total Salaries & Wages	Other Operating Expend.	Total Library Expend.	INSTITUTION
19	20	21	22	23	24	25	26	
3,580,315	108,295	1,829,832	1,752,944	270,060	3,852,836	2,016,177	9,557,623	WASHINGTON U.-ST. LOUIS
2,300,448	57,684	1,469,403	2,206,294	197,592	3,873,289	419,351	6,650,772	WATERLOO
3,634,454	96,729	2,624,485	1,387,953	444,210	4,456,648	2,207,502	10,395,333	WAYNE STATE
3,071,155	162,114	U/A	U/A	603,191	5,179,925	777,061	9,190,255	WESTERN ONTARIO
6,622,486	U/A	U/A	U/A	U/A	6,242,788	6,298,924	19,164,198	CANADA INST. FOR SCITECH.
871,779	0	694,161	407,271	125,553	1,226,985	1,021,069	3,119,833	CENTER FOR RESEARCH LIBS.
6,574,863	1,053,570	U/A	U/A	N/A	147,526,000	99,286,567	254,441,000	LIBRARY OF CONGRESS
1,511,768	73,520	U/A	U/A	N/A	1,186,476	242,627	3,014,391	LINDA HALL LIBRARY
6,097,000	662,000	7,902,100	9,601,500	658,200	18,161,800	6,645,000	31,565,800	NEW YORK PUBLIC LIBRARY
2,264,658	74,999	2,726,049	2,219,341	N/A	4,945,390	1,324,452	8,609,499	NEW YORK STATE LIBRARY
1,659,576	136,000	1,670,670	1,113,781	0	2,784,451	572,317	5,152,344	SMITHSONIAN INSTITUTION

N/A - Not Applicable

U/A - Unavailable

ARL LIBRARY DATA TABLE

TOTALS

COLLECTIONS

Volumes In Library	Volumes Added (Gross)	Volumes Added (Net)	Monographs Purchased	Current Serials Purchased	Current Serials Not Purchased	Current Serials Total	Total Microform Units In Library
1	2	3	4	5	6	7	8
UNIVERSITY MEDIAN							
2,123,050	64,600	57,352	28,278	16,038	3,200	20,871	2,274,245
UNIVERSITY HIGH							
11,496,906	313,922	201,831	129,155	42,659	33,033	102,000	5,137,087
UNIVERSITY LOW							
1,140,108	27,701	21,013	5,194	6,792	0	7,317	172,234
TOTALS - UNIVERSITY LIBRARIES							
290,340,374	8,362,893	7,196,193	2,660,660	1,261,947	345,147	2,950,051	246,075,630
TOTALS - NON-UNIVERSITY LIBRARIES							
48,652,153	966,256	842,534	493,165	142,230	202,860	520,125	25,902,022
GRAND TOTALS - ALL ARL LIBRARIES							
338,992,527	9,329,149	8,038,727	3,153,825	1,404,177	548,007	3,470,176	271,977,652

ARL LIBRARY DATA TABLE

TOTALS

INTERLIBRARY LOANS		PERSONNEL (FTE)				EXPENDITURES			
Total Loaned	Total Borrowed	Prof. Staff	Non. Prof. Staff	Student Assts.	Total Staff	Monographs	Current Serials	Other Library Materials	Misc. Materials Expend.
9	10	11	12	13	14	15	16	17	18
UNIVERSITY MEDIAN									
18,198	8,078	70	140	52	269	1,142,923	1,947,558	127,121	82,421
UNIVERSITY HIGH									
154,287	164,950	325	575	278	1,049	4,557,947	4,027,414	1,377,412	3,282,900
UNIVERSITY LOW									
2,260	1,211	30	47	7	112	291,947	965,471	3,159	0
TOTALS - UNIVERSITY LIBRARIES									
2,531,336	1,055,214	8,880	17,607	7,779	34,466	135,417,562	221,780,566	13,878,221	13,658,967
TOTALS - NON-UNIVERSITY LIBRARIES									
996,365	40,324	3,914	3,876	241	8,031	12,509,078	16,015,013	4,193,725	639,063
GRAND TOTALS - ALL ARL LIBRARIES									
3,527,701	1,095,538	12,794	21,483	8,020	42,497	147,926,640	237,795,579	18,071,946	14,298,030

ARL LIBRARY DATA TABLE

TOTALS

EXPENDITURES

Total Library Materials	Contract Binding	Salaries & Wages Prof.	Salaries & Wages Non-Prof.	Salaries & Wages Student Assistants	Total Salaries & Wages	Other Operating Expend.	Total Library Expend.
19	20	21	22	23	24	25	26
UNIVERSITY MEDIAN							
3,369,896	144,161	2,156,222	2,227,604	503,265	4,848,267	1,205,015	9,557,623
UNIVERSITY HIGH							
9,968,054	779,542	10,119,557	9,384,046	4,383,357	20,464,069	5,991,495	37,196,490
UNIVERSITY LOW							
1,621,181	46,781	1,093,203	522,641	108,183	1,873,275	318,313	4,473,279
TOTALS - UNIVERSITY LIBRARIES							
394,539,591	20,123,465	259,019,831	274,848,018	62,587,253	623,342,533	155,556,758	1,193,562,457
TOTALS - NON-UNIVERSITY LIBRARIES							
39,979,365	2,338,865	22,398,562	24,622,355	1,257,014	229,369,665	143,452,769	415,140,664
GRAND TOTALS - ALL ARL LIBRARIES							
434,518,956	22,462,330	281,418,393	299,470,373	63,844,267	852,712,198	299,009,527	1,608,703,121

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 107 university library members.

Category	High	Median	Low
1. Professional Staff as percent of Total Staff	38	25	18
2. Nonprofessional Staff as percent of Total Staff	73	51	14
3. Student Assistant Staff as percent of Total Staff	59	22	3
4. Ratio of Professional Staff to Non-professional Staff (excluding student assistants)	1.9:1	0.5:1	0.3:1
5. Ratio of Items Loaned to Items Borrowed	14.9:1	2.1:1	0.6:1
6. Serials Expenditures as percent of Materials Expenditures	76	59	33
7. Materials Expenditures as percent of Total Operating Expenditures	47	34	24
8. Contract Binding as percent of Total Operating Expenditures	3.3	1.5	0.6
9. Salary and Wage Expenditures as percent of Total Operating Expenditures	67	52	40
10. Other Operating Expenditures as percent of Total Operating Expenditures	27	13	4
11. Unit cost of monographs (per volume)	61.46	35.72	14.84
12. Unit cost of serials (per title)	211.08	115.05	63.86

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., FACULTY, AND ENROLLMENT STATISTICS*

ENROLLMENTS - FALL 1986

INSTITUTION	Ph.D.'s Awarded	Ph.D. Fields	Faculty	ENROLLMENTS - FALL 1986			
				Total Full-time**	Total FTE Part-time**	Graduate Full-time	Graduate FTE Part-time
ALABAMA	74	42	742	14,487	2,679	1,765	1,338
ALBERTA	190	55	1,760	25,192	3,376	2,783	1,068
ARIZONA	325	89	1,357	24,216	8,793	3,755	4,230
ARIZONA STATE	118	48	1,289	26,886	16,082	3,542	7,516
BOSTON	145	45	902	20,705	7,943	6,124	3,719
BRIGHAM YOUNG	107	36	1,261	22,470	7,204	1,749	1,218
BRITISH COLUMBIA	184	83	1,907	20,889	4,487	3,143	916
BROWN	156	33	498	5,507	384	1,559	87
CALIFORNIA, BERKELEY	727	118	1,471	28,632	3,423	8,402	879
CALIFORNIA, DAVIS	228	54	953	20,846	2,032	5,250	261
CALIFORNIA, IRVINE	99	30	1,022	15,139	0	2,770	0
CALIFORNIA, LDS ANGELES	516	68	1,591	32,982	2,453	8,187	209
CALIFORNIA, RIVERSIDE	110	28	448	6,554	1,419	648	112
CALIFORNIA, SAN DIEGO	200	45	945	15,213	1,376	2,459	97
CALIFORNIA, SANTA BARBARA	168	57	903	16,853	1,026	1,677	425
CASE WESTERN RESERVE	149	55	496	5,734	2,523	3,245	2,064
CHICAGO	318	64	1,177	8,523	1,744	5,355	1,696
CINCINNATI +	201	88	1,048	20,568	10,665	3,577	2,733
COLORADO	220	40	934	20,991	2,334	3,344	864
COLORADO STATE	201	38	1,044	17,488	1,704	2,300	850
COLUMBIA	368	54	2,060	14,191	4,740	8,992	1,871
CONNECTICUT	193	66	1,583	17,549	7,003	2,450	3,720
CORNELL	466	90	1,551	17,588	43	5,295	23
DARTMOUTH	27	11	760	4,693	88	1,006	54
DELAWARE	109	33	900	13,289	3,629	1,200	949
DUKE +	131	37	1,340	9,694	329	3,695	276
EMORY	104	43	837	7,727	1,441	2,796	1,306
FLORIDA +	261	66	2,651	28,128	5,155	5,600	2,362
FLORIDA STATE +	250	65	995	18,720	5,106	2,800	2,190
GEORGETOWN	68	21	1,227	9,280	2,490	2,754	2,158
GEORGIA	220	54	1,679	22,347	4,200	3,916	1,972
GEORGIA TECH	97	60	537	10,590	1,181	2,068	598
GUELPH	61	U/A	718	10,935	713	1,056	60
HARVARD +	294	67	1,114	16,945	6,764	9,933	3,268
HAWAII	118	44	1,126	12,937	5,445	2,305	2,095
HOUSTON	65	52	1,222	16,163	12,744	3,591	6,413
HONARD	63	24	1,174	9,069	1,546	816	774
ILLINOIS, CHICAGO	146	47	1,745	12,540	3,461	4,313	3,610
ILLINOIS, URBANA	646	88	2,050	33,180	3,160	6,148	2,205
INDIANA	264	101	1,382	28,249	5,172	4,652	2,768
IOWA	294	55	1,608	22,609	7,386	5,073	3,948
IOWA STATE	309	87	1,292	22,425	4,175	2,519	2,273
JOHNS HOPKINS	232	60	685	5,714	6,368	2,970	1,628

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

** Includes both undergraduate and graduate students.

U/A - Unavailable

+ - See footnotes

Ph.D., FACULTY, AND ENROLLMENT STATISTICS*

ENROLLMENTS - FALL 1986

INSTITUTION	Ph.D.'s Awarded	Ph.D. Fields	Faculty	Total		Graduate	
				Full-time**	Part-time**	Full-time	Part-time
KANSAS +	202	63	1,456	22,630	6,090	4,222	4,264
KENT STATE	113	18	745	15,684	5,837	1,110	2,957
KENTUCKY	116	51	1,520	16,427	5,446	2,782	2,144
LAVAL	139	57	1,512	22,420	10,929	3,448	2,359
LOUISIANA STATE +	161	54	1,197	23,000	5,011	3,480	1,745
MCGILL	186	51	1,890	17,485	3,378	3,543	1,230
MCMASTER	89	35	997	11,487	4,078	1,232	890
MANITOBA	90	37	1,306	13,067	7,193	1,671	946
MARYLAND +	364	68	1,308	28,335	9,723	3,540	4,969
MASSACHUSETTS +	213	47	1,281	21,849	6,269	2,769	4,064
MIT	469	85	1,068	9,094	471	4,783	405
MIAMI	96	40	1,447	10,823	2,522	3,262	1,510
MICHIGAN	564	136	2,359	31,575	3,920	10,250	2,566
MICHIGAN STATE +	422	85	1,962	35,249	8,711	4,667	5,024
MINNESOTA	508	85	2,877	28,246	33,975	6,757	6,776
MISSOURI	227	61	902	18,793	4,165	3,257	2,759
NEBRASKA	233	29	1,131	17,993	5,476	2,141	2,019
NEW MEXICO +	156	35	1,138	13,807	11,049	1,717	5,677
NEW YORK	401	151	1,029	18,612	13,079	7,238	9,521
NORTH CAROLINA	244	61	1,951	18,831	4,127	4,586	3,084
NORTH CAROLINA STATE	239	42	1,431	15,104	5,129	1,494	2,294
NORTHWESTERN	305	69	1,333	13,076	3,361	5,461	1,658
NOTRE DAME	81	21	783	9,420	319	1,876	147
OHIO STATE	538	95	1,930	42,594	10,521	6,296	3,600
OKLAHOMA	118	44	1,370	16,828	6,677	1,792	2,941
OKLAHOMA STATE	143	37	1,012	21,030	5,952	1,944	2,464
OREGON +	138	42	629	14,868	2,820	2,768	1,126
PENNSYLVANIA +	307	117	1,802	17,676	4,199	8,232	1,712
PENNSYLVANIA STATE	354	89	2,516	51,616	15,026	4,135	4,350
PITTSBURGH +	372	76	2,362	18,103	10,261	5,055	4,701
PRINCETON	209	42	668	4,516	0	1,677	0
PURDUE	366	68	1,415	28,977	1,309	3,727	512
QUEEN'S	96	27	994	11,706	3,629	1,655	438
RICE	84	26	454	3,933	112	1,270	0
ROCHESTER	136	50	1,196	6,981	2,049	1,929	1,534
RUTGERS	229	53	1,948	32,369	15,450	4,225	8,093
SASKATCHEWAN	47	54	1,175	13,571	1,629	1,157	355
SOUTH CAROLINA	162	47	1,187	16,040	7,583	3,420	829
SOUTHERN CALIFORNIA	354	69	1,655	20,524	10,560	5,454	8,873
SOUTHERN ILLINOIS	154	23	1,024	18,806	5,354	725	2,928
STANFORD	550	77	1,336	11,835	2,371	5,373	2,333
SUNY-ALBANY +	80	21	629	10,417	1,371	1,790	2,640
SUNY-BUFFALO +	260	65	1,101	19,445	8,032	5,196	3,567

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

** Includes both undergraduate and graduate students.

U/A - Unavailable

+ - See footnotes

Ph.D., FACULTY, AND ENROLLMENT STATISTICS*

ENROLLMENTS - FALL 1986

INSTITUTION	Ph.D.'s Awarded	Ph.D. Fields	Faculty	Total Full-time**	Total FTE Part-time**	Graduate Full-time	Graduate FTE Part-time
SUNY-STONY BROOK	207	23	1,258	12,509	3,713	2,811	2,201
SYRACUSE +	156	85	930	15,545	5,790	2,306	3,903
TEMPLE +	141	49	1,649	20,640	10,995	3,846	5,207
TENNESSEE	186	49	1,217	19,673	6,313	3,212	3,135
TEXAS +	574	75	1,873	40,063	7,680	8,664	2,884
TEXAS A&M	379	72	2,261	34,654	4,325	5,178	1,939
TORONTO	338	70	2,760	35,599	15,927	5,794	3,402
TULANE +	50	43	885	8,228	2,270	2,792	536
UTAH	225	60	924	15,451	9,160	3,194	1,110
VANDERBILT +	196	38	1,435	8,064	840	2,986	711
VIRGINIA	205	44	961	16,092	5,176	5,171	3,905
VPI & SU +	220	53	1,507	21,392	3,585	3,452	2,960
WASHINGTON	392	62	1,741	26,864	6,438	6,570	2,041
WASHINGTON STATE	149	40	739	14,992	1,492	2,043	626
WASHINGTON U.-ST. LOUIS +	104	51	589	7,441	3,206	2,822	1,505
WATERLOO	110	48	781	12,656	8,553	3,440	393
WAYNE STATE	110	54	1,264	14,527	15,850	4,769	6,010
WESTERN ONTARIO	111	31	1,434	15,715	3,233	2,292	186
WISCONSIN	684	120	2,123	36,437	6,931	9,083	4,115
YALE +	281	54	1,549	10,354	457	5,189	336
YORK	58	55	1,168	20,281	14,813	1,783	1,455

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

** Includes both undergraduate and graduate students.

U/A - Unavailable

+ - See footnotes

SUMMARY OF RANK ORDER TABLES FOR UNIVERSITY LIBRARIES

The table below presents the rank for each university library in each of the seventeen 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 (107) | Table 10 - Expenditures For Monographs (104) |
| Table 2 - Volumes Added (Gross) (107) | Table 11 - Serials Purchased (Titles) (69) |
| Table 3 - Current Serials (Total) (107) | Table 12 - Expenditures for Serials (106) |
| Table 4 - Microform Holdings (Total) (107) | Table 13 - Total Items Loaned (107) |
| Table 5 - Materials Expenditures (107) | Table 14 - Total Items Borrowed (107) |
| Table 6 - Salaries & Wages Expenditures (107) | Table 15 - Professional Staff (FTE) (107) |
| Table 7 - Other Operating Expenditures (107) | Table 16 - Nonprofessional Staff (FTE) (107) |
| Table 8 - Total Operating Expenditures (107) | Table 17 - Total Staff (FTE) (107) |
| Table 9 - Monographs Purchased (Volumes) (18) | |

INSTITUTION	TABLES																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ALABAMA	75	96	76	86	101	105	73	104	76	95	30	88	101	91	77	105	100
ALBERTA	30	36	60	42	55	20	36	27	35	56	23	31	9	9	37	10	23
ARIZONA	23	25	32	14	16	31	58	29	8	36	13	13	12	49	27	27	24
ARIZONA STATE	42	13	23	33	23	41	27	31	U/A	10	U/A	22	22	65	29	20	27
BOSTON	84	67	28	41	61	63	66	61	52	77	28	56	102	42	59	49	51
BRIGHAM YOUNG	61	52	70	79	58	66	76	64	22	24	60	94	84	10	33	107	38
BRITISH COLUMBIA	32	27	46	99	36	19	63	26	10	12	29	51	43	22	26	14	20
BROWN	54	64	89	94	86	68	14	58	21	38	52	97	88	86	52	87	65
CALIFORNIA, BERKELEY	4	3	2	7	6	2	10	3	U/A	6	U/A	2	11	3	5	9	4
CALIFORNIA, DAVIS	50	38	14	37	21	22	17	19	9	23	3	14	17	48	56	31	40
CALIFORNIA, IRVINE	101	69	84	87	66	44	48	51	47	70	43	58	62	38	77	77	82
CALIFORNIA, LOS ANGELES	7	2	3	1	4	3	2	2	U/A	2	U/A	15	5	31	2	7	5
CALIFORNIA, RIVERSIDE	99	49	96	89	99	80	80	88	33	57	57	100	86	35	106	93	101
CALIFORNIA, SAN DIEGO	65	55	31	85	53	30	37	34	23	45	25	60	47	37	41	37	35
CALIFORNIA, SANTA BARBARA	64	60	45	19	57	39	64	43	28	21	53	86	93	27	64	49	62

U/A - Unavailable () Number of institutions reporting data

TABLES

INSTITUTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
CASE WESTERN RESERVE	95	106	97	105	96	95	85	102	77	103	58	76	16	41	64	101	102
CHICAGO	11	19	13	82	37	34	6	23	13	30	U/A	28	15	47	47	19	31
CINCINNATI	87	76	64	58	43	43	44	45	U/A	40	U/A	37	30	26	46	54	46
COLORADO	51	86	92	93	75	64	92	74	53	89	50	65	51	36	84	91	85
COLORADO STATE	107	99	101	107	95	103	46	96	60	80	68	102	59	19	102	102	106
COLUMBIA	8	11	7	12	9	7	4	6	U/A	7	2	8	49	75	6	6	6
CONNECTICUT	53	39	54	52	60	47	59	52	U/A	U/A	U/A	72	35	25	59	88	72
CORNELL	12	10	8	5	14	13	11	13	U/A	U/A	U/A	U/A	37	11	6	13	13
DARTMOUTH	76	59	59	61	92	93	72	94	U/A	85	32	75	76	59	102	86	95
DELAWARE	66	65	43	72	44	96	67	76	U/A	18	U/A	87	81	97	71	72	80
DUKE	19	28	27	88	26	37	34	33	18	22	U/A	29	27	15	30	36	40
EMORY	70	73	60	75	41	58	31	48	U/A	33	U/A	73	42	77	63	51	60
FLORIDA	34	20	30	43	27	26	61	28	15	39	12	32	14	68	24	34	22
FLORIDA STATE	71	74	73	24	59	94	99	87	U/A	46	U/A	55	29	66	74	88	68
GEORGETOWN	83	58	47	68	68	45	28	44	31	49	20	89	103	98	51	53	49
GEORGIA	36	33	9	11	31	52	45	42	U/A	63	1	21	21	79	45	28	30
GEORGIA TECH	92	92	62	34	105	107	84	107	78	104	44	104	68	104	96	106	107
GUELPH	72	45	106	92	107	101	106	106	43	100	U/A	106	107	100	107	83	104
HARVARD	1	1	1	2	1	1	1	1	U/A	1	U/A	1	13	51	1	1	1
HAWAII	47	37	22	50	84	55	107	73	U/A	71	11	79	71	106	59	91	70
HOUSTON	94	102	61	27	78	100	83	95	59	84	22	62	94	28	91	98	98
HOWARD	82	75	25	28	30	49	43	39	16	47	9	19	106	107	42	63	58
ILLINOIS, CHICAGO	93	50	71	74	64	50	57	57	30	42	U/A	71	20	6	47	35	45
ILLINOIS, URBANA	3	4	4	22	12	14	21	14	2	11	U/A	10	2	1	10	10	11
INDIANA	18	21	37	81	25	28	69	30	19	29	14	39	8	18	21	22	16

U/A - Unavailable

TABLES

INSTITUTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
IOWA	29	24	41	25	29	51	98	50	14	16	16	46	7	45	37	79	52
IOWA STATE	74	68	63	60	81	87	100	90	58	78	49	67	39	82	96	85	87
KANSAS	35	47	35	62	39	54	40	47	24	26	19	48	18	5	34	63	44
KENT STATE	85	107	107	100	106	82	47	91	55	101	69	105	79	63	99	96	96
KENTUCKY	56	89	66	56	76	77	93	83	75	79	36	54	50	24	56	69	59
LAVAL	86	66	91	101	89	32	74	53	45	88	64	95	70	30	53	30	54
LOUISIANA STATE	43	53	44	64	54	72	90	70	36	50	24	43	83	69	64	71	50
MCGILL	40	34	75	98	34	27	95	37	12	27	48	70	31	64	43	25	39
MCMASTER	104	93	104	106	62	78	105	82	42	37	65	68	87	55	104	54	91
MANITOBA	98	103	99	96	104	61	82	86	73	99	61	91	78	84	71	44	74
MARYLAND	60	41	42	13	33	35	51	36	39	41	18	30	60	102	32	43	32
MASSACHUSETTS	45	40	82	77	38	53	96	55	17	43	45	64	64	67	74	69	77
MIT	55	71	49	78	82	48	39	56	67	86	63	78	63	105	34	47	57
MIAMI	89	80	87	97	63	69	60	65	38	76	U/A	36	46	17	47	67	66
MICHIGAN	5	12	6	16	5	9	12	9	U/A	U/A	5	4	40	23	11	8	8
MICHIGAN STATE	24	15	26	21	48	38	26	38	20	32	39	52	67	80	43	59	35
MINNESOTA	15	26	17	40	11	10	8	10	U/A	28	6	7	1	21	14	33	17
MISSOURI	41	85	78	4	91	86	55	81	54	81	51	85	25	57	74	63	69
NEBRASKA	59	72	55	57	83	97	87	97	41	92	U/A	50	75	72	82	79	86
NEW YORK	27	42	33	46	28	23	16	21	25	52	15	17	82	62	22	32	28
NORTH CAROLINA	20	14	16	35	17	21	29	20	11	13	U/A	24	26	90	18	22	21
NORTH CAROLINA STATE	105	87	90	31	67	79	53	68	64	82	55	69	24	94	96	68	78
NORTHWESTERN	22	29	21	66	50	29	42	35	U/A	55	U/A	41	55	14	19	47	29
NOTRE DAME	63	46	88	90	79	98	103	100	U/A	54	U/A	93	36	60	99	61	93
OHIO STATE	16	23	24	29	15	17	19	16	4	20	10	9	23	13	16	21	19

U/A - Unavailable

TABLES

INSTITUTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
OKLAHOMA	49	95	77	36	80	102	88	101	70	74	31	82	33	7	88	100	92
OKLAHOMA STATE	97	105	102	102	102	104	68	103	74	96	66	92	77	85	91	104	94
OREGON	68	97	51	71	73	91	71	85	34	67	35	84	72	54	84	97	83
PENNSYLVANIA	21	31	34	91	35	24	22	24	U/A	35	U/A	25	58	8	23	39	26
PENNSYLVANIA STATE	28	32	29	30	22	15	15	15	U/A	15	8	16	41	20	20	10	18
PITTSBURGH	33	30	56	55	46	42	41	41	U/A	44	U/A	49	65	53	40	38	34
PRINCETON	17	17	20	53	10	18	56	18	3	4	U/A	44	98	76	25	17	25
PURDUE	67	44	52	69	69	67	78	69	72	83	26	38	74	61	69	44	55
QUEEN'S	79	94	86	76	49	71	101	71	48	59	41	80	105	70	94	41	83
RICE	100	91	98	67	100	106	91	105	U/A	75	59	103	66	103	99	103	105
ROCHESTER	37	79	94	51	52	84	50	63	69	65	56	42	32	46	64	75	70
RUTGERS	25	16	36	18	7	8	13	8	5	8	U/A	6	56	16	16	15	12
SASKATCHEWAN	102	81	105	65	88	89	104	98	71	91	67	59	95	32	105	60	99
SOUTH CAROLINA	44	43	74	49	87	88	97	93	U/A	87	U/A	66	73	71	68	75	90
SOUTHERN CALIFORNIA	38	56	19	39	20	25	30	22	26	48	47	23	99	92	3	10	10
SOUTHERN ILLINOIS	58	78	48	48	93	73	79	84	68	98	U/A	61	6	50	77	94	63
STANFORD	9	7	12	23	3	4	5	4	U/A	3	U/A	3	54	52	8	5	7
SUNY-ALBANY	106	98	85	47	97	90	89	99	56	97	34	90	44	58	84	99	103
SUNY-BUFFALO	39	63	38	17	51	40	33	40	50	73	21	34	19	39	31	72	47
SUNY-STONY BROOK	90	83	100	38	70	56	94	67	46	72	U/A	77	38	78	80	62	79
SYRACUSE	46	100	53	20	72	83	35	66	66	66	U/A	53	100	83	55	44	53
TEMPLE	57	84	81	84	74	74	81	77	65	69	46	81	90	74	53	74	76
TENNESSEE	69	90	57	45	90	62	70	75	61	93	37	63	97	88	71	51	64
TEXAS	6	9	5	8	18	12	9	12	U/A	9	U/A	20	61	44	13	4	9
TEXAS A&M	71	54	79	15	45	65	52	60	40	64	40	35	10	2	58	42	42

U/A - Unavailable

TABLES

INSTITUTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
TORONTO	10	5	18	95	8	5	65	7	U/A	5	7	11	48	43	9	2	3
TULANE	78	82	83	70	77	99	38	80	57	60	U/A	83	85	34	83	88	97
UTAH	80	57	95	54	71	92	54	78	7	19	62	101	80	56	84	79	74
VANDERBILT	73	61	65	80	47	59	32	49	U/A	58	U/A	47	53	40	34	58	48
VIRGINIA	26	18	39	9	24	33	18	25	6	17	17	33	34	33	28	29	33
VPI & SU	88	88	72	6	56	85	77	72	51	94	42	26	69	99	69	77	80
WASHINGTON	14	6	11	3	13	16	23	17	37	51	U/A	5	3	87	15	16	15
WASHINGTON STATE	96	101	50	44	94	81	49	79	62	90	U/A	74	52	93	91	79	88
WASHINGTON U.-ST. LOUIS	52	77	69	73	42	76	25	54	44	68	27	27	45	29	59	63	72
WATERLOO	91	48	93	104	98	75	102	92	27	62	54	98	104	89	94	54	89
WAYNE STATE	48	62	40	63	40	60	20	46	49	31	33	40	28	101	47	94	56
WESTERN ONTARIO	62	35	68	59	65	46	75	59	32	53	U/A	57	91	96	80	24	43
WISCONSIN	13	22	15	26	19	11	7	11	U/A	25	U/A	18	4	12	12	18	14
YALE	2	8	10	32	2	6	3	5	1	14	4	12	92	73	4	3	2
YORK	81	70	67	103	85	57	62	62	U/A	61	U/A	96	96	95	88	57	67
NEW MEXICO	103	104	103	10	103	70	86	89	63	102	U/A	99	89	81	90	84	61
JOHNS HOPKINS	31	51	58	83	32	36	24	32	29	34	38	45	57	4	39	26	37

U/A - Unavailable

RANK ORDER TABLES OF UNIVERSITY LIBRARIES

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

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
	1	HARVARD	11,496,906		52	WASHINGTON U.-ST. LOUIS	2,169,792
	2	YALE	8,538,156		53	CONNECTICUT	2,146,993
	3	ILLINOIS, URBANA	7,377,051		54	BROWN	2,123,050
	4	CALIFORNIA, BERKELEY	7,190,821		55	MIT	2,103,392
	5	MICHIGAN	6,133,171	9	56	KENTUCKY	2,086,428
	6	TEXAS	5,888,776		57	TEMPLE	1,999,792
	7	CALIFORNIA, LOS ANGELES	5,812,163		58	SOUTHERN ILLINOIS	1,997,009
	8	COLUMBIA	5,740,832		59	NEBRASKA	1,939,732
	9	STANFORD	5,740,162		60	MARYLAND	1,928,272
	10	TORONTO	5,698,275		61	BRIGHAM YOUNG	1,926,477
	11	CHICAGO	4,970,720		62	WESTERN ONTARIO	1,872,247
	12	CORNELL	4,924,421		63	NOTRE DAME	1,869,717
	13	WISCONSIN	4,804,386		64	CALIFORNIA, SANTA BARBARA	1,862,167
	14	WASHINGTON	4,764,341		65	CALIFORNIA, SAN DIEGO	1,846,761
	15	MINNESOTA	4,473,262		66	DELAWARE	1,837,158
	16	OHIO STATE	4,254,266		67	PURDUE	1,814,065
	17	PRINCETON	4,070,827		68	OREGON	1,804,926
	18	INDIANA	4,011,675		69	TENNESSEE	1,792,425
	19	DUKE	3,668,935		70	EMORY	1,786,394
	20	NORTH CAROLINA	3,520,273		71	TEXAS A&M	1,786,251
	21	PENNSYLVANIA	3,499,741		72	GUELPH	1,779,183
	22	NORTHWESTERN	3,346,817		73	VANDERBILT	1,761,379
	23	ARIZONA	3,329,146		74	IOWA STATE	1,752,409
	24	MICHIGAN STATE	3,301,739		75	ALABAMA	1,732,058
	25	RUTGERS	3,065,533		76	DARTMOUTH	1,722,398
	26	VIRGINIA	3,003,066		77	FLORIDA STATE	1,718,271
	27	NEW YORK	2,988,453		78	TULANE	1,715,893
	28	PENNSYLVANIA STATE	2,965,695		79	QUEEN'S	1,712,140
	29	IOWA	2,930,932		80	UTAH	1,705,473
	30	ALBERTA	2,761,695		81	YORK	1,697,238
	31	JOHNS HOPKINS	2,728,347		82	HOWARD	1,671,119
	32	BRITISH COLUMBIA	2,719,586		83	GEORGETOWN	1,669,036
	33	PITTSBURGH	2,713,324		84	BOSTON	1,665,753
	34	FLORIDA	2,701,857		85	KENT STATE	1,659,396
	35	KANSAS	2,688,482		86	LAVAL	1,653,067
	36	GEORGIA	2,688,433		87	CINCINNATI	1,634,312
	37	ROCHESTER	2,590,770		88	VPI & SU	1,632,883
	38	SOUTHERN CALIFORNIA	2,533,850		89	MIAMI	1,615,442
	39	SUNY-BUFFALO	2,492,502		90	SUNY-STONY BROOK	1,614,088
	40	MCGILL	2,441,494		91	WATERLOO	1,578,378
	41	MISSOURI	2,410,560		92	GEORGIA TECH	1,576,452
	42	ARIZONA STATE	2,340,657		93	ILLINOIS, CHICAGO	1,563,615
	43	LOUISIANA STATE	2,327,869		94	HOUSTON	1,562,001
	44	SOUTH CAROLINA	2,292,721		95	CASE WESTERN RESERVE	1,534,807
	45	MASSACHUSETTS	2,275,822		96	WASHINGTON STATE	1,527,932
	46	SYRACUSE	2,247,176		97	OKLAHOMA STATE	1,483,703
	47	HAWAII	2,244,118		98	MANITOBA	1,461,076
	48	WAYNE STATE	2,233,540		99	CALIFORNIA, RIVERSIDE	1,369,083
	49	OKLAHOMA	2,230,257		100	RICE	1,368,323
	50	CALIFORNIA, DAVIS	2,227,255		101	CALIFORNIA, IRVINE	1,361,756
	51	COLORADO	2,185,565		102	SASKATCHEWAN	1,360,380
					103	NEW MEXICO	1,299,782
					104	MCMASTER	1,297,180
					105	NORTH CAROLINA STATE	1,239,528
					106	SUNY-ALBANY	1,225,304
					107	COLORADO STATE	1,140,108

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- 250,000 and over | 6- 100,000-129,999 |
| 2- 220,000-249,999 | 7- 70,000- 99,999 |
| 3- 190,000-219,999 | 8- 40,000- 69,999 |
| 4- 160,000-189,999 | 9- under 39,999 |
| 5- 130,000-159,999 | |

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
	1	HARVARD	313,922		52	BRIGHAM YOUNG	65,964
	2	CALIFORNIA, LOS ANGELES	207,140		53	LOUISIANA STATE	64,854
	3	CALIFORNIA, BERKELEY	195,012		54	TEXAS A&M	64,600
	4	ILLINOIS, URBANA	189,222		55	CALIFORNIA, SAN DIEGO	63,674
	5	TORONTO	166,792		56	SOUTHERN CALIFORNIA	61,762
	6	WASHINGTON	162,688		57	UTAH	61,734
	7	STANFORD	161,451		58	GEORGETOWN	60,872
	8	YALE	156,767		59	DARTMOUTH	60,432
	9	TEXAS	141,903		60	CALIFORNIA, SANTA BARBARA	60,302
	10	CORNELL	141,067		61	VANDERBILT	59,798
	11	COLUMBIA	140,135		62	WAYNE STATE	59,494
	12	MICHIGAN	130,358		63	SUNY-BUFFALO	59,329
	13	ARIZONA STATE	126,586		64	BROWN	58,627
	14	NORTH CAROLINA	121,680		65	DELAWARE	58,243
	15	MICHIGAN STATE	116,564		66	LAVAL	58,103
	16	RUTGERS	116,017		67	BOSTON	57,964
	17	PRINCETON	114,716		68	IOWA STATE	55,534
	18	VIRGINIA	112,535		69	CALIFORNIA, IRVINE	55,525
	19	CHICAGO	111,663		70	YORK	55,144
	20	FLORIDA	105,778		71	MIT	54,991
	21	INDIANA	103,316		72	NEBRASKA	54,887
	22	WISCONSIN	100,070		73	EMORY	54,807
	23	OHIO STATE	96,629		74	FLORIDA STATE	54,147
	24	IOWA	96,134		75	HOWARD	53,973
	25	ARIZONA	96,117		76	CINCINNATI	53,920
	26	MINNESOTA	94,262		77	WASHINGTON U.-ST. LOUIS	53,136
	27	BRITISH COLUMBIA	92,451		78	SOUTHERN ILLINOIS	52,394
	28	DUKE	90,060		79	ROCHESTER	51,153
	29	NORTHWESTERN	88,466		80	MIAMI	50,961
	30	PITTSBURGH	87,744		81	SASKATCHEWAN	50,674
	31	PENNSYLVANIA	85,540		82	TULANE	49,791
	32	PENNSYLVANIA STATE	84,004		83	SUNY-STONY BROOK	48,486
	33	GEORGIA	83,832		84	TEMPLE	48,025
	34	MCGILL	83,300		85	MISSOURI	47,506
	35	WESTERN ONTARIO	81,640		86	COLORADO	46,693
	36	ALBERTA	81,386		87	NORTH CAROLINA STATE	45,927
	37	HAWAII	81,131		88	VPI & SU	45,907
	38	CALIFORNIA, OAVIS	79,564		89	KENTUCKY	45,738
	39	CONNECTICUT	78,955		90	TENNESSEE	45,152
	40	MASSACHUSETTS	78,274		91	RICE	45,110
	41	MARYLAND	76,396		92	GEORGIA TECH	44,926
	42	NEW YORK	73,914		93	MCMASTER	43,816
	43	SOUTH CAROLINA	73,748		94	QUEEN'S	40,553
	44	PURDUE	73,415		95	OKLAHOMA	40,382
	45	GUELPH	72,945		96	ALABAMA	40,076
	46	NOTRE DAME	72,403		97	OREGON	39,362
	47	KANSAS	71,930		98	SUNY-ALBANY	38,509
	48	WATERLOO	71,170		99	COLORADO STATE	37,736
	49	CALIFORNIA, RIVERSIDE	67,960	9	100	SYRACUSE	37,305
	50	ILLINOIS, CHICAGO	67,294		101	WASHINGTON STATE	36,280
	51	JOHNS HOPKINS	67,083		102	HOUSTON	35,985
					103	MANITOBA	34,071
					104	NEW MEXICO	30,204
					105	OKLAHOMA STATE	28,810
					106	CASE WESTERN RESERVE	28,715
					107	KENT STATE	27,701

RANK ORDER TABLE 3: CURRENT SERIALS (TOTAL)

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	HARVARD +	102,000	9	53	SYRACUSE	20,994	
	2	CALIFORNIA, BERKELEY +	98,861		54	CONNECTICUT +	20,871	
	3	CALIFORNIA, LOS ANGELES +	94,757		55	NEBRASKA +	20,870	
	4	ILLINOIS, URBANA +	92,530		56	PITTSBURGH +	20,628	
3	5	TEXAS +	79,392		57	TENNESSEE +	20,598	
					58	JOHNS HOPKINS +	20,571	
4	6	MICHIGAN +	67,530	59	DARTMOUTH	20,379		
				60	ALBERTA +	20,278		
5	7	COLUMBIA +	58,516	61	HOUSTON	19,942		
	8	CORNELL +	58,429	62	GEORGIA TECH +	19,796		
	9	GEORGIA +	56,624	63	IOWA STATE +	19,793		
	10	YALE	56,046	64	CINCINNATI	19,789		
	11	WASHINGTON +	55,080	65	VANDERBILT	18,862		
	12	STANFORD +	54,781	66	KENTUCKY	18,688		
	13	CHICAGO +	54,137	67	YORK +	18,637		
	14	CALIFORNIA, DAVIS +	51,162	68	WESTERN ONTARIO +	18,534		
	15	WISCONSIN	50,913	69	WASHINGTON U.-ST. LOUIS	18,372		
	6	16	NORTH CAROLINA +	42,094	70	BRIGHAM YOUNG +	18,291	
		7	17	MINNESOTA +	39,246	71	ILLINOIS, CHICAGO +	18,204
			18	TORONTO +	37,426	72	VPI & SU +	18,182
			19	SOUTHERN CALIFORNIA +	37,124	73	FLORIDA STATE	18,018
			20	PRINCETON +	33,836	74	SOUTH CAROLINA +	17,782
			21	NORTHWESTERN +	33,226	75	MCGILL	17,509
22			HAWAII	32,980	76	ALABAMA	17,435	
23			ARIZONA STATE +	32,792	77	OKLAHOMA +	17,417	
24			OHIO STATE +	31,154	78	MISSOURI	17,065	
8			25	HOWARD	29,682	79	TEXAS A&M	16,868
			26	MICHIGAN STATE +	29,556	80	EMORY	16,867
			27	DUKE	29,484	81	TEMPLE	16,842
	28		BOSTON	29,375	82	MASSACHUSETTS	16,670	
	29		PENNSYLVANIA STATE +	29,324	83	TULANE	16,496	
	30	FLORIDA	29,299	84	CALIFORNIA, IRVINE	16,413		
	31	CALIFORNIA, SAN DIEGO +	29,237	85	SUNY ALBANY	16,277		
	32	ARIZONA	28,777	86	QUEEN'S	15,599		
	33	NEW YORK +	28,466	87	MIAMI	15,570		
	34	PENNSYLVANIA +	28,140	88	NOTRE DAME	15,559		
	35	KANSAS	27,533	89	BROWN +	15,075		
	36	RUTGERS	27,482	90	NORTH CAROLINA STATE	15,053		
	37	INDIANA	26,684	91	LAVAL +	14,558		
	38	SUNY-BUFFALO +	24,110	92	COLORADO	14,262		
	39	VIRGINIA	23,908	93	WATERLOO +	14,113		
	40	WAYNE STATE +	23,796	94	ROCHESTER +	13,684		
	41	IOWA +	22,877	95	UTAH	13,567		
	42	MARYLAND +	22,747	96	CALIFORNIA, RIVERSIDE +	12,797		
	43	DELAWARE	22,543	97	CASE WESTERN RESERVE	12,279		
	44	LOUISIANA STATE	22,267	98	RICE +	12,186		
	45	CALIFORNIA, SANTA BARBARA +	21,784	99	MANITOBA	12,138		
	46	BRITISH COLUMBIA	21,655	100	SUNY-STONY BROOK	11,803		
	47	GEORGETOWN	21,607	101	COLORADO STATE	11,797		
	48	SOUTHERN ILLINOIS	21,439	102	OKLAHOMA STATE	10,911		
	49	MIT +	21,402	103	NEW MEXICO	10,722		
	50	WASHINGTON STATE +	21,240	104	MCMASTER	10,632		
	51	OREGON	21,081	10	105	SASKATCHEWAN	9,689	
	52	PURDUE	21,056		106	GUELPH	9,595	
					107	KENT STATE	7,317	

+ - Includes government document serials

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

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	CALIFORNIA, LOS ANGELES	5,137,087	6	54	UTAH	2,274,245
	2	HARVARD	4,902,955		55	PITTSBURGH	2,258,997
	3	WASHINGTON	4,890,148		56	KENTUCKY	2,221,341
	4	MISSOURI	4,559,542		57	NEBRASKA	2,206,608
	5	CORNELL	4,530,771		58	CINCINNATI	2,105,497
	6	VPI & SU	4,115,389		59	WESTERN ONTARIO	2,080,423
	7	CALIFORNIA, BERKELEY	4,051,125		60	IOWA STATE	2,048,486
	8	TEXAS	4,020,195		61	DARTMOUTH	2,014,484
2	9	VIRGINIA	3,923,464	7	62	KANSAS	1,998,985
	10	NEW MEXICO	3,844,403		63	WAYNE STATE	1,974,435
	11	GEORGIA	3,797,738		64	LOUISIANA STATE	1,943,977
	12	COLUMBIA	3,694,261		65	SASKATCHEWAN	1,896,380
	13	MARYLAND	3,630,297		66	NORTHWESTERN	1,855,577
	14	ARIZONA	3,622,457		67	RICE	1,790,416
3	15	TEXAS A&M	3,478,815	68	GEORGETOWN	1,735,808	
	16	MICHIGAN	3,472,083	69	PURDUE	1,733,692	
	17	SUNY-BUFFALO	3,461,883	70	TULANE	1,722,485	
	18	RUTGERS	3,362,830	71	OREGON	1,697,564	
	19	CALIFORNIA, SANTA BARBARA	3,342,333	72	DELAWARE	1,689,080	
	20	SYRACUSE	3,308,306	73	WASHINGTON U.-ST. LOUIS	1,683,373	
	21	MICHIGAN STATE	3,256,021	74	ILLINOIS, CHICAGO	1,662,162	
	22	ILLINOIS, URBANA	3,198,912	75	EMORY	1,656,555	
	23	STANFORD	3,104,714	76	QUEEN'S	1,640,130	
	24	FLORIDA STATE	3,103,577	77	MASSACHUSETTS	1,636,005	
	25	IOWA	3,020,711	78	MIT	1,618,554	
	26	WISCONSIN	3,018,515	79	BRIGHAM YOUNG	1,544,426	
	27	HOUSTON	3,001,026	80	VANDERBILT	1,529,198	
4	28	HOWARD	2,987,742	8	81	INDIANA	1,466,554
	29	OHIO STATE	2,971,011		82	CHICAGO	1,454,193
	30	PENNSYLVANIA STATE	2,925,368		83	JOHNS HOPKINS	1,449,195
	31	NORTH CAROLINA STATE	2,893,815		84	TEMPLE	1,392,179
	32	YALE	2,861,143		85	CALIFORNIA, SAN DIEGO	1,360,279
	33	ARIZONA STATE	2,827,350		86	ALABAMA	1,293,881
	34	GEORGIA TECH	2,783,380		87	CALIFORNIA, IRVINE	1,282,028
	35	NORTH CAROLINA	2,731,236		88	DUKE	1,279,898
	36	OKLAHOMA	2,657,805		89	CALIFORNIA, RIVERSIDE	1,159,401
	37	CALIFORNIA, DAVIS	2,656,808		90	NOTRE DAME	1,109,945
	38	SUNY-STONY BROOK	2,633,725		91	PENNSYLVANIA	1,105,575
	39	SOUTHERN CALIFORNIA	2,627,754		92	GUELPH	1,090,532
	40	MINNESOTA	2,616,670		93	COLORADO	1,073,961
	41	BOSTON	2,587,487		94	BROWN	1,062,880
	42	ALBERTA	2,576,334		95	TORONTO	1,051,744
	5	43	FLORIDA		2,478,106	96	MANITOBA
44		WASHINGTON STATE	2,457,737	97	MIAMI	979,247	
45		TENNESSEE	2,446,158	98	MCGILL	920,889	
46		NEW YORK	2,396,661	99	BRITISH COLUMBIA	903,056	
47		SUNY-ALBANY	2,383,431	100	KENT STATE	799,454	
48		SOUTHERN ILLINOIS	2,372,434	101	LAVAL	749,109	
49		SOUTH CAROLINA	2,368,227	102	OKLAHOMA STATE	730,908	
50		HAWAII	2,363,009	103	YORK	725,906	
51		ROCHESTER	2,360,899	104	WATERLOO	688,938	
52		CONNECTICUT	2,352,897	105	CASE WESTERN RESERVE	659,322	
53		PRINCETON	2,343,650	106	MCMASTER	394,172	
				107	COLORADO STATE	172,234	

RANK ORDER TABLE 5: 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- 5,500 and over	6- 3,000-3,499
2- 5,000-5,499	7- 2,500-2,999
3- 4,500-4,999	8- 2,000-2,499
4- 4,000-4,499	9- 1,500-1,999
5- 3,500-3,999	10- 1,000-1,499

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value	
1	1	HARVARD	9,968,054	7	54	LOUISIANA STATE	3,369,896	
	2	YALE	8,816,900		55	ALBERTA	3,367,665	
	3	STANFORD	7,294,540		56	VPI & SU	3,347,560	
	4	CALIFORNIA, LOS ANGELES	7,143,307		57	CALIFORNIA, SANTA BARBARA	3,327,917	
	5	MICHIGAN	6,838,655		58	BRIGHAM YOUNG	3,290,468	
	6	CALIFORNIA, BERKELEY	6,665,477		59	FLORIDA STATE	3,289,710	
	7	RUTGERS	6,399,863		60	CONNECTICUT	3,268,212	
	8	TORONTO	5,984,240		61	BOSTON	3,195,096	
	9	COLUMBIA	5,651,091		62	MCMASTER	3,149,104	
2	10	PRINCETON	5,453,666	63	MIAMI	3,138,764		
	11	MINNESOTA	5,319,881	64	ILLINOIS, CHICAGO	3,113,754		
	12	ILLINOIS, URBANA	5,244,029	65	WESTERN ONTARIO	3,071,155		
3	13	WASHINGTON	4,920,689	66	CALIFORNIA, IRVINE	3,036,335		
	14	CORNELL	4,905,819	67	NORTH CAROLINA STATE	3,025,434		
	15	OHIO STATE	4,893,616	68	GEORGETOWN	3,015,402		
	16	ARIZONA	4,861,673	8	69	PURDUE	2,999,062	
	17	NORTH CAROLINA	4,845,776		70	SUNY-STONY BROOK	2,960,511	
	18	TEXAS	4,842,279		71	UTAH	2,959,911	
	19	WISCONSIN	4,780,562		72	SYRACUSE	2,934,672	
	20	SOUTHERN CALIFORNIA	4,769,547		73	OREGON	2,934,606	
	21	CALIFORNIA, DAVIS	4,768,676		74	TEMPLE	2,900,000	
	22	PENNSYLVANIA STATE	4,761,949		75	COLORADO	2,867,358	
	23	ARIZONA STATE	4,707,750		76	KENTUCKY	2,842,713	
	24	VIRGINIA	4,694,633		77	TULANE	2,820,296	
4	25	INDIANA	4,496,484		78	HOUSTON	2,796,262	
	26	DUKE	4,362,121		79	NOTRE DAME	2,717,118	
	27	FLORIDA	4,361,661		80	OKLAHOMA	2,707,432	
	28	NEW YORK	4,357,534	81	IOWA STATE	2,687,645		
	29	IOWA	4,327,897	82	MIT	2,676,046		
	30	HOWARD	4,114,415	83	NEBRASKA	2,662,785		
	31	GEORGIA	4,074,606	84	HAWAII	2,654,743		
	32	JOHNS HOPKINS	4,032,527	85	YORK	2,627,353		
	33	MARYLAND	4,030,549	86	BROWN	2,625,672		
	5	34	MCGILL	3,973,884	87	SOUTH CAROLINA	2,566,338	
35		PENNSYLVANIA	3,962,283	88	SASKATCHEWAN	2,533,744		
36		BRITISH COLUMBIA	3,944,491	89	LAVAL	2,530,583		
37		CHICAGO	3,926,670	90	TENNESSEE	2,529,736		
38		MASSACHUSETTS	3,906,181	9	91	MISSOURI	2,483,181	
39		KANSAS	3,739,089		92	DARTMOUTH	2,442,281	
40		WAYNE STATE	3,634,454		93	SOUTHERN ILLINOIS	2,436,237	
41		EMORY	3,605,247		94	WASHINGTON STATE	2,411,986	
42		WASHINGTON U.-ST. LOUIS	3,580,315		95	COLORADO STATE	2,331,803	
43		CINCINNATI	3,515,282		96	CASE WESTERN RESERVE	2,329,946	
44		DELAWARE	3,508,041		97	SUNY-ALBANY	2,318,650	
6		45	TEXAS A&M		3,470,284	98	WATERLOO	2,300,448
		46	PITTSBURGH		3,461,943	99	CALIFORNIA, RIVERSIDE	2,284,100
		47	VANDERBILT		3,445,730	100	RICE	2,199,949
	48	MICHIGAN STATE	3,435,723		101	ALABAMA	2,170,540	
	49	QUEEN'S	3,435,018		102	OKLAHOMA STATE	2,130,280	
	50	NORTHWESTERN	3,430,831		103	NEW MEXICO	2,052,641	
	51	SUNY-BUFFALO	3,430,707		9	104	MANITOBA	1,984,813
	52	ROCHESTER	3,407,321	105		GEORGIA TECH	1,870,127	
	53	CALIFORNIA, SAN DIEGO	3,372,946	106		KENT STATE	1,753,464	
				107		GUELPH	1,621,181	

RANK ORDER TABLE 6: 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- under 2,000

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	HARVARD	20,464,069	53	MASSACHUSETTS	4,982,535	
	2	CALIFORNIA, BERKELEY	17,057,457	54	KANSAS	4,848,267	
	3	CALIFORNIA, LOS ANGELES	15,835,845	55	HAWAII	4,626,673	
	4	STANFORD	15,356,872	56	SUNY-STONY BROOK	4,609,996	
	5	TORONTO	14,134,438	57	YORK	4,576,733	
	6	YALE	12,583,700	58	EMORY	4,575,568	
	7	COLUMBIA	12,062,874	59	VANDERBILT	4,558,787	
	8	RUTGERS	11,482,791	60	WAYNE STATE	4,456,648	
	9	MICHIGAN	10,692,717	61	MANITOBA	4,395,271	
2	10	MINNESOTA	9,891,282	62	TENNESSEE	4,280,408	
	11	WISCONSIN	9,754,342	63	BOSTON	4,253,169	
	12	TEXAS	9,435,717	64	COLORADO	4,235,117	
	13	CORNELL	9,364,574	65	TEXAS A&M	4,234,475	
3	14	ILLINOIS, URBANA	8,662,158	66	BRIGHAM YOUNG	4,198,258	
	15	PENNSYLVANIA STATE	8,600,913	67	PURDUE	4,102,210	
	16	WASHINGTON	8,486,663	68	BROWN	4,020,213	
	17	OHIO STATE	8,434,918	69	MIAMI	4,019,607	
	18	PRINCETON	8,037,851	8	70	NEW MEXICO	3,994,963
	19	BRITISH COLUMBIA	8,021,372		71	QUEEN'S	3,926,622
4	20	ALBERTA	7,954,592		72	LOUISIANA STATE	3,919,646
	21	NORTH CAROLINA	7,648,874		73	SOUTHERN ILLINOIS	3,919,134
	22	CALIFORNIA, DAVIS	7,618,604		74	TEMPLE	3,915,519
	23	NEW YORK	7,593,465		75	WATERLOO	3,873,289
	24	PENNSYLVANIA	7,401,483		76	WASHINGTON U.-ST. LOUIS	3,852,836
	25	SOUTHERN CALIFORNIA	7,313,717		77	KENTUCKY	3,830,300
	26	FLORIDA	7,278,472		78	MCMASTER	3,795,550
	27	MCGILL	7,088,585		79	NORTH CAROLINA STATE	3,780,692
	28	INDIANA	7,029,966		80	CALIFORNIA, RIVERSIDE	3,709,164
5	29	NORTHWESTERN	6,744,770		81	WASHINGTON STATE	3,707,523
	30	CALIFORNIA, SAN DIEGO	6,686,556		82	KENT STATE	3,692,134
	31	ARIZONA	6,316,183		83	SYRACUSE	3,678,428
	32	LAVAL	6,316,175		84	ROCHESTER	3,639,696
	33	VIRGINIA	6,302,361		85	VPI & SU	3,628,421
	34	CHICAGO	6,216,666		86	MISSOURI	3,617,335
	35	MARYLAND	6,177,393		87	IOWA STATE	3,491,167
	36	JOHNS HOPKINS	6,116,034		88	SOUTH CAROLINA	3,449,184
	37	DUKE	6,011,531		89	SASKATCHEWAN	3,384,537
6	38	MICHIGAN STATE	5,900,132		90	SUNY-ALBANY	3,330,450
	39	CALIFORNIA, SANTA BARBARA	5,882,400		91	OREGON	3,262,072
	40	SUNY-BUFFALO	5,500,296		92	UTAH	3,223,432
	41	ARIZONA STATE	5,442,753		93	DARTMOUTH	3,217,317
	42	PITTSBURGH	5,435,918		94	FLORIDA STATE	3,094,794
	43	CINCINNATI	5,371,627		95	CASE WESTERN RESERVE	3,093,107
	44	CALIFORNIA, IRVINE	5,257,873		96	DELAWARE	3,093,045
	45	GEORGETOWN	5,242,046	9	97	NEBRASKA	2,998,157
	46	WESTERN ONTARIO	5,179,925		98	NOTRE DAME	2,959,324
	47	CONNECTICUT	5,151,484		99	TULANE	2,951,257
	48	MIT	5,097,005		100	HOUSTON	2,893,387
	49	HOWARD	5,079,559		101	GUELPH	2,872,470
	50	ILLINOIS, CHICAGO	5,044,264		102	OKLAHOMA	2,788,375
7	51	IOWA	4,994,323		103	COLORADO STATE	2,724,676
	52	GEORGIA	4,984,249		104	OKLAHOMA STATE	2,620,443
					105	ALABAMA	2,583,464
					106	RICE	2,243,579
				10	107	GEORGIA TECH	1,873,275

RANK ORDER TABLE 7: OTHER 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- 4,000 and over	6- 1,500-1,999
2- 3,500-3,999	6- 1,000-1,499
3- 3,000-3,499	7- 500-999
4- 2,500-2,999	8- under 500
5- 2,000-2,499	

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	HARVARD	5,991,495	8	53	NORTH CAROLINA STATE	1,214,250
	2	CALIFORNIA, LOS ANGELES	4,885,314		54	UTAH	1,205,015
	3	YALE	4,035,000		55	MISSOURI	1,192,333
2	4	COLUMBIA	3,638,056		56	PRINCETON	1,171,303
	5	STANFORD	3,612,195		57	ILLINOIS, CHICAGO	1,130,097
	6	CHICAGO	3,504,231		58	ARIZONA	1,117,367
3	7	WISCONSIN	3,429,082		59	CONNECTICUT	1,103,412
	8	MINNESOTA	3,190,278		60	MIAMI	1,102,904
	9	TEXAS	3,133,759		61	FLORIDA	1,081,018
	10	CALIFORNIA, BERKELEY	3,021,716		62	YORK	1,077,046
4	11	CORNELL	2,973,584		63	BRITISH COLUMBIA	1,064,920
	12	MICHIGAN	2,637,782		64	CALIFORNIA, SANTA BARBARA	1,021,536
	13	RUTGERS	2,507,406				
5	14	BROWN	2,455,694		65	TORONTO	915,669
	15	PENNSYLVANIA STATE	2,399,193	66	BOSTON	897,339	
	16	NEW YORK	2,311,590	67	DELAWARE	880,854	
	17	CALIFORNIA, DAVIS	2,281,895	68	OKLAHOMA STATE	864,270	
	18	VIRGINIA	2,277,790	69	INDIANA	849,306	
	19	OHIO STATE	2,210,018	70	TENNESSEE	839,687	
	20	WAYNE STATE	2,207,502	71	OREGON	828,506	
	21	ILLINOIS, URBANA	2,158,012	72	DARTMOUTH	824,054	
	22	PENNSYLVANIA	2,110,454	73	ALABAMA	810,793	
	23	WASHINGTON	2,072,333	74	LAVAL	785,734	
	24	JOHNS HOPKINS	2,017,823	75	WESTERN ONTARIO	777,061	
	25	WASHINGTON U.-ST. LOUIS	2,016,177	76	BRIGHAM YOUNG	771,433	
	26	MICHIGAN STATE	2,001,779	77	VPI & SU	760,210	
27	ARIZONA STATE	2,001,091	78	PURDUE	755,943		
6	28	GEORGETOWN	1,987,691	79	SOUTHERN ILLINOIS	726,540	
	29	NORTH CAROLINA	1,969,565	80	CALIFORNIA, RIVERSIDE	688,997	
	30	SOUTHERN CALIFORNIA	1,910,440	81	TEMPLE	677,792	
	31	EMORY	1,843,350	82	MANITOBA	664,066	
	32	VANDERBILT	1,806,469	83	HOUSTON	661,942	
	33	SUNY-BUFFALO	1,629,164	84	GEORGIA TECH	655,881	
	34	DUKE	1,625,875	85	CASE WESTERN RESERVE	645,305	
	35	SYRACUSE	1,605,370	86	NEW MEXICO	641,921	
	36	ALBERTA	1,591,204	87	NEBRASKA	634,350	
	37	CALIFORNIA, SAN DIEGO	1,582,147	88	OKLAHOMA	620,741	
	38	TULANE	1,552,263	89	SUNY-ALBANY	609,493	
	39	MIT	1,519,608	90	LOUISIANA STATE	604,281	
	40	KANSAS	1,513,009	91	RICE	546,318	
	41	PITTSBURGH	1,507,852	92	COLORADO	539,236	
	42	NORTHWESTERN	1,505,041	93	KENTUCKY	511,584	
	43	HOWARD	1,501,603	94	SUNY-STONY BROOK	501,475	
7	44	CINCINNATI	1,390,021	9	95	MCGILL	491,336
	45	GEORGIA	1,266,457		96	MASSACHUSETTS	488,538
	46	COLORADO STATE	1,264,578		97	SOUTH CAROLINA	479,738
	47	KENT STATE	1,255,330		98	IOWA	447,790
	48	CALIFORNIA, IRVINE	1,249,457		99	FLORIDA STATE	445,376
	49	WASHINGTON STATE	1,235,803		100	IOWA STATE	444,404
	50	ROCHESTER	1,229,450		101	QUEEN'S	431,789
	51	MARYLAND	1,228,156		102	WATERLOO	419,351
	52	TEXAS A&M	1,223,649		103	NOTRE DAME	413,839
					104	SASKATCHEWAN	402,970
					105	MCMASTER	394,403
			106	GUELPH	332,128		
			107	HAWAII	318,313		

RANK ORDER TABLE 8: 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- 17,000 and over 8- 10,000-10,999
 2- 16,000-16,999 9- 9,000-9,999
 3- 15,000-15,999 10- 8,000-8,999
 4- 14,000-14,999 11- 7,000-7,999
 5- 13,000-13,999 12- 6,000-6,999
 6- 12,000-12,999 13- 5,000-5,999
 7- 11,000-11,999 14- 4,000-4,999

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	HARVARD	37,196,490	53	53	LAVAL	9,690,264
	2	CALIFORNIA, LOS ANGELES	28,447,376	54	54	WASHINGTON U.-ST. LOUIS	9,557,623
	3	CALIFORNIA, BERKELEY	27,524,192	55	55	MASSACHUSETTS	9,498,919
	4	STANFORD	26,692,650	56	56	MIT	9,442,765
	5	YALE	25,783,700	57	57	ILLINOIS, CHICAGO	9,418,851
	6	COLUMBIA	21,910,292	58	58	BROWN	9,207,122
	7	TORONTO	21,268,687	59	59	WESTERN ONTARIO	9,190,255
	8	RUTGERS	20,783,551	60	60	TEXAS A&M	9,055,469
	9	MICHIGAN	20,472,160				
	10	MINNESOTA	18,850,330	10	61	BOSTON	8,628,473
	11	WISCONSIN	18,161,108	62	62	YORK	8,450,085
	12	TEXAS	17,582,447	63	63	ROCHESTER	8,400,031
	13	CORNELL	17,480,059	64	64	BRIGHAM YOUNG	8,371,488
				65	65	MIAMI	8,368,445
2	14	ILLINOIS, URBANA	16,337,081	66	66	SYRACUSE	8,286,754
	15	PENNSYLVANIA STATE	16,079,625	67	67	SUNY-STONY BROOK	8,180,816
				68	68	NORTH CAROLINA STATE	8,142,110
3	16	OHIO STATE	15,791,448				
	17	WASHINGTON	15,756,741	11	69	PURDUE	7,965,803
	18	PRINCETON	15,101,885	70	70	LOUISIANA STATE	7,961,873
	19	CALIFORNIA, DAVIS	15,034,180	71	71	QUEEN'S	7,879,383
				72	72	VPI & SU	7,853,299
4	20	NORTH CAROLINA	14,704,131	73	73	HAWAII	7,793,828
	21	NEW YORK	14,525,109	74	74	COLORADO	7,771,748
	22	SOUTHERN CALIFORNIA	14,156,385	75	75	TENNESSEE	7,765,294
				76	76	DELAWARE	7,655,052
5	23	CHICAGO	13,953,804	77	77	TEMPLE	7,607,314
	24	PENNSYLVANIA	13,777,762	78	78	UTAH	7,503,806
	25	VIRGINIA	13,492,869	79	79	WASHINGTON STATE	7,438,271
	26	BRITISH COLUMBIA	13,193,111	80	80	TULANE	7,435,087
	27	ALBERTA	13,026,440	81	81	MISSOURI	7,421,985
				82	82	MCMASTER	7,421,276
6	28	FLORIDA	12,953,975	83	83	KENTUCKY	7,265,372
	29	ARIZONA	12,656,105	84	84	SOUTHERN ILLINOIS	7,209,230
	30	INDIANA	12,608,425	85	85	OREGON	7,169,345
	31	ARIZONA STATE	12,412,356	86	86	MANITOBA	7,148,292
	32	JOHNS HOPKINS	12,322,381				
	33	DUKE	12,177,792	12	87	FLORIDA STATE	6,996,259
				88	88	CALIFORNIA, RIVERSIDE	6,843,056
7	34	CALIFORNIA, SAN DIEGO	11,957,000	89	89	NEW MEXICO	6,791,259
	35	NORTHWESTERN	11,851,655	90	90	IOWA STATE	6,785,979
	36	MARYLAND	11,711,637	91	91	KENT STATE	6,768,538
	37	MCGILL	11,686,192	92	92	WATERLOO	6,650,772
	38	MICHIGAN STATE	11,516,556	93	93	SOUTH CAROLINA	6,604,478
				94	94	DARTMOUTH	6,556,329
8	39	HOWARD	10,827,300	95	95	HOUSTON	6,433,647
	40	SUNY-BUFFALO	10,702,947	96	96	COLORADO STATE	6,428,057
	41	PITTSBURGH	10,592,081	97	97	NEBRASKA	6,424,930
	42	GEORGIA	10,497,853	98	98	SASKATCHEWAN	6,416,000
	43	CALIFORNIA, SANTA BARBARA	10,496,462	99	99	SUNY-ALBANY	6,326,993
	44	GEORGETOWN	10,416,426	100	100	NOTRE DAME	6,208,325
	45	CINCINNATI	10,405,415	101	101	OKLAHOMA	6,186,865
	46	WAYNE STATE	10,395,333	102	102	CASE WESTERN RESERVE	6,174,479
	47	KANSAS	10,257,916				
	48	EMORY	10,154,379	13	103	OKLAHOMA STATE	5,692,996
				104	104	ALABAMA	5,644,663
9	49	VANDERBILT	9,945,471	105	105	RICE	5,036,627
	50	IOWA	9,944,203				
	51	CALIFORNIA, IRVINE	9,767,004	14	106	GUELPH	4,889,616
	52	CONNECTICUT	9,731,105	107	107	GEORGIA TECH	4,473,279

RANK ORDER TABLE 9: MONOGRAPHS PURCHASED (VOLUMES)

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- 100,000 and over | 7- 40,000-49,999 |
| 2- 90,000-99,999 | 8- 30,000-39,999 |
| 3- 80,000-89,999 | 9- 20,000-29,999 |
| 4- 70,000-79,999 | 10- 10,000-19,999 |
| 5- 60,000-69,999 | 11- under 10,000 |
| 6- 50,000-59,999 | |

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value	
1	1	YALE	129,155	53		COLORADO	22,285	
	2	ILLINOIS, URBANA	124,002		54		MISSOURI	22,189
3	3	PRINCETON	82,803	55		KENT STATE	21,977	
				56		SUNY-ALBANY	21,562	
5	4	OHIO STATE	69,321	57		TULANE	21,403	
	5	RUTGERS	63,673	58		IOWA STATE	21,094	
	6	VIRGINIA	63,108	59		HOUSTON	20,914	
6	7	UTAH	58,902	60		COLORADO STATE	20,814	
	8	ARIZONA	57,316	61		TENNESSEE	20,599	
	9	CALIFORNIA, DAVIS	55,913	62		WASHINGTON STATE	20,498	
	10	BRITISH COLUMBIA	55,042	63		NEW MEXICO	20,328	
	11	NORTH CAROLINA	54,037	10	64	NORTH CAROLINA STATE	19,824	
	12	MCGILL	53,464		65		TEMPLE	19,688
	13	CHICAGO	50,570		66		SYRACUSE	19,526
7	14	IOWA	48,770		67		MIT	19,069
	15	FLORIDA	46,553		68		SOUTHERN ILLINOIS	18,588
	16	HOWARD	45,421		69		ROCHESTER	18,448
	17	MASSACHUSETTS	45,179		70		OKLAHOMA	17,984
	18	DUKE	44,517	71		SASKATCHEWAN	17,850	
	19	INDIANA	42,000	72		PURDUE	16,675	
	20	MICHIGAN STATE	40,411	73		MANITOBA	16,440	
8	21	BROWN	38,513	74		OKLAHOMA STATE	13,142	
	22	BRIGHAM YOUNG	38,025	75		KENTUCKY	13,008	
	23	CALIFORNIA, SAN DIEGO	37,914	76		ALABAMA	12,197	
	24	KANSAS	36,747	11	77	CASE WESTERN RESERVE	9,803	
	25	NEW YORK	35,227		78		GEORGIA TECH	5,194
	26	SOUTHERN CALIFORNIA	35,088				ARIZONA STATE	U/A
	27	WATERLOO	34,675				CALIFORNIA, BERKELEY	U/A
	28	CALIFORNIA, SANTA BARBARA	34,039				CALIFORNIA, LOS ANGELES	U/A
	29	JOHNS HOPKINS	33,965				CINCINNATI	U/A
	30	ILLINOIS, CHICAGO	33,433				COLUMBIA	U/A
	31	GEORGETOWN	32,974				CONNECTICUT	U/A
	32	WESTERN ONTARIO	31,871				CORNELL	U/A
	33	CALIFORNIA, RIVERSIDE	31,586				DARTMOUTH	U/A
	34	OREGON	30,962				DELAWARE	U/A
	35	ALBERTA	30,948				EMORY	U/A
9	36	LOUISIANA STATE	29,650				FLORIDA STATE	U/A
	37	WASHINGTON	28,795				GEORGIA	U/A
	38	MIAMI	28,646				HARVARD	U/A
	39	MARYLAND	28,456			HAWAII	U/A	
	40	TEXAS A&M	28,100			MICHIGAN	U/A	
	41	NEBRASKA	27,738			MINNESOTA	U/A	
	42	MCMASTER	26,641			NORTHWESTERN	U/A	
	43	GUELPH	26,541			NOTRE DAME	U/A	
	44	WASHINGTON U.-ST. LOUIS	25,611			PENNSYLVANIA	U/A	
	45	LAVAL	25,529			PENNSYLVANIA STATE	U/A	
	46	SUNY-STONY BROOK	25,438			PITTSBURGH	U/A	
	47	CALIFORNIA, IRVINE	24,947			RICE	U/A	
	48	QUEEN'S	24,167			SOUTH CAROLINA	U/A	
	49	WAYNE STATE	24,075			STANFORD	U/A	
	50	SUNY-BUFFALO	23,411			TEXAS	U/A	
	51	VPI & SU	23,226			TORONTO	U/A	
	52	BOSTON	22,466			VANDERBILT	U/A	
					WISCONSIN	U/A		
					YORK	U/A		

U/A - Unavailable

RANK ORDER TABLE 10: EXPENDITURES FOR MONOGRAPHS

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

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	HARVARD	4,557,947	53	53	WESTERN ONTARIO †	1,141,226
	2	CALIFORNIA, LOS ANGELES †	4,245,299		54	NOTRE DAME †	1,078,464
2	3	STANFORD †	3,693,047	55	NORTHWESTERN	1,072,458	
	4	PRINCETON	2,991,139	56	ALBERTA †	1,041,530	
4	5	TORONTO †	2,953,759	57	CALIFORNIA, RIVERSIDE	1,036,598	
	6	CALIFORNIA, BERKELEY †	2,897,226	58	VANDERBILT	1,035,961	
5	7	COLUMBIA	2,427,075	59	QUEEN'S †	1,034,915	
	8	RUTGERS	2,409,911	60	TULANE	1,031,619	
	9	TEXAS †	2,080,578	61	YORK	1,031,230	
	10	ARIZONA STATE	2,009,260	62	WATERLOO †	1,024,532	
11	11	ILLINOIS, URBANA †	2,000,890	8	63	GEORGIA	996,874
	12	BRITISH COLUMBIA †	1,936,721		64	TEXAS A&M †	980,831
13	13	NORTH CAROLINA	1,917,591		65	ROCHESTER †	940,726
	14	YALE	1,916,700		66	SYRACUSE	927,850
15	15	PENNSYLVANIA STATE †	1,866,689		67	OREGON †	912,555
	16	IOWA †	1,861,358		68	WASHINGTON U.-ST. LOUIS †	904,464
17	17	VIRGINIA	1,846,074		69	TEMPLE	903,099
	18	DELAWARE †	1,778,497		70	CALIFORNIA, IRVINE	903,086
19	19	UTAH †	1,770,351		71	HAWAII	892,318
	20	OHIO STATE †	1,757,406		72	SUNY-STONY BROOK †	880,530
21	21	CALIFORNIA, SANTA BARBARA †	1,741,829		73	SUNY-BUFFALO	862,737
	22	DUKE	1,730,876		74	OKLAHOMA	860,808
23	23	CALIFORNIA, DAVIS	1,662,850	75	RICE	851,740	
	24	BRIGHAM YOUNG	1,657,817	76	MIAMI	817,069	
25	25	WISCONSIN	1,639,104	77	BOSTON	815,595	
	26	KANSAS †	1,620,068	78	IOWA STATE	814,231	
27	27	MCGILL †	1,587,401	79	KENTUCKY †	796,619	
	28	MINNESOTA	1,585,277	80	COLORADO STATE	793,003	
29	29	INDIANA	1,559,352	81	MISSOURI	790,495	
	30	CHICAGO †	1,483,595	82	NORTH CAROLINA STATE	767,276	
31	31	WAYNE STATE †	1,479,538	83	PURDUE	765,635	
	32	MICHIGAN STATE †	1,456,119	84	HOUSTON †	754,168	
33	33	EMORY	1,435,300	85	DARTMOUTH †	747,680	
	34	JOHNS HOPKINS	1,423,924	86	MIT	743,172	
35	35	PENNSYLVANIA †	1,407,698	87	SOUTH CAROLINA †	743,113	
	36	ARIZONA	1,349,989	88	LAVAL †	714,190	
37	37	MCMASTER †	1,337,702	89	COLORADO	701,728	
	38	BROWN	1,336,164	90	WASHINGTON STATE	682,346	
39	39	FLORIDA	1,334,091	91	SASKATCHEWAN †	667,177	
	40	CINCINNATI †	1,311,611	92	NEBRASKA †	644,529	
41	41	MARYLAND	1,311,033	93	TENNESSEE †	619,549	
	42	ILLINOIS, CHICAGO	1,282,017	94	VPI & SU †	609,872	
43	43	MASSACHUSETTS	1,281,363	95	ALABAMA	588,546	
	44	PITTSBURGH	1,265,663	96	OKLAHOMA STATE	565,897	
45	45	CALIFORNIA, SAN DIEGO	1,259,409	97	SUNY-ALBANY	564,636	
	46	FLORIDA STATE †	1,255,903	98	SOUTHERN ILLINOIS	553,721	
47	47	HOWARD	1,243,949	99	MANITOBA †	523,383	
	48	SOUTHERN CALIFORNIA	1,241,852	100	GUELPH	519,647	
49	49	GEORGETOWN	1,219,511	101	KENT STATE	519,602	
	50	LOUISIANA STATE	1,209,750	102	NEW MEXICO †	503,450	
51	51	WASHINGTON	1,181,542	9	103	CASE WESTERN RESERVE	498,700
	52	NEW YORK	1,144,620		104	GEORGIA TECH	291,947
						CONNECTICUT	U/A
						CORNELL	U/A
						MICHIGAN	U/A

U/A - Unavailable † - Also includes expenditures for Other Library Materials

RANK ORDER TABLE 11: SERIALS PURCHASED (TITLES)

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 | 4- 20,000-29,999 |
| 2- 40,000-49,999 | 5- 10,000-19,999 |
| 3- 30,000-39,999 | 6- under 10,000 |

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value	
2	1	GEORGIA	42,659	54	54	WATERLOO	12,657	
	2	COLUMBIA	40,051		55	NORTH CAROLINA STATE	12,462	
3	3	CALIFORNIA, DAVIS	38,678	56	ROCHESTER	11,853		
	4	YALE	35,446	57	CALIFORNIA, RIVERSIDE	11,728		
	5	MICHIGAN	34,497	58	CASE WESTERN RESERVE	11,524		
	6	MINNESOTA	30,141	59	RICE	11,434		
4	7	TORONTO	29,753	60	BRIGHAM YOUNG	11,089		
	8	PENNSYLVANIA STATE	29,324	61	MANITOBA	10,777		
	9	HOWARD	27,957	62	UTAH	10,649		
	10	OHIO STATE	26,749	63	MIT	10,626		
	11	HAWAII	26,053	64	LAVAL	10,396		
	12	FLORIDA	25,839	6	65	MCMASTER	9,959	
	13	ARIZONA	25,577		66	OKLAHOMA STATE	9,873	
	14	INDIANA	25,237		67	SASKATCHEWAN	8,843	
	15	NEW YORK	24,770		68	COLORADO STATE	8,524	
	16	IOWA	21,634		69	KENT STATE	6,792	
	17	VIRGINIA	21,306					
18	MARYLAND	21,053						
5	19	KANSAS	19,721				ARIZONA STATE	U/A
	20	GEORGETOWN	19,680				CALIFORNIA, BERKELEY	U/A
	21	SUNY-BUFFALO	19,208				CALIFORNIA, LOS ANGELES	U/A
	22	HOUSTON	19,081				CHICAGO	U/A
	23	ALBERTA	18,486			CINCINNATI	U/A	
	24	LOUISIANA STATE	18,189			CONNECTICUT	U/A	
	25	CALIFORNIA, SAN DIEGO	18,068			CORNELL	U/A	
	26	PURDUE	18,003			DELAWARE	U/A	
	27	WASHINGTON U.-ST. LOUIS	17,799			DUKE	U/A	
	28	BOSTON	17,749			EMORY	U/A	
	29	BRITISH COLUMBIA	16,793			FLORIDA STATE	U/A	
	30	ALABAMA	16,765			GUELPH	U/A	
	31	OKLAHOMA	16,515			HARVARD	U/A	
	32	DARTMOUTH	16,469			ILLINOIS, CHICAGO	U/A	
	33	WAYNE STATE	16,443			ILLINOIS, URBANA	U/A	
	34	SUNY-ALBANY	16,277			MIAMI	U/A	
	35	OREGON	16,038			NEBRASKA	U/A	
	36	KENTUCKY	16,027			NEW MEXICO	U/A	
	37	TENNESSEE	15,858			NORTH CAROLINA	U/A	
	38	JOHNS HOPKINS	15,812			NORTHWESTERN	U/A	
	39	MICHIGAN STATE	15,716			NOTRE DAME	U/A	
	40	TEXAS A&M	15,713			PENNSYLVANIA	U/A	
	41	QUEEN'S	15,599			PITTSBURGH	U/A	
	42	VPI & SU	15,582			PRINCETON	U/A	
	43	CALIFORNIA, IRVINE	15,541			RUTGERS	U/A	
	44	GEORGIA TECH	15,082			SOUTH CAROLINA	U/A	
	45	MASSACHUSETTS	14,744			SOUTHERN ILLINOIS	U/A	
	46	TEMPLE	14,635			STANFORD	U/A	
	47	SOUTHERN CALIFORNIA	14,499			SUNY-STONY BROOK	U/A	
	48	MCGILL	14,250			SYRACUSE	U/A	
	49	IOWA STATE	13,650			TEXAS	U/A	
	50	COLORADO	13,539			TULANE	U/A	
	51	MISSOURI	12,925			VANDERBILT	U/A	
	52	BROWN	12,909			WASHINGTON	U/A	
	53	CALIFORNIA, SANTA BARBARA	12,672			WASHINGTON STATE	U/A	
					WESTERN ONTARIO	U/A		
					WISCONSIN	U/A		
					YORK	U/A		

U/A - Unavailable

RANK ORDER TABLE 12: EXPENDITURES FOR 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.

Group Ranges (in thousands) are:

1- 3,100 and over	7- 1,900-2,099
2- 2,900-3,099	8- 1,700-1,899
3- 2,700-2,899	9- 1,500-1,699
4- 2,500-2,699	10- 1,300-1,499
5- 2,300-2,499	11- 1,100-1,299
6- 2,100-2,299	12- under 1,100

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	HARVARD	4,027,414	54	KENTUCKY		1,942,350
	2	CALIFORNIA, BERKELEY	3,768,251	55	FLORIDA STATE		1,935,139
	3	STANFORD	3,601,493	56	BOSTON		1,920,121
	4	MICHIGAN	3,480,670				
	5	WASHINGTON	3,431,030	8	57 WESTERN ONTARIO		1,894,274
	6	RUTGERS	3,343,055		58 CALIFORNIA, IRVINE		1,880,042
	7	MINNESOTA	3,193,370		59 SASKATCHEWAN		1,866,567
	8	COLUMBIA	3,161,492		60 CALIFORNIA, SAN DIEGO		1,856,112
	9	OHIO STATE	3,136,210		61 SOUTHERN ILLINOIS		1,836,117
					62 HOUSTON		1,832,963
2	10	ILLINOIS, URBANA	3,058,629		63 TENNESSEE		1,832,381
	11	TORONTO	3,030,481		64 MASSACHUSETTS		1,831,597
	12	YALE	2,945,700		65 COLORADO		1,826,849
	13	ARIZONA	2,922,529		66 SOUTH CAROLINA		1,810,259
					67 IOWA STATE		1,809,881
3	14	CALIFORNIA, DAVIS	2,898,793		68 MCMASTER		1,800,795
	15	CALIFORNIA, LOS ANGELES	2,898,008		69 NORTH CAROLINA STATE		1,756,547
	16	PENNSYLVANIA STATE	2,895,260		70 MCGILL		1,752,277
	17	NEW YORK	2,874,549		71 ILLINOIS, CHICAGO		1,733,270
	18	WISCONSIN	2,855,167		72 CONNECTICUT		1,727,741
	19	HOWARD	2,789,240		73 EMORY		1,712,654
	20	TEXAS	2,761,701		74 WASHINGTON STATE		1,704,943
	21	GEORGIA	2,747,415				
				9	75 DARTMOUTH		1,694,601
4	22	ARIZONA STATE	2,664,416		76 CASE WESTERN RESERVE		1,691,341
	23	SOUTHERN CALIFORNIA	2,631,595		77 SUNY-STONY BROOK		1,684,930
	24	NORTH CAROLINA	2,619,503		78 MIT		1,681,154
	25	PENNSYLVANIA	2,554,585		79 HAWAII		1,663,805
					80 QUEEN'S		1,662,734
5	26	VPI & SU	2,481,964		81 TEMPLE		1,655,736
	27	WASHINGTON U.-ST. LOUIS	2,461,542		82 OKLAHOMA		1,643,465
	28	CHICAGO	2,443,075		83 TULANE		1,638,882
	29	DUKE	2,426,964		84 OREGON		1,611,696
	30	MARYLAND	2,347,826		85 MISSOURI		1,592,925
	31	ALBERTA	2,326,135		86 CALIFORNIA, SANTA BARBARA		1,586,088
	32	FLORIDA	2,323,683		87 DELAWARE		1,566,949
					88 ALABAMA		1,558,987
6	33	VIRGINIA	2,282,160				
	34	SUNY-BUFFALO	2,258,476	10	89 GEORGETOWN		1,487,902
	35	TEXAS A&M	2,256,497		90 SUNY-ALBANY		1,485,626
	36	MIAMI	2,251,674		91 MANITOBA		1,461,430
	37	CINCINNATI	2,203,671		92 OKLAHOMA STATE		1,443,603
	38	PURDUE	2,196,588		93 NOTRE OAME		1,422,936
	39	INDIANA	2,162,010		94 BRIGHAM YOUNG		1,411,989
	40	WAYNE STATE	2,154,916		95 LAVAL		1,404,862
	41	NORTHWESTERN	2,136,238		96 YORK		1,324,858
	42	ROCHESTER	2,113,028				
				11	97 BROWN		1,278,510
7	43	LOUISIANA STATE	2,092,682		98 WATERLOO		1,275,916
	44	PRINCETON	2,084,136		99 NEW MEXICO		1,206,370
	45	JOHNS HOPKINS	2,061,677		100 CALIFORNIA, RIVERSIDE		1,200,963
	46	IOWA	2,049,249		101 UTAH		1,189,560
	47	VAHDERBILT	2,044,362		102 COLORADO STATE		1,183,032
	48	KANSAS	2,043,554		103 RICE		1,171,283
	49	PITTSBURGH	2,035,590		104 GEORGIA TECH		1,121,368
	50	NEBRASKA	2,018,256				
	51	BRITISH COLUMBIA	2,007,770	12	105 KENT STATE		1,062,065
	52	MICHIGAN STATE	1,979,604		106 GUELPH		965,471
	53	SYRACUSE	1,952,767				
					CORNELL		U/A

U/A - Unavailable

RANK ORDER TABLE 13: 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- 55,000 and over	7- 25,000-29,999
2- 50,000-54,999	8- 20,000-24,999
3- 45,000-49,999	9- 15,000-19,999
4- 40,000-44,999	10- 10,000- 14,999
5- 35,000-39,999	11- 5,000- 9,999
6- 30,000-34,999	12- under 5,000

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value	
1	1	MINNESOTA	154,287	52	52	WASHINGTON STATE	18,688	
	2	ILLINOIS, URBANA	136,745	53	53	VANDERBILT	18,491	
	3	WASHINGTON	79,749	54	54	STANFORD	18,198	
	4	WISCONSIN	77,690	55	55	NORTHWESTERN	17,922	
	5	CALIFORNIA, LOS ANGELES	60,225	56	56	RUTGERS	17,476	
2	6	SOUTHERN ILLINOIS	53,429	57	57	JOHNS HOPKINS	17,468	
	7	IOWA	50,716	58	58	PENNSYLVANIA	17,315	
3	8	INDIANA	46,265	59	59	COLORADO STATE	16,994	
4	9	ALBERTA	44,218	60	60	MARYLAND	16,683	
	10	TEXAS A&M	41,135	61	61	TEXAS	16,206	
5	11	CALIFORNIA, BERKELEY	38,500	62	62	CALIFORNIA, IRVINE	15,990	
	12	ARIZONA	37,920	63	63	MIT	15,968	
	13	HARVARD	37,127	64	64	MASSACHUSETTS	15,878	
	14	FLORIDA	36,078	65	65	PITTSBURGH	15,747	
	15	CHICAGO	35,724	66	66	RICE	15,717	
	16	CASE WESTERN RESERVE	35,605	67	67	MICHIGAN STATE	15,362	
	17	CALIFORNIA, DAVIS	35,373	68	68	GEORGIA TECH	15,039	
6	18	KANSAS	34,176	10	69	VPI & SU	14,877	
	19	SUNY-BUFFALO	32,152		70	LAVAL	14,810	
	20	ILLINOIS, CHICAGO	31,799		71	HAWAII	14,629	
	21	GEORGIA	31,711		72	OREGON	14,239	
	22	ARIZONA STATE	31,427		73	SOUTH CAROLINA	13,841	
	23	OHIO STATE	31,060		74	PURDUE	13,609	
7	24	NORTH CAROLINA STATE	29,571		75	NEBRASKA	13,280	
	25	MISSOURI	29,449		76	DARTMOUTH	12,795	
	26	NORTH CAROLINA	29,021		77	OKLAHOMA STATE	12,660	
	27	DUKE	28,963		78	MANITOBA	12,199	
	28	WAYNE STATE	27,606		79	KENT STATE	11,789	
	29	FLORIDA STATE	27,579		80	UTAH	11,393	
	30	CINCINNATI	26,757		81	DELAWARE	11,178	
	31	MCGILL	26,339		82	NEW YORK	11,062	
	32	ROCHESTER	25,871		83	LOUISIANA STATE	11,032	
	33	OKLAHOMA	25,448		84	BRIGHAM YOUNG	10,674	
	34	VIRGINIA	25,349		85	TULANE	10,367	
	35	CONNECTICUT	25,166		86	CALIFORNIA, RIVERSIDE	10,283	
	36	NOTRE DAME	25,121	11	87	MCMASTER	9,973	
8	37	CORNELL	24,396		88	BROWN	9,909	
	38	SUNY-STONY BROOK	23,655		89	NEW MEXICO	9,821	
	39	IOWA STATE	23,251		90	TEMPLE	9,786	
	40	MICHIGAN	22,773		91	WESTERN ONTARIO	9,676	
	41	PENNSYLVANIA STATE	22,457		92	YALE	9,661	
	42	EMORY	21,897		93	CALIFORNIA, SANTA BARBARA	9,465	
	43	BRITISH COLUMBIA	21,149		94	HOUSTON	9,036	
	44	SUNY-ALBANY	20,991		95	SASKATCHEWAN	9,017	
	45	WASHINGTON U.-ST. LOUIS	20,926		96	YORK	8,742	
	46	MIAMI	20,688		97	TENNESSEE	8,399	
	47	CALIFORNIA, SAN DIEGO	20,609		98	PRINCETON	7,855	
	48	TORONTO	20,583		99	SOUTHERN CALIFORNIA	6,520	
9	49	COLUMBIA	19,441	100	100	SYRACUSE	6,368	
	50	KENTUCKY	19,282		101	ALABAMA	6,174	
	51	COLORADO	18,741	12	102	BOSTON	5,723	
					103	GEORGETOWN	5,293	
					12	104	WATERLOO	4,836
						105	QUEEN'S	4,188
						106	HOWARD	2,584
						107	GUELPH	2,260

RANK ORDER TABLE 14: 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- 22,000 and over	7- 10,000-11,999
2- 20,000-21,999	8- 8,000- 9,999
3- 18,000-19,999	9- 6,000- 7,999
4- 16,000-17,999	10- 4,000- 5,999
5- 14,000-15,999	11- 2,000- 3,999
6- 12,000-13,999	12- under 2,000

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
	1	ILLINOIS, URBANA	164,950		53	PITTSBURGH	8,095
	2	TEXAS A&M	20,489		54	OREGON	8,078
	3	CALIFORNIA, BERKELEY	19,409	9	55	MCMASTER	7,947
	4	JOHNS HOPKINS	17,681		56	UTAH	7,881
	5	KANSAS	16,896		57	MISSOURI	7,866
	6	ILLINOIS, CHICAGO	16,031		58	SUNY-ALBANY	7,637
					59	DARTMOUTH	7,617
	7	OKLAHOMA	14,716		60	NOTRE DAME	7,583
	8	PENNSYLVANIA	14,607		61	PURDUE	7,570
	9	ALBERTA	14,015		62	NEW YORK	7,380
					63	KENT STATE	7,373
6	10	BRIGHAM YOUNG	13,675		64	MCGILL	7,363
	11	CORNELL	13,337		65	ARIZONA STATE	7,300
	12	WISCONSIN	13,322		66	FLORIDA STATE	7,278
	13	OHIO STATE	13,297		67	MASSACHUSETTS	6,907
	14	NORTHWESTERN	12,931		68	FLORIDA	6,798
	15	DUKE	12,902		69	LOUISIANA STATE	6,615
	16	RUTGERS	12,852		70	QUEEN'S	6,551
	17	MIAMI	12,468		71	SOUTH CAROLINA	6,496
	18	INDIANA	12,343		72	NEBRASKA	6,475
	19	COLORADO STATE	12,290		73	YALE	6,365
	20	PENNSYLVANIA STATE	12,250		74	TEMPLE	6,245
					75	COLUMBIA	6,111
					76	PRINCETON	6,078
					77	EMORY	6,019
7	21	MINNESOTA	11,446				
	22	BRITISH COLUMBIA	11,283	10	78	SUNY-STONY BROOK	5,988
	23	MICHIGAN	11,150		79	GEORGIA	5,979
	24	KENTUCKY	11,023		80	MICHIGAN STATE	5,964
	25	CONNECTICUT	10,953		81	NEW MEXICO	5,928
	26	CINCINNATI	10,562		82	IOWA STATE	5,603
	27	CALIFORNIA, SANTA BARBARA	10,362		83	SYRACUSE	5,587
	28	HOUSTON	10,209		84	MANITOBA	5,520
	29	WASHINGTON U.-ST. LOUIS	10,079		85	OKLAHOMA STATE	5,431
	30	LAVAL	10,051		86	BROWN	5,341
	31	CALIFORNIA, LOS ANGELES	10,028		87	WASHINGTON	5,336
	32	SASKATCHEWAN	10,023		88	TENNESSEE	4,913
					89	WATERLOO	4,903
8	33	VIRGINIA	9,966		90	NORTH CAROLINA	4,875
	34	TULANE	9,761		91	ALABAMA	4,807
	35	CALIFORNIA, RIVERSIDE	9,654		92	SOUTHERN CALIFORNIA	4,665
	36	COLORADO	9,609		93	WASHINGTON STATE	4,513
	37	CALIFORNIA, SAN DIEGO	9,453		94	NORTH CAROLINA STATE	4,278
	38	CALIFORNIA, IRVINE	9,425		95	YORK	4,225
	39	SUNY-BUFFALO	9,159		96	WESTERN ONTARIO	4,155
	40	VANDERBILT	9,081				
	41	CASE WESTERN RESERVE	9,027	11	97	DELAWARE	3,785
	42	BOSTON	8,869		98	GEORGETOWN	3,634
	43	TORONTO	8,731		99	VPI & SU	3,547
	44	TEXAS	8,665		100	GUELPH	3,319
	45	IOWA	8,581		101	WAYNE STATE	3,310
	46	ROCHESTER	8,576		102	MARYLAND	3,138
	47	CHICAGO	8,456		103	RICE	3,125
	48	CALIFORNIA, DAVIS	8,328		104	GEORGIA TECH	3,104
	49	ARIZONA	8,315		105	MIT	2,967
	50	SOUTHERN ILLINOIS	8,311		106	HAWAII	2,279
	51	HARVARD	8,281				
	52	STANFORD	8,278	12	107	HOWARD	1,211

RANK ORDER TABLE 15: 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- 225 and over | 6- 100-124 |
| 2- 200-224 | 7- 75- 99 |
| 3- 175-199 | 8- 50- 74 |
| 4- 150-174 | 9- 25- 49 |
| 5- 125-149 | |

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	HARVARD	325	52	BROWN	72	
2	2	CALIFORNIA, LOS ANGELES	209	53	LAVAL	70	
	3	SOUTHERN CALIFORNIA	205	53	TEMPLE	70	
3	4	YALE	195	55	SYRACUSE	69	
	5	CALIFORNIA, BERKELEY	168	56	CALIFORNIA, DAVIS	68	
4	6	COLUMBIA	163	56	KENTUCKY	68	
	6	CORNELL	163	58	TEXAS A&M	67	
	8	STANFORD	162	59	BOSTON	66	
	9	TORONTO	160	59	CONNECTICUT	66	
	5	ILLINOIS, URBANA	148	59	HAWAII	66	
5	11	MICHIGAN	142	59	WASHINGTON U.-ST. LOUIS	66	
	12	WISCONSIN	139	63	EMORY	65	
	13	TEXAS	137	64	CALIFORNIA, SANTA BARBARA	62	
	14	MINNESOTA	126	64	CASE WESTERN RESERVE	62	
	15	WASHINGTON	119	64	LOUISIANA STATE	62	
	16	OHIO STATE	118	64	ROCHESTER	62	
	16	RUTGERS	118	68	SOUTH CAROLINA	60	
	18	NORTH CAROLINA	117	69	PURDUE	59	
6	19	NORTHWESTERN	114	69	VPI & SU	59	
	20	PENNSYLVANIA STATE	113	71	DELAWARE	57	
	21	INDIANA	112	71	MANITOBA	57	
	22	NEW YORK	109	71	TENNESSEE	57	
	23	PENNSYLVANIA	108	74	FLORIDA STATE	56	
	24	FLORIDA	106	74	MASSACHUSETTS	56	
	25	PRINCETON	105	74	MISSOURI	56	
	26	BRITISH COLUMBIA	103	77	ALABAMA	55	
	7	27	ARIZONA	98	77	CALIFORNIA, IRVINE	55
		28	VIRGINIA	96	77	SOUTHERN ILLINOIS	55
		29	ARIZONA STATE	95	80	SUNY-STONY BROOK	54
		30	DUKE	94	80	WESTERN ONTARIO	54
		31	SUNY-BUFFALO	92	82	NEBRASKA	53
		32	MARYLAND	90	83	TULANE	52
33		BRIGHAM YOUNG	88	84	COLORADO	50	
34		KANSAS	87	84	OREGON	50	
34		MIT	87	84	SUNY-ALBANY	50	
34		VANDERBILT	87	84	UTAH	50	
37		ALBERTA	86	9	88	OKLAHOMA	48
37		IOWA	86	88	YORK	48	
39		JOHNS HOPKINS	84	90	NEW MEXICO	46	
40		PITTSBURGH	83	91	HOUSTON	45	
41	CALIFORNIA, SAN DIEGO	82	91	OKLAHOMA STATE	45		
42	HOWARD	81	91	WASHINGTON STATE	45		
43	MCGILL	80	94	QUEEN'S	44		
43	MICHIGAN STATE	80	94	WATERLOO	44		
45	GEORGIA	78	96	GEORGIA TECH	43		
46	CINCINNATI	77	96	IOWA STATE	43		
8	47	CHICAGO	74	96	NORTH CAROLINA STATE	43	
	47	ILLINOIS, CHICAGO	74	99	KENT STATE	42	
	47	MIAMI	74	99	NOTRE DAME	42	
	47	WAYNE STATE	74	99	RICE	42	
	51	GEORGETOWN	73	102	COLORADO STATE	41	
			102	DARTMOUTH	41		
			104	MCMASTER	38		
			105	SASKATCHEWAN	36		
			106	CALIFORNIA, RIVERSIDE	34		
			107	GUELPH	30		

RANK ORDER TABLE 16: 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- 450 and over	6- 200-249
2- 400-449	7- 150-199
3- 350-399	8- 100-149
4- 300-349	9- 50- 99
5- 250-299	10- under 50

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	HARVARD	575	52	52	TENNESSEE	143
	2	TORONTO	496		53	GEORGETOWN	141
3	3	YALE	378		54	CINCINNATI	140
	4	TEXAS	376		54	MCMASTER	140
	5	STANFORD	359		54	WATERLOO	140
4	6	COLUMBIA	328		57	YORK	138
	7	CALIFORNIA, LOS ANGELES	325		58	VANDERBILT	137
	8	MICHIGAN	302		59	MICHIGAN STATE	131
5	9	CALIFORNIA, BERKELEY	294		60	SASKATCHEWAN	129
	10	ALBERTA	275		61	NOTRE DAME	126
	10	ILLINOIS, URBANA	275		62	SUNY-STONY BROOK	125
	10	PENNSYLVANIA STATE	275		63	HOWARD	124
	13	CORNELL	270		63	KANSAS	124
	14	BRITISH COLUMBIA	269		63	MISSOURI	124
	15	RUTGERS	266		63	WASHINGTON U.-ST. LOUIS	124
6	16	WASHINGTON	238		67	MIAMI	123
	17	PRINCETON	222		68	NORTH CAROLINA STATE	122
	18	WISCONSIN	216		69	KENTUCKY	121
	19	CHICAGO	214		69	MASSACHUSETTS	121
	20	ARIZONA STATE	211		71	LOUISIANA STATE	118
	21	OHIO STATE	210		72	DELAWARE	115
	22	INDIANA	205		72	SUNY-BUFFALO	115
	22	NORTH CAROLINA	205		74	TEMPLE	114
	24	WESTERN ONTARIO	202		75	ROCHESTER	113
	7	25	MCGILL		199	75	SOUTH CAROLINA
26		JOHNS HOPKINS	198		77	CALIFORNIA, IRVINE	112
27		ARIZONA	196	77	VPI & SU	112	
28		GEORGIA	195	79	IOWA	111	
29		VIRGINIA	194	79	NEBRASKA	111	
30		LAVAL	192	79	UTAH	111	
31		CALIFORNIA, DAVIS	187	79	WASHINGTON STATE	111	
32		NEW YORK	186	83	GUELPH	110	
33		MINNESOTA	185	84	NEW MEXICO	109	
34		FLORIDA	184	85	IOWA STATE	108	
35		ILLINOIS, CHICAGO	179	86	DARTMOUTH	107	
36		DUKE	176	87	BROWN	106	
37		CALIFORNIA, SAN DIEGO	173	88	CONNECTICUT	101	
38		PITTSBURGH	169	88	FLORIDA STATE	101	
39		PENNSYLVANIA	165	88	TULANE	101	
40		SOUTHERN CALIFORNIA	152	91	COLORADO	100	
41		QUEEN'S	151	91	HAWAII	100	
42		TEXAS A&M	150	9	93	CALIFORNIA, RIVERSIDE	98
8	43	MARYLAND	148		94	SOUTHERN ILLINOIS	96
	44	MANITOBA	147		94	WAYNE STATE	96
	44	PURDUE	147		96	KENT STATE	93
	44	SYRACUSE	147		97	OREGON	91
	47	MIT	146		98	HOUSTON	86
	47	NORTHWESTERN	146		99	SUNY-ALBANY	85
	49	BOSTON	145		100	OKLAHOMA	80
	49	CALIFORNIA, SANTA BARBARA	145		101	CASE WESTERN RESERVE	79
	51	EMORY	143		102	COLORADO STATE	78
					103	RICE	76
					104	OKLAHOMA STATE	75
			105		ALABAMA	73	
			106		GEORGIA TECH	51	
			10	107	BRIGHAM YOUNG	47	

RANK ORDER TABLE 17: TOTAL STAFF

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- 650 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	1,049	52	63	SOUTHERN ILLINOIS	246		
	2	YALE	868		64	TENNESSEE	244		
	3	TORONTO	830		65	BROWN	243		
	4	CALIFORNIA, BERKELEY	740		66	HAWAII	231		
	5	CALIFORNIA, LOS ANGELES	711		67	YORK	238		
2	6	COLUMBIA	631	53	54	LAVAL	269		
	7	STANFORD	618		55	PURDUE	268		
3	8	MICHIGAN	595	56	56	WAYNE STATE	266		
	9	TEXAS	586		57	MIT	265		
4	10	SOUTHERN CALIFORNIA	546	58	58	HOWARD	264		
	11	ILLINOIS, URBANA	536		59	KENTUCKY	263		
	12	RUTGERS	521		60	EMORY	258		
	13	CORNELL	511		61	NEW MEXICO	251		
5	14	WISCONSIN	504	62	62	CALIFORNIA, SANTA BARBARA	250		
	15	WASHINGTON	483		10	63	SOUTHERN ILLINOIS	246	
	16	INDIANA	467			64	TENNESSEE	244	
	17	MINNESOTA	463			65	BROWN	243	
	18	PENNSYLVANIA STATE	457			66	HAWAII	231	
19	OHIO STATE	454	67	YORK		238			
6	20	BRITISH COLUMBIA	419	68	68	FLORIDA STATE	237		
	21	NORTH CAROLINA	412		69	MISSOURI	235		
	22	FLORIDA	403		70	HAWAII	231		
	23	ALBERTA	402		70	ROCHESTER	231		
7	24	ARIZONA	390	72	72	CONNECTICUT	230		
	25	PRINCETON	375		72	WASHINGTON U.-ST. LOUIS	230		
	26	PENNSYLVANIA	368		74	MANITOBA	229		
	27	ARIZONA STATE	366		74	UTAH	229		
	28	NEW YORK	364		76	TEMPLE	227		
	29	NORTHWESTERN	360		77	MASSACHUSETTS	226		
	30	GEORGIA	354		78	NORTH CAROLINA STATE	224		
	8	31	CHICAGO		349	79	79	SUNY-STONY BROOK	221
		32	MARYLAND		348		80	DELAWARE	220
		33	VIRGINIA		343		80	VPI & SU	220
34		PITTSBURGH	342	82	CALIFORNIA, IRVINE		217		
35		CALIFORNIA, SAN DIEGO	331	83	OREGON		215		
35		MICHIGAN STATE	331	83	QUEEN'S		215		
37		JOHNS HOPKINS	330	85	COLORADO		211		
38		BRIGHAM YOUNG	325	86	NEBRASKA		210		
39		MCGILL	321	87	IOWA STATE		209		
40		CALIFORNIA, DAVIS	320	88	88		WASHINGTON STATE	206	
40	DUKE	320	89		WATERLOO	205			
42	TEXAS A&M	309	90		SOUTH CAROLINA	203			
43	WESTERN ONTARIO	306	11		91	MCMASTER	195		
9	44	KANSAS			298	92	OKLAHOMA	191	
	45	ILLINOIS, CHICAGO			295	93	NOTRE DAME	190	
	46	CINCINNATI			294	94	OKLAHOMA STATE	185	
	47	SUNY-BUFFALO			291	95	DARTMOUTH	184	
	48	VANDERBILT			289	96	KENT STATE	183	
	49	GEORGETOWN			287	97	TULANE	181	
	50	LOUISIANA STATE		283	98	HOUSTON	178		
	51	BOSTON		278	99	SASKATCHEWAN	177		
	10	101		CALIFORNIA, RIVERSIDE	173	100	ALABAMA	175	
		102	CASE WESTERN RESERVE	171	101	CALIFORNIA, RIVERSIDE	173		
103		SUNY-ALBANY	170	102	CASE WESTERN RESERVE	171			
104		GUELPH	154	103	SUNY-ALBANY	170			
12	105	RICE	149	104	GUELPH	154			
	106	COLORADO STATE	132	12	105	RICE	149		
	107	GEORGIA TECH	112		106	COLORADO STATE	132		
			107		GEORGIA TECH	112			

ARL STATISTICS, 1987-88

Instructions for Completing the Questionnaire

1. Definitions of the statistical categories used in this questionnaire can be found in *American National Standard for Library and Information Sciences and Related Publishing Practices - Library Statistics*. Z39.7-1983. (New York, American National Standards Institute, 1983.)
2. The questionnaire assumes a fiscal year ending June 30, 1988. If your fiscal year is different, please provide a footnote on p. 4 of the questionnaire.
3. **Please do not use decimals.** All figures should be rounded to the nearest whole number.
4. **Please do not leave any lines blank.** If the appropriate answer is zero or none, use 0. If an exact figure is unavailable, use U/A. If a question is not applicable to your library, use N/A.
5. 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 Integrated Postsecondary Education Data System (IPEDS) survey described 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. 4 of the questionnaire.
6. A **branch library** is defined as an auxiliary library service outlet with quarters separate from the central library of a system, which has a basic collection of books and other materials, a regular staffing level, and an established schedule. A branch library is administered either by the central library or (as in the case of some law and medical libraries) through the administrative structure of other units within the university. Departmental study/reading rooms are not included.
7. **Questions 1-6. Collections.** Use the ANSI Z39.7-1983 definition for **volume** as follows:

a physical unit of any printed, typewritten, handwritten, mimeographed, or processed work, contained in one binding or portfolio, hardbound or paperbound, which has been cataloged, classified, and made ready for use.

Include duplicates and bound volumes of periodicals. Exclude microforms, maps, nonprint materials, and uncataloged items. Exclude government document volumes unless they are cataloged, classified, and shelved as part of the general collection. If any of these items cannot be excluded, please provide an explanatory footnote on p. 4 of the questionnaire. For purposes of this questionnaire, unclassified bound serials that are arranged in alphabetical order are considered classified.
8. **Question 2.** Include only volumes cataloged, classified, and made ready for use.
9. **Question 6.** Report number of volumes purchased. Include all volumes for which an expenditure was made during 1987-88, including volumes paid for in advance but not received during the fiscal year. Include monographs in series and continuations. If only number of titles purchased can be reported, please report the data and provide an explanatory footnote on p. 4 of the questionnaire.
Note: This question is concerned with volumes purchased rather than volumes received or

cataloged. Question 15 requests the expenditure for the volumes counted here.

10. **Questions 7-9. Serials.** Include duplicate subscriptions and only those government document serials that are cataloged, classified, and shelved as part of the general collection; do not include government documents serials that are housed in a separate government documents collection. Exclude monographic and publishers' series. A **serial** is

a publication issued in successive parts, usually at regular intervals, and as a rule, intended to be continued indefinitely. Serials include periodicals, newspapers, annuals (reports, yearbooks, etc.), memoirs, proceedings, and transactions of societies.
11. **Question 8.** If the number of nonpurchased serials is not available, report only the total number of current serials received on line 9, and report U/A for lines 7 and 8.
12. **Question 10. Microforms.** Include number of reels of microfilm, number of microcards, and number of microprint and microfiche sheets. Exclude government document microforms.
13. **Questions 11-14. Personnel.** Report the number of staff in filled positions, or positions which are only temporarily vacant. Include cost recovery positions and staff hired for special projects and grants, but provide an explanatory footnote indicating the number of such staff. If such staff cannot be included, provide a footnote on p. 4 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.
14. **Question 11.** 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.
15. **Questions 15-26. Expenditures.** Report all expenditures of funds that come to the library from the regular institutional budget and from other sources, such as research grants, special projects, gifts and endowments, and fees for service. Canadian libraries should report expenditures in both Canadian and U.S. dollars. To determine figures in U.S. dollars, divide Canadian dollar amounts by 1.2826, the average monthly noon exchange rate published in the *Bank of Canada Review* for the period July 1987-June 1988.
16. **Question 15.** Include here expenditures for volumes reported on line 6.
17. **Question 16.** Exclude monographic and publishers' series.
18. **Question 17.** Include all materials except monographs and current serials, e.g. microforms, backfiles of serials, charts and maps, audiovisual materials, manuscripts, electronic media, etc. If expenditures for these materials are included in lines 15 and/or 16 and cannot be disaggregated, please report U/A and provide a footnote on page 4.
19. **Question 18.** Include any other materials funds expenditures not included in questions 15-17, e.g., expenditures for bibliographic utilities, literature searching, security devices, memberships for the purposes of publications, etc. Please list categories, with amounts, in a footnote on p. 4 of the questionnaire. Note: If your library does not use materials funds for non-materials expenditures, **please report 0, not U/A.** (Many libraries include expenditures for these items in Other Operating Expenditures, line 25.)

20. **Question 20.** Include only contract expenditures. If all binding is done in-house, state this fact and give in-house expenditures in a footnote on p. 4 of the questionnaire; do not include personnel expenditures.
21. **Questions 21-24.** Exclude fringe benefits.
22. **Questions 23-24.** Report 100% of student wages. Include federal and local funds for work study students, regardless of budgetary source of funds.
23. **Question 25.** Exclude expenditures for buildings, maintenance, and fringe benefits.
24. **Questions 27-28.** Include both original materials and photocopies in lieu of originals.
25. **Questions 29-30. 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 included in this survey. If you are unable to provide a figure for Ph.D.s only, please note this in a footnote on p. 4 of the questionnaire.
26. **Question 30.** For the purposes of this report, Ph.D. fields are defined as the specific discipline specialties formerly enumerated in the form used by the U.S. Department of Education entitled, "Integrated Postsecondary Education Data System Survey, Postsecondary Completions," designated as ED (CS) Form G50-14P-C. Although the IPEDS 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. 4 of the questionnaire.
27. **Questions 31-34. Enrollment.** U.S. libraries should use the 1987-88 enrollment figures reported to the Department of Education on the form entitled "Integrated Postsecondary Education Data System, Fall Enrollment . . . 1987," designated as ED (CS) Form G50-14P-EF. The line and column numbers on the IPEDS form for each category are noted on the questionnaire. Please check these figures against the enrollment figures reported to ARL in 1987 to ensure consistency and accuracy. **Note:** In the past, the number of part-time students reported was FTE; the number now reported to IPEDS is a head count of part-time students.
28. **Question 35. Faculty.** Instructional faculty are defined as those members of the Instructional/Research staff who are employed on a full-time basis and whose major regular assignment is instruction, including those with released time for research. Please be sure number reported is equivalent to the number reported for 1986-87.
29. **Footnotes.** Reporting libraries are urged to record in the footnote section any information that would clarify the figures submitted, e.g., the inclusion of branch campus libraries. Explanatory footnotes will be included with the published statistics. Please make an effort to word your footnotes in a manner consistent with notes appearing in the published report, so that the ARL Office can interpret your footnotes correctly. For your convenience, a copy of your footnotes from the 1986-87 *ARL Statistics* is included in the questionnaire. Please update these notes, delete them, or indicate that they remain valid. (Please note that the number in parentheses refers to the appropriate column on the Library Data Tables in the published *Statistics*, not to a line number on the questionnaire.)
30. 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. If an unusual change has occurred, please provide an explanatory footnote on p. 4 of the questionnaire.

31. Before returning the questionnaire, **please check all math.** Many follow-up telephone calls can be avoided if math errors are corrected before the questionnaire is submitted.
32. Return one copy of the questionnaire to the ARL Office by **October 7, 1988.** If there are any questions about the procedure to be followed in completing these questionnaires, contact the ARL Office. Please be sure the library director has signed the questionnaire before it is returned to the ARL Office.

ARL STATISTICS QUESTIONNAIRE, 1987-88

Please do not leave any lines blank. If the appropriate answer is zero or none, use "0". If an exact figure is unavailable, use "U/A." If a question is not applicable, use "N/A."

Reporting Institution _____ Date Returned to ARL _____

Questionnaire Completed by (Name) _____

Position _____ Phone _____

Contact Person (if different) _____

Position _____ Phone _____

COLLECTIONS (See instructions 7-11)

1. **Volumes held June 30, 1987**
(Exclude microforms, uncataloged govt. docs., maps, a/v material.
Record figure reported last year or footnote adjusted figure on p. 4.) _____
2. **Volumes added during year -- Gross**
(Exclude microforms, uncataloged govt. docs., maps, a/v material.)
(See instruction 8) _____
3. **Volumes withdrawn during year**
(Exclude microforms, uncataloged govt. docs., maps, a/v material.) _____
4. **Volumes added during year -- Net** (Subtract line 3 from line 2) _____
5. **Volumes held June 30, 1988** (Add line 1 to line 4) _____
6. **Number of monographic volumes purchased**
(Volumes for which expenditures are reported on line 15. Footnote if titles.)
(See instruction 9) _____
7. **Number of current serials, including periodicals, purchased**
(See instruction 10) _____
8. **Number of current serials, including periodicals, received but not purchased** (Exchanges, gifts, etc.) (See instructions 10-11) _____
9. **Total number of current serials received** (Add line 7 to line 8)
(See instruction 11) _____
10. **Total microform units held June 30, 1988** (See instruction 12) _____

PERSONNEL (See instructions 13-14) (Round figures to nearest whole number.)

11. **Number of professional staff, FTE** (See instruction 14) _____
12. **Number of nonprofessional staff, FTE** _____
13. **Number of student assistants, FTE** _____
14. **Total FTE staff** (Add lines 11, 12, 13) _____



Dollars Canadian
(Canadian
libraries only)

Dollars U.S.
(Divide Canadian
dollars by 1.2826)

EXPENDITURES (See instructions 15-23)

- 15. **Monographs** (Expenditures for volumes reported on line 6)
(See instruction 16) _____
- 16. **Current serials including periodicals** (See instruction 17) _____
- 17. **Other library materials** (e.g., microforms, a/v, etc.)
(See instruction 18) _____
- 18. **Miscellaneous** (All materials fund expenditures not included above)
(See instruction 19) _____
- 19. **Total library materials** (Add lines 15, 16, 17, 18) _____
- 20. **Contract binding** (See instruction 20) _____
- 21. **Salaries and wages -- professional staff** (See instruction 21) _____
- 22. **Salaries and wages -- nonprofessional staff** (See instruction 21) _____
- 23. **Salaries and wages -- student assistants** (See instruction 22) _____
- 24. **Total salaries and wages** (Add lines 21,22,23) (See instruction 21) _____
- 25. **Other operating expenditures** (See instruction 23) _____
- 26. **Total library expenditures** (Add lines 19, 20, 24, 25) _____

INTERLIBRARY LOANS (See instruction 24)

- 27. **Total items loaned** _____
- 28. **Total items borrowed** _____

PH.D. DEGREES (See instructions 25-26)

- 29. **Number of Ph.D.s awarded** _____
- 30. **Number of fields in which Ph.D.s can be awarded** (See instruction 26) _____

ENROLLMENT -- FALL 1987 (See instruction 27)

- 31. **Total full-time students** (Add line 8, columns 13 & 14, and line 14, columns 13 & 14) _____
- 32. **Total part-time students** (Add line 22, columns 13 & 14, and line 28, columns 13 & 14) _____
- 33. **Total full-time graduate students** (Line 14, columns 13 & 14) _____
- 34. **Total part-time graduate students** (Line 28, columns 13 & 14) _____

FACULTY (See instruction 28)

- 35. **Number of full-time instructional faculty** _____

FOOTNOTES FOR ARL STATISTICS, 1987-88

(Compare footnotes from previous year as they appear in the published *ARL Statistics* and revise as appropriate. For your convenience, a copy of your library's footnotes is given on p. 4 of this questionnaire.) (See instruction 29)

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 main campus libraries not included:**

4. **Figures include reports from branch campus libraries.** (See instruction 5)
 Yes No We have only one campus.

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

6. **If branch campus libraries are not included, please specify which campuses:**

7. **Basis of volume count is:** Physical Bibliographical

8. **Count of current serials (Questions 7-9) includes government document serials.**
 Yes No

9. **Fringe benefits are included in expenditures for salaries and wages (Questions 21-24).**
 Yes No

10. **Other comments:**



FOOTNOTES FOR ARL STATISTICS, 1987-88

11. Footnotes as published in the 1986-87 *ARL Statistics*. Please indicate revisions, additions, and deletions as appropriate. Also, please indicate if any footnotes published last year are still valid if they are unchanged. Note: number in () refers to the column in Library Data Tables in 1986-87 *ARL Statistics*.

Please return completed questionnaire to the ARL Office by **October 7, 1988**.

Reporting Institution: _____

Library Director's Signature: _____

Association of Research Libraries, 1527 New Hampshire Avenue, N.W., Washington, D.C. (202) 232-2486

FOOTNOTES TO THE ARL STATISTICS, 1987-88

Institution	Category from Main Tables	Notes
ALABAMA		All figures are as of September 30, 1988.
	(17)	Includes Law Library and Map Library only; other libraries do not separate expenditures for audiovisual materials and microforms.
	(25)	Includes bibliographic utility, memberships, and literature searching; these expenditures reported in 1986-87 as library materials.
ALBERTA		All figures are as of March 31, 1988.
		Excludes Extension Library, Boreal Institute Library, St. Joseph's College Library, and Map Library.
	(1)	1986-87 figure revised.
	(15,16)	Figures including outside funding would be (15) \$1,765,795 (Can.); (16) \$3,068,335 (Can.).
	(17,18)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
	(15-26)	Expenditures are University provided funding only.
	(15-26)	Expenditures reported in Canadian dollars were: (15) \$1,335,867; (16) \$2,983,501; (17) U/A; (18) U/A; (19) \$4,319,368; (20) \$144,906; (21) \$3,449,467; (22) \$6,048,093; (23) \$705,000; (24) \$10,202,560; (25) \$2,040,878; (26) \$16,707,712.
ARIZONA	(1)	Includes government documents received through 1978.

Institution	Category from Main Tables	Notes
ARIZONA (cont.)	(5-7)	Government documents included until 1978.
ARIZONA STATE		Includes Arizona State University West Campus.
	(1)	1986-87 figures revised.
	(12)	Two FTE positions were grant-funded.
BOSTON		Includes the Theology Library.
BOSTON PUBLIC	(1)	Includes branch libraries (807,752) and general library (780,944). Excludes patents (8,500,000 +), prints (700,820 +), and manuscripts (1,000,000 +).
BRIGHAM YOUNG		Figures are as of August 31, 1988.
BRITISH COLUMBIA	(1-8,15-26)	Figures are as of March 31, 1988.
	(4,15-19)	Includes government publications.
	(8)	Microform holdings including government document microforms are 3,612,223.
	(11)	Includes 3.5 grant-funded positions.
	(12)	Includes 5.5 grant-funded and cost recovery positions.
	(17,18)	Included in Monographs Expenditures (15).
	(15-26)	Expenditures reported in Canadian dollars were: (15) \$2,484,038; (16) \$2,575,166; (17) U/A; (18) U/A; (19) \$5,059,204; (20) \$208,202; (21) \$4,084,516; (22) \$5,331,181; (23) \$872,516; (24) \$10,288,213; (25) \$1,365,867; (26) \$16,921,486.
BROWN		Includes John Carter Brown Library, Annmary Brown Library, and Art Slide Library.
	(18)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
CALIF., BERKELEY	(17,18)	Included in Monographs Expenditures (15).

Institution	Category from Main Tables	Notes
CALIF., DAVIS		Includes Harrison Western Research Center Library collection of 17,736 bound volumes and 107 non-document serials in Fair Oaks, California.
CALIF., IRVINE	(7)	Figures for current serials including government documents serials is 19,235.
	(8)	Microform holdings including government publications microforms are 1,491,925.
	(18)	Includes memberships (\$21,237) and other expenditures (\$39,719).
CALIF., LOS ANGELES	(1)	1986-87 figure revised.
	(1-3)	Initial volume count in 1940s was bibliographical; subsequent counts of added volumes have been physical.
	(5-7)	Includes cataloged government document serials.
	(8)	Includes Microform Room in main library for the first time.
	(11)	Professional staff includes the following position titles: Specialist, Principal Administrative Analyst, Senior Administrative Analyst, Administrative Analyst, Programmer I-IV, Senior Accountant, MSO I-IV, Principal Editor, Senior Editor, and Library Assistant V.
CALIF., RIVERSIDE	(19)	Includes donations and budgeted funds.
	(23)	Includes \$33,097 in federal work study funds.
	(25)	Includes grants, opportunity funds, and budgeted funds.
CALIF., SAN DIEGO	(5-7)	Includes 9,823 government document serials and 7,913 monographic and publishers' series received on standing order.

Institution	Category from Main Tables	Notes
CALIF., SAN DIEGO (cont.)	(14)	Includes 12.84 FTE hired for cost recovery operations, special projects, and grants.
	(18)	Includes machine-readable data files (\$8,549) and data services (\$41,494). (25)Includes offsetting internal recharge income of \$69,646. Faculty figures are FTE.
CALIF., SANTA BARBARA	(5-7)	Includes government documents serials excluded in 1986-87.
	(8)	Prior years' count revised on the basis of 1987-88 inventory.
	(17)	Included in Monographs Expenditures (15).
CANADA INSTITUTE FOR SCIENTIFIC AND TECHNICAL INFORMATION		Includes 14 branch libraries throughout Canada which serve the divisions of the National Research Council of Canada, CISTI's parent organization. All figures are as of March 31, 1988.
	(24)	Includes fringe benefits.
	(19,24-26)	Expenditures reported in Canadian dollars were: (15) U/A; (16) U/A; (17) U/A; (18) U/A; (19) \$8,494,000; (20) U/A; (21) U/A; (22) U/A; (23) U/A; (24) \$8,007,000; (25) \$8,079,000; (26) \$24,580,000.
CASE WESTERN RESERVE	(1-3)	Count is physical for some libraries and bibliographical for others.
	(5-7)	Includes government document serials in Medical Library.
	(11)	Includes 1 FTE paid through grant funds.
	(12)	Includes 1 FTE paid through grant funds and 1 FTE on special project.
CENTER FOR RESEARCH LIBRARIES	(5-7)	Excludes state documents.

Institution	Category from Main Tables	Notes
CENTER FOR RESEARCH LIBRARIES (cont.)	(17,26)	Restricted-fund expenditures included for first time.
CHICAGO	(5-7)	Includes cataloged government document serials.
	(10)	Does not include 4,845 borrowed from the Center for Research Libraries.
	(16)	Includes monographic series.
	(19)	Reflects budget adjustments due to over-expenditure in 1986-87.
CINCINNATI	(15)	Includes Other Library Materials (17).
	(16)	Includes microforms.
	(17,18)	Included in Monographs Expenditures (15).
	(21,22)	Figures unavailable. A combined salary figure for professional and non-professional staff totals \$3,781,753.
	(26)	Includes \$716,377 for operation of automated library system.
		Ph.D. counts include doctoral degrees in all fields and all doctoral degrees awarded.
COLORADO	(7)	Current serials holdings including government document serials are 23,551.
	(8)	Microform holdings including government document microforms are 3,553,291.
	(12)	Includes 2 FTE paid from grant funds and 5.5 FTE paid from auxiliary funds.
	(13)	Includes 30 FTE paid from work study funds.
	(18)	Bibliographic utility expenditures.

Institution	Category from Main Tables	Notes
COLORADO STATE	(18)	Includes ARL (\$6,173); CRL (\$18,920); RLG (\$66,000); RLIN (\$177,439); OCLC tapeload (\$13,000); IBDBS (\$19,659); and ILL charges (excluding RLIN, which is in RLIN total, and including general supplies based on 5.5% of OCE)(\$33,095).
	(20)	Does not include \$28,984 of in-house bindery supplies.
	(25)	Includes \$96,960 payment for IBM 4361; \$100,000 allocation to Information Systems for NOTIS support; and \$64,640 payment on storage facility.
COLUMBIA	(7)	Number of serials recounted this year.
CONNECTICUT	(17,18)	Includes Hartford Regional Library. Excludes Avery Point, Stamford, Waterbury, and Litchfield County Center for Higher Education.
	(17,18)	Included in Monographs Expenditures (15).
CORNELL	(15-18)	Includes Geneva Experiment Station..
	(15-18)	Unable to differentiate expenditure categories.
DARTMOUTH	(11-14)	Includes 1 FTE professional, 7 FTE non-professionals, and 1 FTE student assistant paid from grant funds.
	(17)	Included in Monographs Expenditures (15) and Serial Expenditures (16).
DELAWARE	(11-14,21-24)	Includes Marine Studies Library at the University of Delaware Marine Studies Research Complex in Lewes, Delaware.
	(11-14,21-24)	Figures do not include professional and nonprofessional staff in Management Information Services assigned to the library.
	(17)	Included in Monographs Expenditures (15) and Serials Expenditures (16).

Institution	Category from Main Tables	Notes
DUKE		Includes Fuqua School of Business Library.
	(8)	Counts based on physical microform pieces. Includes Law Library government documents.
	(11)	Includes .13 FTE on special projects and grants. Faculty figure includes faculty with regular rank.
EMORY	(1)	Figure for 1986-87 revised. Government documents excluded for the first time in 1987-88.
	(11-26)	Figures are for fiscal year ending August 31, 1988.
	(14)	Includes 5.75 FTE cost recovery positions and 9.25 FTE paid from special project and grant funds.
	(18)	Includes database searches (\$59,033) and bibliographic utilities (\$51,268).
FLORIDA	(8)	Excludes 1,254,936 government document microforms, some of which were formerly included in this count.
	(11)	Includes .6 FTE special project staff.
	(12)	Includes 2 FTE special project staff.
	(13)	Includes all hourly staff.
	(18)	Includes postage for incoming material, Remarc, Datalinks, and some SOLINET expenses. Excludes NOTIS automation and RLG services paid by the Florida Center for Library Automation.
	(23)	Includes all hourly staff.
		Full-time and part-time graduate student figures include law and medical students.
FLORIDA STATE		Excludes Development Research School; includes branch campus in Panama City (holdings and materials expenditures only).

Institution	Category from Main Tables	Notes
FLORIDA STATE (cont.)	(15)	Includes microforms, audiovisual materials, etc.
	(17,18)	Figures available for law library only.
		Ph.D's awarded includes all doctoral degrees.
GEORGETOWN	(5-7)	Includes government documents if cataloged and not part of the Depository.
GEORGIA		Includes experiment stations at Griffin, Tifton, Skidaway, and Sapelo.
	(1,2)	Includes cataloged government documents, some of which are shelved together in the Main and Science Libraries.
	(7)	Includes some monographic series received on standing order.
GEORGIA TECH	(1-7)	Includes government documents that are cataloged, classified, and housed separately.
GUELPH		Figures are as of April 30, 1988.
	(1)	Includes cataloged government documents.
	(18)	Indicated in Serials Expenditures (16).
	(25)	Increase over 1986-87 reflects loss of special revenue and purchase of new minicomputer.
	(15-26)	Expenditures reported in Canadian dollars were: (15) \$666,500; (16) \$1,238,313; (17) \$174,514; (18) U/A; (19) \$2,079,327; (20) \$81,735; (21) \$1,428,815; (22) \$2,116,659; (23) \$138,755; (24) \$3,684,229; (25) \$425,988; (26) \$6,271,309.
HARVARD		Includes research institutions in District of Columbia and Italy.
	(1)	1986-87 figure revised.
	(8)	Includes some government documents.

Institution	Category from Main Tables	Notes
HARVARD (cont.)	(17)	In previous years, most microform expenditures were included in figures for serials and monographs.
HARVARD	(18)	Significant decrease in this category reflects reassignment of expenses in several small units.
	(26)	Separate figures for expenditures from grants and special projects not available. Expenditures do not include fringe benefits (\$3,885,469), and building and maintenance (\$2,040,632) charged to library budget. Total reported expenses including these items: \$43,122,591. Cost recovery items (\$3,008,552) are included this year. All Ph.D.'s are awarded through the Graduate School of Arts and Sciences. Number of full-time instructional faculty excludes Medical School, School of Public Health, and Dental School.
HAWAII	(5,6)	Estimated figures.
	(18)	Included in Monographs Expenditures (15).
	(25)	1986-87 figure included one-time automation expenditures.
HOUSTON		All figures are as of August 31, 1988.
	(17)	Includes Law Library only.
HOWARD	(18)	Includes computer-assisted legal research software and instructional software (\$5,000); LC cards, etc. (\$3,500); miscellaneous albums, posters, etc. (\$2,500); and newspapers (\$10,700).
ILLINOIS, CHICAGO	(17)	Estimated figure.
ILLINOIS, URBANA	(7)	Estimated figure.
	(11)	Includes 23 FTE graduate assistants and 12 FTE funded from research grants or other temporary funds.

Institution	Category from Main Tables	Notes
INDIANA	(1)	1986-87 figure revised.
	(7)	Excludes government documents serials included in previous years.
IOWA	(5,7)	Includes only those government documents received on paid subscriptions.
	(11-14)	Includes 6 FTE on special retrospective conversion project.
	(17)	Figure available for Law Library only (\$69,350). Expenditures for other libraries are included in Monographs Expenditures (15) and Serials Expenditures (16).
	(18)	Automation expenditures.
	(21)	Excludes salary for .5 FTE Associate Dean for Research in Law.
	(26)	Includes \$51,370 in gifts.
IOWA STATE	(5-7)	Includes government document serials that are cataloged, classified, and shelved as part of the collection.
	(8)	Includes government publications microfilm.
JOHNS HOPKINS		Includes Eisenhower Library; Peabody Conservatory Library; Welch Medical Library; School of Hygiene and Public Health Library; Applied Physics Laboratory Library; School of Advanced International Studies in Washington, DC, and Bologna, Italy; the Center for Italian Studies in Florence, Italy; the Montgomery County Center in Rockville, MD; and the School of Continuing Studies' Columbia Center and Downtown Center.
	(1)	1986-87 figure revised.
	(18)	Includes literature searching, computer-assisted instruction, and postage for library materials.
KANSAS		Includes School of Medicine in Kansas City.

Institution	Category from Main Tables	Notes
KANSAS (cont.)	(17)	<p>Figures for main library included in Monographs Expenditures (15).</p> <p>Count of Ph.D. fields includes one joint program with Kansas State, for a total of 52 fields at Lawrence campus and 11 at Medical Center in Kansas City.</p>
KENT STATE	(5)	Includes continuations.
	(6)	Estimated figure.
	(7)	Excludes 4,750 government serials.
	(8)	Excludes government documents.
	(11-14,17,19,21-26)	<p>Figures include Audiovisual Services, Computer Assisted Instruction, and Teleproduction.</p>
KENTUCKY	(25)	Includes fringe benefits.
	(7)	<p>Excludes government documents. Excludes Disclosure 10K and company annual reports included in 1986-87.</p>
	(11,12)	<p>Includes 4 FTE professionals and 2 FTE nonprofessionals paid from grant funds.</p>
	(17)	Included in Monographs Expenditures (15).
	(18)	<p>Includes OCLC services (\$45,000); postage (\$43,166); data services (\$1,978); security strips (\$9,400); and binding supplies (\$4,200).</p>
(25)	<p>Includes \$193,870 in grants and gifts and \$130,535 in income. Significant decrease from 1986-87 due to completion of automation project, change in copy service structure, and reduction in non-recurring funding.</p>	
LAVAL	(4)	Basis of count is titles.
	(15)	Includes \$21,482 (Can.) in grant funds.
	(17)	<p>Includes \$344,983 (Can.) for the conversion on microfilm of part of the Scientific Library's periodical collections.</p>

Institution	Category from Main Tables	Notes
LAVAL (cont.)	(18)	Expenditures for online literature searching.
	(20)	Includes only special contracts and binding furniture. Most binding is done in-house. Salaries involved are \$174,803 (Can.).
	(24)	Fringe benefits, which are not included, total Can. \$1,260,588 (U.S. \$982,837).
	(15-26)	Expenditures reported in Canadian dollars were: (15) \$916,020; (16) \$1,801,876; (17) \$375,315; (18) \$152,515; (19) \$3,245,726; (20) \$74,099; (21) \$3,365,994; (22) \$4,595,130; (23) \$140,002; (24) \$8,101,126; (25) \$1,007,782; (26) \$12,428,733.
LIBRARY OF CONGRESS		All figures are as of September 30, 1988.
	(6-7)	Estimated titles.
	(24)	Includes fringe benefits.
LINDA HALL		All figures are as of December 31, 1987.
LOUISIANA STATE		Includes Law Library and Veterinary Medicine Library.
	(1)	1986-87 figure revised. Includes bound government documents.
	(4)	Estimated figure.
	(8)	1986-87 figure revised due to switch from titles count to units count.
	(17)	Expenditures for microforms for main library unavailable. Figure includes only phono-record costs of \$7,500 for main library.
	(23)	Includes \$206,682 in work-study funds.
		Figures for graduate enrollment include all first professional degrees.
McGILL		All figures are as of May 31, 1988.
	(15)	Includes microforms, audiovisual material, manuscripts, maps, and charts.

Institution	Category from Main Tables	Notes
McGILL (cont.)	(17)	Included in Monographs Expenditures (15) and Serials expenditures (16).
	(18)	Includes \$39,581 (Can.) for Tattletape; \$379,580 (Can.) for bibliographic searching, and \$347,252 (Can.) for retrospective conversion bibliographic searching.
	(22)	Includes \$207,407 (Can.) for contracted security services.
	(25)	Includes \$69,200 (Can.) for capital equipment and \$109,705 (Can.) for automation hardware and software installations. 1986-87 figure included one-time expenditures.
	(15-26)	Expenditures reported in Canadian dollars were: (15) \$2,036,001; (16) \$2,247,470; (17) U/A; (18) \$813,433; (19) \$5,096,904; (20) \$169,800; (21) \$3,465,385; (22) \$5,071,645; (23) \$554,789; (24) \$9,091,819; (25) \$630,187; (26) \$14,988,710.
McMASTER		All figures are as of April 30, 1988.
	(17)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
	(15-26)	Expenditures reported in Canadian dollars were: (15) \$1,715,736; (16) \$2,309,701; (17) U/A; (18) \$13,604; (19) \$4,039,041; (20) \$105,455; (21) \$1,540,366; (22) \$2,982,411; (23) \$345,394; (24) \$4,868,171; (25) \$505,861; (26) \$9,518,528. 1986-87 figure for number of Ph.D. fields revised.
MANITOBA		All figures are as of March 31, 1988.
	(11)	Includes 1 FTE professional paid from medical grant.
	(12)	Includes .67 FTE paid from grant.
	(17,18)	Included in Monographs Expenditures (15) and Serials Expenditures (16).

Institution	Category from Main Tables	Notes
MANITOBA (cont.)	(15-26)	Expenditures reported in Canadian dollars were: (15) \$671,291; (16) \$1,874,430; (17) U/A; (18) U/A; (19) \$2,545,721; (20) \$133,573; (21) \$2,325,995; (22) \$2,850,453; (23) \$460,927; (24) \$5,637,375; (25) \$851,731; (26) \$9,168,400.
MARYLAND	(13,24)	<p>Statistics reported include data from the College of Library and Information Services Library for collections and expenditures for library materials, but do not include data for personnel, salaries and wages, other operating expenses, or interlibrary loans.</p> <p>Expenditures for federal work study students are not included, but these students are included in the calculation of FTE student assistants.</p> <p>Ph.D. count includes all doctoral fields.</p>
MASSACHUSETTS	(1)	Figure for 1986-87 revised.
	(7)	Includes 310 serial titles received as U.S. depository items. These titles are fully cataloged, classified, and intershelved in the main and branch collections.
	(12)	Includes 8 temporary staff for retrospective conversion, and 2 trust-funded staff.
	(23)	Includes Federal Work Study contribution (\$99,997) excluded in previous years.
		Ph.D.'s awarded excludes 98 Ed.D. degrees.
MIT	(11,12)	Includes 4.7 FTE professionals and 4 FTE nonprofessionals paid through grant funds.
	(18)	Includes \$95,337 for bibliographic utilities; \$108,131 for literature searching.
MIT (cont.)	(26)	Includes \$152,081 in grant funds.
MIAMI	(21)	Excludes director's salary.
MICHIGAN		Excludes Dearborn Campus Library, and the University of Michigan, Flint Library.

Institution	Category from Main Tables	Notes
MICHIGAN (cont.)	(1)	Includes microforms in the Transportation Research Institute.
	(16)	Includes microform serials.
	(23)	Transportation Research Institute personnel budget is covered by parent institution except for \$21,465.49.
MICHIGAN STATE	(1)	Figure for 1986-87 revised.
	(5)	Includes some monographic series that cannot be disaggregated.
	(5-7)	Government documents included for the first time.
	(11)	Includes .5 FTE paid from grant funds.
	(12)	Includes 1 FTE paid from grant funds and 4 FTE from cost recovery funds.
	(13)	Includes 1 FTE paid from grant funds and 19 FTE from cost recovery funds.
	(16)	Includes expenditures for some monographic series that cannot be disaggregated.
MINNESOTA	(1)	Figure for number of Ph.D. fields revised from previous years.
	(1)	1986-87 figure revised.
	(18)	Includes CRL dues (\$28,752); South American Microfilming Project (\$55,000); PL480 (\$12,543); and sales tax (\$209,006).
MISSOURI	(5,7)	Includes law monographic series.
	(18)	Includes \$12,000 paid to OCLC by Law Library and \$20,548 for computer-assisted legal research.
	(21)	Includes \$119,681 for UM-Wide Library Systems Office for online catalog.

Institution	Category from Main Tables	Notes
MISSOURI (cont.)	(25)	Includes \$215,469 for UM-Wide Library Systems Office for online catalog.
NATIONAL AGRICULTURAL LIBRARY	(1)	U.S.D.A. field libraries are not included. Figures are as of September 30, 1988. 1986-87 figure revised to include unbound serial volumes.
	(2)	Serial volumes added is estimated count of unbound serials; binding of periodicals is not current.
	(4-6)	Figures include audiovisual materials, microforms, and software.
	(17,18)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
NATIONAL LIBRARY OF CANADA	(4)	Figures for holdings, interlibrary loans, and expenditures are as of March 31, 1988. In addition to monographs purchased, two copies of documents published in Canada are received on legal deposit.
	(11-14)	Authorized person-years.
	(15,16)	Canadian monographs and serials are received on legal deposit.
	(18)	Includes expenditures on custom brokers, memberships, Telex, freight and express charges, and communication (databases).
	(15-26)	Expenditures reported in Canadian dollars were: (15) \$718,395; (16) \$563,980; (17) \$826,204; (18) \$45,253; (19) \$2,153,832; (20) \$11,955; (21) \$7,660,946; (22) \$10,701,580; (23) \$427,440; (24) \$18,759,966; (25) \$12,510,661; (26) \$33,466,414.

Institution	Category from Main Tables	Notes
NATIONAL LIBRARY OF MEDICINE	(11-26)	<p>Figures are as of September 30, 1988.</p> <p>Statistics reflect the Library Operations component of the Library: Public Services, Technical Services, Bibliographic Services, and History of Medicine Divisions, as well as the Medical Subject Headings staff, the staff of the Regional Medical Library program, and the Office of the Associate Director for Library Operations.</p>
	(4-6)	Does not include figures for law library, which are not available.
NEBRASKA	(5-7)	Includes cataloged government documents.
	(5)	Figure for law library unavailable. Main library figure is 13,276.
	(6)	Figure for law library unavailable. Main library figure is 3,319.
	(7)	Includes law library.
	(16)	Includes monographic and publishers' series for law library only. Figure also includes a temporary enhancement of \$636,423 from the Chancellor's office.
	(18)	Includes law library figures only.
NEWBERRY LIBRARY	(4)	Number of titles.
	(7)	Estimated figure.
	(20)	In-house binding costs were \$71,950.
	(24,25)	Includes salaries and wages associated with buildings, maintenance, and the Division of Research and Education.
NEW MEXICO	(1-3)	Includes some non-print volumes.

Institution	Category from Main Tables	Notes
NEW MEXICO (cont.)	(7)	Excludes government documents.
	(8)	Includes ERIC microfiche. This figure represents a more complete inventory than the 1986-87 statistics.
	(17)	Included in Monographs Expenditures (15). Full time instructional faculty figures include Law and Medical School faculty.
NEW YORK		All figures as of August 31, 1988.
NEW YORK PUBLIC LIBRARY		Figures are for 1987-88. In the past, statistics were reported on the prior year basis.
	(3)	Net figure reflects 48,000 volumes withdrawn and transferred to other libraries.
	(15-26)	Estimated figures; audited financial statements for FY 88 not yet available.
NEW YORK STATE LIBRARY		All figures as of March 31, 1988.
	(1)	Includes cataloged government documents.
	(17)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
	(14,26)	Include figures for NEH, HEA II-C, and Library fund as well as state and LSCA funds.
NORTH CAROLINA		Includes Institute of Marine Sciences Library.
	(11,12)	Includes 4 FTE professionals and 1 FTE nonprofessional on special grant funds. Does not include 7.5 FTE paid from funds contributed by Duke and North Carolina State Universities for support of the Triangle Research Libraries Network.

Institution	Category from Main Tables	Notes
NORTH CAROLINA (cont.)	(18)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
	(26)	Includes \$2,283,247 in grants, trust, and other special funds. Does not include \$374,542 in expenditures for the Triangle Research Libraries Network from funds contributed by Duke and North Carolina State Universities.
NORTH CAROLINA STATE		Includes Veterinary Medical Library.
	(11-14)	Include 1 FTE professional and 2 FTE nonprofessionals on Title II-C grant.
	(18)	Includes bibliographic utilities (\$115,174), memberships (\$29,767), and other (\$76,367).
NORTHWESTERN		Includes Dental Library.
		All figures are as of August 31, 1988.
	(4)	Excludes Law and Medical Libraries.
	(9,10)	As of January 1, 1988, figures are for requests rather than items recorded.
	(18)	Law Library figures only.
NOTRE DAME	(17)	Figure only includes Law Library. Figure for main library unavailable.
		Includes University Archives. Excludes curriculum/media center of College of Education and several departmental reading rooms.
OHIO STATE	(1,7)	Includes cataloged government documents.
	(5,6)	Apportionment of purchased and not purchased serials reflects analysis of recently computerized serial acquisition records.
	(11)	Includes 4.75 FTE positions funded by grants.
	(17,18)	Included in Monographs Expenditures (15) and Serials Expenditures (16).

Institution	Category from Main Tables	Notes
OHIO STATE (cont.)	(25)	Includes expenditures attributed in 1983-84 and earlier years to the University computer center.
OKLAHOMA		Volume count is bibliographical, reported in previous years as physical.
OKLAHOMA STATE		Includes OSU Technical Branches in Oklahoma City and Okmulgee.
	(21-24)	Fringe benefits included.
OREGON	(4)	Figure reported refers to titles.
	(5,6)	Excludes duplicate subscriptions.
	(17)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
	(18)	Includes bibliographic utilities, LEXIS/WESTLAW searching, shipping charges, and miscellaneous.
		Full-time faculty figure represents tenured and tenure-track faculty. 1986-87 figure represented FTE.
PENNSYLVANIA	(17,18)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
		In 1985-86 and 1986-87 statistics the number of faculty reported included permanent and temporary faculty. For 1987-88, only the permanent faculty are reported.
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, King of Prussia Center for Graduate Studies, and Capital College at Middletown, PA.
	(17,18)	Included in Monographs Expenditures (15) and Serials Expenditures (16).

Institution	Category from Main Tables	Notes
PITTSBURGH		Excludes branch campus libraries at Johnstown, Greensberg, Bradford, and Titusville.
	(11-14)	Includes 3 FTE professionals, 1 FTE nonprofessional, and 1 FTE student assistant paid from grant funds.
	(17)	Excludes microforms, except for the law library.
	(18)	From ILL payments.
	(25)	Includes \$179,724 from fees for photocopy services and \$44,494 from endowment funds. Faculty figures include both instructional faculty and faculty identified otherwise.
PRINCETON	(24)	Figures prior to 1985-86 included fringe benefits.
PURDUE	(21,22)	1986-87 figures revised.
QUEEN'S		Figures are as of April 30, 1988.
	(16)	Includes microforms.
	(17)	Includes audiovisual material only.
	(24)	Excludes Chief Law Librarian.
	(25)	Includes cost recovery of \$176,937 (Can.).
	(15-26)	Expenditures reported in Canadian dollars were: (15) \$1,327,382; (16) \$2,132,623; (17) \$13,673; (18) \$932,077; (19) \$4,405,755; (20) \$110,244; (21) U/A; (22) U/A; (23) \$182,924; (24) \$5,036,287; (25) \$553,812; (26) \$10,106,098.
RICE	(9)	Includes ILL to corporate libraries.
	(17)	Microform expenditures are included in Monographs Expenditures (15).
	(18)	Includes bibliographic utilities (\$46,200), database searching (\$67,470), security (\$23,500), and memberships (\$14,500).

Institution	Category from Main Tables	Notes
RICE (cont.)	(19,25,26)	Includes all sources of funding.
	(24)	Includes positions funded by external grants, contracts, and transfers from other university budgets and cost centers.
ROCHESTER		Includes Sibley Music Library of Eastman School of Music.
	(1)	Sibley Music Library volume count is bibliographical.
	(5,6,18)	Sibley Music Library figures unavailable.
	(5,7)	Includes purchased government document serials.
	(8)	Excludes government documents.
	(15)	Includes microform series and backfiles of periodicals.
	(16)	Includes monographic and publishers' series.
(17)	Includes Sibley Music Library only.	
RUTGERS		Figures include two law libraries not reported in previous years, services to a non-Rutgers medical school, and campuses in Camden, Newark, and New Brunswick.
	(19,22)	Excludes staff hired for special projects and grants.
SASKATCHEWAN		Excludes Theological College libraries on campus that are not part of the library system.
		Figures are as of April 30, 1988.
	(1)	1986-87 figure revised.
	(4)	Number of titles rather than volumes counted.
	(12)	Includes 1.2 FTE hired for special projects and/or grants.
(17)	Included in Monographs Expenditures (15).	

Institution	Category from Main Tables	Notes
SASKATCHEWAN (cont.)	(15-26)	Expenditures reported in Canadian dollars were: (15) \$855,721; (16) \$2,394,059; (17) U/A; (18) U/A; (19) \$3,249,780; (20) \$121,526; (21) \$1,402,142; (22) \$2,737,061; (23) \$201,804; (24) \$4,341,007; (25) \$516,849; (26) \$8,229,162.
SMITHSONIAN		Includes Smithsonian Astrophysical Observatory in Cambridge, MA and Mt. Hopkins, AZ; 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.
		All figures are as of September 30, 1988.
	(1)	1986-87 figure revised.
	(2)	12,548 of total is title count.
	(16)	Includes \$169,000 for pre-payment of subscriptions.
	(18)	Includes \$12,000 for conservation, \$55,000 for database rental, and \$25,000 for document delivery.
SOUTH CAROLINA	(11)	Includes 1 FTE paid from grant funds.
	(17,18)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
SOUTHERN CALIFORNIA		Includes the Andrus Gerontology Center Library, the Hancock Library of Biology and Oceanography, and the Arnold Schoenberg Institute Library, and the Occupational Therapy/Physical Therapy and Nursing Collection. Does not include the Safety and Systems Management Library.
	(1)	1986-87 figure revised.
	(18)	Includes \$197,580 for RLG membership and \$93,236 for online searching.

Institution	Category from Main Tables	Notes
SOUTHERN ILLINOIS		Excludes School of Medicine Library (Springfield), which is not administratively part of Library Affairs.
	(8)	Excludes government documents microforms.
	(18)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
STANFORD		Figures include Hopkins Marine Station Library.
	(14)	Includes 21 FTE paid from grant and contract funds.
	(15-26)	Figures are as of August 31, 1988.
	(26)	Includes \$1,395,191 in grant and contract funds.
SUNY, ALBANY		Includes the Dewey Graduate Library of Public Affairs and Policy on East campus.
	(4,5,7,26)	Figures are as of March 31, 1988.
	(8)	Includes government document microforms.
	(11-14)	Includes 1 FTE professional, 4.4 FTE non-professionals, and 5.9 FTE student assistants in cost recovery or grant-funded positions.
	(18)	Includes: Interlibrary loan service (\$3,541), memberships (\$104,332), bibliographic utilities (\$140,727), computer-based reference service (\$16,299), and miscellaneous (\$330). Ph.D.'s awarded is an estimated figure.
SUNY, BUFFALO		Figures are as of March 31, 1988.
	(4)	Excludes monographs in series and continuations.
	(5)	Includes monographic series.
	(11-14)	Includes 6 FTE professionals, 3 FTE nonprofessionals, and 15 FTE student assistants on special projects grants.

Institution	Category from Main Tables	Notes
SUNY, BUFFALO (cont.)	(16)	Includes expenditures for monographic series.
	(18)	Includes memberships (\$37,900) and bibliographic utilities and literature searching (\$117,605).
	(23)	Excludes Federal work study expenditures. Ph.D.'s awarded are as of June 30, 1988.
SUNY, STONY BROOK	Figures are as of March 31, 1988.	
	(7)	Includes government documents for Health Sciences Library.
	(?)	Includes government documents for main library.
	(15)	Includes microforms, maps, and audiovisual materials for main library.
	(17)	Includes microforms and audiovisual materials for Health Sciences Library (\$278), periodical backfiles (\$23,373), reprints of periodical articles (\$1,825), and some newspapers on microfilm (\$9,217).
	(18)	Includes bibliographic utilities and automation (\$258,540), literature searching (\$17,417), and memberships (\$73,019).
SYRACUSE	Excludes Utica College.	
	(11)	Includes 3.5 FTE in Academic Computing Center.
	(18)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
	(24)	Includes \$130,087 for Academic Computing Center staff.
	(25)	Includes Academic Computing Center computer rentals, collection insurance, CRL dues, as well as regular operating expenditures. Ph.D.'s awarded include all doctoral degrees.

Institution	Category from Main Tables	Notes
TEMPLE		Excludes Health, Physical Education, Recreation and Dance Library; Media Learning Center; Institute on Aging Library; Journalism Library; Test Library and Measurement Research Center; and Presser Learning Center. Includes branch campus libraries in Ambler, PA; Temple University Center City, Philadelphia; Rome; and Tokyo.
	(5-7)	Excludes government document serials included in previous years. Ph.D.'s awarded include all doctoral degrees.
TENNESSEE		Figures include Law Library not previously reported.
	(4)	Law Library figures unavailable.
	(6)	Includes classified documents; excludes Law Library.
	(9,10)	ILL closed for 2 months during library move.
	(17,18)	Figures for Law Library only.
	(21,22)	Includes longevity pay.
	(25)	Excludes recoveries.
TEXAS		Figures are as of August 31, 1988.
		Includes the General Libraries, the Humanities Research Center, and the Tarlton Law Library.
	(5)	Figures unavailable for Law Library; figures for the General Libraries and the Humanities Research Center are 25,660 and 854 respectively.
	(6)	Figures unavailable for Law Library and Humanities Research Center; figure for General Libraries is 40,828.
	(14)	Includes 2.75 FTE staff hired on grant and/or recovery funds.

Institution	Category from Main Tables	Notes
TEXAS (cont.)	(17,18)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
	(19)	Includes expenditures of General Libraries (\$3,822,087), Humanities Research Center (\$319,518), and Law Library (\$700,674). Does not include \$7.8 million in partial payment for the Pforzheimer Library of English Literature housed in the Humanities Research Center.
	(23)	Includes federal work study funds.
	(25)	Includes \$1,022,943 for automated catalog development for the General Libraries but not funds expended for computer upgrade in support of project. Also includes \$119,828 for serials acquisition and control system for Law Library. Ph.D.'s awarded includes D.Ed. degrees. Faculty figure is budgeted FTE.
TEXAS A&M		Medical Library is a separate academic entity; data from its two branch libraries are not included. All figures are as of August 31, 1988.
	(4)	Figure reported represents titles.
	(8)	Includes NTIS documents.
	(15)	Includes some expenditures for Other Library Materials (17).
TORONTO		All figures are as of April 30, 1988. Includes only the libraries of the university within the President's budget; excludes libraries of the federated and affiliated institutions.
	(1)	1986-87 figure revised.
	(1,4,5,7)	Includes monographic series.

Institution	Category from Main Tables	Notes
TORONTO (cont.)	(17,18)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
	(22,23)	Regular part-time assistants' salaries were counted with non-professional staff rather than with wages and students as in prior years.
	(15-26)	Expenditures reported in Canadian dollars were: (15) \$3,788,491; (16) \$3,886,895; (17) U/A; (18) U/A; (19) \$7,675,836; (20) \$300,564; (21) \$6,737,340; (22) \$10,297,670; (23) \$1,093,820; (24) \$18,128,830; (25) \$1,174,437; (26) \$27,279,667.
TULANE		Includes Delta Regional Primate Research Center in Covington, Louisiana.
	(1)	1986-87 figure revised.
	(4)	Figure reported is a combination of titles and volumes.
	(18)	Includes SOLINET charges.
	(25)	Includes \$750,000 grant for retrospective conversion. Faculty figure includes faculty in School of Medicine and School of Public Health and Tropical Medicine, not reported in 1986-87.
UTAH	(7)	1986-87 figure revised to eliminate government document serials not in general collection.
	(25)	Includes one-time funding of #396,779 for computer equipment.
VANDERBILT	(1)	Excludes 16,000 hours of videotape and 215 compact discs.

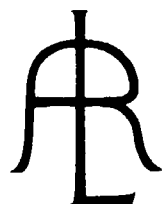
Institution	Category from Main Tables	Notes
VANDERBILT (cont.)	(9,10)	Includes Law Library figures.
	(16,17)	Law and Medical Library miscellaneous figures (17) are included in Serials Expenditures (16).
	(18)	Includes online search/bibliographic utilities only.
VIRGINIA		Fulltime instructional faculty figure includes clinical faculty.
	(16)	Includes expenditures for monographic series in Health Sciences Library.
VIRGINIA POLYTECHNIC & STATE UNIVERSITY		Includes "open reserve" collection of approximately 10,000 volumes at Northern Virginia Graduate Center in Falls Church, Virginia.
	(5)	1986-87 figure revised.
	(5-8)	Estimated figures.
	(11)	Includes 2 non-faculty department head positions.
	(16)	Includes pre-payment of \$801,073 for 7,526 titles.
	(25)	Includes bibliographic utilities (\$203,303); literature searching (\$35,947); binding supplies and contractual services (\$16,474).
WASHINGTON		Full-time graduate student figure includes professional school (veterinary medicine) students.
	(4)	Excludes Law Library.
	(11-14)	Includes 1 FTE professional, 5.5 FTE nonprofessionals, 13 FTE students paid from cost recovery operations.
(21,22)	Law Library professional salaries are included in non-professional category (22) rather than professional (21).	

Institution	Category from Main Tables	Notes	
WASHINGTON STATE	(7)	1986-87 figure revised. Includes government documents and some monographic series.	
	(8)	Includes government documents.	
	(11-14)	Includes staff for Instructional Media Services. Also includes 2.2 FTE professionals, 4.933 FTE nonprofessionals, and 3.62 students paid from cost recovery and grant funds.	
	(15)	Includes microforms.	
	(16)	Includes microforms, CD-ROMs, and \$17,491 in grants and cost recovery fund expenditures.	
	(17)	Figures for Instructional Media Service purchase of film and videos only.	
	(21)	Includes \$12,544 grant and cost recovery fund expenditures.	
	(22)	Includes \$100,875 grant and cost recovery fund expenditures.	
	(23)	Includes \$44,284 grant and cost recovery fund expenditures.	
	(24)	Includes \$157,703 grant and cost recovery fund expenditures.	
	(25)	Includes \$331,724 grant and cost recovery fund expenditures.	
	WASHINGTON, ST. LOUIS	(4)	For Law Library, figure indicates number of titles added.
		(7)	Includes 3,101 current serials held in Law, Medical, and Dentistry libraries for which separate counts of purchased and not purchased are unavailable. Includes Law and Medical Library government documents.
(8)		Includes government documents for Law Library; no separate count available.	
(17)		Separate costs not available for Central library system.	

Institution	Category from Main Tables	Notes
WASHINGTON, ST. LOUIS (cont.)	(18)	Figures apply to only Law and Business Libraries.
	(25)	Includes on campus computing facilities and other automation costs, other services (i.e. postage, leases) and equipment. Also includes Social Security and annuity. Faculty figures do not include Medical School faculty. Total with Medical School is 1,478.
WATERLOO		Figures include the Engineering, Mathematics and Science Library, the University Map and Design Library, the Davis Centre Library, and the Optometry Reading Room. Figures are as of April 30, 1988.
	(1)	Includes cataloged government documents.
	(18)	Included in Monographs Expenditures (15), Serials Expenditures (16), and Other Library Materials Expenditures (17).
	(15-26)	Expenditures reported in Canadian dollars were: (15) \$1,314,065; (16) \$1,636,490; (17) U/A; (18) U/A; (19) \$2,950,555; (20) \$73,985; (21) \$1,884,657; (22) \$2,829,793; (23) \$253,431; (24) \$4,967,881; (25) \$537,859; (26) \$8,530,280.
WAYNE STATE		All figures are as of September 30, 1988. Includes Ruether Archives of Labor and History and College of Pharmacy and Allied Health Professions.
	(14)	Includes 8 professional and 4 student assistant FTE on grant funding.

Institution	Category from Main Tables	Notes
WAYNE STATE (cont.)	(17)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
	(21)	Includes one-time grant fund allocation of \$99,742 for retrospective conversion.
	(23)	Includes one-time grant fund allocation of \$32,667 for retrospective conversion.
	(25)	Includes one-time grant fund allocation of \$187,771 for retrospective conversion. (26) Includes \$250,000 one-time allocation for acquisitions and one-time expenditure of grant funds (\$320,180) for retrospective conversion.
WESTERN ONTARIO		Excludes libraries of 3 affiliated colleges and School of Library and Information Science. Figures are as of April 30, 1988.
	(1)	1986-87 figure revised.
	(17,18)	Included in Monographs Expenditures (15).
	(21,22)	Professional and non-professional salaries and wages cannot be separated.
	(15-26)	Expenditures reported in Canadian dollars were: (15) \$1,463,737; (16) \$2,429,596; (17) U/A; (18) 45,731; (19) \$3,939,064; (20) \$207,927; (21) U/A; (22) U/A; (23) \$773,653; (24) \$6,643,772; (25) \$996,658; (26) \$11,787,421.
WISCONSIN	(1)	Includes maps.
	(5-7)	Includes some government document serials which are cataloged.
YALE		Includes Lewis-Walpole Library in Farmington, Connecticut.
	(1-6)	Excludes typewritten, handwritten, and mimeographed works (treated as manuscript materials).
	(5,6)	Estimated figures.

Institution	Category from Main Tables	Notes
YALE (cont.)	(5-7)	Excludes newspapers.
	(18,26)	Includes one-time automation expenditure.
		Number of full-time instructional faculty excludes Medical School.
YORK		All figures are as of April 30, 1988.
		Includes Glendon Campus.
	(25)	Includes bibliographic utilities (Can. \$180,485) and online searching (Can. \$23,995).
	(15-26)	Expenditures reported in Canadian dollars were: (15) \$1,322,655; (16) \$1,699,263; (17) \$154,584; (18) \$193,340; (19) \$3,369,842; (20) \$216,699; (21) \$2,258,487; (22) \$2,966,143; (23) \$645,488; (24) \$5,870,118; (25) \$1,381,419; (26) \$10,838,078.



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