## NATIONAL CENTER FOR EDUCATION STATISTICS

E.D. TABS

December 1992

# **Academic Libraries: 1990**

Jeffrey Williams National Center for Education Statistics

## U.S. Department of Education Lamar Alexander

Secretary

Office of Educational Research and Improvement

Diane Ravitch
Assistant Secretary

**National Center for Education Statistics** 

Emerson J. Elliott Commissioner

#### **National Center for Education Statistics**

"The purpose of the Center shall be to collect, and analyze, and disseminate statistics and other data related to education in the United States and in other nations."—Section 406(b) of the General Education Provisions Act, as amended (20 U.S.C. 1221e-1).

December 1992

Contact: Jeffrey Williams (202) 219–1362

#### **HIGHLIGHTS**

- o In 1990, total operating expenditures for libraries at the 3,274 institutions of higher education totaled \$3.3 billion (table 1A).
- o The three largest individual expenditure items were salaries and wages, \$1.7 billion (52.0 percent); current serial subscription expenditures, \$549 million (16.8 percent); and print material expenditures, \$402 million (12.3 percent) (tables 2A and 3A).
- o The libraries of the 488 doctoral-granting institutions (14.9 percent of the total institutions) accounted for \$1.9 billion, or 58 percent of the total operating expenditure dollars at all college and university libraries (table 2B).
- o The number of volumes held at all academic libraries at the end of fiscal year 1990 totaled about 717 million (table 5A).
- o Libraries at institutions granting doctoral degrees held about 437 million volumes, or 61 percent of the total volumes held (table 5B).
- The total number of full-time equivalent (FTE) staff members in college and university libraries equaled about 100,000, including about 26,000 librarians and other professional staff, 42,000 other paid staff, 30,000 student assistants, and 1,400 staff who contributed their services (table 4A).
- o Libraries at institutions granting doctoral degrees accounted for 52,000, or half of all, FTE staff at all academic libraries (table 4B).
- o Academic libraries had 199 million circulation transactions; 80.4 percent from general collections, and 19.6 percent from reserve collections (table 9A).
- o Libraries at institutions granting doctoral degrees accounted for more than half of this total circulation with 105 million circulation transactions (table 9B).

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#### INTRODUCTION

This report is based on information from the 1990-91 IPEDS (Integrated Postsecondary Education Data System) Academic Libraries survey. IPEDS is the U.S. Department of Education's vehicle for collecting data from all postsecondary institutions in the United States. Other surveys included within IPEDS are Institutional Characteristics, Fall Enrollment, Completions, Finance, Faculty Salaries, and Staff. IPEDS is an extension of earlier data efforts by the National Center for Education Statistics (NCES). The data in this report come from the higher education institutions in IPEDS and include all colleges and universities with accreditation at the higher education level as recognized by the Secretary of Education. At the national level, 87.0 percent of the libraries responded. Overall response rates for the states of Alabama and Washington were 64 percent and 54 percent, respectively. Those response rates are below the NCES guideline of 70 percent for any analyzed variable. Data were imputed for nonrespondents but caution should be exercised when comparing estimates by state. The data lines for Alabama and Washington are footnoted on each of the state tables. See the section on METHODOLOGY following the tables for more detail. See especially table B for the number and percent of non-responding academic libraries by state, level and control of institution.

The tables in this publication summarize library staff, library operating expenditures, library collections, library loan transactions, and library service per typical week for libraries in higher education institutions in the 50 States and District of Columbia (D.C.). Staff and service data are for fall 1990, whereas the remainder of the data cover FY 1990. FY 1990 is defined as any 12-month period between July 1, 1989, through September 30, 1990, that corresponds to the institution's fiscal year.

The Academic Libraries survey has been carried out by NCES since 1966. Although there have been changes in the form over the years, the series is generally considered to be continuous. Beginning with the 1990 survey, the Academic Libraries survey will be conducted on a 2-year cycle.

Table 1A: Total operating expenditures and number of libraries by category of total operating expenditures, by state: 1990 ALL HIGHER EDUCATION INSTITUTIONS \*

TOTAL 50 STATES & DC		(\$,000\$)	\$20,000	\$49,999	666 66\$	to \$199,999	\$299,999	to \$499,999	to \$999,999	to \$1,999,999	or More
	3,274	\$3,257,813	28	122	320	069	400	487	528	303	338
	83	55 786	•	•	C	ŗ	ţ	(		1	1
ALASKA	•	9,386	1 —		<b>~</b> C	7 **	<u>ה</u> כ	· c	= 6	ın •	~ (
ARIZONA	35	44,895	~	. 4	~~	- M	. ייי	σœ		- c	<b>~</b>
AKKANSAS SALTEORITA	<u>ن</u>	18,243	0	0	9	Έ	<b>,</b> —	טינט		<b>J J</b>	<b>ή</b>
COLORADO	584	332,228	13	4	<b>5</b> 8	25	30	37		101	- 45
COLORADO	4	43,788	9	<b>-</b> -1	'n	٥	_	4		, ru	3 %
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DISTRICT OF COLUMNIA	2 4	2,0(2)	0	-	<b>0</b> 1	M I	<b>7</b> 1	8	0	7	•
FLORIDA	2 %	108 231	<b>-</b>	<b>&gt;</b> <	J	a) į	M) G	۰,	0	- !	9
GEORGIA	33	157,09	- c	<b>.</b>	 	≥ 6	xo c	2:	<u></u>	12	5
HAWAII	7	18.228	<b>.</b>	<b>J</b> C		₹,	<b>&gt;</b> r	2	12	ı,	_
IDAHO	· •	10,037	) <b>«</b> -	-	<b>-</b>	- c	۷.	<b>0</b> N	<b>.</b>	- (	- 1
ILLINOIS	158	158,253	- L	- 0	. 5	o K	- <u>c</u>	<b>1</b>	- ;	N į	~ ;
INDIANA	<b> </b>	65,582	אן ני	^ ^	<u>-</u> «	0.5	<u>&gt;</u> 4	کر آ	0	Σ	13
IOWA	52	267, 27	) <del>(</del> -		o n	5 5	00	Λį	<u>s</u>	21	9
KANSAS	: 23	36,851	- c	۰ ،	n a	2 6	•	≙•	Φ1	~:	M
KENTUCKY	74	43.344	M	1 0	n ox	₹°	۸ ٥	- r	<b>A</b> 1 (	M	4-
LOUISIANA	33	40,154	c	10	) Lr	` ~	~ c	- •	V •	N	_
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MARYLAND	54	70, 743	N	-	3 10	7	α	) <u>-</u>	9	40	}
MASSACHUSETTS	112	162,327	<	9	0	13	ıτ	- 7	2 €	٥ţ	~ v
MICHIGAN	<sub>የ</sub>	108,878	-	м	11	35	<u> </u>	14	2 5	7 -	<u>.</u>
MINITEDIA MINITEDIA	2	62,612	~	M	٥	18	7	Ĺ.	35	. ~	5 m
MICCOLDI	7.6	SS, 53	0	M	7	Φ	•	6	4	. 4	, M
MONTANA	8 5	00,671	- c	V) 4	~ `	32	₽.	12	0	M	•
NEBRASKA	75	21,10	-	- c	٥ ٧	4 6	4 (	<del>-</del> - 1		0	7
NEVADA	80	10,728	-	<b>1</b> C	o <del>c</del>	۰ ۵	<b>.</b>	<b>V)</b> •	Ν.	Ν.	~
	82	18,111	'n	~	- M	~ ທ	V L	- c	- `	0	N
NEW JERSEY	54	80,986	7	_	M	• •	n er	4 r.	* <del>C</del>	- t	N 6
NEW MEXICO	8	20,809		0	9	- σο	7	<b>,</b> e	ī 4	Ā C	<i>,</i> 0
NOTH CAROLINA	138	515,994	5 0	<u>ნ</u> .	7	35	Ŋ	77	77	24	
NORTH DAKOTA	25	6770	<b>-</b> C	<b>.</b>	<b>0</b> 14	32	28	21	5	'n	12
OHIO	141	757, 721	<b>א</b> כ	<b>V</b>	υĈ	4 (	4 6	- !	∾;	0	2
OKLAHOMA	94	34,385	0	۰,۰	ĻΝ	y C	3,	3°	40	٥.	₽,
OREGON	95	38,204		ı ru	<b>.</b>	2 ^	~ u	0 0	<b>&gt;</b> 0	4.	ומי
PENNSYLVANIA	202	159,841	•	~	. 50	87	7,4	27	4 0 7	4 0	J.
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SOUTH CAKOLINA	<b>3</b> :	37,990	m	0	~	17	, <u>5</u>	- 2	, F	ט ער	40
HENNERSON	19	8,870	_	~	0	~	-	· N	<u> 4</u>	) <del>-</del>	7 -
TEXAS	28	55,238	Q I	ιΩ I	7	22	^	7	12	- LO	- L
IITAH	2	77, 565	M	M.	12	20	25	7	38	, <u>60</u>	,κ
VERMONT	<u> </u>	35,05	<b>-</b>	- (	<del>(-</del> (	7	_	7	0		M
VIRGINIA	46	16,702	N C	-	٠ ٢٠	'n	IN I	N	M	0	N
▲ WASHINGTON	75	50,03	<b>-</b>	>-	<b>3</b> C	20	<b>~</b> i	<del>.</del>	=	Φ.	0
_	83	14, 184	90	- P-1	<b>&gt;</b> C	י ע	~ ^	0.1	22,	0	9
WISCONSIN	<b>9</b>	62,384	0	<b>,</b> —	•	, <u>(</u> 2	• •	- 12	4 5	<b>&gt;</b> 0	<b>~</b> 1
	Φ.	7,341	0	0	0	ī	-	N	0	0	۰۰-

A Nonresponse rates for Alabama and Washington were 36% and 46% respectively. See methodology.

Table 18: Total operating expenditures and number of libraries by category of total operating expenditures, by level and control of institution: 1990

Total number of level and Control of Institution	Total number of libraries e	Total operating expenditures (\$000'S)	Less than \$20,000	\$20,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$199,999	\$200,000 to \$299,999	\$300,000 to \$499,999	\$500,000 to \$999,999	\$500,000 \$1,000,000 to to to \$999,999 \$1,999,999	\$2,000,000 or more
ALL HIGHER EDUCATION INSTITUTIONS *	3,274	\$3,257,813	86	122	320	069	400	787	528	303	338
TOTAL FOUR YEAR AND ABOVE	1,997	\$2,866,136	41	29	126	337	502	584	360	255	330
DOCTORATE	488	\$1,946,970	~	M	14	56	23	83	61	62	243
MASTERS	827	\$ 694,567	60	6	40	93	83	173	200	141	80
BACCALAUREATE	682	\$ 224,599	58	25	22	218	100	82	8	35	7
LESS THAN FOUR YEAR	1,277	\$ 391,676	45	63	194	353	195	203	168	87	æ
TOTAL PUBLIC	1,504	\$2,014,165	11	14	69	248	210	240	290	187	235
TOTAL PRIVATE	1,770	\$1,243,648	К	108	251	745	190	247	238	116	103
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<sup>\*</sup> Institutions with accreditation at the higher education level recognized by the Secretary of Education, 1990

Table 24: Library operating expenditures by object of expenditure, and salaries as a percent of total operating expenditures, by state: 1990 ALL HIGHER EDUCATION INSTITUTIONS \*

2	10101	operating	Salaries	of total	expendi tures				Telecommuni-	database	computer	operating
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Libraries	(S,000)	(000,2) e	operating expenditures	total (000's)	hardware (000'S)	Preservation (000's)	Postage (000'S)	cation (000'S)	searches (000'S)	services e (000'S)	expendi tures (000'S)
TOTAL 50 STATES & DC	3,274	\$3,257,813	\$1,693,330	52.0	\$1,040,928	\$96,235	\$37,360	\$10,079	\$19,047	\$16,577	\$76,344	\$267,912
ALABAMA	۳,	55,786	27,111	48.6	19,239	2,499	069	155	333	175	1 202	782
ARIZONA	ομ	9,386	5,576	59.4	2,414	196	121	45	40	2	268	706
ARKANSAS	<b>1</b> 6	18,243	0,040	- 64	16,029	1,081	733	172 25	262	202	295	3,582
CALIFORNIA	787	332,228	186,964	56.3	92,001	0 080 0 080	180 180 187	90 700	103	35	7,00	
COLORADO	44	43, 788	21,805	8.67	15.547	1.043		6,4	, 286 786	1,120	0,55,4 4,000	
CONNECT I CUT		70,354	33,345	4.7.4	20,492	1,658	847	140	323	313	 	1,538
DELAWAKE	2;	13,673	6,195	45.3	6,072	131	175	2	2	9		
	₽ä	827,74	24,173	50.6	15,028	1,249	528	119	235	463	906	
GEORGIA	12	2,00	22, 22	2.74	43,625	3,353	155,	407	437	797	1,462	5,835
HAWAII	7	18,43	35,704 8,047	4. 4. 4.	24,226	2,142	269	<b>1</b> 6	539	365	1,375	
IDARO	:=	10,037	96,3	2.64	1, C	1, 503	347	23	37	8	355	
LLINOIS	158	158,253	86,318	2,75	מאָט מאָט	707	7 2	2	2	<b>7</b>	7.76	
NDIANA	7	65,582	32,437	60,	5. 5.	7,155	278	200	3	86	3,397	
OWA	57	45,497	20,999	7 67	14.374	1,618	86.6	200	447	4	892	6,931
KANSAS	25	36,851	17,870	48.5	11 799	2,752	822	<u> </u>	25	175	- 6	
KENIUCKY	74	43,344	21,906	50.5	14,658	821	897	35	20,2	2 5	7 6	
LOCI STANA	23	40, 154	20,621	51.4	14,981	797	531	76	35	24.	00 P	
MADVI AND	32	14,439	6,947	<b>48.</b> 1	2,547	359	192	**	. 69	25	480	
MASSACHISETTS	, ,	70,73	38, 139	53.9	20,119	1,835	269	203	987	285	1 830	
MICHIGAN	- 6	102,527	28,600	9.5	46,309	3,23	1,706	350	571	1,176	3,326	17,055
NNESOTA	22	62,670	70,02	2.0	35,992	3,512	22	370	913	202	2,524	7,581
MISSISSIPPI	75	25,385	12,43	υ, α,	(%) '8    (%) '8	7,482	831	503	345	333	2, 153	4,970
MISSOURI	8	66,871	33,537	205	2,17	2 162	65	<b>*</b>	138	90;	687	1,457
MONTANA	19	7,787	3,915	50.3	2,760	1,	38	32	D. *	36	7,692	6,400
NEMASKA	¥.	21,637	10,443	48.3	7,374	1,134	270	8	265	3 <del>E</del>	18	74.
TO THE PROPERTY.	o g	5,5	, c	53.9	3,521	459	149	7	7	8	166	-
NEU JERSEY	3 %	20 08 80 08	CO. 4.		6,682	52	167	32	99	47	298	1.570
NEW MEXICO	58	20,20	11,020	. «	77,44	2,352	1,239	194	434	385	2,542	3,587
NEW YORK	263	315,994	172.813	2.75	95, 203	207 21%	607 R	27.0	9	8	766	2,200
NORTH CAROLINA	138	99, 791	50,760	50.9	33.017	3,225	280	S.K	, 024 401	****	4,552	22,384
NOKIH DAKULA	2:	2,442	4,225	44.7	3,683	353	8	2	3	15	- - - - - - -	0,470
OKLAHOMA	± 49	404,401 707,75	65,447	7.63	42,691	3,430	1,387	497	937	765	4, 289	
OREGON	46	38.70	17, 976	. a	\$05,°C	698	220	5 2 2	193	136	870	3,590
PENNSYLVANIA	202	159,841	81.836		7,047	1 25	330	83	555	178	992	5,391
RHODE ISLAND	=	21,751	11, 190	51.4	965.9	272	CY. 7	200	4 4 5 7 5 7 5 7 5 7	782	3,223	13,491
SOUTH CAROLINA	3:	37,990	18,342	48.3	12,717	1.661	409	85	721	242	88	2,398
SOUTH DAKOTA	2	8,870	3,860	43.5	3,643	227	<u></u>	2 55	8 %	0 2 2 2 2	<b>₹</b>	385,2
TUNNER	Z,	55,238	27,382	9.64	19, 176	2,615	332	132	2,2	687	1 40-	2002
UTAH	<u> </u>	COC 1/2	5	9:5	58,372	5,283	1,678	502	1,090	80	787.7	13,000
VERMONT	2 %	12,0%	4CK 7	40.0	10,066	88	482	25	135	107	244	
VIRGINIA	11	81,937	24,0		* * * * * * * * * * * * * * * * * * *	396	149	25	8	8	262	<u> </u>
HASHINGTON	7	59,942	32.716		14 081	, . , .	Ç.	197	377	323	1,639	7,762
WEST VIRGINIA	82	18, 18,	7 113	20.2	727.7	449	25	2	297	569	1,654	5,235
MI SCONSIN	8	62,384	33,948	54.4	20,351	757	405	2,5	3,5	240	410	871

\* Institutions with accreditation at the higher education level recognized by the Secretary of Education, 1990
A Monresponse rates for Alabama and Washington were 36% and 46% respectively. See methodology.

Table 28: Library operating expenditures by object of expenditure, and salaries as a percent of total operating expenditures, by level and control of institution: 1990

Level and Control n	Total number of libraries	Total operating expenditures (000'S)	Salaries and wages (000'S) ex	Percent of total operating penditures	Collection E expenditures total (000'S)	Equipment, Computer hardware (000'S)	Preservation (000'S)	Postage (000'S)	Telecommuni.	Online detabase searches	Contract Computer Services	All other operating expenditures
ALL HIGHER EDUCATION INSTITUTIONS *	3,274	\$3,257,813	\$1,693,330	52.0	\$1,040,928	\$96,235	\$37,360	\$10,079	\$19,047	\$16,577	\$76,344	\$267,912
TOTAL FOUR YEAR AND ABOVE	1,997	\$2,866,136	\$1,437,479	50.2	\$959,687	\$79.371	207 928	275 03	775 243	777	7	
DOCTORATE	488	\$1,946,970	\$950,967	48.8	\$664,434	\$52,452	\$27,582	\$7,178	\$16,050	\$13,000	306, f45	\$241,651
MASTERS	827	\$694,567	\$368,885	53.1	\$223, 165	\$19,824	\$6,809	\$1.776	\$2,626	\$6.251	610 034	201 (0) 18
BACCALAUREATE	682	\$224,599	\$117,626	52.4	\$72,088	\$7,095	\$2,035	\$613	\$888	\$997	\$7,074	\$16,183
LESS THAN FOUR YEAR	1,277	\$391,676	\$255,851	65.3	\$81,242	\$16,864	\$933	\$512	\$1,483	\$910	87,599	\$26,281
TOTAL PUBLIC	1,504	\$2,014,165	\$1,080,410	53.6	\$639,875	\$61,018	\$21,498	\$6,185	\$12,112	\$7,932	\$44,017	\$141,118
TOTAL PRIVATE	1,770	\$1,243,648	\$612,920	49.3	\$401,054	\$35,218	\$15,863	\$3.894	\$6,935	779 8\$	412 223	102 701

\* Institutions with accreditation at the higher education level recognized by the Secretary of Education, 1990

Table 34: Operating expenditures for collections and equipment by category of collection and type of equipment by state: 1990
ALL HIGHER EDUCATION INSTITUTIONS \*

		Collections		Current		Machine		Other			
n. State	Total number of libraries	expenditures total (000's)	Print materials (000's)	Serial Sub- scriptions	Microforms (000'S)	readable materials (000'S)	Audiovisual materials (000'S)	collection expenditures (000'S)	Equipment total (000'S)	and and equipment (000'S)	Computer hardware (000'S)
TOTAL 50 STATES & DC	3,274	\$1,040,928	\$401,700	\$548,980	\$32,416	\$15,000	\$22,888	\$19,945	\$96,235	\$47,849	\$48,387
A ALABAMA	£,	19,239	8,214	9,635	565	. 192	380	253	667.2	1 080	1 2.00
ARIZONA	o sy	2,414 16,029	296 276 9	1,380	39 75	58	1100	702	196	221	72
ARKANSAS	H.	6,824	2,551	3,703	S22	22	95	96 8		670 766	411
COLORADO	787 787	92,991	38,718	46,281	3,388	1,288	1,678	1,637	680'6	3,895	5, 194
CONNECTICUT	54	20,492	9,612	9,327	482 975	51. 27.	244	171	1,043	629	364
DELAWARE	5 5	6,072	2,789		2	25	9	2,2	131	99	229
FLORIDA	28	43,625	18,850	15,809	473	76 م	161	195	1,249	8	648
GEORGIA	ድ:	24,226	8,127		788	248	589	2,2	5,555	1.844	7,509
IDANO	2 =	5, 793	1,970	3,237	332	12:	177	11.	1,903	- 194	1,442
ILLINOIS	158	48,068	19,264	25, 120		5 464		44.0	287	108	179
INDIANA	≂!	21, 195	2,997	10,900	304	465	352	1,176	7,422	2,539	, 88, 27,
KANSAS	25	14,374	6,023	7,375	438	85	369	88	1,618	639	979
_	47	14,658	5,663		350	<u> </u>	175	79	2,752	1,018	1,734
L COUISTANA MATNE	m s	14,981	4,731	9.248	804	702	194	294	797	426	371
MARYLAND	7.5	20,119	7,507	2,942	27	89 2	76	ઝ	359	208	151
MASSACHUSETTS	15	46,309	17,260	24,745	1.18	574	35	396 796	1,835	992	1,069
MICHIGAN	ይጀ	33,992	13,547	18,409	535	670	612	420	3,512	1,970	1,542
MISSISSIPPI	:3	9,645		0/6 8	242 242	177	591	460	1,482	1,011	471
MISSOUR1	85	21,440	7,655	11,634	710	255	242	643	5,142	1.047	1 005
NEBRASKA	ጽ≏	7,700	2.640	1,767	67 7	33	52	9	891	3	104
NEVADA	<b>©</b>	3,521	1,460	1,817	<u> 8</u>	74	800	26 27	1,134	432	702
NEW MARPORINE	82	6,682	1,972	3,989	136	ভ	3	458	221	145	28.
NEW MEXICO	8	, 6 10 10 10 10 10 10 10 10 10 10 10 10 10	1,963	3,820	775 108	220	124	272	2,352	828	1,524
NEW YORK	563	95, 293	35,044	54,110	2,130	1,107	1.652	1.250	787 8 414	742	140
NORTH DAKOTA	2 2	35,017	12,431	17,962	1,023	352	1,022	722	3,225	1,392	1,834
ORIO OX. 1	141	42,691	16,674	23,287	847	445	8118	5729	353	721	180
OREGON	<b>\$</b> 4	11,009	3,728	6,506	296	182	223	7	869	539	331
PENNSYLVANIA	8	51,854	19,919	27,525	1,487	1,142	221 1 145	33	993		352
RHODE ISLAND	=:	6,594	2,564	3,861	25	35	33		101,0	7,78U	121,2
SOUTH DAKOTA	\$ \$	75,71	5,363	6,392	23e	252	352	150	1,661	18	995
TENNESSEE	8	19,176	6,685	10.387	1, 188	3,50	0/ 227	30	227	127	100
IEXAS (1744	<u>3</u> :	58,372	23,064	29,783	1,711	1,065	1,748	1,000	5,283	2,20	- c
VERMONT	28	485.4	1,000	765,0	28	45	ភូ	M.	888	208	381
VIRGINIA	4	28,175	10, 136	14,903	1.027	331	104 057	84.0	396	751	242
A MASHINGTON LEST VIRGINIA	ጟኟ	16,981	5,953	9,280	825	315	517	436	1,899	1.012	282 887 887
WISCONSIN	38	20,351	7.817	10,584	929 829 837	109	164	E.	899	313	322
WOMING	٥	3,323	1,329	1,831	<u>}</u> ~	37	8	2 %	2,454,2 80	1,136 82	1,318
tit	accreditet	ion of the bishor							***************************************		;

\* Institutions with accreditation at the higher education level recognized by the Secretary of Education, 1990 A Nonresponse rates for Alabama and Washington were 36% and 46% respectively. See methodology. Source: 1990 IPEDS Academic Library Survey

Table 38: Operating expenditures for collections and equipment by category of collection and type of equipment by level and control of institution: 1990

Furniture computer and computer equipment hardware (000's)	242,849 \$48,387	\$37,543 \$41,828	\$23,596 \$28,856	\$10,218 \$9,606	\$3,728 \$3,366	\$10,305 \$6,559	830,028 \$30,090	\$16,920 \$18,297
Fur Equipment total equ (000's) (	\$ 62,235	\$ 175,978	\$52,452	\$19,824	\$4,095	\$16,864	\$61,018	\$35,218
other collection expenditures (000's)	\$19,945	\$18,216	\$14,887	\$2,424	\$905	\$1,729	\$11,405	\$8,540
Audiovisuat materials (000'S)	\$22,888	\$14,321	\$6,146	\$5,701	\$2,474	\$8,567	\$15,698	\$7,190
Machine readable materials (000'S)	\$15,000	\$12,265	\$7,945	\$3,138	\$1,183	\$2,734	26,487	\$5,513
Microforms (000'S)	\$32,416	\$27,893	\$17,676	\$7,834	\$2,383	\$4,523	\$20,669	\$11,746
Current Serial Sub- scriptions	\$548,980	\$526,646	\$382,907	\$114,435	\$29,304	\$22,333	\$346,879	\$202,101
Print materials (000's)	\$401,700	\$360,345	\$234,873	\$89,633	\$35,839	\$41,355	\$235,736	\$165,964
Collections expenditures total (000'S)	\$1,040,928	\$959,687	\$664,434	\$223,165	\$72,088	\$81,242	\$639,875	\$401,054
Total number of libraries	3,274	ND 1,997	887	827	682	AR 1,277	1,504	1,770
Total Level and Control number of of Institution libraries	ALL HIGHER EDUCATION	TOTAL FOUR YEAR AND ABOVE	DOCTORATE	MASTERS	BACCALAUREATE	LESS THAN FOUR YEAR	TOTAL PUBLIC	TOTAL PRIVATE

\* Institutions with accreditation at the higher education level recognized by the Secretary of Education, 1990

Table 4A: Number and percent of FTE staff in academic libraries by staff category and by state: 1990 ALL HIGHER EDUCATION INSTITUTIONS \*

State	Total number of libraries	Total FTE staff	percent	Librarians and other professional	ans and fessional- percent	paid:	other - staff ·	Contributed	ibuted	Student	ent
TOTAL 50 STATES & DC	3,274	99,682	100.0	26, 101	26.2	: 15	42.0	i no	1.4	: ⊷	30.6
4 A BRAMA	5	170	•	è	•		;				
-	<u>-</u> •	- - -		\$ \$ \$		/59 80	35.3	26	0.u	662	33.6
ARIZONA	35	1,365	1.4	337	24.7	637	7.97	- 21		/2×	24.5
ARKANSAS CALTEODNIA	33	إ إ إ	0.7	180	24.7	256	35.1	19	. 6	274	37.6
COLORADO	\$ 3	11,073		2,384	2. 2.	5,054	45.6	184	1.7	3,451	31.2
CONNECTICUT	5	588	, <del>,</del>	CO7	20.5	258 8,7	7.7	v (x	0.0	<u>*</u>	27.0
DELAWARE	5	355	7.0	103	29.0	176	9 67		÷ C	<u></u> 7	
DISTRICT OF COLUMBIA	2,5	1,258	ا ما ا	387	30.8	547	43.5	•	0.5	318	12
GEORGIA	\$ 8	3,351	4. t	832	24.8	1,414	45.2	96	5.9	1,009	30.1
HAVAII	71	7,2	 	25. 15. 15.	25.1	939	40.6	41	 ∞	250	32.5
IDAHO	-	324		38	26.5	170	2 2 2 2 2	ΛC	- 6	138	
ILLINOIS	158	5, 135	5.5	1,297		2.259	7,0	33.0	9 0	1 5/4	* F
INDIANA	<b>~</b> !	2,216	2.2	541	24.4	869	39.5	34.		2	- «
KANSAS	57	7,273	m.	328	25.8	510	40.1	8	2.3	406	31.9
KENTUCKY	77	1,000	- u	293	27.6	389	36.6 36.6	51	7.	366	34.4
LOUISIANA	33	1,148		4 10	, « , «	202	22.2	ų,	M 10	482	31.7
HAINE	8	433	7.0	126	26.1	158	2 2	00	- c	<u> </u>	8 5 7
MARYLAND	54	1,862	1.9	526	28.2	884	47.5	24	- 57	827	, K
MICHIDAN	112	4,436	7,7	1,306	29.4	1,990	6 57	38	6.0	1.102	2,8
MINNESDIA	\$ %	2,186	5.7	831	26.1	1,258	39.5	18	9.0	1.079	33.9
MISSISSIPPI	7.7	- 90,0		4/- 252	% % 7	594	32.0	25	ر. د.	909 1	35.7
MISSOURI	98	2,207	2.5	553	35.	- 10	41.5	<u>^</u>	• • •	57.1	28.5 2.5
MONIANA	19	305	0	βį	23.9	113	37.0	N	 0	117	38.4
NEVADA	ή α	2,2	\ \ 0 C	787 69	26.7	325	4.6.4	9	6.0	183	28.1
NEW HAMPSHIRE	) <del>&amp;</del>	586	9	142	, c	- 754 27.4	, c	N 0	0.4	25	85 5 80 5 10 80 10
NEW JERSEY	25	2,214	2.2	618	27.9	1.123	20.7	٠ <u>۴</u>	- ⊂ - ≪	681 825 825 835 835 835 835 835 835 835 835 835 83	22.5
NEW MEXICO	28	, 36 36 36 36 36 36 36 36 36 36 36 36 36 3	ص د د	153	19.6	312	39.9	, <b>~</b>	0.3	315	
NORTH CAROLINA	7 C	7,0	, ,	008	31.8	3,845	43.7	۲'	<b>8</b> ,	2,078	23.6
NORTH DAKOTA	2	300	0	87	20.0	101	44. 44.5	~ 4	200	827	27.5
0110	141	4,229	4.2	1,030	54.4	1,490	32.5	3°	. 0.	1.630	18 50 18 50 19 50 19 50
OREGON	0 <del>4</del> 9			292	:: ::	439	38.0	2	<b>~</b> :	707	35.0
PENNSYLVANIA	202	5,161		1 302	3 K - v	450	0.04	Ç.	۰ د د	394	%! 
RHODE ISLAND	11	618	9.0	174	28.5	200	7.27	<u> </u>	, c	1,722	55. 4. 6
SOUTH CAROLINA	49	1,249	1.3	322	25.8	489	39.2	54	9 0	717	2.5
SUCIA DARCIA	61	S 3	0.3	83	29.5	26	34.5	4	. 4	76	. 24
TEXAS	7 2 2	7,700	⊢י סיֶׁα	499	29:5	765	70. 1.	29	M L	573	30.2
UTAH	35	, 2,53	0 ec	- 74, - 70,	0.7 0.4	446	τ, τ,	82°		1,624	28: 18:
VERMONT	2	431	0.4	10 10	24.4	172	30.0	<b>~</b>	5 <b>-</b>	55/ 14.7	45.3
VIKGINIA • WACHINGTON	<b>~</b> 2	2,348	2.4	649	27.6	953	40.6	=	0.5	255	31.3
	# 85 70	- 8,4		09°	24.7	805	43.0	99	.5 .5	537	28.8
MISCONSIN	38	1.822		525	4.8	38	27.6 4 4 4	13 5 2		245	39.0
		203	0.2	63	30.1	5	43.5	3.4	÷ 0	9 07	74.7

<sup>\*</sup> Institutions with accreditation at the higher education level recognized by the Secretary of Education, 1990 \*\* Details do not add to totals due to rounding

A Nonresponse rates for Alabama and Washington were 36% and 46% respectively. See methodology.

Source: 1990 IPEDS Academic Library Survey

Table 48: Number and percent of FTE staff in academic libraries by staff category and by institutional level and control: 1990

ALL HIGHER EDUCATION 3,274 99,682 100.0 26,101 26.2 41,853 42.0 1,405 1.4 30,323 1051 INSTITUTIONS * 1,997 84,198 100.0 22,143 26.3 35,638 42.3 726 0.9 25,691 DOCTORATE 488 52,007 100.0 13,749 26.4 24,530 47.2 128 0.2 13,600 MASTERS 8ACCALAUREATE 682 9,360 100.0 2,333 24.9 2,702 28.9 25.8 2.8 4,067 1051 INSTITUTION 15,484 100.0 15,531 25.9 26,887 44.9 198 0.3 17,326 1074 PUBLIC 1,504 59,942 100.0 15,531 25.9 26,887 44.9 198 0.3 17,326 1074 PRIVATE 1,770 39,740 100.0 10,570 26.6 14,966 37.7 1,207 3.0 12,997	Level and Control number of Institution	Total number of libraries	Total FTE staff	percent	Librarians and other professional FTE percent	Librarians and -other professional* FTE percent	All other - - paid staff - FTE percent	ther taff creent	Contributed services FTE percent	ted es rcent	Student assistants FTE percent	Student assistants FTE percent
1,997       84,198       100.0       22,143       26.3       35,638       42.3       726       0.9       3         488       52,007       100.0       13,749       26.4       24,530       47.2       128       0.2         827       22,831       100.0       6,061       26.5       8,406       36.8       340       1.5         1,277       15,484       100.0       3,958       25.6       6,215       40.1       679       4.4         1,504       59,942       100.0       15,531       25.9       26,887       44.9       198       0.3         1,770       39,740       100.0       10,570       26.6       14,966       37.7       1,207       3.0	ALL HIGHER EDUCATION INSTITUTIONS *		99,682	100.0	26, 101	26.2	41,853	42.0	1,405	1.4	30,323	30.4
488       52,007       100.0       13,749       26.4       24,530       47.2       128       0.2         NTE       827       22,831       100.0       6,061       26.5       8,406       36.8       340       1.5         IR YEAR       1,277       15,484       100.0       2,333       24.9       2,702       28.9       25.8       2.8         I,504       59,942       100.0       15,531       25.6       6,215       44.9       198       0.3         I,770       39,740       100.0       10,570       26.6       14,966       37.7       1,207       3.0	TOTAL FOUR YEAR AND ABOVE	1,997	84, 198	100.0	22, 143	26.3	35,638	42.3	726	6.0	25,691	30.5
NTE         62, 831         100.0         6,061         26.5         8,406         36.8         340         1.5           IR YEAR         682         9,360         100.0         2,333         24.9         2,702         28.9         25.8         2.8           IR YEAR         1,277         15,484         100.0         3,958         25.6         6,215         40.1         679         4.4           II,504         59,942         100.0         15,531         25.9         26,887         44.9         198         0.3           II,770         39,740         100.0         10,570         26.6         14,966         37.7         1,207         3.0	DOCTORATE	488	52,007	100.0	13,749	26.4	24,530	47.2	128	0.2	13,600	26.2
IR YEAR         682         9,360         100.0         2,333         24.9         2,702         28.9         258         2.8           IR YEAR         1,277         15,484         100.0         3,958         25.6         6,215         40.1         679         4.4           1,504         59,942         100.0         15,531         25.9         26,887         44.9         198         0.3           1,770         39,740         100.0         10,570         26.6         14,966         37.7         1,207         3.0	MASTERS	827	22,831	100.0	6,061	26.5	8,406	36.8	340	1.5	8,024	35.1
IR YEAR 1,277 15,484 100.0 3,958 25.6 6,215 40.1 679 4.4  1,504 59,942 100.0 15,531 25.9 26,887 44.9 198 0.3  1,770 39,740 100.0 10,570 26.6 14,966 37.7 1,207 3.0	BACCALAUREATE	682	092'6	100.0	2,333	24.9	2,702	28.9	258	2.8	4,067	43.5
1,504 59,942 100.0 15,531 25.9 26,887 44.9 198 0.3 1,770 39,740 100.0 10,570 26.6 14,966 37.7 1,207 3.0	LESS THAN FOUR YEAR	1,277	15,484	100.0	3,958	25.6	6,215	40.1	679	4.4	4,632	29.9
1,770 39,740 100.0 10,570 26.6 14,966 37.7 1,207 3.0	TOTAL PUBLIC	1,504	59,942	100.0	15,531	25.9	26,887	6.44	198	0.3	17,326	28.9
	TOTAL PRIVATE	1,770	39,740		10,570	56.6	14,966	37.7	1,207	3.0	12,997	32.7

<sup>\*</sup> Institutions with accreditation at the higher education level recognized by the Secretary of Education, 1990

<sup>\*\*</sup> Details do not add to totals due to rounding

Source: 1990 IPEDS Academic Library Survey

Table 5A: Number of volumes of books, bound serials and government documents held at the end of the year and number of libraries by number of volumes by state: 1990
ALL HIGHER EDUCATION INSTITUTIONS \*

State	Total number of Libraries	Volumes held at end of year	than 5,000	5,000 9,999	10,000 to 19,999	20,000 29,999	30,000 49,999	50,000 40,999	100,000 to 249,999	250,000 to 499,999	500,000 to 999,999	1,000,00 ° mor
TOTAL 50 STATES & DC	3,274	717,042,346	144	106	243	306	520	999	753	258	133	14
ALABAMA	80		•	^	7	4	ξ,	-	7	α	N	
ALASKA	9		-	0	0		90	-	<u>i</u>	٠-	) <del>(</del> -	
ARIZONA	33		M	m	~	M	2	9	7	0	-	
AKKANSAS	£ 3		~	0	9	īV	M	_	7	4	0	
CALIFORNIA	***		۰ م	2	%;	გ∙	27	<b>8</b> 9 1	48	15	13	_
COLORADO	‡		4 0	J C	<b>v</b> 1 ~	<b>4</b> u	∞ (	<b>~</b>	₽'	4,	-	
ELAWARE	2€	3,110,276	<b>u</b> C	<b>u</b> c	<b>4</b> ~	∩ •	> -	<b>*</b>	<b>&gt;</b> r	•	(	
DISTRICT OF COLUMBIA	1,0		o =	-	- 0	- c		* 14	٧.	<b>-</b>	<b>-</b>	
FLORIDA	*	963	M	4	u 00	0	- 4	ი %	4 0	- M	u	
GEORGIA	2	15,670,020	ראו	0	∞	• •	<u> </u>	<u> </u>	9 4	۰ ۲۰	n C	o <
HAWAII	14	423	0	0	0	-	ī	4	, N		o c	-
IDAHO	7	156,		0	0	_	۰.	-	, M	, v		
ILLINOIS	158	514,	9	=	15	~	22	38	33	٥	۰.۷	
ND I ANA	r:	62	ı,	0	М	~1	7	2	27	v	<b>N</b>	
I UMA	52	ξ,	~	~	Ŋ.	-	0	₽	13	M		
KANSAS	χ:	9	<b>(</b> (	0	ν:	5	-	-	7	7	7	
CHICKI	**************************************	<u>.</u> :	~	0	۱ م	4	ın I	Φ.	10	ľΛ	2	
KATUE	າເ	į.	<b>⊃</b> (	<b>-</b> (	<b>'</b>	- (	<b>M</b> 3 -	4	Φ.	0	N	
MARY! AND	, , , , , , , , , , , , , , , , , , ,	, , ,	7 0	ИC	۰ م	N -	40	•	νį	MI	N)	
MASSACHUSETTS	1.5	,,,	40	>-	<b>4</b> V	t u	æ ç	<u>ب</u>	<u> </u>	in i	M	
MICHIGAN	. R	25, 799, 418	• ~	- 7	~ 16	n <u>⊱</u>	2 €	3 5	3,5	~ 0	<b>10</b>	
MINNESOTA	2	14,009,585	ī	•	0	<u> </u>	<u>u</u> «	<u>•</u> 0	72	00	n •	
MISSISSIPPI	45	5,701,192	۰.		` 7	1 rv	) <del>-</del>	۰ ۷	9 5	<b>&gt;</b> 0	- N	
MISSOURI	88	16,601,359		w	. ~	. 60	- 2	, Ç	25	V L	ህ ת	- •
MONTANA	19	1,723,382	<b></b>	m	M	0	4	M	ľ	۸ ۱	<b>`</b>	
MEBRASKA	ž,	5,457,458	_	-	9	4	7	'n	10	·	-	
NEVADA	∞ <u>(</u>	1,562,012	۰.	ο.	-	M	7	0	0	0	7	
NEW MARINE NEW TEDOREY	93	47, 140, 924	4 (	4 (	~	'n	ו רא	N,	9	0	_	
NEW MEXICO	* %	047,042	>-	<b>7</b> %		~ 1	ın c	<del>Σ</del> ,	71	φ,	4	
NEW YORK	243	47, 401, 824	- 6	ر د	- <	<b>1</b>	ρŗ	4 6	י נא	-;	<b>-</b> ;	•
NORTH CAROLINA	118	22, 674, 572	<u>-</u> -	<u> </u>	<b>+</b> 0	2,0	3.5	ጀ	<b>:</b>	ç, ,	Ε`	
NORTH DAKOTA	200	1.974.267	٠,	·	, p.	30	- P	2 4	7.7	0 ~	*	
OHIO	141	30,971,421	_	_	2.5	1,5	, <u>e</u>	,,	- 0	- 5	N	
OKLAHOMA	94	8,542,606	0	~	M	9		;0	12	5 0		
OREGON	94	7,702,662		-	מא ו	4	- 00	, <del>(</del>	2 1	o <b>v</b>		
PENNSYLVANIA	202	35,772,194	F	~	2	8	33,		52	. 5	- œ	
	=	4,264,112	• •	0	-		0	נאן	. ~	. ~	-	
SOUTH CAROLINA	49	9,335,181	2	0	'n	은	5	0	<u> </u>	ļ	- 0	
SOUTH DAKOTA	19	2,479,535	0	~	0	0	M	~	īv	•	•	
I ENNESSEE HEXAS	8	12,520,522	M	0	<u>2</u> 1	∞	Φ,	*	16	ď	M	
TAN	85	24,111,450	<b>20</b> c	N (	~ <	<u>~</u>	<b>%</b>	<b>19</b>	43	9	5	
VERMONT	25	7,070,039	<b>u</b> -	<b>-</b> 0	<b>&gt;</b> C	> ►	4 1	~1	-	- (	<b></b> ,	
VIRGINIA	41	15,005,063	- M	<b>.</b>	<b>.</b>	<u>.</u>	J =	~ <u>F</u>	4 6	<b>-</b> و		
WASHINGTON	25	12,396,538	<u>۱</u>	- 0		- 7	= 5	<u>n</u> «	7 t	2 14	<b>V</b> C	-,
WEST VIRGINIA	<b>58</b>	4,271,635	-	0	۰~	· M	'n	9 4	<u>,                                    </u>	) t-	o c	•
KI SCONDIN	9	14,998,400	_	0	~	2	ω	12	4	- ∞	) IVI	
22.25	^	LYD. 0XC.	-	=	=	•	4	•	c	•	•	

\* Institutions with accreditation at the higher education level recognized by the Secretary of Education, 1990 • Nonresponse rates for Alabama and Washington were 36% and 46% respectively. See methodology. Source: 1990 IPEDS Academic Library Survey

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Table 58: Number of volumes of books, bound serials and government documents held at the end of the year and number of libraries by number of volumes by level and control of institution: 1990

Level and Control numb of Institution libr	Total number of libraries	Volumes held at end of year	Less than 5,000	5,000 9,999	10,000 to 19,999	5,000 10,000 20,000 30,000 to to to to to 9,999 19,999 29,999 49,999	30,000 to 49,999	50,000 to 99,999	50,000 100,000 to to 99,999 249,999		500,000 to 999,999	250,000 500,000 1,000,000 or to or or wore
ALL HIGHER EDUCATION INSTITUTIONS *	3,274	717,042,346	144	106	243	306	520	999	753	258	133	145
TOTAL FOUR YEAR AND ABOVE	1,997	663,118,826	97	67	22	77	164	366	692	253	133	145
DOCTORATE	488	437,100,621	∞	7	٥	7	Ŋ	36	127	63	87	139
MASTERS	827	161,698,823	12	2	17	18	37	148	377	155	75	ĸ
BACCALAUREATE	682	64,319,382	8	56	97	25	122	182	188	35	4	-
LESS THAN FOUR YEAR	1,277	53,923,520	86	57	171	229	356	300	61	ī	0	0
TOTAL PUBLIC	1,504	412,309,861	31	31	*	158	309	330	230	150	8	92
TOTAL PRIVATE	1,770	304,732,485	113	52	166	148	211	336	523	108	37	53

\* Institutions with accreditation at the higher education level recognized by the Secretary of Education, 1990

Source: 1990 IPEDS Academic Library Survey

Table 6A: Number of volumes, units, and linear feet held at the end of the year and number added during the year by material collection category, in all academic libraries by state: 1990 ALL RIGHER EDUCATION INSTITUTIONS \*

State	number of libraries	units of microforms	& archives linear ft.	materials	materials	Volume	units of microforms	& archives linear ft.	materials units	materials units
TOTAL 50 STATES & DC	3,274	710,260,091	2,543,684	27,013,649	49,987,940	19,002,705	37,949,820	132,049	958,502	1,684,817
ALABAMA	81	10,783,563		386, 172	373,378	313,295	656.172	286	15,807	13 639
ALASKA AD120NA	<b>7</b>	1,446,138	<b>2</b> ,5	27,938	271,008	45, 593	25,287	233	2,331	9,7,6
IRKANSAS	3 50	5,977,015	13,580	146,062	7,757,103	339, 194	531,419	380	6,161	
CALIFORNIA	58 <sup>4</sup>	58, 793, 170		2,764,071	8.355.437	1.697.050	2,700,588	7 7 7	4,0%5	
SOLORADO	77	11,340,616	 	676,280	431,904	276,261	698,242	626	34,003	
CORNECT ICOI	<b>4</b> €	7,653,297	63,096	700,551	2,396,606	404,382		2,649	10,888	14,387
DISTRICT OF COLUMBIA	2,2	29,536,056	, 57	10,028	208, 401 208, 401	158,097		69	3,912	
	8	24,308,716	7	866,529	635 024	500,020 556,656	815,879	5,597	493	5,286
GEORGIA	ድ	20,781,865	4		578, 167	537, 709		2009	26, 47 36, 478	20,04 04,14
HAWA I I	14	4,552,273			15,977	114,064		15	3,683	
IDAHO	- (	2,709,095			148,568	977 99		693	890	2.55
LL INOIS INDIANA	<u>5</u>	30,274,803	98,920	2,791,111	1, 145, 911	1,025,342		5,728	74,043	19,526
AUC.	- 22	10,404,413	_		1,531,491	451,409		1,532	102,712	536, 031
KANSAS	: C	10 418 525	9,2		811,662	266,232		653	19, 161	22,890
KENTUCKY	77	13,520,624	50,05		2 371,290	222,307		3,009	10,615	38,984
LOUISIANA	33	15,086,174	8	556, 463	7,77	251,141		7, 140	2,0	, , ,
MAINE	62	4,411,211	Ξ.	161,275	145,598	113, 112	300,728	2,463	10,10	4, k
MAKYLAND	4. 4.	10,984,988		439,690	1,223,262	339,704		1,721	21,695	66,482
MICHIGAN	<u> </u>	22,020,000	•	651,569	908, 763	1,069,657	1,143,018	5,221	14,244	21,672
MINNESOTA	22	8 154 883	47,555 010 83	267, 727	1,713,037	674,368	1,349,927	9,385	15,877	16,499
MISSISSIPPI	45	10,309,273		148, 135	160,000	800.000 7.7.7	25, 200	2,464	15,743	7,528
MISSOURI	98	16,501,005		553,423	198,445	363 704	534,518	1,000	7,750	(8) k
MON I ANA	9	2,225,542		263,038	780,087	41,760	150,344	1,169	8,168	1 632
NEURADA	y «	7,007,651	8,0	59, 194	108,068	135,382	435, 168	6,565	1,591	490
NEW HAMPSHIRE	, 82 78	4,533,093		26, 385	201,440	112,287	262,252	327	167.4	(A)
NEW JERSEY	55	12,337,888	8	416,339	552,885	808 277	656, 232 656, 735	1 140	2,010	v (
NEW MEXICO	<b>%</b> ;	9,518,137		235,383	126,911	140,471	958,745	3,305	11,000	7,167
NEW TORK	263	66, 787, 351	352,	968,398	3,628,897	1,528,721	3,320,914	6,802	34,002	788 96
NORTH DAKOTA	<u> </u>	2,074,636	ν, c	404,169	671,145	665,762	1,240,101	1,935	24,526	210,108
OHIO	141	21.303.894	, 17,	301,030	205,091	702, 411	154,512	1,625	6,623	1,624
OKLAHOMA	94	11,835,370	<u> 8</u>	354,464	137,067	103,700	1,026,201	1,650	22,737	
OREGON	94	8,071,592	K	1,113,884	790,072	235, 395	-	2 4 50	18,047	
PENNSYLVANIA	202	31,305,453	2	87,748	1,969,126	821,573		12,636	116,007	
HOUTE ISLAND	11	3,013,400	2,5	13,535	585,418	63,425		667	•	29.747
SOUTH DAKOTA	¥ 5	7,724,540	3,5	550,016	458, 198	262,342		539		
TENNESSEE	28	14, 764, 098	2 5	107, VIZ	6,7,6 6,7,6 7,7,6	61, 160	124,070	1,863		153
TEXAS	166	48,774,556	139	983,955	7, 636, 368	1 100 654	-	2,002		7,487
UTAR	ម	7,312,326	31	475,884			306,694	1,596	14,796	52,437
VERGINIA	46	1,692,938	2 4	273,683				144		5,499
WASHINGTON	አ	5,240,675	, e	257 772	817,785	787,721	659,269	1,833		30,325
WEST VIRGINIA	82	4,311,851	K	40.703	. 7	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	•	4040		14°
WISCONSIN WYOMING	80	15,722,309		710,198	903,256	395,721	1,050,458	3,671	6,356	11,323
		1000		+ko* ; ;	20,02	7,080	42,868	32	368	086

Table 68: Number of volumes, units, and linear feet held at the end of the year and number added during the year by material collection category, in all academic libraries by level and control of institution: 1990

Level and Control of Institution	Total number of libraries	Physical units of microforms	Number Held Manuscripts & archives (inear ft.	Number Held At End Of Year Manuscripts Cartographic & archives materials linear ft. units	Graphic materials units	Volume	- Number Add Physical units of microforms	Number Added During The Year	Year artographic materials units	Graphic materials units
ALL HIGHER EDUCATION INSTITUTIONS *	3,274	710,260,091	2,543,684	27,013,649	076'286'67	19,002,705	37,949,820	132,049	958,502	1,684,817
TOTAL FOUR YEAR AND ABOVE	VE 1,997	684,838,539	2,493,502	26, 793, 945	47,228,858	17,278,983	35,425,536	127,414	932,881	1,614,710
DOCTORATE	887	452,389,359	2,018,299	23,340,319	37,481,499	11,162,412	21,760,618	997'76	802,486	822,985
MASTERS	827	209,910,409	333,070	2,825,575	7,077,901	4,461,379	11,818,829	29,662	110,884	190,146
BACCALAUREATE	682	22,538,771	142,133	628,051	2,669,458	1,655,192	1,846,089	6,286	19,511	601,579
LESS THAN FOUR YEAR	1,277	25,421,552	50, 182	219,704	2,759,082	1,723,722	2,524,284	4,635	25,621	70,107
TOTAL PUBLIC	1,504	511,986,986	1,490,427	22,025,745	34,871,757	11,769,929	25,369,363	82,107	809'608	817,079
TOTAL PRIVATE	1,770	1,770 198,273,105	1,053,257	706'286'7	15,116,183	7,232,776	12,580,457	256'65	148,813	867,738
4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		• • • • • • • • • • • • • • • • • • •		1 1 1 1 1 1 1 1 1	,					

\* Institutions with accreditation at the higher education level recognized by the Secretary of Education, 1990 Source: 1990 IPEDS Academic Library Survey

Table 74: Number of unduplicated titles held at the end of the year in academic libraries by material collection category and state: 1990 ALL Higher EDUCATION INSTITUTIONS \*

State	Total number of libraries	Books and bound serials	Government documents	serial subscrip- tions	represented by microforms	titles represented by microforms	doc. titles represented by microforms	Audio materials	Films	Video materia(s	Machine readable materials	Other library materials
TOTAL 50 STATES & DC	3,274	307,462,109	100,725,202	5,749,449	46,363,854	9,826,516	45,076,354	10,358,031	776, 168	1,512,054	1,839,037	9,497,708
ALABAMA	8	5,835,027	2,459,486	69.371	954, 299				14, 002	34 475		
ALASKA	۱۰	1, 133, 725	323	13,776	477,536				270.9	4 611	1,711	40,400
ARIZUMA	ሩ አ	1,287,148	1,431,880	84, 782	188,972				12,164	26.933	3.460	10,01
CALIFORNIA	38.5	7,492,047	1,664,840	9,5	1,307,226				5,892	6,679	527	28.791
COLORADO	33	5, 165, 087	7, 704, 64	Ç.K	424,234		•		44,148	115,608	9,775	1,415,356
CONNECTICUT	5	8, 100, 688	469,458	8	727 721	147,028	388,459		11,228	22,213	6,577	146, 123
	2	402,554	82,097	<u>~</u>	75,885				5,743	24,974	57,479	620,575
DISTRICT OF COLUMBIA	<b>2</b>	3,316,025	4,239,870	8	72,234		113		107.0	05C,1 05C	23	3,200
FLORIDA	\$ 1	9, 167, 847	2,579,740	147,	2,868,228		1.281.601		36.508	75,45	103 041	105,574
GEORGIA	٤:	5,816,815	1,583,100	159	2,511,134		348, 186		20,02	20,00	400 L	756,757
TOWN!	<u> </u>	562,053	175, 703	2,5	797		149,001		4,838	7.545	451	20,00
SIONI	- 22	067,090,04	817,497	22,898	148,693		1,759,732		1,255	5.037	909	200
NDIANA	32	5,020,74	2,627,752	288, 113	1,411,809		1,380,564		51,845	84, 034	8.063	1.677,631
OWA	57	871 727 5	1,68,75	110,243	069,570		644,333		30,629	21,981	2,101	157,808
KANSAS	: 22	3,322,414	68, 39	0,0,0	1 074 285		141,744		9,189	18,455	3,516	59,876
KENTUCKY	25	6,002,014	1.760.641	77,031	1,465,964		7, 407		10,0	13,493	12,684	40,923
COUISIANA	M	5, 137, 781	3,575,880	80,772	1,261,168		525 277 8		17,057	751,45	45,754	85,923
AA I NE	ನಿ:	2,561,313	892,631	32,794	287,440		648, 155		885	771.4	, a	216, 106
MAKTLAND MASSACHISETTS	4	6,633,497	1,582,417	89,416	150,597		67,172		10, 161	26,825	47.7	15, 726
ATCHIGAN	- - - - -	8 811 058	1,824,402	192,730	3,925,258		1,301,220		18,646	54,474	98,822	99,065
HINNESOTA	25	8.269.487	4, 463, 215	707 701	115,754		325,650		24,489	38,869	27,780	379,375
HISSISSIPPI	3	3,404,700	1,724,836	51,019	630,819	27,120	172 612		21,742	23,038	26,230	94,509
MISSOURI HONTANA	8	6,699,171	3,250,407	95,916	700,633		1,430,905		10,01	27 AC	7,554	707,005
HUNIARA LEBDASKA	62	521,795	1,216,162	14,281	351,438		995,941		2,717	2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2	70,0	500,706
VEVADA	ň«	2,404,789	879,519	40,926	168,047		381,901		2,571	24,092	1.88.1	30,000
IEW HAMPSHIRE	°8	1,394,384	658, 297	201 '21 701 '21	285 080	129 2 530			2,772	5,012	283	27,428
NEW JERSEY	75	8	1,213,601	116.847	617, 378	712, C			69.	7,266	1,359	5,692
NEW MEXICO	8	2,567,765	1,317,319	37,456	1,902,447	9.542			7, 503	60 50 50 50 50 50 50 50 50 50 50 50 50 50	3,104	139,040
NEW TORK NORTH CARDITALA	3 <del>:</del>	24,264,590	2,217,390	615,570	4,016,511	288, 188			33,697	111,244	53, 126	12,016 175, 145
NORTH DAKOTA	2	200,000	902, 803	195,574	1,618,924	113,094			38,335	60,560	9,758	266.712
OHIO	14	13,577,120	4.016.208	0,50	1 421,430	729, 4			1,246	5,404	7.77	6,035
OKLAHOMA	9	3, 166, 164	B	66.192	2,619,046	77. EOC			42,391	42,555	707,67	241, 112
OREGON	3	4,553,981	457,	84, 291	592,849	49,046			7,755	77,77	3,586	53,826
PENNSTLVANIA DUCCE TO AND	202	12,707,796	3,947,884	235, 087	2, 164, 703	392,834			52,73	87,78	202,202	762,165
SOUTH CAROLINA	= %	7,554,100	777,357	33,800	953	1,067,262			2,158	4, 115	ב נה ה	1,004
	<b>\$</b> 2	1,206,312	835,430	26, 40	-	24,303			18,751	15,080	154,589	112,225
TENNESSEE	8	6,652,143	1.344,064	92,317	•	764,4 768,07			452	7,438	27,440	11,250
TEXAS	<b>3</b>	18,846,121	6,319,376	292,294		1.031,939			14,33	50,937	7,581	47.840
CEDIOLI	ដ	2,818,036	1,581,000	966 77	1 494 979	1,137	663,860	104,083	7,053	11,887	20,03	123,598
VIRGINIA	46	0 281 680	949, LCV	19,751	-	-			2,259	5,592	, Z	20.00
WASHINGTON	<b>*</b>	930,567	31,62	2,00 400 400 400 400 400 400 400 400 400	-	116,037			10,016	53,000	105,693	1,142,198
WEST VIRGINIA	8	1,775,127	916,682	37,12	396.747	₹			10,911	21,370	1,126	75,721
WISCONSIN	8	6,563,919	3,006,681	104,869					2 2 2 3 3	\$60'A	200	15,801
2112	`	444									4	

\* institutions with accreditation at the higher education level recognized by the Secretary of Education, 1990 A Nonresponse rates for Alabama and Washington were 36% and 46% respectively. See methodology. Source: 1990 IPEDS Academic Library Survey

Table 78: Number of unduplicated titles held at the end of the year in academic libraries by material collection category, and level and control of institution: 1990

Total Books Level and Control number of and bound Government of Institution libraries serials documents	Total number of libraries	Books and bound serials	Government documents	Current serial subscrip- tions	Book titles represented by microforms	Serial titles represented by microforms	Government doc. titles represented by microforms	Audio materials	Filas	Video materials	Machine readable materials	Other library materials
ALL HIGHER EDUCATION INSTITUTIONS *	3,274	3,274 307,462,109 100,725,202	100,725,202	677'672'5	5,749,449 49,363,854	9,826,516	45,076,354	45,076,354 10,358,031	776,168	1,512,054	1,839,037	9,497,708
TOTAL FOUR YEAR AND ABOVE	1,997	272, 129, 099	98,991,185	5,379,094	48,001,552	9,199,094		43,549,990 8,683,343	527,086	903,451	1,419,386	8,580,756
DOCTORATE	887	146,009,587	61,056,714	3,797,621	27,258,320	3,957,935	26, 287, 614	4,867,425	283,753	365,654	760,120	5,921,755
MASTERS	827	88,032,962	32,890,340	1,172,094	18,563,503	4,813,088	14,910,490	2,633,738	166,316	339,965	361,333	1,886,636
BACCALAUREATE	682	38,086,550	5,044,131	409,379	2,179,729	428,071	2,351,886	2,351,886 1,182,180	210,77	197,832	297,933	772,365
LESS THAN FOUR YEAR	1,277	35,333,010	1,734,017	370,355	1,362,302	627,422	1,526,364	1,526,364 1,674,688	249,082	608,603	419,651	916,952
TOTAL PUBLIC	1,504	182,976,220	79,119,859	3,572,586	34,707,531	6,495,036	29,940,278	5,604,141	625,361	1,070,938	1,541,011	6,183,414
TOTAL PRIVATE	1,770	1,770 124,485,889	21,605,343	2,176,863	2,176,863 14,656,323	3,331,480		15,136,076 4,753,890 150,807	150,807	441,116	298,026	3,314,294
			***********		- 4							*********

\* Institutions with accreditation at the higher education level recognized by the Secretary of Education, 1990

Table 8A: Number of unduplicated titles added during the year by material collection category, and by state: 1990 ALL HIGHER EDUCATION INSTITUTIONS \*

S. W. C.		Total number of	Books and bound	Government	Current serial subscrip-	Book titles represented by	Serial titles represented	Government doc. titles represented	Audio		Video	Machine	Other
Market   M		. IDraries	seriais	documents	tions	microforms	by microforms	by microforms	materials	Films	materials	materials	materials
MAKSON  MAKSON	STATES &	3,274	9,416,873	4,535,181	224,341	1,960,916	422,902	3,352,037	725'777	26,505	247,346	146,822	246,992
## 15   15   15   15   15   15   15   15	_	윤,	223,927	112,518	2,961	19,563	16,357	136,590	2,769	372	4,219	299	926
Marie   Mari	ARIZONA	٥¥	34,308 54,808	14,024	360	13,589	37	43,680	514	667	062	82	12)
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	ARKANSAS	NS.	63, 193	81.859	2,612	27 123	72.9 00 00 00 00 00	7, 7,6	3,427	330	2,289	541	2,293
1,0,000   1,0,	CALIFORNIA	284	878,907	100,313	24, 743	100,746	46.265	122,874	17,225	) Y	15,961	1 224	760,4
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	COMMECTICIT	77	176,362	183,606	3 407	154,883	10,001	32,220	3,845	424	4, 189	055,4	3,141
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	DELAMARE	ĵ÷	15/,084	22,055	1,637	4,115	6,296	15,571	8,850	8	3,191	1,294	10,413
2.6.5.6.0         2.6.5.6.0 <t< th=""><th></th><th><u> </u></th><th>279.86</th><th>12, 100</th><th>2,7</th><th>2,472</th><th>4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5</th><th><b>0</b> r</th><th>55.</th><th>2,456</th><th>247</th><th><u>8</u></th><th>780</th></t<>		<u> </u>	279.86	12, 100	2,7	2,472	4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	<b>0</b> r	55.	2,456	247	<u>8</u>	780
1.		8	429,639	77,060	965	6,281	3,58	116 160	2,042 8,42	37	1,547	22,	1,369
1, 25,485   1, 600   1, 173	GEORGIA	ድ :	260,660	04,970	2,914	415,932	11,293	45.371	8 262	, , , , ,	7,75	772	2,708
15   15   15   15   15   15   15   15	IDAHO	<b>*</b> :	23,436	8,300	811	10	1,179	13,801	2,610	5	2,595	336	585
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	ILLINOIS	158	364, 155	707 200	11 024	18,903	200	606,97	4, 321	150	886	ଯ	570
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	INDIANA	K	177,096	77,501	4, 147	3,063	1,188	109,764	10,684	907	14,087	787	9,601
3.3. 166,823         7,570         2,570         2,590         97,994         97,9	NAO!	57	142,989	51,715	3,358	15, 184	18,920	14,471	4.488	377	, v.	- 67 67 7	, 10, 4, 20, 4, 10, 4,
33. 10,100         16,772         5,770         5,730         17,972         2,544         110         16,764         16,77         1,625	KENTIICKY	25	84,683	66,871 156,871	1,515	44,374	330	41,999	2,330	33	2,699	3.8	1,152
25         25         75         76         27         10         75         76         75<	LOUISIANA	M	140,820	20,473	2,940	25,312	2,504	87,411	8,923	2,164	5, 126	1,200	5,067
54         203,777         113,688         1,656         11,616         4,699         1,656         11,616         4,699         1,656         11,616         4,699         1,656         1,617         1,618         1,112         2,550         1,656         1,617         1,618	MAINE	8	75, 798	27,102	687	07L	116	%66°/61	20,891	<b>1</b> 2	1,675	6,207	10, 934
7. 254, 472 11, 458 8 142 5, 442 1, 112 5, 371 11, 25 1, 371 11, 3	MARYLAND	25	203,777	178,878	6,045	18,988	1,658	, e-	4, 14,	14	474	4364	542
74         256,717         74,57         7,57         16,78         7,620         7,640           74         256,717         19,888         80,282         2,416         26,567         1,033         181,927         1,425         1	MASSACRUSELLS	21.	334,856	113,698	8, 162	25,482	1,112	57,	17,283	132	893	17.372	2,07
4.2         197, 1836         60,282         2,311         4,172         1,035         113,637         1,124         3,670           19, 1836         19,182         2,311         4,172         1,035         11,035         113,637         1,134         1,124         3,670           19, 28,417         26,4112         1,033         12,506         101         2,335         1101         30         5,139           28, 219         46,112         1,033         12,506         103         101         3,130         1,137         1,138         1,138         1,138         1,138         1,138         1,138         1,138         <	MINNESOTA	2.2	266.473	747,747	5,808 4,44	4,367	9,499	45,	9,937	3,469	7,640	2,972	18,489
175   147   166 746   2,943   17,952   1,034   15,193   97,304   130   5,130   130   5,130   1	MISSISSIPPI	45	91,828	80,282	2,311	4,172	1.033	182,	18,836	1, 124	3,670	761	1,917
3. Weight         4.0         4	MISSOURI	85	179 147	169,746	2,943	17,952	1,054	115,	97,396	130	5,139	767	, k
8         6,253         51,523         7,581         28,985         1,193         20,087         6,098         1,512         1,572         1,173         1,572         1,572         1,572         1,572         1,572         1,572         1,572         1,572         1,572         1,572         1,572         1,572         1,572         1,572         1,572         1,572	MEBRASKA	× 75	77,67	26, 166	1,039	12,506	20,755	790	597	2	598	8	583
28         77,581         28,985         1,188         632         188         6,998         1,525         1,525         1,615         40,998         1,525         1,426         1,615         4,436         1,615         4,436         1,615         4,436         1,615         4,436         1,615         4,1377         1,015         1,746         1,746         1,746         1,747         1,746         1,747         1,746         1,747         1,746         1,747         1,	HEVADA	<b>~</b>	6,253	51.523	7,000	450.421 0	300 151	28,	1,012 210,013	8,	2,395	234	1,315
263 888,546 76,626 6,676 1,489 20,067 6,162 86,982 4,428 143 4,486 20,067 11,015 11,015 14,776 11,015 14,776 11,015 14,776 11,015 14,776 11,015 14,776 11,015 14,776 11,015 14,776 11,015 14,776 11,015 14,776 11,015 11,01	KEL HAMPSHIRE	82	77,581	28,985	1,188	632	188		1,362	<b></b>	575	3%	5,565 5,565
A         263         888,546         76,725         20,176         167,772         11,059         140,667         116,746         20,954           20         161,809         12,285         25,526         15,489         146,647         11,825         2,889         20,954           20         15,800         25,526         15,489         146,647         11,825         2,889         20,954           46         15,800         253,516         11,374         27,198         19,437         17,739         8,187           46         15,800         253,516         14,37         92,256         6,932         52,693         1,739         8,187           46         14,626         73,187         4,49         17,779         17,739         8,187           46         14,137         92,256         6,932         52,693         1,739         8,187           202         403         17,184         17,779         17,779         1,710           202         403         17,184         17,779         1,710         1,710           202         403         12,284         17,779         1,710         1,710           202         21,095         12,284 <td< th=""><th>NEW MEXICO</th><th>* %</th><th>148,062</th><th>92,261 55,751</th><th>6,499</th><th>20,067</th><th>6, 162</th><th></th><th>4,428</th><th>143</th><th>4,486</th><th>320</th><th>3,965</th></td<>	NEW MEXICO	* %	148,062	92,261 55,751	6,499	20,067	6, 162		4,428	143	4,486	320	3,965
March   118	NEW YORK	263	888,546	76,925	20 176	167,731	11 058		14,746 20,275	88	1,060	439	37
141         411,377         901         77,198         19,377         1015         1,015	NORTH CAROLINA	€ 5	427,820	161,809	12,285	25,526	15,489		11.825	236 236	11,938	7,554	1,94,7
46         96,556         73,040         1,534         57,440         6,910         77,198         19,435         1,739         8,387           46         15,566         73,040         1,437         2,044         10,134         4,577         40         2,901           202         403,275         26,555         55,907         19,154         180,408         17,790         555         9,756           11         41,320         31,095         873         254         248         17,790         555         9,756           14         87,225         403         16,850         1,734         375         1,402         3,901           19         28,489         32,286         403         16,850         1,734         375         1,402         3,901           19         28,489         32,286         403         16,850         1,734         375         1,402         3,901           107,649         44,105         3,006         28,349         68         86,233         8,557         672         5,651           13         101,647         35,944         17,379         1,164         18,865         1,17         1,17           12         28,673 <th>OHIO</th> <th>77.</th> <th>20, CZ,</th> <th>20,783</th> <th>233</th> <th>25</th> <th>364</th> <th></th> <th>901</th> <th>^</th> <th>1,015</th> <th>57</th> <th>202</th>	OHIO	77.	20, CZ,	20,783	233	25	364		901	^	1,015	57	202
46         154,892         58,174         2,307         37,187         449         11,374         4,577         40         2,901           202         403,275         24,563         53,907         19,154         180,408         17,779         555         9,736           11         41,123         23,613         4,939         236         1,259         50,192         6,336         1,402         3,901           19         28,489         32,286         4,03         16,850         1,77         25,653         50,192         6,336         1,402         3,901           19         28,489         32,286         4,03         16,850         1,77         5,651         6,736         1,402         3,901           107,649         44,105         3,006         28,349         68         86,233         8,557         672         5,631           13         101,649         17,379         1,164         18,855         1,164         18,855         1,164         18,855           13         101,649         17,379         1,164         18,855         1,164         18,855         1,164         18,855         1,164         1,102         1,102         1,102         1,102         1	OKLAHOMA	9	96,556	73,040	1,437	92,256	6,101		19,435	1,739	8,387	4,487	6,149
A         4.03, 273         24, 563         53,907         19,154         180,408         17,790         555         9,756           A         41,320         31,095         24, 563         53,907         19,154         180,408         17,790         555         9,756           B         41,320         31,095         24,399         236         1,259         50,192         6,336         1,402         3,901           B         28,489         32,286         403         16,850         16,850         16,850         1,759         5,651         2,402         3,901           B         28,489         32,286         403         16,850         28,349         68         86,233         8,557         672         5,651           15         101,649         27,002         184,584         17,379         1,164         18,865         1,702         4,702         3,319           22         56,733         30,982         2,236         4,444         2,702         4,162         3,319           22         56,733         30,983         3,992         2,236         4,444         2,702         4,162         3,702           24         32,046         6,883         3,992 <th>OREGON</th> <th>946</th> <th>154,892</th> <th>58, 174</th> <th>2,307</th> <th>37,187</th> <th>677</th> <th></th> <th>4.577</th> <th>207</th> <th>, ecy</th> <th>2, 2,</th> <th>5,746</th>	OREGON	946	154,892	58, 174	2,307	37,187	677		4.577	207	, ecy	2, 2,	5,746
A         64         87,828         40,235         4,399         234         1,347         375         1,400         321           19         28,489         32,286         403         16,850         1,47         25,653         50,192         6,336         1,402         3,901           19         28,489         32,286         403         16,850         147         25,653         50         2,336         1,402         3,901           16         622,346         265,931         8,697         217,846         27,002         184,584         17,379         1,164         18,865           13         101,543         278,909         4,65         80,184         27,002         184,584         17,379         1,164         18,865           22         52,673         30,198         583         3,992         2,236         44,444         2,201         4         1,702           24         32,046         7,334         30,983         3,622         70,287         5,748         169         6,703           28         27,026         31,088         3,597         44,444         2,702         4,162           28         32,046         7,739         7,164 <td< th=""><th>RHODE ISLAND</th><th>¥=</th><th>405,275</th><th>208,755</th><th>24,563</th><th>53,907</th><th>19, 154</th><th></th><th>17, 790</th><th>555</th><th>9,756</th><th>4, 183</th><th>7,168</th></td<>	RHODE ISLAND	¥=	405,275	208,755	24,563	53,907	19, 154		17, 790	555	9,756	4, 183	7,168
AKOTA 19 28,489 32,286 403 16,850 147 25,653 570 1,402 3,901 27,002 184,584 17,379 1,164 18,865 13,199 52,673 30,198 583 8,557 672 5,651 101,649 (4,105 3,006 28,349 668 86,233 8,557 672 5,651 101,649 22,545 30,198 583 3,992 2,237 44,441 2,201 4 1,715 41 3,319 101,804 5,622 7,022 14,622 11,028 5,878 169 6,783 101,804 5,788 169 6,783 101,804 5,788 169 6,783 101,804 5,788 169 6,783 101,804 6,783 11,715 11,71	SOUTH CAROLINA	:3	87,828	40,235	4.399	3.5	750		375	1,400	35.	62	365
ECT 107,649 44,105 3,006 28,349 668 86,233 8,557 672 5,651 66 622,346 265,931 8,697 211,846 27,002 184,584 17,379 1,164 18,865 13 101,543 278,909 6,65 80,184 57 37,144 17,379 1,164 18,865 17,715 41 3,319 101,543 101,543 101,543 101,543 101,543 101,543 101,543 101,543 101,543 101,543 101,543 101,543 101,544 17,715 41 3,319 17,715 101 17,715 101 17,715 101 17,715 11 11 11 11 11 11 11 11 11 11 11 11 1	SOUTH DAKOTA	29	28,489	32,286	403	16,850	147		205 206	- 40¢	10%,c	505. 205.	3,865
13 101,532 20,531 6,997 (11,846 27,002 184,584 17,379 1,164 18,865 13,194 13,319 1,164 18,865 13,195 13,195 1,104 18,865 13,196 13,199 1,104 18,865 13,195 1,102 1,105 1	- CAMESONE: TRKAS	24	107,649	44, 105	3,00 20,00 1,00 1,00 1,00 1,00 1,00 1,00	28,349	899		8,557	672	5.651	1.901	2, 150
A 77 359,673 30,198 583 3,992 2,236 44,44 2,101 41 5,319 100 100 100 100 100 100 100 100 100 1	UTAH	<u> </u>	101,543	278,909	760.0 597	217,846 80,18,	27,002		17,379	1,1 2,1	18,865	1,919	9,419
TON 54 359,518 85,876 7,394 30,983 6,622 70,287 5,748 169 6,783 100 8,783 10	VERMONT	21	52,673	30, 198	583	3,992	2,236		202	ţ,	3,319	249 17E	4,94 4,04
RGINIA         28         27         1,850         1,106         4,162           10         4,162         3,330         445         5,957         611         39         1,715           10         147,191         147,396         4,206         13,826         51,476         84,808         13,029         146         9,332           13,199         1,532         380         2,808         97         1,329         630         308         642	VINCENTAL A LANGE OF THE PROPERTY A LANGE OF THE PROPE	<b>:</b> 2	359,518	85,876	7,394	30,983	6,622		5,748	169	6.783	107	18 075
IN 60 147,191 147,396 4,206 13,826 51,476 84,808 13,029 146 9,332 13,199 1,532 380 2,808 97 1,329 630 308 642	WEST VIRGINIA	<b>*</b> 8	27,022	31,085	2027, 2027,		637		1,850	1,106		27	242
5, 199 1,532 380 2,808 97 1,329 630 308 642	WISCONSIN	9	147, 191	147, 396	4,206		51,476		13,020	ş <u>1</u>		88	98 5
	a contract to the contract to	•	13,199	1,532	380		. 97		630	308		56,296	, ,

Institutions with accreditation at the higher education level recognized by the Secretary of Education, 1990
 Nonresponse rates for Alabama and Washington were 36% and 46% respectively. See methodology.
 Source: 1990 IPEDS Academic Library Survey

Table 8B: Number of unduplicated titles added during the year by material collection category, and by level and control of institution: 1990

Level and Control of Institution	Total number of libraries	Books and bound serials	Government documents	Current serial subscrip- tions	Book titles represented by microforms	Serial titles represented by microforms	Government Government doc. titles represented by microforms	Audio materials	Films	Video materials	Machine readable materials	Other library materials
ALL HIGHER EDUCATION INSTITUTIONS *	3,274	9,416,873	4,535,181	224,341	1,960,916	422,902	3,352,037	725'777	26,505	247,346	146,822	246,992
TOTAL FOUR YEAR AND ABOVE	1,997	8,173,702	4,335,306	191,795	1,917,196	364,032	3,233,791	388,058	22.466	144,553	175 716	185 658
DOCTORATE	488	4,513,862	2,478,879	121,677	829,784	86,032	1,679,295	252,088	15,884	52,997	79,855	966.79
) MASTERS	827	2,435,992	1,555,428	726'97	1,031,228	175,541	1,309,109	74,606	4,302	58,982	25,598	64,623
BACCALAUREATE	682	1,223,848	300,999	23,144	56, 184	102,459	245,387	61,364	2,280	32,574	20,261	22,839
LESS THAN FOUR YEAR	R 1,277	1,243,171	199,875	32,546	43,720	58,870	118,246	56,516	4,039	102, 793	21,108	61,534
TOTAL PUBLIC	1,504	5,601,191	3,397,375	124,059	1,430,479	318,226	2,336,996	294,061	21,367	164,949	103,779	159,255
TOTAL PRIVATE	1,770	3,815,682	1,137,806	100,282	530,437	104,676	1,015,041	150,513	5, 138	82,397	43,043	87,737
			, , , , , , , , , , , , , , , , , , , ,			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		3651111111				

\* institutions with accreditation at the higher education level recognized by the Secretary of Education, 1990

Table 9A: Total number of library loan transactions by type of transaction, in academic libraries by state: 1990 ALL HIGHER EDUCATION INSTITUTIONS \*

	Total	Circul	Circulation	provided	received
State	number of Libraries	General collection	Reserve collection	to other libraries	from other libraries
TOTAL 50 STATES & DC	3,274	159,837,737	38,928,833	6,576,111	4,199,269
ALABAMA	83	2,581,946	348,605	60,367	33,457
ALASKA	۱,۵	394,453	94, 352	20, 139	17,415
AKIZUNA	4	2,815,747	346,879	102,581	44,432
TAI LEORNIA	78,0	17,744,534	20,707	41,737	728,05
COLORADO	33	2,471,234	395 802	151,712	124,000
CONNECTICUT	42	1,717,383	493,226	94, 289	51,73
	1	1,198,746	134,508	15,254	7 527
DISTRICT OF COLUMBIA	16	1,602,356	335,414	37,630	19,581
FLORIDA	31	4,857,478	1,206,154	155,007	104,015
GEORGIA	٤:	2,640,312	833,546	124,520	58,624
TOAKO	<b>₹</b>	796,847	919,63	9,438	6,696
SIONLEIL	- 12 R 22	C77 785 0	2 0.8 250	787	10,01
INDIANA	}.	3,655,681	1,235,523	158 541	125,715
IOWA	57	2,176,686	824,219	174.494	69,454
KANSAS	52	2,260,688	1,095,726	116,980	81,455
KENTUCKY	<u> </u>	2,118,005	423,367	75,666	702 67
LOUISIANA	23	2,111,008	307,664	57, 782	52,649
MAINE Mady! aud	20	627,827	271,002	55,902	55,994
MASSACHISETTS	1,5	1,431,150	27, 25, 6	102,765	72,173
MICHIGAN	8	5,355,237	1.359.727	172, 170	103,707
MINNESOTA	7.4	3,233,630	986.826	260, 739	147,407
MISSISSIPPI	75	1,369,091	346,954	27,262	18, 775
HISSOCKI	85	3,382,091	581,216	123,732	86,104
NEBRASKA	<u>^</u> %	410,037	137,411	747,12	22,516
NEVADA	, eo	404.878	112.778	14,004	15,58
NEW HAMPSHIRE	8	915,479	304, 709	37,312	30,264
	35.	3,451,854	610,559	128,980	74,316
NEW MEXICO	8;	1,237,996	274,707	35,739	31,563
NEW TORK	0 =	7/6,144,21	4,505,766	518,957	321,619
NORTH DAKOTA	25	600 AD	121 044	28, 26	044.47
OHIO	141	5.605,551	2.028.653	282,002	103,701
OKLAHOMA	9,	1,550,197	366,729	88, 174	52,722
OREGON	97	2,351,713	584, 783	86,552	61,307
PENNSYLVANIA	505 505	7,578,622	1,412,301	332,466	210,569
RHODE ISLAND	<u>;</u> ;	784, 193	294,779	34,826	16,770
SOUTH CAROLINA	8 9	6/4/566,	384.607	48,822	45,215
TENNESSEE	\$	2 017 461	767 882	747,247	267,92
TEXAS	1,5	12,042,888	2 228 357	326, 527	202,327
UTAH	<u>5</u>	1,416,723	401,542	42.246	45,430
VERMONT	55	659,360	238,515	28,294	27,965
VIRGINIA	23	4,004,944	1, 187, 208	137,097	78 779
WEST VIRGINIA	* 8	1,070,049	269, UC3	24,600	34,46
UTSCOWETE	1 9	1000			
	3	4.005.225	176.786	192,623	110.514

\* Institutions with accreditation at the higher education level recognized by the Secretary of Education, 1990 A Monresponse rates for Alabama and Washington were 36% and 46% respectively. See methodology.

Table 98: Total number of library loan transactions by type of transaction, in academic libraries by level and control of institution: 1990

Level and Control of Institution	Total number of libraries	General General Collection	General Reserve	Loans provided to other (ibraries	Loans received from other libraries
ALL HIGHER EDUCATION INSTITUTIONS *	3,274	159,837,737	38,928,833	6,576,111	4,199,269
TOTAL FOUR YEAR AND ABOVE	1,997	133,451,444	33,527,221	6,268,088	3,836,921
DOCTORATE	887	84,090,099	20,831,103	4,584,543	2,308,707
MASTERS	827	37,294,632	9,243,501	1,298,242	1,056,324
BACCALAUREATE	682	12,066,713	3,452,617	385,303	471,890
LESS THAN FOUR YEAR	1,277	26,386,293	5,401,612	308,023	362,348
TOTAL PUBLIC	1,504	110,909,371	24,978,911	4,603,949	2,751,883
TOTAL PRIVATE	1,770	48,928,366	13,949,922	1,972,162	1,447,386

\* Institutions with accreditation at the higher education level recognized by the Secretary of Education, 1990 Source: 1990 Academic Library Survey

State   Libraries   Libraries	; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	Total		Less	20	07	09	80	100	120	
MARCHARIAN   Colorado   Colorad	State	number of libraries	All libraries	than 20	390	59 24	32	<b>3</b> 26	119 119	or More	
A MARANA 6 6 5 72 7 3 5 2 2 2 2 4 4 12 12 12 13 13 13 13 13 13 13 13 13 13 13 13 13	50 STATES		283,980	16	35	380	1,454	973	315	101	
ALMANA A MANA A		18	5,747	M	2	5	35	23	7	-	
ARKARSKIN SECTION OF COLUMB A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ALASKA	<b>9</b> ¦	788	0	0	0	_	'n	0	0	
COLUMBRIA   COLU	AK1 ZONA ABYANSAS	35	2,782	0	٥.	ω.	გ:	ın ;	K)	~	
CONNECTION COUNTY CONTROLLAND	AKKANGAS CAI TEORNIA	C 80	2,009	⇒ ი	- N	4 ;	18	;	<b>-</b> - ;	0;	
COMMERCITOR OF COLUMBIA 16 5 17 17 17 17 17 17 17 17 17 17 17 17 17	COLORADO	**************************************	2,045	V =	n -	4 4 n	144	3.	4,	2.	
DELAMARE DELAMARE DELAMARE HORINA HOR	CONNECTICUT	42	7 N	- 0	- n	٠5	ō ₹	<u>.                                    </u>	<b>0 4</b>	- c	
DISTRICT OF COLUMBIA   16   2,350   0   0   3   5   5   5	DELAWARE			, o	10	io	īν	<u> </u>	۰ ۵		
Control   Cont	DISTRICT OF COLUMBIA		2,390	. 0	0	M)	'n	ı M	1 4	<b>-</b>	
HAMILION HAME TO SECURE THE SECURITY OF SE	FLORIDA	<b>%</b>	8,921	0	-	ዑ	65	Ŋ	∙ <b>√</b> 0	•	
The part of the	GEORGIA	٤:	5,914	0	-	~	77	ĸ	7	0	
Color   Colo	TOBEO	<del>4 -</del>	1,031	00	0	4.	ın ı	Μ,	~	0	
The problem	STORE	- 1.	12 027	<b>-</b>	<b>-</b>	- r	<b>1</b> 6	۱.	-;	٥,	
CAMPANA   CAMP	INDIANA	35	20,75	<b>u</b> c	<b>,</b>	,	2 0	ņř	<u>.</u>	(	
KENTUCKY 57 3,733 0 0 0 6 3 1 1 1 1 1 1 1 2 1 2 1 1 1 1 1 1 1 1 1	IOWA	57	16.097	<b>.</b>	-	~ tr	, t	8 %	~ ¤	<b>4</b> K	
HANTICKY HAN	KANSAS	25	3,839		•	14	, k.	3 4	<b>-</b>	n C	
MANINESTRAM  MATINE  M	KENTUCKY	25	3,573	0	, <b>e</b>	- κο	14	<u>5</u>	- <b>ເ</b>	د	
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		6	728	0	0	0	9	~	0	-	

\* Institutions with accreditation at the higher education level recognized by the Secretary of Education, 1990 A Nonresponse rates for Alabama and Washington were 36% and 46% respectively. See methodology. Source: 1990 IPEDS Academic Library Survey

ries by category of public service hours per typical

Table 108: Public ser week in ac	rvice hours sademic libr	service hours per typical week n academic libraries by control	and number of libraries by category or public service modes and type of institution: 1990	of librarie institutio	s by categ n: 1990	nand to Yao	מפוגונים		
i ol	Total number of libraries	All	Less than 20	20 to 39	40 to 59	92¢	828 828	100 to 119	120 or more
OT INSTITUTIONS ALL HIGHER EDUCATION INSTITUTIONS *	3,274	283,980	16	35	380	1,454	973	315	101
TOTAL FOUR YEAR AND	1 007	185,195	<b>8</b> 0	16	108	585	891	308	84
ABOVE	887	55,215	<b>-</b>	~	19	63	506	138	χ 20
DUCTURALE	827	76.367	2	īU	31	197	463	114	ξ.
MASIEKS BACCALAUREATE	285 <b>6</b> 82	53,613	ις	٥	58	322	222	26	5
LESS THAN FOUR YEAR	1,277	98,785	æ	19	272	872	82	<b>~</b>	17
TOTAL PUBLIC	1,504	134,313	4	~	142	802	399	101	67
TOTAL PRIVATE	1,770	149,667	12	28	238	652	725	214	52
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1		,				• • • • • • • •		

\* Institutions with accreditation at the higher education level recognized by the Secretary of Education, 1990

Source: 1990 IPEDS Academic Library Survey

Table 11A: Number of individuals served per typical week by type of library service in academic libraries by state: 1990

State	Totat number of libraries	Attendance in Library	Reference transactions	Online database searches	Information t o g r Number of presentations	on service r o u p s Number of persons served
TOTAL 50 STATES & DC	3,274	13,093,832	1,766,823	166'72	14,116	276,010
ALABAMA	81	151,032	22,091	1.300	238	<b>Y</b> 05 7
ALASKA	9	27,239	15,501	136	; E3	
ARIZUNA ARKANSAS	<b>ፈ</b> ኢ	204,580	25,466	367	107	2,079
CALIFORNIA	585 587	810,577	264.c	2622	623	3,951
COLORADO	77	224,651	21.389	202	876	820,45
CONNECTICUT	45	157,952	18,848	784 786 786	117	3,83
ŧ	은 ;	62,608	5,837	<sub>N</sub>	23	55.
PISIKICI OF CULUMBIA FIORIDA	<u>9</u> 8	136,760	14,903	1,134	289	6,577
GEORGIA	12	20,007	186,67	4,955	438	8,90
HAWAII	. 2	87,319	7,004	<u> </u>	761	12,86
IDAHO	Ξ	87,186	6,425	07	£77	),69 7.27
ILLINOIS	158	679,501	74, 172	1.375	267	7.
INDIANA	7	243,677	32,723	623	) <del>(</del>	16.7
AMO!	25	308,370	20,218	616	141	7,1
KANSAS	22	136,503	15, 153	861	292	2,22
KENTUCKY	7.7	190,546	23,130	412	502	16.4
LOUISIANA	25	224, 751	17, 153	1,240	180	3,22
27.7E	Q.	83,030	4,391	131	29	1.16
MAKSACHISETTS	ų į	261,956	767 SZ	3,284	182	3,62
MICHIGAN	- - - - -	200,002	24,478	5,725	1,514	15,20
MINNESOTA	22	204,020	504,00	0,4,7 0,4,7	122	14,686
MISSISSIPPI	9	122,037	77, 71	7,00	85	3,99
MISSOURI	, %	27. 970	٠.	508,		6,625
HONTANA	3 2	47,557	140,702	500	250	4,357
NEBRASKA	35	117,085	400,0	2 6	8	1,191
NEVADA	60	200 67	200 7	202	22	1,687
NEW HAMPSHIRE	28.	67.587	085	ŧ	2 €	56,1
NEW JERSEY	'n	345, 143	717	222	202	C
NEW MEXICO	%	102, 157	8.307	<u>.</u>	200	7
NEW YORK	263	1,259,319	133,289	8.066	25.5	270,2
NORTH CAROLINA	118	382,328	45,837	2,142	525	10
NOKIH DAKOTA	₽;	60,389	3,156		27	í
	141	488,401	51,949	2,451	353	7
JAKLAHUMA	9	154,801	17,450	460	340	7,83
	9	143,601	15,692	5,066	12	3,007
PERMUTEVANIA DECOME TOTAND	;	695,830	49,735	2, 161	539	88.88
SOUTH TABLE TAB	_ 3	76,819	60,203	3,726	1.4	52
SOLITE DAKOTA	<b>8</b>	CX,0C	17, 168	300	167	3,279
TENNESSEE	<u>~ 6</u>	105,391	2,752	<b>S</b> į	** **	0.29
TEXAS	3 2	270,078	C4, 24	G	220	4,178
UTAH	<u>;</u>	141 141	70,030	5,7	269	14,46
VERMONT	22	63,335	20.00	747	8.	1,254
VIRGINIA	22	274, 838	31,319	1 504	280	267
ASHINGTON	77.	98,503	19,933	134	126	2,400
WEST VIRGINIA	<b>58</b>	67,846	20,350	281	<u></u> &	2, X3
VISCONSIN	<b>&amp;</b> '	321,975	35,850	1,090	248	25.7
A CALNE	•	27,500	3.476	87	<b>*</b>	787

23

Table 118: Number of individuals served per typical week by type of library service in academic libraries by level and control of institution: 1990

-	Total number of	Attendance	Reference	Online	Information to g	Information service to group service
of Institution	libraries	in Library	transactions	searches	presentations	persons served
ALL HIGHER EDUCATION INSTITUTIONS *	3,274	13,093,832	1,766,823	74,991	14,116	276,010
TOTAL FOUR YEAR AND ABOVE	1,997	10,232,261	1,435,183	55,640	9,218	170,710
DOCTORATE	488	5,842,607	752,626	36,820	791,4	61,449
MASTERS	827	3,239,163	578,769	11,784	3,240	72,028
BACCALAUREATE	682	1,150,491	103,788	7,036	1,811	37,233
LESS THAN FOUR YEAR	1,277	2,861,571	331,640	19,351	4,898	105,300
TOTAL PUBLIC	1,504	9,257,979	1,341,416	44,968	8,901	192,792
TOTAL PRIVATE	1,770	3,835,853	425,407	30,023	5,215	83,218

\* Institutions with accreditation at the higher education level recognized by the Secretary of Education, 1990

#### **METHODOLOGY**

Scope. The Academic Libraries survey was mailed to 3,932 postsecondary institutions in August 1990. This included 3,620 higher education institutions and 312 other postsecondary institutions that had one or more instructional programs of 4 years or more.

Of the 3,620 higher education institutions, the 65 institutions that did not have their own library but shared a library with one or more of 34 other institutions were excluded from the survey, as were the 65 institutions in Outlying Areas and 216 institutions that were found to be out-of-scope because they did not have an academic library as defined by the survey. An Academic Library is defined as an organized collection of printed, microform, and audiovisual materials which (a) is administered as one or more units, (b) is located in one or more designated places, and (c) makes printed, microform, and audiovisual materials, as well as necessary equipment and services of a staff, accessible to students and to faculty. This includes units meeting the above definition which are part of a learning resource center. The library is operated by a postsecondary education institution. Thus there were 3,274 academic libraries in the colleges and universities in the 50 States and District of Columbia.

Only 71 of the 312 other postsecondary institutions mailed to responded to the 1990 academic library survey. We therefore can not produce statistically acceptable estimates for that group of institutions.

New Data Collection Procedures for 1990. In July 1990, an NCES/IPEDS academic library survey improvement project was begun with the assistance of the National Commission on Libraries and Information Science (NCLIS) and the American Library Association's Office of Research and Statistics (ALA-ORS). The project identified a librarian in each state to work with the Integrated Postsecondary Education Data System (IPEDS) Coordinators in submitting library data to NCES. For the 1990 data collection, some of those library representatives took major responsibility for collecting data in their state. Others were available to promote prompt responses from librarians and to assist in problem resolution when anomalies were discovered in completed questionnaires.

The project also assisted NCES in developing a microcomputer software package prepared for use by states in reporting library data to NCES. The software package was named Input and Data Editing for Academic Library Statistics (IDEALS). Academic librarians within each state completed hard copy forms as in the past and returned them to the state's library representative or IPEDS Coordinator. States were given the option of submitting the library forms to NCES but were encouraged to enter those data into IDEALS and submit the data on diskette to NCES. Thirty-eight states and the District of Columbia chose the diskette option.

IDEALS features some internal consistency edit checks as well as a few range checks and summation checks. Library representatives at the state level could run edit/error reports and make corrections before submitting the data on diskette to NCES.

Editing and Imputation. The IDEALS computer program described above includes many edit checks providing some warnings as the data are being keyed and provides an edit/error report after the data have been keyed. Examples of these edit checks are listed below:

- (1) Summations reported totals are compared with the sums of the constituent data items. If they are not equal, an error message is generated.
- (2) Relational edit checks the program compares data entries from one section of the questionnaire with data entries from another section of the questionnaire for consistency. For example, if print materials were added to during the fiscal year the program would expect some expenditure to be reported for print materials. If one is reported without the other an error message is generated. Another example is the number of volumes of print materials added during the fiscal year cannot exceed the total number of volumes held at the end of the fiscal year.
- (3) Range checks examples: If the average salary of librarians is less than \$20,000, or greater than \$100,000, an error message is generated. If any of the collections data, except for volumes held at the end of the year is greater than 1,000,000, an error message is generated. If the reported hours of service is less than 10 hours per week or greater than 168 hours per week an error message is generated.

When probable errors were identified by the IDEALS edit checks, state personnel attempted to contact the institution to resolve the problem.

After the data were received by NCES from every state, the data files were merged and general edits and imputations were performed. Some examples follow.

If a total was blank or zero, but there were one or more positive subtotals the total was changed to equal the sum of the subtotals.

If, for a given record, there was a reported total but all subtotals were either zero or blank, then it was assumed that the subtotals should have positive values, and values were imputed. For purposes of imputation, the higher education file was divided into 16 imputation classes based upon highest level of degree (Doctor's, Master's, Baccalaureate, and Associate), and by control and size of institution (public, less than the median number of degrees; public, equal to or greater than the median; private, less than the median; private, equal to or greater than the median). To calculate the imputed value for a subtotal, the average estimate was

calculated across the set of respondents including ones for which the total was obtained by adding the subtotals, but excluding those for which the sum of the subtotals did not originally equal the total. The average subtotal value was divided by the average total value within each imputation class to obtain an average proportion, and the average proportion was multiplied by the reported total to obtain the imputed subtotal value.

If, for key items total staff (Part B, line 6) and total operating expenditures (Part C, line 24), the total and all subtotals were blank or zero, they were imputed by using the average by imputation class from the set of respondents described above. Zero is not a valid entry for those key items.

Values were also imputed for the key items book volumes held at the end of the year (Part D, line 25, column 2) and general collection circulation transactions (Part E, line 41). Imputation was done from a set of valid responses (including only positive values for these items) by imputation class for both partial respondents and complete nonrespondents. Of the 3,274 college and university academic libraries, 425, or 13.0 percent, were complete nonrespondents.

For all other items blank responses were changed to zeroes for the partial respondents. The average of the values for complete and partial respondents was then imputed for the set of complete nonrespondents. Tables A and B present further information on response rates and imputation.

The first three rows of table A present the number of academic libraries and of those the number of nonrespondents and respondents at the national level by level and control of institution. In addition, the remaining rows show the number of libraries responding with a <u>positive value</u> (ie, greater than zero) for each item at the national level.

Caution on the analysis of data by state and by level and control of institution. Since the number of complete nonresponses can vary by state and affect the reliability of the state estimates, table B presents the distribution of the set of complete nonrespondent libraries by state and by level and control of institution. The data user should be especially cautious in using data at a level of detail where the nonresponse rate was 30 percent or greater. Nonresponse rates for the states of Alabama and Washington were 36 percent and 46 percent, respectively for all libraries. Those nonresponse rates are above the NCES guideline of 30 percent for any analyzed variable. Data were imputed for nonrespondents but caution should be exercised when comparing estimates by state. The data lines for Alabama and Washington are footnoted throughout the state data tables.

### SURVEY DEFINITIONS

## Period of Report

- o Fiscal year 1990: This is any 12-month period between June 1, 1989, and September 30, 1990, which corresponds to the institution's fiscal year.
- o Typical week in fall term 1990: A typical week is one without holidays when the central or main library is open during its regular hours for general use.
- o Fall 1990: This is the period during the months of September, October, November, and December of 1990 when the survey is being completed.

## Library Staff

- o <u>Full-time equivalent (FTE) employees:</u> This is the sum of the number of full-time employees plus the number of full-time equivalent of the part-time employees. To compute full-time equivalents of part-time employees libraries were instructed to divide the number of hours worked by part-time employees by the number of hours considered by the reporting library to be a full-time work week (e.g., 60 hours per week of part-time work divided by 40 hours per full-time week equals 1.5 FTE).
- o <u>Librarians and other professional staff</u>: This is the total FTE of librarians and other professional staff, including chief, deputy, associate, and assistant chief librarian doing work that requires professional training and skill in the theoretical or scientific aspect of library work, or both, as distinct from its mechanical or clerical aspect. This includes unfilled positions if a search was underway at reporting time.
- o All other paid staff (except student assistants): This is the total FTE for all other paid library staff in filled positions in Fall 1988 who were paid annual salaries or hourly wages except students. Included are technical and clerical staff and professionals who are not librarians. It excludes maintenance and custodial staff.
- o <u>Contributed services staff</u>: This is the total FTE for contributed services staff. Contributed services staff are those, such as members of religious orders, whose services are valued by bookkeeping entries rather than by full cash transactions. It does include volunteers.
- o <u>Student assistants from all funding sources:</u> This is the total FTE for student assistants, by students employed on an hourly basis whose wages are charged either to the library budget or to a budget other than the library budget. It excludes maintenance and custodial staff.

o <u>Total FTE staff</u>: This is the sum of librarians and other professional staff, all other paid staff, contributed services staff, and student assistants.

## **Operating Expenditures**

Expenditures: These are the funds expended in FY 1990 regardless of when the funds may have been received from Federal, State, or other sources. Expenditures are reported for the 12-month period which corresponds to the library's fiscal year between the calendar period June 1, 1989, to September 30, 1990. All expenditures are reported in whole dollars in the most appropriate category to provide an unduplicated count of expenditures. Expenditures for capital outlays are excluded. No expenditure is reported in more than one category.

- o <u>Salaries and wages</u>: These are expenditures for full-time and parttime salaries and wages before deductions. Fringe benefits provided by the institution for all regular library staff are included. Salaries and wages from <u>all</u> sources paid to students serving on an hourly basis are also included. Contributed services, and maintenance and custodial staff are excluded.
- o <u>Print materials</u>: These are expenditures for all materials consisting primarily of words and usually produced by making an impression with ink on paper. Included in this category are materials that do not require magnification: books, government documents, braille materials, ephemeral print materials, and the like. Current serial subscriptions and microforms are excluded.
- o <u>Current serial subscriptions</u>: These are expenditures for current subscriptions for serials. Serials are publications issued in successive parts, usually at regular intervals, and as a rule, intended to be issued indefinitely. Serials include periodicals, newspapers, annuals (reports, yearbooks, etc.), memoirs, proceedings, and transactions of societies; they may include monographic and publishers' series. All physical formats are included.
- o <u>Microforms</u>: These are expenditures for all photographic reproductions of textual, tabular, or graphic materials reduced in size so that they can be used only with magnification. Examples of microforms are roll microfilm, microcard, microfiche, and ultrafiche. Current serial subscriptions are excluded.
- Machine-readable materials: These are expenditures for both machine-readable data files and microcomputer applications software. Machine-readable data files are data and data files that exist in media such as punched cards, magnetic tape and disks, and digital videodisks that are designed to be processed by a computer or other machine. Examples are U.S. Census data tapes and reference tools on tape or disk. Excluded are the bibliographic records used to manage the collection and the physical components of a computer (hardware).

Microcomputer software contains instructions which direct the computer to perform some action. Examples are dBase III, Supercalc, and WordPerfect. Microcomputer software is included except that used only by library staff.

- o <u>Audiovisual materials</u>: These are expenditures for all library materials that are displayed by visual projection or magnification or through sound reproduction, or both, including graphic materials, audio materials, motion pictures, video materials, and special visual materials such as cartographic and three-dimensional materials.
- o Other collection expenditures: These are expenditures for collection materials not already included with print materials, current serial subscriptions, microforms, machine-readable materials, and audiovisual materials.
- o <u>Total collection expenditures</u>: This is the sum of expenditures for print materials, current serial subscriptions, microforms, machine-readable materials, audiovisual materials, and other collection materials.
- o <u>Preservation</u>: These are expenditures for the activities associated with maintaining library and archival materials for use in either their original physical form or in some other usable way. This includes but is not limited to binding and rebinding, materials conservation, deacidification, lamination, and restoration.
- o <u>Furniture and equipment:</u> These are expenditures for all library furniture and equipment purchased during the 1990 fiscal year. Included are microform equipment and audiovisual equipment. Excluded are computer-related equipment, which should be reported separately.
- o <u>Computer hardware:</u> These are expenditures related to the purchase of computers, printers, or any other physical components of a computer system. Included are systems operations software, if <u>not</u> billed separately.

- o <u>Equipment total</u>: This is the sum of expenditures for furniture and equipment and computer hardware.
- o <u>Postage</u>: These are all expenditures for postage and delivery, including U.S. mail and commercial delivery services during FY 1990.
- o <u>Telecommunications</u>: These are any <u>separately billed</u> expenditures for all types of telephone services and for such services as electronic mail, teleconferencing, telefacsimile, teletype, telex, contracted computer services, etc.
- o Online database searches: These are expenditures from the library budget for all reference transactions costs in which the source used is one or more databases searched online by computer. Included are associated telecommunications costs if they are not

### billed separately.

- o <u>Contracted computer services</u>: These are expenditures related to purchased library services done for the library on computers by a computerized library network, computerized cooperative library organization, or by a commercial organization providing library services.
- O All other operating expenditures: These are all other operating expenditures such as travel, rentals, leases, insurance, freight, printing, replacement of equipment and furnishings, supplies and membership costs. If expenditures for utilities and plant maintenance are paid from the library budget, they are included. Expenditures for capital outlays are excluded.
- o <u>Total other operating expenditures:</u> This is the sum of postage, telecommunications, online database searches, contracted computer services, and all other operating expenditures.
- o <u>Total operating expenditures</u>: This is the sum of salaries and wages, total collection expenditures, preservation, total equipment expenditures, and total other operating expenditures.

## **Library Collection**

Total number added during the fiscal year: This is the gross number of each category added and does not include the number withdrawn.

Total number held at the end of the fiscal year: This is the total number of each category held at the end of the fiscal year.

- o <u>Volumes</u>: This is the number of volumes of any printed, typewritten, mimeographed, or processed work contained in one binding or portfolio, hardbound or paperbound, which has been catalogued, classified, or otherwise made ready for use.
- o <u>Titles:</u> This is the number of titles of publications which form a separate bibliographic whole, whether issued in one or several volumes, reels, disks, slides, or parts. It applies equally to printed materials, such as books and periodicals, as well as to audiovisual materials and microforms. It includes the number of items for which a separate shelflist entry has been made. (A shelflist is a record of materials in a library, arranged in the order in which materials stand when they are shelved or stored.)

Thus, six copies of the same edition of a title count as one title; two editions of the same title which have been catalogued or recorded separately count as two titles; a set of six monographs for which six shelf list entries have been made count as six titles; and two

multivolume sets of the same edition for which one shelf list entry has been made count as one title. A methodology for estimating the number of titles in a collection by measuring the shelf list is given in the <u>American National Standard for Library and Information Sciences and related Publishing Practices - Library Statistics (1983)</u>. Note: the number of titles of each type of library material is reported with the line associated with it (e.g., the number of titles of books, bound serials and government documents not catalogued separately; book titles represented by microforms; etc.

- o Government document titles: This is the number of titles of materials in book, serial, or other form that are published by a government agency. These include publications of Federal, State, local, and foreign governments and of intergovernmental organizations to which governments belong and appoint representatives (e.g., the United Nations, Organization of American States, and the Erie Basin Commission). Government documents that are catalogued and shelved with the regular collection are included with the regular collection; government documents on microform are included with the microforms; only government documents that are organized separately are included herein.
- o <u>Current serial subscriptions</u>: This is the number of current subscriptions to serials of different titles and not the number of individual issues (excluding duplicate subscriptions). This includes periodicals, newspapers, and government documents issued serially that are catalogued and shelved with the regular collection.
- o <u>Microforms</u>: This is the number of different titles of materials for each of the different categories that have been photographically reduced in size for storage, protection, and inexpensive publication purposes, and which must be read with the help of enlarging instruments. Examples of microforms are: roll microfilm, microcard, microfiche, and ultrafiche Duplicate copies are excluded.
- o <u>Total number of physical units of all types of microforms:</u> This is the total number of physical units (not titles) of all types of microforms.
- o <u>Manuscripts and archives</u>: This is the linear feet of shelf space occupied by these materials. Manuscripts are handwritten or typed documents, including carbon copies. Archives are noncurrent records of an organization or institution preserved because of their continuing value.
- o <u>Cartographic materials</u>: This is the number of units of materials representing in whole or in part the earth or any celestial body at any scale. These materials include two- and three-dimensional maps and globes.
- o <u>Graphic materials</u>: This is the number of units of materials for viewing without sound. The materials may or may not be projected or magnified. They include art originals, art prints, art reproductions, slides, transparencies, filmstrips, photographs, pictures, postcards,

posters, study prints and the like. Filmstrips that also include sound are included herein, also.

- o <u>Audio materials</u>: This is the number of titles of materials on which sounds (only) are stored (recorded) and that can be reproduced (played back) mechanically, electronically, or both. These materials include audiocassettes, audiocartridges, audiodiscs, audioreels, talking books, and other sound recordings.
- o <u>Films</u>: This is the number of titles of films, with or without recorded sound, bearing a sequence of images that create the illusion of movement when projected in rapid succession (usually 18 or 24 frames per second). Films are produced in a variety of sizes (8, super 8, 16, 35, 55, and 70 mm)and a variety of formats (cartridge, cassette, loop, reel).
- o <u>Video materials</u>: This is the number of titles of materials on which both pictures and sound are recorded. Electronic playback reproduces both pictures and sounds using a television receiver or monitor.
- o <u>Machine-readable materials</u>: This is the number of titles of materials that exist in media such as punched cards, magnetic tape and disks, and digital videodisks that are designed to be processed by a computer or other machine. Examples are U.S. Census data tapes and reference tools on tape or disk. This includes the bibliographic records used to manage the collection and the physical components of a computer (hardware). Microcomputer software contains instructions which direct the computer to perform some action. Examples are dBase III, SuperCalc, and WordPerfect. Microcomputer software is included except that used only by library staff.
- o Other library materials: This includes any materials not already included in other library collection categories.

#### Library Loan Transactions

- o <u>Circulation transactions</u>: This is the number of items lent from the general collection and from the reserve collection, separately, for use usually (although not always) outside the library. These activities include initial charges, either manually or electronically, and also renewals, each of which is reported as a circulation transaction.
- o <u>Interlibrary loans</u>: This is the number of transactions in which library materials, or copies of the materials, are made available by one library to another upon request. Loans include both providing and receiving. Libraries involved in these interlibrary loans cannot be under the same administration or on the same campus.

## Library Service per Typical Week

Data are collected during a typical week in the fall and reported. A typical week is defined as a week in which the library is open for its regular hours and contains no holidays. It is seven consecutive calendar days, from Sunday through Saturday, or whatever days the library is normally open during that period. If data were available to the institution for an entire year rather than for a typical week, then an estimate of a weekly count is made by dividing the annual figure by 52.

- o <u>Public service hours:</u> This is an unduplicated count of public service hours per typical week for both main library and branches reported using the following method. If a library is open from 9:00 a.m. to 5:00 p.m. Monday through Friday, it reports 40 hours per week. If several of its branches are also open during those hours, the figure remains 40 hours. Should branch A also be open one evening from 7:00 to 9:00, the total hours in which users can find service becomes 42. If Branch B is open the same hours on the same evening, the total remains 42, but if it opens 2 hours on another evening, as well as from 5:00 to 7:00 on the evening when Branch A is open later, the total becomes 44 hours during which users can find service.
- o <u>Attendance in libraries</u>: This is the total number of persons entering the main library and all branch libraries per typical week, <u>including</u> persons attending activities, meetings, and those persons requiring no staff services.
- o <u>Reference transactions</u>: This is the total number of reference transactions per typical week. A reference transaction is an information contact that involves the knowledge, use, recommendation, interpretation in the use of one or more information sources by a member of the library staff. Information sources include printed and non-printed materials, machine-readable databases (including computer-assisted instruction), catalogues and other holdings, records, and, through communication or referral, other libraries and institutions, and persons both inside and outside the library. Information and referral services are included. If a contact included both reference and directional services, it is reported as one reference transaction. When a staff member utilizes information gained from a previous use of information sources to answer a question, it is reported as a reference transaction, even if the source is not consulted again during this transaction. Duration is not an element in determining whether a transaction is a reference transaction.

Directional transactions are not reported in these or any other data. A directional transaction is an information contact which facilitates the use of the library in which the contact occurs and which does NOT involve the knowledge, use, recommendation, interpretation, or instruction in the use of any information sources other than those which describe the library, such as schedules, floor plans, handbooks, and policy statements. Examples of directional transactions include giving assistance of a non-bibliographic nature with machines.

- o Online database searches: This is the number of reference transaction searches per typical week in which the source utilized is one or more databases searched online by a computer. This is a subcategory of reference transactions defined above.
- o Information service to groups: This is the number of presentations and the number of persons served by those presentations per typical week. An information contact is one in which a staff member or person invited by a staff member provides information intended for a number of persons and planned in advance. Information service to groups may be either bibliographic instruction or library use presentations, or it may be cultural, recreational, or educational presentations. Presentations both on and off the library premises should be included, as long as they are sponsored by the library. Not included are meetings sponsored by other groups using library meeting rooms.

#### **GENERAL DEFINITIONS**

The following definitions are general to the survey and are arranged in alphabetical order.

- o <u>Books</u>: Nonperiodical printed publications bound in hard or soft covers, or in loose-leaf format, of at least 49 pages, exclusive of the cover pages, or a juvenile nonperiodical publication of any length bound in hard or soft covers.
- o <u>Library</u>: An organized collection of printed, microform, and audiovisual materials which (a) is administered as one or more units, (b) is located none or more designated places, and (c) makes printed, microform, and audiovisual materials as well as necessary equipment andservices of a staff accessible to students and to faculty. This includes units meeting the above definition which are part of a learning resource center. An academic library is a library operated by a postsecondary education institution.
- o <u>Newspapers</u>: Those serials that are designed mainly to be a primary source of written information on current events. They may also include articles as well as illustrations, advertisements, legal notices, and vital statistics. Newspapers appear with a masthead and are usually printed on newsprint without a cover.
- o <u>Periodicals</u>: A publication in any medium intended to appear indefinitely at regular or stated intervals, generally more frequent than annually. Individual issues are numbered consecutively or dated and normally contain separate articles, stories or other writings.

This does not include newspapers disseminating general news, and the proceedings, papers, or other publications of corporate bodies primarily related to their meetings.

o <u>Reserve collection</u>: Those materials that have been removed from the general library collection and set aside in a library so they will be on hand for a certain course of study or activity in process. Usually, the circulation and length of loan of items in a reserve

collection are restricted so that these items will be available to many users who have need of them within a limited time period.

o <u>Serials</u>: Publications 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; they may include monographic and publishers' series.

Table A: Number of academic libraries responding with a positive value by item and by level and control of institution: 1990

	-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Four-Year Institutions	stitutions				
i	higher education institutions	Total four-year institutions	With Doctors degree	masters highest level of degree	bachelors highest level of degree	Less than four year	Public	Private
ALL INSTITUTIONS	3274	1997	488	827	682	1277	1504	1770
NON-RESPONDING LIBRARIES RESPONDING LIBRARIES	425 2849	199 1798	45 446	76 127	8 601	226 1051	89 1415	336 1434
Part B - Library Staff LIBRARIANS/PROFESSIONAL STAFF ALL OTHER PAID STAFF CONTRIBUTED SERVICES STAFF STUDENT ASSISTANTS/ALL FUNDING	2768 2559 154 2536	1756 1639 104 1661	441 426 10 413	735 705 64 708	580 508 30 540	1012 920 50 875	1397 1367 43 1281	1371 1192 111 1255
Part C - Library Operating Expenditures LIBRARIANS/PROFESSIONAL STAFF ALL OTHER PAID STAFF STUDENT ASSISTANTS PRINT MATERIALS (COLLECTIONS) CURENT SERIAL SUBSCRIPTIONS MACHINE READABLE MATERIALS AUDIOVISUAL MATERIALS AUDIOVISUAL MATERIALS OTHER (COLLECTIONS) PRESERVATION FRESERVATION FRESERVATION FORPOWER EQUIPMENT COMPUTER EQUIPMENT FORPOWER TELECOMMUNICATIONS ONLINE DATABASE SEARCHES CONTRACTED COMPUTER SERVICES ALL OTHER OPERATING EXPEND.	2493 2339 2405 2737 2737 2062 2062 682 1727 1724 1724 1760 1760	1597 1499 1578 1727 1727 1233 1239 1108 1108 1108 1108	417 404 403 403 862 833 833 833 833 833 833 833 833 833 83	685 684 730 730 730 730 744 757 757 757 757 757 757 88	495 436 491 491 120 120 278 278 295 295 339 278 278 278 278 278 278 278 278 278 278	88 840 1009 1009 133 133 144 144 144 138 138 138 138 138 138 144 144 144 144 144 144 144 144 144 14	1280 1248 1205 1378 1377 1080 1080 1116 857 770 770 800 800	1213 1091 1360 1360 7360 707 705 705 742 742 761 761
Part D - Library Collections BOOKS/SERIALS/GOVN. DOC. VOLS. ADDED BOOKS/SERIALS/GOVN. DOC. VOLS. EGFY BOOKS/SERIALS/GOVN. DOC. TITLE ADDED BOOKS/SERIALS/GOVN. DOC. TITLE EOFY GOVN. DOCUMENTS NO. OF TITLES ADDED GOVN. DOCUMENTS NO. OF TITLES EGFY	2758 2799 2407 2419 731 871	1758 1778 1492 1492 574 560	437 442 347 340 171	732 743 634 642 278 308	583 543 511 510 125	1000 1021 915 927 157	1378 1396 1214 1225 438 518	1380 1403 1193 1194 293 353

Note: EOFY = held at End Of Fiscal Year

Table A: Number of academic libraries responding with a positive value by item and by level and control of institution: 1990

			Four-Year In	stitutione		* * * * * * * * * * * * * * * * * * * *	* 6 - 1 - 2 - 1 - 4 - 6 - 1 - 1	
	Total higher	Total	With	Masters	Bachelors			
	education institutions	four-year institutions	Doctors degree	tevel of degree	level of degree	Less than four year	or Idod	Drivete
SUBSCRIPTIONS/TITLES ADDED		7771	45.5				2	9104111
CORKENI SUBSCRIPTIONS/TITLES EDFY	2780	1756	435	238	1861 1861	1,03	1071	1138
BOOK TITLES BY MICROFORMS FORV	513	448	164	196	8	55	1 KC1	1589
SERIAL TITLES BY MICROFORMS ADDED	1040	44,	533	419	292	596	557	787
SERIAL TITLES BY MICROFORMS FOFY	2121	86	141	315	211	409	226	207
GOVN. DOCUMENTS BY MICROFORMS ADDED	1717	602	752	559	944	862	1110	101
GOVN. DOCUMENTS BY MICROFORMS EOFY	50.5	C#7	55	182	<b>.</b>	2	242	121
PHYSICAL UNITS OF MICROFORMS ADDED	2035	1371	<u> </u>	526	101	150	342	260
PHYSICAL UNITS OF MICROFORMS EOFY	2435	1580	- 807 807	1 P	404	728	1134	965
MANUSCRIPTS/ARCHIVES (FEET) ADDED	898	685	236	86	200	846	1277	1158
CADIOCOADUIC MATERIALO CIRCATO	1464	1095	325	977	¥2%	255	431	437
CARTOGRAPHIC MATERIALS (UNITS) ADDED	807	292	192	248	127	200	983	12.
GRAPHIC MATERIALS (UNITS) EUFY	1537	971	566	904	582	2,75	200	che Che Che Che Che Che Che Che Che Che C
GRAPHIC MATERIALS (NO. INITS) FOEV	940	288	176	565	157	342	0 / S	60 X
AUDIO MATERIALS (NO. TITLES) ADDED	1855	1003	262	427	320	650	88	54.5
AUDIO MATERIALS (NO. TITLES) EOFY	2472	1534	310 272	514	380	651	946	606
FILMS, NUMBER OF TITLES ADDED	509	277	104	117	513	938	1255	1217
VIDEO MATERIALS (NO TITLES) ADDED	1783	1012	257	432	323	325	350	159
VIDEO MATERIALS, (NO. TITLES) EOFY	2396	1274	296	539	439	860	1101	1033
MACHINE READABLE MATERIALS ADDED	1136	15	252 225	3,70 3,70 0,70 0,70 0,70 0,70 0,70 0,70	505	6%6 6%6	1216	1180
OTHER LIBRARY MATERIALS EDFY	1552	126	27.1	445	528 528 528 538 538 538 538 538 538 538 538 538 53	585 585 585 585 585 585 585 585 585 585	630 848	206
OTHER LIBRARY MATERIALS EOFY	1139	) 102 102	114 166	187 200	136	334	365	306
Part E - Library Loan Transactions			Ì	À	770	458	109	538
CIRCULATION TRANS, GENERAL	2769	1757	52.7	220	0	•		
CIRCULATION TRANS. RESERVE	2442	1579	<b>40</b>	663	5 12 13	2101	1393	1376
INTER-LOANS RECEIVED FROM	2487	1642	438	669	505	88	1307	134
	-	00.1	441	726	533	931	1374	1257
Part F - Library Service per Typical Week	•							
LIBRARY ATTENDANCE PER WEEK		1717	418	719	580	1008	1360	1745
REFERENCE TRANS. PER WEEK	250	1240	574	979	256	096	1274	25.5
ONLINE DATABASE SEARCHES/WEEK	1717	1287	283	705 202	240	952	1325	1277
PERSONS SERVED BY PRESENTATION	2347	1432	326	623	450	450 915	884 405	833
201101111111111111111111111111111111111	•	1478	364	648	994	925	1200	707
Note: Enty - hold of the							,	<b>2</b>

Note: EOFY = held at End Of Fiscal Year

Table B: Number and percent of non-responding academic libraries by state, level and control of institution: 1990

					Four-Y	ear Inst	itut	ons			; ; ;	1 1 1 1 1	! ! !	! ! ! ! !	:	: : :
	educ.	igher ation	Total four-year	Total -year	Doc	With Doctors	Mast high Level	Masters highest evel of	Bachelors highest level of	achelors highest level of	Less	than				
	Institu	TI OUS 1	5:	tutions	ਚ :	degree	ŏ	degree	deg	gree	for i		۵ ;	Publ ic	P	Private
LIBKARIES WITH ALL ITEMS IMPUTED	455	13.0%	8	10.0%	75	8.6%	92	9.2%	81	11.9%	526	17.7%	83	5.9%	336	19.0%
ALABAMA		35.8		38.9	~	25.0		47.4		33.3		7,7	Į,	20	ç	2 17
ACTIONA		0.5		0.0	٥.	0.0		0.0		0.0		0.0	9	0.0	-0	0
ARKANSAS		1 4		0 C		ე; -		9.6		0.0		ر ا بر		بر 0	M	20.0
CALIFORNIA		54.6		21.1		20.0		9.0		0.0		~ a	_ 5	2.4 0.4	m ę	20.0
COLORADO		0.0		0.0		0.0		0		0.0		90	4 -		<b>\$</b> C	, c
CONNECT I LOT		4.0		7.7		0.0		8.3		16.7		0.0	0	0.0	۰ <i>ر</i>	
DISTRICT OF COLUMBIA				) c		0.0		0.0		0.0		0.0	0	0.0	0	0.0
		19.1		3.5		0.0		7.0 7.0		ر م.د		0,0	00	0.0	0 5	0.0
GEORGIA		13.9		6.7		0.0		0.0		- 2.9		2. 2 3	<b>-</b>	9.0	2 5	٠ د د د د د د د د د د د د د د د د د د د
IDAHO I		14.3		0.5		20.0	0	0.0		25.0		]0	- 0	90.	2 ~	9.0
ILLINOIS		0.C		o.r		0.0		0.0		0.0		0.0	0	0.0	0	0.0
INDIANA		1,3		7.7		n C		, c				0.5		<u>-</u> ,	₽1	0.0 0.0
TANGE		12.3		5.4		16.7		0.0		-0.		- 6	- 1	, y	~ ~	5.5 6.6
KENTUCKY		5.5 8.0		6.0		0.0		15.4		0.0		4.3	· —	, r	t (V)	50.
LOUISIANA		. M		0.4		2.0		0.0		0 4		50.0	0	0.0	∞.	20.5
MAINE		6.9		2.0		0.0		.0.		5-		1.0	<b>-</b>	000	<u>-</u> ر	12.5
MAKTEAND		×.1		0.0		10.0		0.0		0.0		. %	0	0	u (\	
MICHIGAN		- M		ก้น		7 c		12.1		4.0		2.9	0	0.0	: co	6.6
MINNESOTA		16.2		19.		- 0		 				6.3 4.4	~ ~	7.0	40	8.6
MISSISSIPPI		14.3		4.3		0.0		14.3		9.9		14.3	7 N	- c	> 4	2.7 5.7
MONTANA		9.5 7.7		0.0		4.0		0.2		5.4		26.1	<del></del>	8	1	8.3
NEBRASKA		20.		0		0.0		0.0		0.0		20.0	~	2 3	۰.	0.0
NEVADA		12.5		0.0		0.0		0.0		0.0		, c	<b>-</b>	9.0	~ •	5.0
NEW JERSEY		70.0		0,0		0.0		0.0		14.3		18.2	~	16.7		3,0
NEW MEXICO		, w		0.0		00		0.0		0.0	0 •	0.0	۰.	0.0	0	0.0
NEW YORK		8,0		5.5		2.2		, r		0.7			- <	4. 	a f	) a
NORTH CAROLINA NORTH DAKOTA		7.7		۳, د د د		0.0		5.0		4.0		0.0	•	4.	<u> </u>	. 2
OHIO		22.0		9		⊃ ^ 2 <u>~</u>		0.0 7		0.0		30.0	<b>~</b> 1		- ;	20.0 120.0
OKLAHOMA		15.2		8.4		38.6		0.0		 		ر 15.0	<b>.</b>	 	8° 4	33.3
DENNSYLVANTA		7.0		0.0		0.0		0.0		0.0			10	0	۰-	4.0.4
		0.0		0 0		4.0		9.0		0.0		45.2	٥.	14.8	5	22.0
SOUTH CAROLINA		18.8		5.6		25.5		9.0		۰ ۲		0,5	0 1	0.	0	0.0
SOUTH DAKOTA TENNESSEE		15.8 5.6		2.6		0.0		50.		0.		0.0	v	٠ د د	<u>-</u>	52.5 -
TEXAS		ر م م		8 4		4.0		13.0 2.0		2.9		41.9	0	0.0	-61	32.2
UTAH		0.0		.0.0		) C		· c		5.5		φ. α. α	~	6.0	9	9.5
VERMONT		4.5		5.9		0.0				0.0			<b>&gt;</b>	) 	۰,	0.4
WASHINGTON	4 K	ر د د د د	o % ??	4.6	, 0 k	0.5	m;	8.8	0	0.0		M.	0	0.0	- 4	
WEST VIRGINIA		;. :-:		0.0			_	9.0	_	0.0	<b>←</b> r	4.6	ın (	15.2	8	55.2
WISCORSIN		8.3		2.0	-	0.0	<b>,-</b> -	8.0		000	чм	5.0	<b>-</b>	) M	~ ~	7 <u>-</u> 2
		7.7	i	0.0	0	0.0	0	0.0	0	0.0		12.5	0	0.0	-	9

Table C: Number of academic libraries by state, level and control of institutions: 1990

	1.445	* * * * * * * * * * * * * * * * * * * *	Four-Year Institution	titutions			; ; ; ; ;	! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !
	higher education	••	With	Masters highest level of	Bachelors highest level of	Less than		
	; ;	INSTITUTIONS	degree	degree	degree	four year	Public Public	Private
LIBRAKIES	3274	1997	488	827	682	1277	1504	1770
ALABAMA	8	¥.	α	Ş	ć	ţ	i	•
ALASKA	9	S	<b></b>	<u>-</u> ~	<b>&gt;</b> ^	ŷ -	20	31
ARKANSAS	55 H	16	4	· ~	יאי ו	- 61	י ב	υħ
CALIFORNIA	ς χ.	ខត្	Μį	∞;	0	15	38	10
COLORADO	4	26	4 F	25	32	132	137	147
CONNECTICUT	45		<u> </u>	2 €	2`	<b>2</b> 9	25	€.
	5		) <b>-</b> ~	ก	0 M	<u>*</u>	უ,	'53
FIDERICI OF COLUMBIA	16		~	<b>~</b>	) (\	n c	nr	'n
GEORGIA	3.8	53	16	5	22	7.7	2 <u>2</u> 2	<del>4</del> 6
HAWAII	2 2		10	ଛ	7,	34	: 6 M	3
IDAHO	<u> </u>	۰ ۵	N 10	C3 to	41	•	6	ī
ILLINOIS	158		202	٠ ۲	7 22	4 (	9	'n
INDIANA	7		30	32	35	3 €	1 00	<del>2</del>
KANSAS	25		9	=	2	2.5	<u>د</u> د	4 K
KENTUCKY	% **		41	13	2	8	208	3.6
LOUISIANA	33		<b>~</b> °	=:	15	11	<b>&amp;</b>	36
MAINE	38		2 **	=°	4;	∞ (	6	7
MARYLAND	25		- 0	• †	<u>.</u> 7	2 م	<u>.</u>	9
MASSACHUSETIS	112		25.	- <u>K</u>	oίζ	25	32	23
MINNESOTA	5		-	33	រន	32.5	51	200
MISSISSIPPI	4 (		eo t	<b>7</b> .	72	35	123	17
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# IPEDS

# INTEGRATED POSTSECONDARY EDUCATION DATA SYSTEM

### **ACADEMIC LIBRARIES 1990**

Public reporting burden for this collection of information is estimated to average 1.25 hours per response but may range from 30 minutes to 2.5 hours depending on whether the information is readily accessible to machine readable files. The burden estimate includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the U.S. Department of Education, information Management and Compliance Division, Washington, D.C. 20202-4651; and to the Office of Management and Budget, Paperwork Reduction Project 1850-0582, Washington, D.C. 20503. Please send completed survey forms to the address shown on the inside of this cover page.

#### **COMPLETION INSTRUCTIONS:**

Please read the instructions carefully before completing this survey form. Report data ONLY for the institution noted. If data for any other institutions or branch campuses are included in this report because they cannot be reported separately, please provide a list of all other schools included in this report. When complete, please mail your survey form to:

#### **CONTACT FOR QUESTIONS:**

If there are any questions about this form, contact: Arthur Podolsky at (202) 357-6371 or you may call the IPEDS Processing Center at 1-800-334-EDUC.

DUE DATE: November 15, 1990

This form is authorized by law (20 U.S.C. 1221e-1). While you are not required to respond, your cooperation is needed to make the results of this survey comprehensive, accurate, and timely.

#### PURPOSE OF THE SURVEY

The Center for Education Statistics (CES) collects these data periodically to obtain and report a comprehensive picture on the status of collections, transactions, staff, service per typical week, and library operating expenditures in postsecondary institutions. This survey is being conducted in compliance with the Center's mission "to collect, and analyze, and disseminate statistics and other data related to education in the United States..." (20 U.S.C. 1221e-1, General Education Provisions Act, Sec. 406(b), as amended).

#### USES OF DATA

Collection of these data over time will enable the nation to plan effectively for the development and use of postsecondary education library resources. Congress uses the data to assess the need for revisions of existing legislation concerning libraries and the allocation of Federal funds. Federal agencies need the data to evaluate and administer library programs. State education agencies and college librarians and administrators use the data for regional and national comparisons of library resources to plan for the effective use of funds. Finally, library associations and researchers use the survey results to determine the status of library operations and the profession.

#### GENERAL INSTRUCTIONS

Please respond to each item on this report in the space provided. The Glossary provides definitions of terms used in this report.

If an exact figure is not available for a particular item but the amount is known to be greater than zero, ENTER AN ESTIMATE OF THE AMOUNT. An estimate should be indicated with brackets. Refer to the American National Standard for Library and Information Sciences and Related Publishing Practices—Library Statistics (1983) for information on estimation methods and other definition clarifications.

#### I. INSTITUTIONAL IDENTIFICATION

In the space provided at the top of the report, make any necessary corrections to the preprinted address information. Also, please enter the name, title, area code and telephone number of the person responsible for completing the report.

#### II. PERIOD OF REPORT

Report information for the following time periods:

- (1) Fiscal year 1990 a 12-month period between June 1, 1989 and September 30, 1990 which corresponds to your institution's fiscal year.
- (2) Typical week in fall term 1990 a typical week is one without holidays when the central or main library is open during its regular hours for general use.
- (3) Fall 1990 the period during the fall of 1990 when the survey form is being completed.

#### III. INSTRUCTIONS FOR PART A - NUMBER OF PUBLIC SERVICE OUTLETS, FISCAL YEAR 1990

BRANCH LIBRARIES (line 1). Report the number of branch libraries at your institution that are open all or part of fiscal year 1990. (DO NOT COUNT THE MAIN OR CENTRAL LIBRARY.) Branch libraries are auxiliary units which have all of the following: (1) separate quarters, (2) a permanent basic collection of books, (3) a permanent staff, and (4) a regular schedule for opening to the public. They are, however, administered from a central unit. Data on libraries that are separately budgeted or housed (e.g., medicine, law extension center, research center, etc.) should be included in the report for the campus or branch where they are located.

#### IV. INSTRUCTIONS FOR PART B - LIBRARY STAFF, FALL 1990

FULL-TIME EQUIVALENT (FTE) EMPLOYEES. Report the sum of the number of full-time employees plus the number of full-time equivalent of the part-time employees. To compute full-time equivalents of part-time employees, take the number of hours worked by a part-time employee and divide it by the number of hours CONSIDERED BY THE REPORTING LIBRARY TO BE A FULL-TIME WORK WEEK (e.g., 60 hours per week of part-time work divided by 40 hours per full-time week equals 1.5 FTE). Data should be reported to two decimal places.

LIBRARIANS AND OTHER PROFESSIONAL STAFF (line 2). Report the total FTE of librarians and other professional staff, including chief, deputy, associate, and assistant chief librarian doing work that requires professional training and skill in the theoretical or scientific aspect of library work, or both, as distinct from its mechanical or clerical aspect. Include unfilled positions if a search is currently underway.

ALL OTHER PAID STAFF (EXCEPT STUDENT ASSISTANTS) (line 3). Report the total FTE for all other paid library staff in filled positions in Fall 1990 who are paid annual salaries or hourly wages except students, who are reported on line 5. This includes technical and clerical staff and professionals who are not librarians. Exclude maintenance and custodial staff.

CONTRIBUTED SERVICES STAFF (line 4). Report the total FTE for contributed services staff. Contributed services staff are those, such as members of religious orders, whose services are valued by bookkeeping entries rather than by full cash transactions. Do not include volunteers.

STUDENT ASSISTANTS FROM ALL FUNDING SOURCES (line 5). Report the total FTE for student assistants, by students employed on an hourly basis whose wages are charged either to the library budget or to a budget other than the library budget. Exclude maintenance and custodial staff.

TOTAL FTE STAFF (line 6). Report the sum of lines 2 through 5.

#### V. INSTRUCTIONS FOR PART C - LIBRARY OPERATING EXPENDITURES, FISCAL YEAR 1990

EXPENDITURES (lines 7 - 24). Report the funds expended from the <u>library budget</u> in fiscal year 1990 regardless of when the funds may have been received from Federal, State, or other sources. Report funds expended by the library from its regular budget and from other sources such as research grants, special projects, gifts and endowments, and fees for services. Expenditures should be reported for the 12-month period which corresponds to your library's fiscal year between the calendar period June 1, 1989, to September 30, 1990. All expenditures should be reported in whole dollars in the most appropriate category to provide an unduplicated count of expenditures. Exclude expenditures for capital outlays. DO NOT REPORT ANY EXPENDITURES MORE THAN ONCE.

SALARIES AND WAGES (line 7 – 9). Report expenditures for full-time and part-time salaries and wages before deductions. Include fringe benefits provided by your institution for all regular library staff. Include salaries and wages from all sources paid to students serving on an hourly basis. Exclude contributed services, and maintenance and custodial staff. On line 7, report the salaries and wages of the LIBRARIANS AND OTHER STAFF that were reported on line 2 above. On line 8, report the salaries and wages of the ALL OTHER PAID STAFF (EXCEPT STUDENT ASSISTANTS) that were reported on line 3 above. On line 9, report the salaries and wages of the STUDENT ASSISTANTS that were reported on line 5 above.

PRINT MATERIALS (line 10). Report expenditures for all materials consisting primarily of words and usually produced by making an impression with ink on paper. Included in this category are materials that do not require magnification: books, government documents, braille materials, ephemeral print materials, and the like. Exclude current serial subscriptions and microforms.

CURRENT SERIAL SUBSCRIPTIONS (line 11). Report expenditures for current subscriptions to serials. These are publications 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; they may include monographic and publishers' series. Include all physical formats.

MICROFORMS (line 12). Report expenditures for all photographic reproductions of textual, tabular, or graphic materials reduced in size so that they can be used only with magnification. Examples of microforms are roll microfilm, microcard, microfiche, and ultrafiche. Exclude current serial subscriptions.

MACHINE READABLE MATERIALS (line 13). Report expenditures for both machine-readable data files and microcomputer applications software. Machine-readable data files are data and data files that exist in media such as punched cards, magnetic tape and disks, and digital videodisks that are designed to be processed by a computer or other machine. Examples are U.S. Census data tapes and reference tools on tape or disk. This excludes the bibliographic records used to manage the collection and the physical components of a computer (hardware). Microcomputer software contains instructions which direct the computer to perform some action. Examples are dBase III, SuperCalc, and WordStar. Do not include microcomputer software used only by library staff.

AUDIOVISUAL MATERIALS (line 14). Report expenditures for all library materials that are displayed by visual projection or magnification or through sound reproduction, or both, including graphic materials, audio materials, motion pictures, video materials, and special visual materials such as cartographic and three-dimensional materials.

OTHER (line 15). Report any expenditures for other collection materials not already included on lines 8 to 12.

PRESERVATION (line 16). Report expenditures for the activities associated with maintaining library and archival materials for use in either their original physical form or in some other usable way. This includes but is not limited to binding and rebinding, materials conservation, deacidification, lamination, and restoration.

FURNITURE AND EQUIPMENT (line 17). Report expenditures for all library furniture and equipment purchased during the 1990 fiscal year. Include microform equipment and audiovisual equipment. Exclude computer-related equipment, which should be reported separately on line 17.

COMPUTER HARDWARE (line 18). Report any expenditures related to the purchase of computers, printers, or any other physical components of a computer system. Include system operations software if not billed separately.

POSTAGE (line 19). Report all expenditures for postage and delivery, including U.S. Mail and commercial delivery services during the 1990 fiscal year.

TELECOMMUNICATIONS (line 20). Report any <u>separately billed</u> expenditures for all types of telephone services and for such services as electronic mail, teleconferencing, telefacsimile, teletype, telex, contracted computer services, etc.

ONLINE DATABASE SEARCHES (line 21). Report expenditures from the library budget for all reference transactions in which the source used is one or more databases searched online by computer. Include associated telecommunications costs if they are <u>not</u> billed separately. (Telecommunications costs which are billed separately from online database searching costs should be reported on line 20.)

CONTRACTED COMPUTER SERVICES (line 22). Report any expenditures related to purchased library services done for your library on computers by a computerized library network, computerized cooperative library organization, or by a commercial organization providing library services.

ALL OTHER OPERATING EXPENDITURES (line 23). Report all other operating expenditures such as travel, rentals, leases, insurance, freight, printing, replacement of equipment and furnishings, supplies, and membership costs. If expenditures for utilities and plant maintenance and operation are paid from the library budget, they should be reported here. Exclude expenditures for capital outlays.

### VI. INSTRUCTIONS FOR PART D - LIBRARY COLLECTIONS, FISCAL YEAR 1990

TOTAL NUMBER ADDED DURING FISCAL YEAR (Column 1). Report the gross number of each category added. Do not subtract the number withdrawn.

TOTAL NUMBER HELD AT END OF FISCAL YEAR (Column 2). Report the total number of each category held at end of fiscal year.

VOLUMES (line 25). Report the number of volumes of any printed, typewritten, handwritten, mimeographed, or processed work contained in one binding or portfolio, hardbound or paperbound, which has been cataloged, classified, or otherwise made ready for use. Include only government documents that are catalogued and shelved with the regular collection.

TITLES (lines 26-31 and 36-40). Report the number of titles of publications which form a separate bibliographic whole, whether issued in one or several volumes, reels, disks, slides, or parts. It applies equally to printed materials, such as books and periodicals, as well as to audiovisual materials and microforms. Report the number of items for which a separate shelflist entry has been made. (SHELFLIST: A record of materials in a library, arranged in the order in which the materials stand when they are shelved or stored.) Thus, six copies of the same edition of a title count as one title; two editions of the same title which have been cataloged or recorded separately count as two titles; a set of six monographs for which six shelflist entries have been made count as six titles; and two multivolume sets of the same edition for which one shelflist entry has been made count as one title. A methodology for estimating the number of titles in a collection by measuring the shelflist is given in the American National Standard for Library and Information Sciences and Related Publishing Practices — Library Statistics (1983). Note: The number of titles of each type of library material should be reported on the line associated with it (e.g., The Number of Titles of Books, Bound Serials and Government Documents that are catalogued and shelved with the regular collection, line 26; Book Titles Represented by Microforms, line 29; etc.)

GOVERNMENT DOCUMENT TITLES (line 27). Report the number of titles of materials in book, serial, or other form that are published by a government agency. These include publications of Federal, State, local, and foreign governments and of intergovernmental organizations to which governments belong and appoint representatives (e.g., the United Nations, Organization of American States, and the Erie Basin Commission). Government documents that are catalogued and shelved with the regular collection should be reported on line 26. Government documents on microform should be reported on line 31. Only government documents that are organized separately should be reported on line 27.

CURRENT SERIAL SUBSCRIPTIONS (line 28). Report the number of current subscriptions to serials of different titles and not the number of individual issues (exclude duplicate subscriptions). Include periodicals, newspapers, and government documents issued serially that are catalogued and shelved with the regular collection.

MICROFORMS (lines 29-31). Report the number of different titles of materials for each of the different categories that have been photographically reduced in size for storage, protection, and inexpensive publication purposes, and which must be read with the help of enlarging instruments. Examples of microforms are: roll microfilm, microcard, microfiche, and ultrafiche. Exclude duplicate copies.

TOTAL NUMBER OF PHYSICAL UNITS OF ALL TYPES OF MICROFORMS (line 32). Report the total number of physical units (not titles) of all types of microforms.

MANUSCRIPTS AND ARCHIVES (line 33). Report the linear feet of shelfspace occupied by these materials. Manuscripts are handwritten or typed documents, including carbon copies. Archives are noncurrent records of an organization or institution preserved because of their continuing value.

CARTOGRAPHIC MATERIALS (line 34). Report the number of units of materials representing in whole or in part the earth or any celestial body at any scale. These materials include two- and three-dimensional maps and globes.

GRAPHIC MATERIALS (line 35). Report the number of units of materials for viewing without sound. The materials may or may not be projected or magnified. They include art originals, art prints, art reproductions, slides, transparencies, filmstrips, photographs, pictures, postcards, posters, study prints, and the like. Filmstrips that also include sound should be included on this line.

AUDIO MATERIALS (line 36). Report the number of titles of materials on which sounds (only) are stored (recorded) and that can be reproduced (played back) mechanically, electronically, or both. These materials include audiocassettes, audiocartridges, audiodiscs, audioreels, talking books, and other sound recordings.

FILMS (line 37). Report the number of titles of films, with or without recorded sound, bearing a sequence of images that create the illusion of movement when projected in rapid succession (usually 18 or 24 frames per second). Films are produced in a variety of sizes (8, super 8, 16, 35, 55, and 70 mm) and a variety of formats (cartridge, cassette, loop, reel).

VIDEO MATERIALS (line 38). Report the number of titles of materials on which both pictures and sound are recorded. Electronic playback reproduces both pictures and sounds using a television receiver or monitor.

MACHINE-READABLE MATERIALS (line 39). Report the number of titles of materials that exist in media such as punched cards, magnetic tape and disks, and digital videodisks that are designed to be processed by a computer or other machine. Examples are U.S. Census data tapes and reference tools on tape or disk. This excludes the bibliographic records used to manage the collection and the physical components of a computer (hardware). Microcomputer software contains instructions which direct the computer to perform some action. Examples are dBase III, SuperCalc, and WordStar. Do not include microcomputer software used only by library staff.

OTHER LIBRARY MATERIALS (line 40). Report here any materials not already included on lines 25-39.

#### VII. INSTRUCTIONS FOR PART E - LIBRARY LOAN TRANSACTIONS, FISCAL YEAR 1990

CIRCULATION TRANSACTIONS (lines 41-42). Report the number of items lent from the general collection on line 41 and from the reserve collection on line 42 for use usually (although not always) outside the library. These activities include initial charges, either manually or electronically, and also renewals, each of which is reported as a circulation transaction.

INTERLIBRARY LOANS (line 43-44). Report the number of transactions in which library materials, or copies of the materials, are made available by one library to another upon request. Loans include both providing (line 43) and receiving (line 44). Libraries involved in these interlibrary loans cannot be under the same administration or on the same campus.

#### VIII. INSTRUCTIONS FOR PART F - LIBRARY SERVICE PER TYPICAL WEEK, FALL 1990

Collect data during a typical week in the fall and report the numbers here. A typical week is defined as a week in which the library is open for its regular hours and contains no holidays. It is seven consecutive calendar days, from Sunday through Saturday, or whatever days the library is normally open during that period. If data are available for an entire year rather than for a typical week, then estimate a weekly count by dividing the annual figure by 52.

PUBLIC SERVICE HOURS (line 45). Report an unduplicated count of public service hours per typical week for both main library and branches reported on line 1 using the following method. If a library is open from 9:00 a.m. to 5:00 p.m. Monday through Friday, it should report 40 hours per week. If several of its branches are also open during those hours, the figure remains 40 hours. Should Branch A also be open one evening from 7:00 to 9:00, the total hours which users can find service becomes 42. If Branch B is open the same hours on the same evening, the total remains 42, but if it is open 2 hours on another evening, or from 5:00 to 7:00 on the evening when Branch A is open later, the total becomes 44 hours during which users can find service.

ATTENDANCE IN LIBRARIES (line 46). Report the total number of persons entering the main library and all branch libraries (those reported on line 1) per typical week, including persons attending activities, meetings, and those persons requiring no staff services.

REFERENCE TRANSACTIONS (line 47). Report the total number of reference transactions per typical week. A reference transaction is an information contact that involves the knowledge, use, recommendations, interpretation, or instruction in the use of one or more information sources by a member of the library staff. Information sources include printed and non-printed materials, machine-readable databases (including computer-assisted instruction), catalogs and other holdings, records, and, through communication or referral, other libraries and institutions, and persons both inside and outside the library. Include information and referral services. If a contact includes both reference and directional services, it should be reported as one reference transaction. When a staff member utilizes information gained from a previous use of information sources to answer a question, report as a reference transaction, even if the source is not consulted again during this transaction. Duration should not be an element in determining whether a transaction is a reference transaction.

Do not report directional transactions on this or any line. A directional transaction is an information contact which facilitates the use of the library in which the contact occurs and which does NOT involve the knowledge, use, recommendation, interpretation, or instruction in the use of any information sources other than those which describe the library, such as schedules, floor plans, handbooks, and policy statements. Examples of directional transactions include giving instruction in locating, within the library, staff, library users, or physical features, etc., and giving assistance of a non-bibliographic nature with machines.

ONLINE DATABASE SEARCHES (line 48). Report the number of reference transaction searches per typical week in which the source utilized is one or more databases searched online by a computer. These should also be included on line 47.

INFORMATION SERVICE TO GROUPS (line 49-50). Report the total number of presentations (line 49) and the total number of persons served by those presentations (line 50) per typical week. An information contact is one in which a staff member or person invited by a staff member provides information intended for a number of persons and planned in advance. Information service to groups may be either bibliographic instruction or library use presentations, or it may be cultural, recreational, or educational presentations. Presentations both on and off the library premises should be included, as long as they are sponsored by the library. Do not include meetings sponsored by other groups using library meeting rooms.

#### **DEFINITIONS - LIBRARIES (L)**

The following definitions are arranged in alphabetical order:

<u>BOOKS</u>. Nonperiodical printed publications bound in hard or soft covers, or in loose-leaf format, of at least 49 pages, exclusive of the cover pages, or a juvenile nonperiodical publication of any length bound in hard or soft covers.

<u>LIBRARY</u>. An organized collection of printed, microform, and audiovisual materials which (a) is administered as one or more units, (b) is located in one or more designated places, and (c) makes printed, microform, and audiovisual materials as well as necessary equipment and services of a staff accessible to students and to faculty. This includes units meeting the above definition which are part of a learning resource center.

<u>NEWSPAPERS</u>. Those serials that are designed mainly to be a primary source of written information on current events. They may also include articles as well as illustrations, advertisements, legal notices, and vital statistics. Newspapers appear with a masthead and are usually printed on newsprint without a cover.

<u>PERIODICALS</u>. A publication in any medium intended to appear indefinitely at regular or stated intervals, generally more frequently than annually. Individual issues are numbered consecutively or dated and normally contain separate articles, stories, or other writings. Do not include newspapers disseminating general news, and the proceedings, papers, or other publications of corporate bodies primarily related to their meetings.

RESERVE COLLECTION. Those materials that have been removed from the general library collection and set aside in a library so they will be on hand for a certain course of study or activity in process. Usually, the circulation and length of loan of items in a reserve collection are restricted so that these items will be available to many users who have need of them within a limited time period.

SERIALS. Publications 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; they may include monographic and publishers' series.

Identification No.
Name of Respondent:
Title:
Phone Number:

01

PART A - NUMBER OF PUBLIC SERVICE OUTLETS, FISCAL YEAR 1990

ITEM LINE NO. NUMBER

BRANCH LIBRARIES (EXCLUDE MAIN OR CENTRAL LIBRARY)

# PART B - LIBRARY STAFF, FALL 1990 (EXCLUDE MAINTENANCE AND CUSTODIAL STAFF)

NOTE: Report data to two decimals

STAFF	LINE NO.	NUMBER OF FTE*
LIBRARIANS AND OTHER PROFESSIONAL STAFF	02	
ALL OTHER PAID STAFF (EXCEPT STUDENT ASSISTANTS)	03	
CONTRIBUTED SERVICES STAFF	04	
STUDENT ASSISTANTS FROM ALL FUNDING SOURCES	05	
TOTAL FTE STAFF (SUM OF LINES 2 THROUGH 5)*	06	

<sup>#</sup> FTE = Full-time equivalent

PART C - LIBRARY OPERATING EXPENDITURES, FISCAL YEAR 1990 (NOTE: Do not report the same expenditure more than once)

(NOTE: Do not report the same expenditu	re more	than once)
CATEGORY	LINE NO.	AMOUNT (WHOLE DOLLARS ONLY)
SALARIES AND WAGES (EXCLUDE FRINGE BENEFITS) LIBRARIANS AND OTHER PROFESSIONAL STAFF	07	\$
ALL OTHER PAID STAFF (EXCEPT STUDENT ASSISTANTS)	08	s
STUDENT ASSISTANTS	09	ş
COLLECTIONS PRINT MATERIALS (EXCLUDE SERIAL SUBSCRIPTIONS AND MICROFORMS)	10	ş
CURRENT SERIAL SUBSCRIPTIONS (INCLUDE ALL PHYSICAL FORMATS)	11	\$
MICROFORMS (EXCLUDE CURRENT SERIAL SUBSCRIPTIONS)	12	ş
MACHINE READABLE MATERIALS	13	\$
AUDIOVISUAL MATERIALS	14	\$
OTHER	15	ş
PRESERVATION	16	\$
FURNITURE AND EQUIPMENT (EXCLUDE COMPUTER EQUIPMENT)	17	ş
COMPUTER HARDWARE	18	\$
POSTAGE	19	\$
TELECOMMUNICATIONS	20	\$
ONLINE DATABASE SEARCHES	21	ş
CONTRACTED COMPUTER SERVICES	22	s
ALL OTHER OPERATING EXPENDITURES	23	ş
TOTAL OPERATING EXPENDITURES (SUM OF LINES 7-23)	24	ş

PART D - LIBRARY COLLECTIONS, FISCAL YEAR 1990

CATEGORY	LINE NO.	TOTAL NUMBER ADDED DURING FISCAL YEAR (1)	TOTAL NUMBER HELD AT END OF FISCAL YEAR ( 2 )
BOOKS, BOUND SERIALS AND GOVERNMENT DOCUMENTS THAT ARE CATALOGUED AND SHELVED WITH THE REGULAR COLLECTION (INCLUDE BOUND PERIODICALS AND NEWSPAPERS AND EXCLUDE MICROFORMS) NUMBER OF VOLUMES	25	·	
NUMBER OF TITLES*	26		
NUMBER OF GOVERNMENT DOCUMENT TITLES*(INCLUDE ALL GOVERNMENT DOCUMENTS THAT ARE ORGANIZED SEPERATELY AND ARE NOT REPORTED ON LINES 25 AND 26)	27		,
CURRENT SERIAL SUBSCRIPTIONS (INCLUDE PERIODICALS, NEWSPAPERS AND GOVERNMENT DOCUMENTS)  NUMBER OF TITLES*	28		· · · · · · · · · · · · · · · · · · ·
MICROFORMS			
NUMBER OF BOOK TITLES* REPRESENTED BY MICROFORMS	29		
NUMBER OF SERIAL TITLES* REPRESENTED BY MICROFORMS	30		
NUMBER OF GOVERNMENT DOCUMENT TITLES* REPRESENTED BY MICROFORMS AND NOT ALREADY COUNTED	31		
TOTAL NUMBER OF PHYSICAL UNITS (NOT TITLES) OF ALL TYPES OF MICROFORMS	32		
MANUSCRIPTS AND ARCHIVES (IN LINEAR FEET)	33		
CARTOGRAPHIC MATERIALS, NUMBER OF UNITS	34		
GRAPHIC MATERIALS, NUMBER OF UNITS	35		
AUDIO MATERIALS, NUMBER OF TITLES*	36		
FILMS, NUMBER OF TITLES*	37		
VIDEO MATERIALS, NUMBER OF TITLES*	38		
MACHINE READABLE MATERIALS, NUMBER OF TITLES*	39		
OTHER LIBRARY MATERIALS, NUMBER OF TITLES*	40		

<sup>\*</sup>EXCLUDE DUPLICATE COPIES

PART E - LIBRARY LOAN TRANSAC	CTIONS FISCAL	YFAR 1990
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CATEGORY	LINE NO.	NUMBER
CIRCULATION TRANSACTIONS GENERAL COLLECTION	41	
RESERVE COLLECTION	42	
INTERLIBRARY LOANS PROVIDED TO OTHER LIBRARIES	43	
RECEIVED FROM OTHER LIBRARIES	44	

PART F - LIBRARY SERVICE PER TYPICAL WEEK, FALL 1990

CATEGORY	LINE NO.	NUMBER
PUBLIC SERVICE HOURS PER TYPICAL WEEK	45	
ATTENDANCE IN LIBRARIES PER TYPICAL WEEK	46	
REFERENCE TRANSACTIONS PER TYPICAL WEEK	47	
ONLINE DATABASE SEARCHES PER TYPICAL WEEK (also included on line 47)	48	
INFORMATION SERVICE TO GROUPS NUMBER OF PRESENTATIONS PER TYPICAL WEEK	49	
NUMBER OF PERSONS SERVED IN PRESENTATIONS PER TYPICAL WEEK	50	