

ASSOCIATION OF RESEARCH LIBRARIES

ARL
SUPPLEMENTARY
STATISTICS
1997-98

A COMPILATION OF STATISTICS
FROM THE MEMBERS OF THE
ASSOCIATION OF RESEARCH LIBRARIES

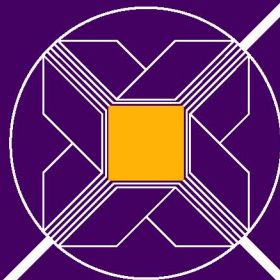


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**HIGHLIGHTS
ARLSUPPLEMENTARY STATISTICS**

ELECTRONIC RESOURCES 1997-98

- **Expenditures for Electronic Resources account for 8.85% of the Library Materials Budget**
- **100 ARLlibraries reported spending a total of \$19 million on electronic resources.**
- **33 ARLlibraries reported a total of \$1.6 million in additional funds expended on their behalf through a centrally funded consortium for purchasing electronic products and services.**
- **97 ARLlibraries reported spending more than \$10 million on document delivery/interlibrary loan services.**

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Table 1

Summary Statistics for University Libraries

| | Low | First Quartile | Mean | Median | Third Quartile | Maximum | Number Reporting |
|---|---------|-------------------|-----------|-----------|-------------------|-----------|---------------------|
| Computer Files (one-time/nonographic purchase) | 224 | 14,320 | 122,957 | 52,311 | 136,301 | 1,694,093 | 91 |
| Electronic Serials | 11,035 | 279,976 | 494,971 | 426,722 | 639,102 | 1,218,900 | 100 |
| a. Electronic indexes and reference tools | 3,366 | 154,259 | 338,193 | 305,242 | 512,923 | 885,136 | 37 |
| b. Electronic full text periodicals | 515 | 30,000 | 108,218 | 61,231 | 112,400 | 799,327 | 34 |
| Expenditures for Electronic Materials - computer files and serials | 31,018 | 316,649 | 594,963 | 495,011 | 806,670 | 2,209,662 | 102 |
| Percent of Library Materials Budget | .57% | 6.26% | 8.85% | 8.29% | 10.81% | 24.07% | 102 |
| Bibl. Utilities, Networks, etc. -- Library Exp | 17,066 | 107,000 | 207,446 | 184,804 | 273,100 | 645,956 | 101 |
| Bibl. Utilities, Networks, etc. -- External Exp | 1,058 | 34,047 | 142,295 | 128,795 | 208,565 | 393,835 | 33 |
| Computer Hardware and Software | 12,763 | 320,657 | 629,982 | 492,879 | 898,378 | 1,998,698 | 101 |
| Document Delivery/Interlibrary Loan | 7,140 | 52,570 | 107,133 | 82,739 | 121,447 | 538,283 | 97 |
| Bibl. records of locally owned materials | 535,662 | 1,315,346 | 2,037,823 | 1,680,372 | 2,394,346 | 8,213,653 | 102 |
| % of records in OPAC | 50% | 93% | 94% | 98% | 100% | 100% | 103 |
| In-house uses of materials | 61,676 | 512,342 | 914,534 | 715,781 | 1,100,951 | 4,598,285 | 81 |
| Staffed library service points | 6 | 16 | 26 | 22 | 31 | 80 | 105 |
| Weekly Service Hours | 65 | 99 | 109 | 107 | 114 | 168 | 105 |

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Table 2

Expenditures for Electronic Resources

| | Computer Files | Electronic Serials | Electronic Serials Indexes Referen. Tools | Electronic Serials Full-Text | Total Electronic Materials | Total Library Materials | Percent of Library Materials |
|---------------------------|-------------------|-----------------------|---|------------------------------------|----------------------------------|-------------------------------|------------------------------------|
| | 1 | 2 | 2a | 2b | 1+2 | | |
| ALABAMA | 336 | 337,108 | . | . | 337,444 | 3,726,540 | 9.06% |
| ALBERTA | . | . | . | . | . | 6,172,162 | . |
| ARIZONA | 163,532 | 927,488 | . | . | 1,091,020 | 8,343,234 | 13.08% |
| ARIZONA STATE | 338,776 | 977,879 | 706,765 | 98,778 | 1,316,655 | 8,250,336 | 15.96% |
| AUBURN | 32,775 | . | 389,039 | 18,385 | 32,775 | 4,331,131 | .76% |
| BOSTON | 152,382 | 309,976 | 41,080 | . | 462,358 | 4,930,455 | 9.38% |
| BRIGHAM YOUNG | 299,228 | 169,533 | . | . | 468,761 | 4,755,057 | 9.86% |
| BRITISH COLUMBIA | 80,205 | 1,209,398 | . | . | 1,289,603 | 7,239,062 | 17.81% |
| BROWN | 57,160 | 291,341 | . | . | 348,501 | 4,697,318 | 7.42% |
| CALIFORNIA, BERKELEY | . | . | . | . | . | 10,940,620 | . |
| CALIFORNIA, DAVIS | 65,743 | 21,518 | 13,163 | 8,355 | 87,261 | 5,939,195 | 1.47% |
| CALIFORNIA, IRVINE | 18,341 | 256,054 | . | . | 274,395 | 4,458,837 | 6.15% |
| CALIFORNIA, LOS ANGELES | . | 633,460 | . | . | 633,460 | 9,606,288 | 6.59% |
| CALIFORNIA, RIVERSIDE | 9,386 | 77,014 | 76,499 | 515 | 86,400 | 3,617,587 | 2.39% |
| CALIFORNIA, SAN DIEGO | 35,803 | 259,102 | . | . | 294,905 | 5,694,576 | 5.18% |
| CALIFORNIA, SANTA BARBARA | . | . | . | . | . | 3,316,315 | . |
| CASE WESTERN RESERVE | 8,628 | 414,219 | . | . | 422,847 | 4,313,856 | 9.80% |
| CHICAGO | 89,389 | 807,570 | . | . | 896,959 | 7,918,951 | 11.33% |
| CINCINNATI | 90,604 | 981,726 | . | . | 1,072,330 | 6,067,551 | 17.67% |
| COLORADO | 33,808 | 509,876 | . | . | 543,684 | 7,555,744 | 7.20% |
| COLORADO STATE | 2,120 | 364,730 | 301,896 | 62,834 | 366,850 | 4,528,305 | 8.10% |
| COLUMBIA | . | 926,640 | . | . | 926,640 | 11,441,445 | 8.10% |
| CONNECTICUT | 130,151 | 653,666 | . | . | 783,817 | 5,591,565 | 14.02% |
| CORNELL | 486,112 | 21,943 | . | . | 508,055 | 10,615,658 | 4.79% |
| DARTMOUTH | 17,361 | 578,222 | . | . | 595,583 | 5,062,574 | 11.76% |
| DELAWARE | 88,406 | 447,466 | . | . | 535,872 | 5,268,458 | 10.17% |
| DUKE | 133,587 | 1,088,328 | . | . | 1,221,915 | 9,531,559 | 12.82% |
| EMORY | 136,113 | 174,487 | . | . | 310,600 | 8,856,483 | 3.51% |
| FLORIDA | 42,485 | 454,905 | . | . | 497,390 | 8,941,049 | 5.56% |
| FLORIDA STATE | 2,005 | 520,721 | . | . | 522,726 | 5,225,776 | 10.00% |
| GEORGE WASHINGTON | 14,320 | 387,809 | . | . | 402,129 | 5,355,531 | 7.51% |
| GEORGETOWN | 28,445 | 548,933 | . | . | 577,378 | 6,286,327 | 9.18% |
| GEORGIA | 455,199 | 441,232 | 240,235 | 111,235 | 896,431 | 8,149,818 | 11.00% |
| GEORGIA TECH | 95,841 | 254,602 | 252,162 | 2,440 | 350,443 | 4,282,688 | 8.18% |
| GUELPH | 11,286 | 170,853 | . | . | 182,139 | 2,305,086 | 7.90% |

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Table 2

Expenditures for Electronic Resources

| | Computer Files | Electronic Serials | Electronic Serials Indexes Referen. Tools | Electronic Serials Full-Text | Total Electronic Materials | Total Library Materials | Percent of Library Materials |
|----------------------|-------------------|-----------------------|---|------------------------------------|----------------------------------|-------------------------------|------------------------------------|
| | 1 | 2 | 2a | 2b | 1+2 | | |
| HARVARD | 1,694,093 | 515,569 | . | . | 2,209,662 | 19,346,111 | 11.42% |
| HAWAII | 224 | 179,179 | 125,774 | 53,405 | 179,403 | 3,608,408 | 4.97% |
| HOUSTON | 97,751 | 412,196 | . | . | 509,947 | 4,864,116 | 10.48% |
| HOWARD | 5,000 | 420,232 | . | . | 425,232 | 4,801,554 | 8.86% |
| ILLINOIS, CHICAGO | 86,173 | 394,611 | 348,847 | 45,764 | 480,784 | 4,797,246 | 10.02% |
| ILLINOIS, URBANA | 86,748 | 592,267 | . | . | 679,015 | 8,766,170 | 7.75% |
| INDIANA | 60,432 | 610,410 | . | . | 670,842 | 9,016,440 | 7.44% |
| IOWA | 136,301 | 774,771 | . | . | 911,072 | 7,686,253 | 11.85% |
| IOWA STATE | 4,996 | 414,500 | . | . | 419,496 | 5,976,594 | 7.02% |
| JOHNS HOPKINS | 134,160 | 1,094,969 | 295,642 | 799,327 | 1,229,129 | 8,594,920 | 14.30% |
| KANSAS | 103,902 | 508,087 | 252,508 | 112,400 | 611,989 | 5,948,806 | 10.29% |
| KENT STATE | 17,469 | 161,658 | . | . | 179,127 | 2,904,859 | 6.17% |
| KENTUCKY | 33,593 | 501,741 | . | . | 535,334 | 5,893,693 | 9.08% |
| LAVAL | 20,133 | 261,952 | . | . | 282,085 | 4,663,873 | 6.05% |
| LOUISIANA STATE | 35,841 | 191,640 | . | . | 227,481 | 4,149,699 | 5.48% |
| MCGILL | . | 632,024 | . | . | 632,024 | 5,587,968 | 11.31% |
| MCMASTER | 4,491 | 180,645 | . | . | 185,136 | 3,507,054 | 5.28% |
| MANITOBA | . | . | . | . | . | 3,074,923 | . |
| MARYLAND | 38,212 | 454,420 | . | . | 492,632 | 5,839,425 | 8.44% |
| MASSACHUSETTS | 756 | 315,893 | 204,345 | 105,117 | 316,649 | 4,269,080 | 7.42% |
| MT | 52,311 | 525,018 | 512,923 | 12,095 | 577,329 | 4,168,581 | 13.85% |
| MIAM | 6,605 | 301,847 | . | . | 308,452 | 5,795,223 | 5.32% |
| MICHIGAN | 316,444 | 1,195,461 | . | . | 1,511,905 | 14,258,911 | 10.60% |
| MICHIGAN STATE | 216,125 | 481,497 | 327,217 | 154,280 | 697,622 | 5,853,308 | 11.92% |
| MINNESOTA | 158,499 | 707,887 | 668,527 | 39,360 | 866,386 | 9,333,452 | 9.28% |
| MISSOURI | . | 189,841 | 81,694 | 108,147 | 189,841 | 4,806,620 | 3.95% |
| NEBRASKA | 12,224 | 281,086 | . | . | 293,310 | 5,151,691 | 5.69% |
| NEW MEXICO | 40,000 | 641,254 | 310,000 | 30,000 | 681,254 | 4,942,529 | 13.78% |
| NEW YORK | 17,121 | 623,325 | 536,473 | 86,852 | 640,446 | 8,859,560 | 7.23% |
| NORTH CAROLINA | 193,363 | 775,316 | . | . | 968,679 | 8,963,321 | 10.81% |
| NORTH CAROLINA STATE | 881,552 | 773,118 | 506,427 | 281,296 | 1,654,670 | 6,875,182 | 24.07% |
| NORTHWESTERN | 34,048 | 634,230 | 305,242 | 183,921 | 668,278 | 7,033,193 | 9.50% |
| NOTRE DAME | . | 402,848 | . | . | 402,848 | 6,291,130 | 6.40% |
| OHIO | 1,860 | 212,867 | 160,474 | 52,393 | 214,727 | 4,152,727 | 5.17% |
| OHIO STATE | . | . | . | . | . | 9,166,910 | . |

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Table 2

Expenditures for Electronic Resources

| | Computer Files | Electronic Serials | Electronic Serials Indexes Referen. Tools | Electronic Serials Full-Text | Total Electronic Materials | Total Library Materials | Percent of Library Materials |
|---------------------------|-------------------|-----------------------|---|------------------------------------|----------------------------------|-------------------------------|------------------------------------|
| | 1 | 2 | 2a | 2b | 1+2 | | |
| OKLAHOMA | 930 | 281,761 | 109,500 | 1,500 | 282,691 | 5,283,996 | 5.35% |
| OKLAHOMA STATE | . | 448,727 | . | . | 448,727 | 4,107,201 | 10.93% |
| OREGON | . | . | . | . | . | 5,168,061 | . |
| PENNSYLVANIA | 10,323 | 1,218,900 | . | . | 1,229,223 | 9,160,556 | 13.42% |
| PENNSYLVANIA STATE | 121,048 | 938,444 | 723,274 | 20,621 | 1,059,492 | 11,697,412 | 9.06% |
| PITTSBURGH | 943,976 | 180,980 | . | . | 1,124,956 | 7,411,328 | 15.18% |
| PRINCETON | 167,604 | 527,958 | . | . | 695,562 | 10,183,164 | 6.83% |
| PURDUE | 118,193 | 339,115 | . | . | 457,308 | 4,635,650 | 9.87% |
| QUEEN' S | . | 277,090 | . | . | 277,090 | 3,754,926 | 7.38% |
| RICE | 21,797 | 366,802 | 336,528 | 30,274 | 388,599 | 6,115,613 | 6.35% |
| ROCHESTER | 12,459 | 636,950 | 154,259 | 82,889 | 649,409 | 4,531,589 | 14.33% |
| RUTGERS | 85,869 | 735,262 | . | . | 821,131 | 7,653,456 | 10.73% |
| SASKATCHEWAN | . | 209,903 | . | . | 209,903 | 3,762,094 | 5.58% |
| SOUTH CAROLINA | 49,525 | 462,786 | 346,651 | 116,135 | 512,311 | 5,548,719 | 9.23% |
| SOUTHERN CALIFORNIA | 19,362 | 398,814 | 69,069 | 18,503 | 418,176 | 7,717,386 | 5.42% |
| SOUTHERN ILLINOIS | . | 372,680 | 3,366 | . | 372,680 | 4,734,588 | 7.87% |
| STANFORD | . | . | . | . | . | 14,564,206 | . |
| SUNY-ALBANY | 9,472 | 215,651 | . | . | 225,123 | 3,631,310 | 6.20% |
| SUNY-BUFFALO | 74,600 | 392,450 | . | . | 467,050 | 5,094,644 | 9.17% |
| SUNY-STONY BROOK | 8,699 | 377,865 | . | . | 386,564 | 4,656,180 | 8.30% |
| SYRACUSE | . | . | . | . | . | 3,733,575 | . |
| TEMPLE | 165,491 | 127,086 | . | . | 292,577 | 4,676,771 | 6.26% |
| TENNESSEE | 2,965 | 386,502 | 326,874 | 59,628 | 389,467 | 5,179,318 | 7.52% |
| TEXAS | 78,657 | 728,013 | 593,560 | 134,423 | 806,670 | 10,307,170 | 7.83% |
| TEXAS A&M | 232,319 | 1,138,493 | 805,080 | 333,413 | 1,370,812 | 8,577,570 | 15.98% |
| TEXAS TECH | 1,400 | 342,988 | 93,682 | . | 344,388 | 5,441,465 | 6.33% |
| TORONTO | 163,439 | 923,388 | 885,136 | 38,252 | 1,086,827 | 13,114,346 | 8.29% |
| TULANE | 15,000 | 252,287 | . | . | 267,287 | 4,078,206 | 6.55% |
| UTAH | . | 345,850 | . | . | 345,850 | 6,828,130 | 5.07% |
| VANDERBILT | 138,648 | 604,440 | . | . | 743,088 | 6,309,076 | 11.78% |
| VIRGINIA | 224,145 | 433,213 | . | . | 657,358 | 7,612,143 | 8.64% |
| VIRGINIA TECH | 19,983 | 11,035 | . | . | 31,018 | 5,439,045 | .57% |
| WASHINGTON | 33,541 | 992,416 | 641,075 | 351,341 | 1,025,957 | 8,617,903 | 11.90% |
| WASHINGTON STATE | . | . | . | . | . | 4,564,575 | . |
| WASHINGTON U. - ST. LOUIS | 245,015 | 871,686 | 528,689 | 86,143 | 1,116,701 | 6,883,541 | 16.22% |

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Table 2

Expenditures for Electronic Resources

| | Computer Files | Electronic Serials | Electronic Serials Indexes Referen. Tools 2a | Electronic Serials Full-Text 2b | Total Electronic Materials 1+2 | Total Library Materials | Percent of Library Materials |
|---------------------------|-------------------|-----------------------|---|--|---|-------------------------------|------------------------------------|
| | 1 | 2 | 2a | 2b | 1+2 | | |
| WATERLOO | . | 206,704 | . | . | 206,704 | 3,206,464 | 6.45% |
| WAYNE STATE | 369,577 | . | . | . | 369,577 | 5,397,018 | 6.85% |
| WESTERN ONTARIO | 14,719 | 278,866 | 239,472 | 39,395 | 293,585 | 5,062,518 | 5.80% |
| WISCONSIN | 79,022 | 782,484 | . | . | 861,506 | 8,136,068 | 10.59% |
| YALE | 144,000 | 779,000 | . | . | 923,000 | 16,396,000 | 5.63% |
| YORK | 7,371 | 330,393 | . | . | 337,764 | 4,062,362 | 8.31% |
| BOSTON PUBLIC LIBRARY | . | 160,000 | 93,435 | 66,565 | 160,000 | 5,607,597 | 2.85% |
| CANADA INST. FOR SCITECH | . | 359,032 | . | . | 359,032 | 5,409,101 | 6.64% |
| CENTER FOR RESEARCH LIBS. | . | . | . | . | . | 1,153,431 | . |
| LIBRARY OF CONGRESS | 3,193 | 276,223 | . | . | 279,416 | 6,287,005 | 4.44% |
| LINDA HALL LIBRARY | . | . | 32,561 | . | . | 2,291,560 | . |
| NATL. AGRICULTURAL LIB. | 800 | 916,980 | 1,259,062 | 25,375 | 917,780 | 2,249,742 | 40.79% |
| NATL. LIBRARY OF CANADA | . | 55,033 | . | . | 55,033 | 1,163,249 | 4.73% |
| NATL. LIBRARY OF MEDICINE | 52,197 | 195,500 | . | . | 247,697 | 5,267,000 | 4.70% |
| NEW YORK PUBLIC LIBRARY | 46,577 | 678,858 | . | . | 725,435 | 10,367,695 | 7.00% |
| NEW YORK STATE LIBRARY | 3,699 | 185,368 | . | . | 189,067 | 2,183,552 | 8.66% |
| SMITHSONIAN INSTITUTION | . | . | . | . | . | 1,638,040 | . |

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Table 3

Expenditures for Electronic Resources

| | Bibliographic Utilities Networks & Consortia Library 3a | Bibliographic Utilities Networks & Consortia External 3b | Computer Hardware & Software 4 | Document Delivery Interlibrary Loan 5 |
|---------------------------|--|---|---|---|
| ALABAMA | 120,557 | 34,047 | 1,100,365 | 7,140 |
| ALBERTA | . | . | . | . |
| ARIZONA | 17,255 | 4,220 | 532,523 | 394,536 |
| ARIZONA STATE | 339,881 | . | 740,449 | 116,575 |
| AUBURN | 101,000 | 20,000 | 213,471 | 105,000 |
| BOSTON | 184,028 | . | 209,600 | 49,333 |
| BRIGHAM YOUNG | 403,780 | . | 921,688 | 29,441 |
| BRITISH COLUMBIA | 67,126 | . | 897,157 | 176,956 |
| BROWN | 169,356 | . | 316,567 | 69,315 |
| CALIFORNIA, BERKELEY | . | 208,565 | . | . |
| CALIFORNIA, DAVIS | 94,766 | 160,054 | 421,263 | 137,242 |
| CALIFORNIA, IRVINE | 178,350 | 120,427 | 448,111 | 115,913 |
| CALIFORNIA, LOS ANGELES | 317,275 | 231,419 | 1,915,726 | 538,283 |
| CALIFORNIA, RIVERSIDE | 107,504 | 66,698 | 132,904 | 41,910 |
| CALIFORNIA, SAN DIEGO | 222,100 | 129,717 | 916,996 | 228,893 |
| CALIFORNIA, SANTA BARBARA | 275,000 | 128,795 | 500,000 | 90,000 |
| CASE WESTERN RESERVE | 86,964 | . | 348,277 | 29,347 |
| CHICAGO | 269,420 | . | 540,411 | 109,289 |
| CINCINNATI | 144,768 | 393,835 | 805,045 | 163,916 |
| COLORADO | 390,503 | . | 471,291 | 80,329 |
| COLORADO STATE | 280,971 | 205,998 | 404,581 | 123,915 |
| COLUMBIA | 387,370 | . | . | . |
| CONNECTICUT | 337,658 | . | 606,227 | 66,847 |
| CORNELL | 379,801 | . | 649,960 | 67,844 |
| DARTMOUTH | 89,500 | . | 184,568 | 19,754 |
| DELAWARE | 75,055 | . | 236,839 | 139,729 |
| DUKE | 352,553 | 75,000 | 889,892 | 60,919 |
| EMORY | 340,190 | . | 381,959 | 24,022 |
| FLORIDA | 227,093 | . | 376,004 | 68,797 |
| FLORIDA STATE | 101,317 | . | 442,300 | 73,971 |
| GEORGE WASHINGTON | 614,274 | 15,503 | 490,274 | 198,491 |
| GEORGETOWN | 205,090 | . | 917,726 | 31,559 |
| GEORGIA | 209,959 | 209,337 | 538,615 | 82,739 |
| GEORGIA TECH | 90,000 | 117,073 | 467,235 | 60,891 |
| GUELPH | . | . | 738,106 | 90,595 |

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Table 3

Expenditures for Electronic Resources

| | Bibliographic Utilities Networks & Consortia Library 3a | Bibliographic Utilities Networks & Consortia External 3b | Computer Hardware & Software 4 | Document Delivery Interlibrary Loan 5 |
|----------------------|--|---|---|---|
| HARVARD | 618,999 | . | 1,398,268 | 98,950 |
| HAWAII | 73,000 | . | 184,354 | 39,315 |
| HOUSTON | 137,033 | . | 539,956 | 417,818 |
| HOWARD | 90,000 | . | 203,218 | 29,357 |
| ILLINOIS, CHICAGO | 304,206 | . | 585,460 | 112,047 |
| ILLINOIS, URBANA | 452,124 | . | 898,378 | 58,654 |
| INDIANA | 245,306 | . | 1,005,263 | 125,355 |
| IOWA | 189,057 | . | 1,131,436 | 121,447 |
| IOWA STATE | 157,996 | . | 745,206 | 96,097 |
| JOHNS HOPKINS | 283,818 | 1,133 | 1,314,786 | 171,970 |
| KANSAS | 269,425 | . | 403,806 | 237,021 |
| KENT STATE | 58,573 | 333,200 | 225,904 | . |
| KENTUCKY | 107,000 | . | 766,501 | 105,259 |
| LAVAL | 91,571 | . | 126,111 | 77,210 |
| LOUISIANA STATE | 279,118 | 119,988 | 468,239 | 169,217 |
| MC GILL | 138,122 | . | 158,690 | 97,454 |
| MCMASTER | 31,129 | 1,058 | 115,779 | 52,570 |
| MANITOBA | . | . | . | . |
| MARYLAND | 202,841 | 167,801 | 204,474 | 63,160 |
| MASSACHUSETTS | 163,353 | 30,000 | 368,691 | 68,663 |
| MT | 117,378 | . | 421,129 | 70,720 |
| MIAM | 126,083 | . | 134,010 | 40,409 |
| MCHIGAN | 533,191 | 39,938 | 1,087,663 | 302,802 |
| MCHIGAN STATE | 238,115 | . | 658,107 | 91,092 |
| MINNESOTA | 247,022 | 322,767 | 1,998,698 | 213,331 |
| MISSOURI | 159,450 | 228,906 | 188,337 | . |
| NEBRASKA | 195,851 | 14,400 | 417,424 | 59,336 |
| NEW MEXICO | 227,522 | . | 320,657 | 57,188 |
| NEW YORK | 496,754 | . | 576,805 | . |
| NORTH CAROLINA | 232,122 | . | 1,273,912 | 73,382 |
| NORTH CAROLINA STATE | 66,156 | . | 1,330,992 | 54,213 |
| NORTHWESTERN | 96,117 | . | 668,673 | 116,431 |
| NOIRE DAME | 180,700 | . | 1,037,874 | . |
| OHIO | 175,125 | 352,700 | 270,618 | 63,990 |
| OHIO STATE | . | . | . | . |

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Table 3

Expenditures for Electronic Resources

| | Bibliographic Utilities Networks & Consortia Library 3a | Bibliographic Utilities Networks & Consortia External 3b | Computer Hardware & Software 4 | Document Delivery Interlibrary Loan 5 |
|---------------------------|--|---|---|---|
| OKLAHOMA | 149,402 | . | 322,728 | 206,256 |
| OKLAHOMA STATE | 87,720 | . | 449,053 | 141,064 |
| OREGON | . | . | . | . |
| PENNSYLVANIA | 365,124 | . | 1,659,579 | 128,131 |
| PENNSYLVANIA STATE | 171,399 | . | 1,206,803 | 58,871 |
| PITTSBURGH | 184,804 | . | 951,725 | 80,078 |
| PRINCETON | 645,956 | . | . | 38,731 |
| PURDUE | 75,028 | . | 1,153,384 | 305,917 |
| QUEEN' S | 17,066 | . | 74,360 | 42,185 |
| RICE | 88,334 | . | 313,383 | 84,891 |
| ROCHESTER | 33,748 | . | 376,847 | 69,751 |
| RUTGERS | 228,042 | . | 672,070 | 61,430 |
| SASKATCHEWAN | . | . | 195,100 | 45,098 |
| SOUTH CAROLINA | 204,850 | . | 463,972 | 47,576 |
| SOUTHERN CALIFORNIA | 197,530 | 329,546 | 924,511 | 112,437 |
| SOUTHERN ILLINOIS | 196,224 | . | 456,050 | 152,009 |
| STANFORD | . | . | . | . |
| SUNY- ALBANY | 221,818 | . | 293,271 | 33,961 |
| SUNY- BUFFALO | 129,000 | . | 750,000 | . |
| SUNY- STONY BROOK | 198,344 | . | . | 16,161 |
| SYRACUSE | . | . | . | . |
| TEMPLE | 273,100 | . | 370,600 | 33,953 |
| TENNESSEE | 167,031 | . | 371,001 | 207,287 |
| TEXAS | 121,478 | . | 1,194,794 | 118,007 |
| TEXAS A&M | 319,871 | 99,580 | 630,864 | 268,092 |
| TEXAS TECH | 129,375 | 22,500 | 368,042 | 94,582 |
| TORONTO | 248,687 | . | 1,022,095 | 85,120 |
| TULANE | . | . | 1,011,313 | 30,207 |
| UTAH | 192,949 | 182,865 | 1,486,687 | 40,024 |
| VANDERBILT | 127,909 | . | 522,774 | 95,411 |
| VIRGINIA | 117,092 | 187,000 | 492,879 | 331,512 |
| VIRGINIA TECH | 91,860 | 141,667 | 153,732 | 85,036 |
| WASHINGTON | 406,091 | . | 12,763 | . |
| WASHINGTON STATE | 186,674 | . | 225,077 | 106,669 |
| WASHINGTON U. - ST. LOUIS | 303,938 | . | 540,185 | 113,267 |

ARL Supplementary Statistics Questionnaire 1997-98

Table 3

Expenditures for Electronic Resources

| | Bibliographic Utilities Networks & Consortia Library 3a | Bibliographic Utilities Networks & Consortia External 3b | Computer Hardware & Software 4 | Document Delivery Interlibrary Loan 5 |
|---------------------------|--|---|---|---|
| WATERLOO | 44,360 | . | 558,599 | 45,597 |
| WAYNE STATE | 120,834 | . | 353,384 | 62,835 |
| WESTERN ONTARIO | 69,714 | . | 276,689 | 23,619 |
| WISCONSIN | 189,104 | . | 1,696,945 | 111,997 |
| YALE | 414,000 | . | 1,976,000 | 16,000 |
| YORK | 68,919 | . | 115,424 | 20,151 |
| BOSTON PUBLIC LIBRARY | 162,000 | 11,000 | 300,000 | 10,930 |
| CANADA INST. FORSCITECH | 58,546 | . | 2,045,567 | 894,260 |
| CENTER FOR RESEARCH LIBS. | 35,819 | . | 34,420 | 126,324 |
| LIBRARY OF CONGRESS | 747,992 | . | 10,553,249 | . |
| LINDA HALL LIBRARY | 70,456 | . | 291,712 | . |
| NATL. AGRICULTURAL LIB. | 125,040 | . | 535,000 | 965,745 |
| NATL. LIBRARY OF CANADA | 698,352 | . | 1,356,032 | 189,802 |
| NATL. LIBRARY OF MEDICINE | . | . | 423,000 | 1,114,413 |
| NEWYORK PUBLIC LIBRARY | 807,016 | . | 888,218 | . |
| NEWYORK STATE LIBRARY | 123,055 | . | 300,909 | 8,930 |
| SMITHSONIAN INSTITUTION | . | . | . | . |

ARL Supplementary Statistics Questionnaire 1997-98

Table 4

Bibliographic Records, Inhouse Use, and Services

| | Biblio- graphic Records | % records in OPAC | Inhouse Material Use | Service Points | Service Hours | Footnote |
|---------------------------|-------------------------------|----------------------|----------------------------|-------------------|------------------|----------|
| | 6 | 7 | 8 | 9 | 10 | 11 |
| ALABAMA | 1,002,173 | 99% | . | 20 | 102 | . |
| ALBERTA | . | . | . | . | . | . |
| ARIZONA | 2,361,321 | 98% | 1,195,312 | 25 | 168 | yes |
| ARIZONA STATE | 2,172,631 | 99% | 1,582,119 | 30 | 102 | yes |
| AUBURN | 1,869,048 | 100% | 1,096,213 | 11 | 99 | . |
| BOSTON | 1,355,647 | 98% | 2,636,800 | 24 | 108 | . |
| BRIGHAM YOUNG | 2,412,100 | 95% | 783,030 | 18 | 101 | . |
| BRITISH COLUMBIA | 2,559,158 | 80% | . | 31 | 101 | yes |
| BROWN | 1,548,410 | 96% | 512,342 | 16 | 111 | yes |
| CALIFORNIA, BERKELEY | . | . | 1,426,150 | 27 | 90 | . |
| CALIFORNIA, DAVIS | 1,474,723 | 100% | 1,100,951 | 13 | 87 | yes |
| CALIFORNIA, IRVINE | 1,332,603 | 100% | 895,172 | 18 | 93 | . |
| CALIFORNIA, LOS ANGELES | 4,071,188 | 99% | 4,598,285 | 34 | 100 | yes |
| CALIFORNIA, RIVERSIDE | 1,396,425 | 100% | 368,879 | 17 | 97 | . |
| CALIFORNIA, SAN DIEGO | 1,848,961 | 100% | . | 25 | 109 | yes |
| CALIFORNIA, SANTA BARBARA | 1,800,000 | 95% | . | 15 | 95 | yes |
| CASE WESTERN RESERVE | 984,510 | 90% | 236,555 | 18 | 109 | yes |
| CHICAGO | 2,821,566 | 71% | 396,604 | 32 | 111 | . |
| CINCINNATI | 1,678,154 | 98% | . | 30 | 107 | yes |
| COLORADO | 1,777,991 | 80% | . | 25 | 104 | yes |
| COLORADO STATE | 1,114,000 | 95% | 312,102 | 11 | 108 | yes |
| COLUMBIA | 3,134,831 | 76% | . | 50 | 104 | . |
| CONNECTICUT | 1,601,902 | 96% | . | 22 | 114 | . |
| CORNELL | 3,151,399 | 80% | 725,388 | 40 | 104 | yes |
| DARTMOUTH | 1,432,761 | 99% | . | 18 | 112 | . |
| DELAWARE | 1,315,346 | 100% | 695,840 | 17 | 100 | yes |
| DUKE | 2,536,983 | 95% | 715,781 | 27 | 123 | . |
| EMORY | . | 95% | 582,304 | 20 | 139 | yes |
| FLORIDA | 2,973,600 | 99% | 929,682 | 32 | 108 | . |
| FLORIDA STATE | 1,787,235 | 99% | 61,676 | 11 | 110 | yes |
| GEORGE WASHINGTON | 896,903 | 100% | 656,487 | 19 | 111 | yes |
| GEORGETOWN | 1,280,466 | 99% | 568,072 | 24 | 107 | yes |
| GEORGIA | 1,794,320 | 90% | 1,700,000 | 22 | 104 | . |
| GEORGIA TECH | 535,662 | 100% | 331,816 | 13 | 96 | yes |
| GUELPH | 1,128,808 | 100% | 1,129,099 | 6 | 106 | yes |

ARL Supplementary Statistics Questionnaire 1997-98

Table 4

Bibliographic Records, Inhouse Use, and Services

| | Biblio- graphic Records | % records in OPAC | Inhouse Material Use | Service Points | Service Hours | Footnote |
|----------------------|-------------------------------|----------------------|----------------------------|-------------------|------------------|----------|
| | 6 | 7 | 8 | 9 | 10 | 11 |
| HARVARD | 8,213,653 | 95% | . | . | . | yes |
| HAWAII | 1,776,240 | 99% | 755,562 | 15 | 87 | yes |
| HOUSTON | 981,233 | 90% | 484,073 | 11 | 103 | . |
| HOWARD | 1,000,000 | 50% | 300,000 | 18 | 124 | . |
| ILLINOIS, CHICAGO | 1,599,313 | 96% | 846,335 | 25 | 97 | . |
| ILLINOIS, URBANA | 4,100,000 | 98% | . | 27 | 107 | . |
| INDIANA | 2,774,934 | 86% | 1,426,171 | 78 | 115 | yes |
| IOWA | 1,820,077 | 70% | 961,886 | 31 | 107 | . |
| IOWA STATE | 1,178,145 | 99% | 486,204 | 16 | 105 | . |
| JOHNS HOPKINS | 2,155,293 | 95% | 1,019,630 | 30 | 120 | . |
| KANSAS | 1,961,761 | 88% | 941,057 | 24 | 103 | yes |
| KENT STATE | 1,515,614 | 100% | . | 27 | 102 | . |
| KENTUCKY | 1,573,261 | 98% | 668,163 | 39 | 144 | yes |
| LAVAL | 1,142,701 | 96% | 1,148,740 | 17 | 88 | yes |
| LOUISIANA STATE | 1,145,807 | 98% | 258,248 | 17 | 111 | . |
| MCGILL | 1,782,967 | 92% | 1,932,640 | 34 | 78 | yes |
| MCMASTER | 1,171,000 | 100% | . | 13 | 100 | . |
| MANITOBA | . | . | . | . | . | . |
| MARYLAND | 1,692,578 | 100% | 994,178 | 6 | 98 | yes |
| MASSACHUSETTS | 1,541,868 | 98% | 460,640 | 18 | 105 | . |
| MT | 818,035 | 89% | 577,304 | 18 | 115 | . |
| MIAM | 1,137,069 | 85% | 687,789 | 18 | 119 | . |
| MICHIGAN | 3,806,643 | 100% | 2,093,986 | 50 | 168 | . |
| MICHIGAN STATE | 2,394,346 | 99% | . | 27 | 114 | yes |
| MINNESOTA | 2,936,499 | 100% | 676,778 | 61 | 106 | . |
| MISSOURI | 1,571,149 | 92% | 408,089 | 31 | 104 | yes |
| NEBRASKA | 1,636,460 | 98% | 634,868 | 21 | 96 | yes |
| NEW MEXICO | 1,716,089 | 95% | 365,119 | 26 | 112 | yes |
| NEW YORK | 1,450,132 | 99% | . | 7 | 84 | . |
| NORTH CAROLINA | 2,175,259 | 89% | 413,929 | 31 | 145 | yes |
| NORTH CAROLINA STATE | 1,276,497 | 100% | 471,078 | 14 | 146 | . |
| NORTHWESTERN | 2,678,638 | 95% | 576,400 | 35 | 123 | . |
| NOTRE DAME | 1,682,589 | 90% | 83,618 | 17 | 130 | . |
| OHIO | 1,540,393 | 95% | 512,765 | 20 | 104 | . |
| OHIO STATE | . | . | . | . | . | . |

ARL Supplementary Statistics Questionnaire 1997-98

Table 4

Bibliographic Records, Inhouse Use, and Services

| | Biblio- graphic Records | % records in OPAC | Inhouse Mterial Use | Service Points | Service Hours | Footnote |
|---------------------------|-------------------------------|----------------------|---------------------------|-------------------|------------------|----------|
| | 6 | 7 | 8 | 9 | 10 | 11 |
| OKLAHOMA | 1,630,213 | 97% | 865,892 | 27 | 108 | . |
| OKLAHOMA STATE | 1,056,065 | 100% | 482,035 | 21 | 116 | . |
| OREGON | . | . | . | . | . | . |
| PENNSYLVANIA | 2,267,873 | 85% | 2,146,924 | 36 | 115 | yes |
| PENNSYLVANIA STATE | 1,943,960 | 100% | 1,031,897 | 61 | 168 | yes |
| PITTSBURGH | 3,029,389 | 97% | 984,623 | 57 | 120 | . |
| PRINCETON | 7,657,747 | 100% | . | 38 | 110 | . |
| PURDUE | 1,036,460 | 100% | 1,174,953 | 24 | 114 | yes |
| QUEEN' S | 1,543,293 | 99% | 744,051 | 16 | 95 | yes |
| RICE | 1,433,834 | 100% | . | 10 | 143 | . |
| ROCHESTER | 1,775,467 | . | 674,499 | 13 | 116 | yes |
| RUTGERS | 1,441,443 | 82% | . | 39 | 108 | yes |
| SASKATCHEWAN | 1,503,480 | 99% | 545,961 | 11 | 90 | yes |
| SOUTH CAROLINA | 2,295,064 | 100% | . | 16 | 111 | . |
| SOUTHERN CALIFORNIA | 1,521,386 | 89% | 592,144 | 33 | 159 | yes |
| SOUTHERN ILLINOIS | 1,701,205 | 98% | . | 14 | 92 | yes |
| STANFORD | 4,000,000 | 100% | 1,276,130 | 42 | 96 | . |
| SUNY-ALBANY | 1,108,368 | 100% | 570,790 | 8 | 96 | yes |
| SUNY-BUFFALO | 1,950,000 | 97% | . | 24 | 95 | . |
| SUNY-STONY BROOK | 1,077,274 | 99% | 741,342 | 16 | 97 | yes |
| SYRACUSE | . | . | . | . | . | . |
| TEMPLE | 963,233 | 70% | 681,060 | 27 | 99 | yes |
| TENNESSEE | 1,182,260 | 100% | 813,584 | 17 | 96 | yes |
| TEXAS | 3,912,463 | 93% | 1,551,500 | 41 | 107 | yes |
| TEXAS A&M | 1,914,841 | 100% | 639,520 | 21 | 120 | yes |
| TEXAS TECH | 2,981,535 | 85% | 136,905 | 29 | 114 | yes |
| TORONTO | 4,630,000 | 100% | 3,097,761 | 80 | 100 | . |
| TULANE | . | 100% | 234,290 | 15 | 113 | . |
| UTAH | 4,139,905 | 99% | 742,232 | 19 | 105 | yes |
| VANDERBILT | 1,663,897 | 100% | 1,038,596 | 28 | 111 | . |
| VIRGINIA | 3,047,002 | 98% | . | 38 | 116 | . |
| VIRGINIA TECH | 1,074,455 | 99% | 524,498 | 14 | 107 | . |
| WASHINGTON | 3,051,708 | 99% | 1,975,409 | 53 | 106 | . |
| WASHINGTON STATE | 994,871 | 92% | 700,310 | 23 | 114 | . |
| WASHINGTON U. - ST. LOUIS | 1,348,938 | 100% | 377,965 | 27 | 120 | yes |

ARL Supplementary Statistics Questionnaire 1997-98

Table 4

Bibliographic Records, Inhouse Use, and Services

| | Biblio- graphic Records | % records in OPAC | Inhouse Mterial Use | Service Points | Service Hours | Footnote |
|---------------------------|-------------------------------|----------------------|---------------------------|-------------------|------------------|----------|
| | 6 | 7 | 8 | 9 | 10 | 11 |
| WATERLOO | 1,296,973 | 95% | . | 16 | 65 | . |
| WAYNE STATE | 1,684,454 | 100% | 1,567,980 | 21 | 97 | . |
| WESTERN ONTARIO | . | 99% | . | 14 | 96 | yes |
| WISCONSIN | 3,714,237 | . | 1,511,983 | 67 | 131 | . |
| YALE | 3,817,594 | 63% | 1,230,526 | 44 | 111 | yes |
| YORK | 1,369,991 | 100% | . | 22 | 88 | yes |
| BOSTON PUBLIC LIBRARY | 1,880,000 | 31% | 1,272,351 | 101 | 68 | . |
| CANADA INST. FOR SCITECH | 653,697 | 97% | . | 2 | 40 | . |
| CENTER FOR RESEARCH LIBS. | 483,206 | 95% | 2,788 | 2 | 40 | . |
| LIBRARY OF CONGRESS | 11,822,624 | 100% | 2,007,554 | 38 | 65 | . |
| LINDA HALL LIBRARY | 454,368 | 98% | 26,611 | 1 | 50 | yes |
| NATL. AGRICULTURAL LIB. | 671,665 | 74% | 28,959 | 6 | 40 | . |
| NATL. LIBRARY OF CANADA | 2,000,000 | 100% | 110,842 | 4 | 43 | yes |
| NATL. LIBRARY OF MEDICINE | 725,862 | 100% | 310,310 | 5 | 48 | yes |
| NEW YORK PUBLIC LIBRARY | 3,700,000 | 65% | 2,428,082 | 42 | 49 | . |
| NEW YORK STATE LIBRARY | 1,400,209 | 100% | 250,000 | 9 | 40 | . |
| SMITHSONIAN INSTITUTION | . | . | . | . | . | . |

Rank Order Table 1:
Expenditures for Electronic Materials as a Percent of Total Library Materials Expenditures
Ranked by Percent 1997-98

| | Computer Files | Electronic Serials | Electronic Serials Indexes Referen. Tools | Electronic Serials Full-Text | Total Electronic Materials | Total Library Materials | Percent of Library Materials | Rank Of % |
|---------------------------|-------------------|-----------------------|---|------------------------------------|----------------------------------|-------------------------------|------------------------------------|--------------|
| | 1 | 2 | 2a | 2b | 1+2 | | | |
| ALBERTA | . | . | . | . | . | 6,172,162. | | |
| CALIFORNIA, BERKELEY | . | . | . | . | . | 10,940,620. | | |
| CALIFORNIA, SANTA BARBARA | . | . | . | . | . | 3,316,315. | | |
| MANITOBA | . | . | . | . | . | 3,074,923. | | |
| OHIO STATE | . | . | . | . | . | 9,166,910. | | |
| OREGON | . | . | . | . | . | 5,168,061. | | |
| STANFORD | . | . | . | . | . | 14,564,206. | | |
| SYRACUSE | . | . | . | . | . | 3,733,575. | | |
| WASHINGTON STATE | . | . | . | . | . | 4,564,575. | | |
| NORTH CAROLINA STATE | 881,552 | 773,118 | 506,427 | 281,296 | 1,654,670 | 6,875,182 | 24.07% | 1 |
| BRITISH COLUMBIA | 80,205 | 1,209,398. | . | . | 1,289,603 | 7,239,062 | 17.81% | 2 |
| CINCINNATI | 90,604 | 981,726. | . | . | 1,072,330 | 6,067,551 | 17.67% | 3 |
| WASHINGTON U. - ST. LOUIS | 245,015 | 871,686 | 528,689 | 86,143 | 1,116,701 | 6,883,541 | 16.22% | 4 |
| TEXAS A&M | 232,319 | 1,138,493 | 805,080 | 333,413 | 1,370,812 | 8,577,570 | 15.98% | 5 |
| ARIZONA STATE | 338,776 | 977,879 | 706,765 | 98,778 | 1,316,655 | 8,250,336 | 15.96% | 6 |
| PITTSBURGH | 943,976 | 180,980. | . | . | 1,124,956 | 7,411,328 | 15.18% | 7 |
| ROCHESTER | 12,459 | 636,950 | 154,259 | 82,889 | 649,409 | 4,531,589 | 14.33% | 8 |
| JOHNS HOPKINS | 134,160 | 1,094,969 | 295,642 | 799,327 | 1,229,129 | 8,594,920 | 14.30% | 9 |
| CONNECTICUT | 130,151 | 653,666. | . | . | 783,817 | 5,591,565 | 14.02% | 10 |
| MT | 52,311 | 525,018 | 512,923 | 12,095 | 577,329 | 4,168,581 | 13.85% | 11 |
| NEW MEXICO | 40,000 | 641,254 | 310,000 | 30,000 | 681,254 | 4,942,529 | 13.78% | 12 |
| PENNSYLVANIA | 10,323 | 1,218,900. | . | . | 1,229,223 | 9,160,556 | 13.42% | 13 |
| ARIZONA | 163,532 | 927,488. | . | . | 1,091,020 | 8,343,234 | 13.08% | 14 |
| DUKE | 133,587 | 1,088,328. | . | . | 1,221,915 | 9,531,559 | 12.82% | 15 |
| MICHIGAN STATE | 216,125 | 481,497 | 327,217 | 154,280 | 697,622 | 5,853,308 | 11.92% | 16 |
| WASHINGTON | 33,541 | 992,416 | 641,075 | 351,341 | 1,025,957 | 8,617,903 | 11.90% | 17 |
| IOWA | 136,301 | 774,771. | . | . | 911,072 | 7,686,253 | 11.85% | 18 |
| VANDERBILT | 138,648 | 604,440. | . | . | 743,088 | 6,309,076 | 11.78% | 19 |
| DARTMOUTH | 17,361 | 578,222. | . | . | 595,583 | 5,062,574 | 11.76% | 20 |
| HARVARD | 1,694,093 | 515,569. | . | . | 2,209,662 | 19,346,111 | 11.42% | 21 |
| CHICAGO | 89,389 | 807,570. | . | . | 896,959 | 7,918,951 | 11.33% | 22 |
| MCGILL | . | 632,024. | . | . | 632,024 | 5,587,968 | 11.31% | 23 |
| GEORGIA | 455,199 | 441,232 | 240,235 | 111,235 | 896,431 | 8,149,818 | 11.00% | 24 |
| OKLAHOMA STATE | . | 448,727. | . | . | 448,727 | 4,107,201 | 10.93% | 25 |
| NORTH CAROLINA | 193,363 | 775,316. | . | . | 968,679 | 8,963,321 | 10.81% | 26 |
| RUTGERS | 85,869 | 735,262. | . | . | 821,131 | 7,653,456 | 10.73% | 27 |
| MICHIGAN | 316,444 | 1,195,461. | . | . | 1,511,905 | 14,258,911 | 10.60% | 28 |

**Rank Order Table 1:
Expenditures for Electronic Materials as a Percent of Total Library Materials Expenditures
Ranked by Percent 1997-98**

| | Computer Files | Electronic Serials | Electronic Serials Indexes Referen. Tools | Electronic Serials Full-Text | Total Electronic Materials | Total Library Materials | Percent of Library Materials | Rank Of % |
|----------------------|-------------------|-----------------------|---|------------------------------------|----------------------------------|-------------------------------|------------------------------------|--------------|
| | 1 | 2 | 2a | 2b | 1+2 | | | |
| WISCONSIN | 79,022 | 782,484 . | . | . | 861,506 | 8,136,068 | 10.59% | 29 |
| HOUSTON | 97,751 | 412,196 . | . | . | 509,947 | 4,864,116 | 10.48% | 30 |
| KANSAS | 103,902 | 508,087 | 252,508 | 112,400 | 611,989 | 5,948,806 | 10.29% | 31 |
| DELAWARE | 88,406 | 447,466 . | . | . | 535,872 | 5,268,458 | 10.17% | 32 |
| ILLINOIS, CHICAGO | 86,173 | 394,611 | 348,847 | 45,764 | 480,784 | 4,797,246 | 10.02% | 33 |
| FLORIDA STATE | 2,005 | 520,721 . | . | . | 522,726 | 5,225,776 | 10.00% | 34 |
| PURDUE | 118,193 | 339,115 . | . | . | 457,308 | 4,635,650 | 9.87% | 35 |
| BRIGHAM YOUNG | 299,228 | 169,533 . | . | . | 468,761 | 4,755,057 | 9.86% | 36 |
| CASE WESTERN RESERVE | 8,628 | 414,219 . | . | . | 422,847 | 4,313,856 | 9.80% | 37 |
| NORTHWESTERN | 34,048 | 634,230 | 305,242 | 183,921 | 668,278 | 7,033,193 | 9.50% | 38 |
| BOSTON | 152,382 | 309,976 | 41,080 . | . | 462,358 | 4,930,455 | 9.38% | 39 |
| MINNESOTA | 158,499 | 707,887 | 668,527 | 39,360 | 866,386 | 9,333,452 | 9.28% | 40 |
| SOUTH CAROLINA | 49,525 | 462,786 | 346,651 | 116,135 | 512,311 | 5,548,719 | 9.23% | 41 |
| GEORGETOWN | 28,445 | 548,933 . | . | . | 577,378 | 6,286,327 | 9.18% | 42 |
| SUNY-BUFFALO | 74,600 | 392,450 . | . | . | 467,050 | 5,094,644 | 9.17% | 43 |
| KENTUCKY | 33,593 | 501,741 . | . | . | 535,334 | 5,893,693 | 9.08% | 44 |
| ALABAMA | 336 | 337,108 . | . | . | 337,444 | 3,726,540 | 9.06% | 45 |
| PENNSYLVANIA STATE | 121,048 | 938,444 | 723,274 | 20,621 | 1,059,492 | 11,697,412 | 9.06% | 45 |
| HOWARD | 5,000 | 420,232 . | . | . | 425,232 | 4,801,554 | 8.86% | 47 |
| VIRGINIA | 224,145 | 433,213 . | . | . | 657,358 | 7,612,143 | 8.64% | 48 |
| MARYLAND | 38,212 | 454,420 . | . | . | 492,632 | 5,839,425 | 8.44% | 49 |
| YORK | 7,371 | 330,393 . | . | . | 337,764 | 4,062,362 | 8.31% | 50 |
| SUNY-STONY BROOK | 8,699 | 377,865 . | . | . | 386,564 | 4,656,180 | 8.30% | 51 |
| TORONTO | 163,439 | 923,388 | 885,136 | 38,252 | 1,086,827 | 13,114,346 | 8.29% | 52 |
| GEORGIA TECH | 95,841 | 254,602 | 252,162 | 2,440 | 350,443 | 4,282,688 | 8.18% | 53 |
| COLORADO STATE | 2,120 | 364,730 | 301,896 | 62,834 | 366,850 | 4,528,305 | 8.10% | 54 |
| COLUMBIA | . | 926,640 . | . | . | 926,640 | 11,441,445 | 8.10% | 54 |
| GUELPH | 11,286 | 170,853 . | . | . | 182,139 | 2,305,086 | 7.90% | 56 |
| SOUTHERN ILLINOIS | . | 372,680 | 3,366 . | . | 372,680 | 4,734,588 | 7.87% | 57 |
| TEXAS | 78,657 | 728,013 | 593,560 | 134,423 | 806,670 | 10,307,170 | 7.83% | 58 |
| ILLINOIS, URBANA | 86,748 | 592,267 . | . | . | 679,015 | 8,766,170 | 7.75% | 59 |
| TENNESSEE | 2,965 | 386,502 | 326,874 | 59,628 | 389,467 | 5,179,318 | 7.52% | 60 |
| GEORGE WASHINGTON | 14,320 | 387,809 . | . | . | 402,129 | 5,355,531 | 7.51% | 61 |
| INDIANA | 60,432 | 610,410 . | . | . | 670,842 | 9,016,440 | 7.44% | 62 |
| BROWN | 57,160 | 291,341 . | . | . | 348,501 | 4,697,318 | 7.42% | 63 |
| MASSACHUSETTS | 756 | 315,893 | 204,345 | 105,117 | 316,649 | 4,269,080 | 7.42% | 63 |
| QUEEN' S | . | 277,090 . | . | . | 277,090 | 3,754,926 | 7.38% | 65 |
| NEW YORK | 17,121 | 623,325 | 536,473 | 86,852 | 640,446 | 8,859,560 | 7.23% | 66 |

**Rank Order Table 1:
Expenditures for Electronic Materials as a Percent of Total Library Materials Expenditures
Ranked by Percent 1997-98**

| | Computer Files | Electronic Serials | Electronic Serials Indexes Referen. Tools | Electronic Serials Full-Text | Total Electronic Materials | Total Library Materials | Percent of Library Materials | Rank Of % |
|-------------------------|-------------------|-----------------------|---|------------------------------------|----------------------------------|-------------------------------|------------------------------------|--------------|
| | 1 | 2 | 2a | 2b | 1+2 | | | |
| COLORADO | 33,808 | 509,876 . | . | . | 543,684 | 7,555,744 | 7.20% | 67 |
| IOWA STATE | 4,996 | 414,500 . | . | . | 419,496 | 5,976,594 | 7.02% | 68 |
| WAYNE STATE | 369,577 . | . | . | . | 369,577 | 5,397,018 | 6.85% | 69 |
| PRINCETON | 167,604 | 527,958 . | . | . | 695,562 | 10,183,164 | 6.83% | 70 |
| CALIFORNIA, LOS ANGELES | . | 633,460 . | . | . | 633,460 | 9,606,288 | 6.59% | 71 |
| TULANE | 15,000 | 252,287 . | . | . | 267,287 | 4,078,206 | 6.55% | 72 |
| WATERLOO | . | 206,704 . | . | . | 206,704 | 3,206,464 | 6.45% | 73 |
| NOTRE DAME | . | 402,848 . | . | . | 402,848 | 6,291,130 | 6.40% | 74 |
| RICE | 21,797 | 366,802 | 336,528 | 30,274 | 388,599 | 6,115,613 | 6.35% | 75 |
| TEXAS TECH | 1,400 | 342,988 | 93,682 . | . | 344,388 | 5,441,465 | 6.33% | 76 |
| TEMPLE | 165,491 | 127,086 . | . | . | 292,577 | 4,676,771 | 6.26% | 77 |
| SUNY-ALBANY | 9,472 | 215,651 . | . | . | 225,123 | 3,631,310 | 6.20% | 78 |
| KENT STATE | 17,469 | 161,658 . | . | . | 179,127 | 2,904,859 | 6.17% | 79 |
| CALIFORNIA, IRVINE | 18,341 | 256,054 . | . | . | 274,395 | 4,458,837 | 6.15% | 80 |
| LAVAL | 20,133 | 261,952 . | . | . | 282,085 | 4,663,873 | 6.05% | 81 |
| WESTERN ONTARIO | 14,719 | 278,866 | 239,472 | 39,395 | 293,585 | 5,062,518 | 5.80% | 82 |
| NEBRASKA | 12,224 | 281,086 . | . | . | 293,310 | 5,151,691 | 5.69% | 83 |
| YALE | 144,000 | 779,000 . | . | . | 923,000 | 16,396,000 | 5.63% | 84 |
| SASKATCHEWAN | . | 209,903 . | . | . | 209,903 | 3,762,094 | 5.58% | 85 |
| FLORIDA | 42,485 | 454,905 . | . | . | 497,390 | 8,941,049 | 5.56% | 86 |
| LOUISIANA STATE | 35,841 | 191,640 . | . | . | 227,481 | 4,149,699 | 5.48% | 87 |
| SOUTHERN CALIFORNIA | 19,362 | 398,814 | 69,069 | 18,503 | 418,176 | 7,717,386 | 5.42% | 88 |
| OKLAHOMA | 930 | 281,761 | 109,500 | 1,500 | 282,691 | 5,283,996 | 5.35% | 89 |
| MIAMI | 6,605 | 301,847 . | . | . | 308,452 | 5,795,223 | 5.32% | 90 |
| MCMASTER | 4,491 | 180,645 . | . | . | 185,136 | 3,507,054 | 5.28% | 91 |
| CALIFORNIA, SAN DIEGO | 35,803 | 259,102 . | . | . | 294,905 | 5,694,576 | 5.18% | 92 |
| OHIO | 1,860 | 212,867 | 160,474 | 52,393 | 214,727 | 4,152,727 | 5.17% | 93 |
| UTAH | . | 345,850 . | . | . | 345,850 | 6,828,130 | 5.07% | 94 |
| HAWAII | 224 | 179,179 | 125,774 | 53,405 | 179,403 | 3,608,408 | 4.97% | 95 |
| CORNELL | 486,112 | 21,943 . | . | . | 508,055 | 10,615,658 | 4.79% | 96 |
| MISSOURI | . | 189,841 | 81,694 | 108,147 | 189,841 | 4,806,620 | 3.95% | 97 |
| EMORY | 136,113 | 174,487 . | . | . | 310,600 | 8,856,483 | 3.51% | 98 |
| CALIFORNIA, RIVERSIDE | 9,386 | 77,014 | 76,499 | 515 | 86,400 | 3,617,587 | 2.39% | 99 |
| CALIFORNIA, DAVIS | 65,743 | 21,518 | 13,163 | 8,355 | 87,261 | 5,939,195 | 1.47% | 100 |
| AUBURN | 32,775 . | . | 389,039 | 18,385 | 32,775 | 4,331,131 | 0.76% | 101 |
| VIRGINIA TECH | 19,983 | 11,035 . | . | . | 31,018 | 5,439,045 | 0.57% | 102 |

**Rank Order Table 2:
Expenditures for Electronic Materials as a Percent of Total Library Materials Expenditures
Ranked by Expenditures for Electronic Materials 1997-98**

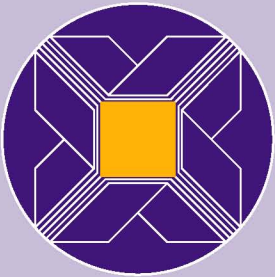
| | Computer Files | Electronic Serials | Electronic Serials Indexes Referen. Tools | Electronic Serials Full-Text | Total Electronic Materials | Total Library Materials | Percent of Library Materials | Rank Of % |
|---------------------------|-------------------|-----------------------|---|------------------------------------|----------------------------------|-------------------------------|------------------------------------|--------------|
| | 1 | 2 | 2a | 2b | 1+2 | | | |
| WASHINGTON STATE | . | . | . | . | . | 4,564,575. | | |
| SYRACUSE | . | . | . | . | . | 3,733,575. | | |
| STANFORD | . | . | . | . | . | 14,564,206. | | |
| OREGON | . | . | . | . | . | 5,168,061. | | |
| OHIO STATE | . | . | . | . | . | 9,166,910. | | |
| MANITOBA | . | . | . | . | . | 3,074,923. | | |
| CALIFORNIA, SANTA BARBARA | . | . | . | . | . | 3,316,315. | | |
| CALIFORNIA, BERKELEY | . | . | . | . | . | 10,940,620. | | |
| ALBERTA | . | . | . | . | . | 6,172,162. | | |
| HARVARD | 1,694,093 | 515,569. | . | . | 2,209,662 | 19,346,111 | 11.42% | 21 |
| NORTH CAROLINA STATE | 881,552 | 773,118 | 506,427 | 281,296 | 1,654,670 | 6,875,182 | 24.07% | 1 |
| MICHIGAN | 316,444 | 1,195,461. | . | . | 1,511,905 | 14,258,911 | 10.60% | 28 |
| TEXAS A&M | 232,319 | 1,138,493 | 805,080 | 333,413 | 1,370,812 | 8,577,570 | 15.98% | 5 |
| ARIZONA STATE | 338,776 | 977,879 | 706,765 | 98,778 | 1,316,655 | 8,250,336 | 15.96% | 6 |
| BRITISH COLUMBIA | 80,205 | 1,209,398. | . | . | 1,289,603 | 7,239,062 | 17.81% | 2 |
| PENNSYLVANIA | 10,323 | 1,218,900. | . | . | 1,229,223 | 9,160,556 | 13.42% | 13 |
| JOHNS HOPKINS | 134,160 | 1,094,969 | 295,642 | 799,327 | 1,229,129 | 8,594,920 | 14.30% | 9 |
| DUKE | 133,587 | 1,088,328. | . | . | 1,221,915 | 9,531,559 | 12.82% | 15 |
| PITTSBURGH | 943,976 | 180,980. | . | . | 1,124,956 | 7,411,328 | 15.18% | 7 |
| WASHINGTON U. -ST. LOUIS | 245,015 | 871,686 | 528,689 | 86,143 | 1,116,701 | 6,883,541 | 16.22% | 4 |
| ARIZONA | 163,532 | 927,488. | . | . | 1,091,020 | 8,343,234 | 13.08% | 14 |
| TORONTO | 163,439 | 923,388 | 885,136 | 38,252 | 1,086,827 | 13,114,346 | 8.29% | 52 |
| CINCINNATI | 90,604 | 981,726. | . | . | 1,072,330 | 6,067,551 | 17.67% | 3 |
| PENNSYLVANIA STATE | 121,048 | 938,444 | 723,274 | 20,621 | 1,059,492 | 11,697,412 | 9.06% | 45 |
| WASHINGTON | 33,541 | 992,416 | 641,075 | 351,341 | 1,025,957 | 8,617,903 | 11.90% | 17 |
| NORTH CAROLINA | 193,363 | 775,316. | . | . | 968,679 | 8,963,321 | 10.81% | 26 |
| COLUMBIA | . | 926,640. | . | . | 926,640 | 11,441,445 | 8.10% | 54 |
| YALE | 144,000 | 779,000. | . | . | 923,000 | 16,396,000 | 5.63% | 84 |
| IOWA | 136,301 | 774,771. | . | . | 911,072 | 7,686,253 | 11.85% | 18 |
| CHICAGO | 89,389 | 807,570. | . | . | 896,959 | 7,918,951 | 11.33% | 22 |
| GEORGIA | 455,199 | 441,232 | 240,235 | 111,235 | 896,431 | 8,149,818 | 11.00% | 24 |
| MINNESOTA | 158,499 | 707,887 | 668,527 | 39,360 | 866,386 | 9,333,452 | 9.28% | 40 |
| WISCONSIN | 79,022 | 782,484. | . | . | 861,506 | 8,136,068 | 10.59% | 29 |
| RUTGERS | 85,869 | 735,262. | . | . | 821,131 | 7,653,456 | 10.73% | 27 |
| TEXAS | 78,657 | 728,013 | 593,560 | 134,423 | 806,670 | 10,307,170 | 7.83% | 58 |
| CONNECTICUT | 130,151 | 653,666. | . | . | 783,817 | 5,591,565 | 14.02% | 10 |
| VANDERBILT | 138,648 | 604,440. | . | . | 743,088 | 6,309,076 | 11.78% | 19 |

**Rank Order Table 2:
Expenditures for Electronic Materials as a Percent of Total Library Materials Expenditures
Ranked by Expenditures for Electronic Materials 1997-98**

| | Computer Files | Electronic Serials | Electronic Serials Indexes Referen. Tools | Electronic Serials Full-Text | Total Electronic Materials | Total Library Materials | Percent of Library Materials | Rank Of % |
|-------------------------|-------------------|-----------------------|---|------------------------------------|----------------------------------|-------------------------------|------------------------------------|--------------|
| | 1 | 2 | 2a | 2b | 1+2 | | | |
| MICHIGAN STATE | 216,125 | 481,497 | 327,217 | 154,280 | 697,622 | 5,853,308 | 11.92% | 16 |
| PRINCETON | 167,604 | 527,958 | . | . | 695,562 | 10,183,164 | 6.83% | 70 |
| NEW MEXICO | 40,000 | 641,254 | 310,000 | 30,000 | 681,254 | 4,942,529 | 13.78% | 12 |
| ILLINOIS, URBANA | 86,748 | 592,267 | . | . | 679,015 | 8,766,170 | 7.75% | 59 |
| INDIANA | 60,432 | 610,410 | . | . | 670,842 | 9,016,440 | 7.44% | 62 |
| NORTHWESTERN | 34,048 | 634,230 | 305,242 | 183,921 | 668,278 | 7,033,193 | 9.50% | 38 |
| VIRGINIA | 224,145 | 433,213 | . | . | 657,358 | 7,612,143 | 8.64% | 48 |
| ROCHESTER | 12,459 | 636,950 | 154,259 | 82,889 | 649,409 | 4,531,589 | 14.33% | 8 |
| NEW YORK | 17,121 | 623,325 | 536,473 | 86,852 | 640,446 | 8,859,560 | 7.23% | 66 |
| CALIFORNIA, LOS ANGELES | . | 633,460 | . | . | 633,460 | 9,606,288 | 6.59% | 71 |
| MCGILL | . | 632,024 | . | . | 632,024 | 5,587,968 | 11.31% | 23 |
| KANSAS | 103,902 | 508,087 | 252,508 | 112,400 | 611,989 | 5,948,806 | 10.29% | 31 |
| DARIMOUTH | 17,361 | 578,222 | . | . | 595,583 | 5,062,574 | 11.76% | 20 |
| GEORGETOWN | 28,445 | 548,933 | . | . | 577,378 | 6,286,327 | 9.18% | 42 |
| MT | 52,311 | 525,018 | 512,923 | 12,095 | 577,329 | 4,168,581 | 13.85% | 11 |
| COLORADO | 33,808 | 509,876 | . | . | 543,684 | 7,555,744 | 7.20% | 67 |
| DELAWARE | 88,406 | 447,466 | . | . | 535,872 | 5,268,458 | 10.17% | 32 |
| KENTUCKY | 33,593 | 501,741 | . | . | 535,334 | 5,893,693 | 9.08% | 44 |
| FLORIDA STATE | 2,005 | 520,721 | . | . | 522,726 | 5,225,776 | 10.00% | 34 |
| SOUTH CAROLINA | 49,525 | 462,786 | 346,651 | 116,135 | 512,311 | 5,548,719 | 9.23% | 41 |
| HOUSTON | 97,751 | 412,196 | . | . | 509,947 | 4,864,116 | 10.48% | 30 |
| CORNELL | 486,112 | 21,943 | . | . | 508,055 | 10,615,658 | 4.79% | 96 |
| FLORIDA | 42,485 | 454,905 | . | . | 497,390 | 8,941,049 | 5.56% | 86 |
| MARYLAND | 38,212 | 454,420 | . | . | 492,632 | 5,839,425 | 8.44% | 49 |
| ILLINOIS, CHICAGO | 86,173 | 394,611 | 348,847 | 45,764 | 480,784 | 4,797,246 | 10.02% | 33 |
| BRIGHAM YOUNG | 299,228 | 169,533 | . | . | 468,761 | 4,755,057 | 9.86% | 36 |
| SUNY- BUFFALO | 74,600 | 392,450 | . | . | 467,050 | 5,094,644 | 9.17% | 43 |
| BOSTON | 152,382 | 309,976 | 41,080 | . | 462,358 | 4,930,455 | 9.38% | 39 |
| PURDUE | 118,193 | 339,115 | . | . | 457,308 | 4,635,650 | 9.87% | 35 |
| OKLAHOMA STATE | . | 448,727 | . | . | 448,727 | 4,107,201 | 10.93% | 25 |
| HOWARD | 5,000 | 420,232 | . | . | 425,232 | 4,801,554 | 8.86% | 47 |
| CASE WESTERN RESERVE | 8,628 | 414,219 | . | . | 422,847 | 4,313,856 | 9.80% | 37 |
| IOWA STATE | 4,996 | 414,500 | . | . | 419,496 | 5,976,594 | 7.02% | 68 |
| SOUTHERN CALIFORNIA | 19,362 | 398,814 | 69,069 | 18,503 | 418,176 | 7,717,386 | 5.42% | 88 |
| NOTRE DAME | . | 402,848 | . | . | 402,848 | 6,291,130 | 6.40% | 74 |
| GEORGE WASHINGTON | 14,320 | 387,809 | . | . | 402,129 | 5,355,531 | 7.51% | 61 |
| TENNESSEE | 2,965 | 386,502 | 326,874 | 59,628 | 389,467 | 5,179,318 | 7.52% | 60 |
| RICE | 21,797 | 366,802 | 336,528 | 30,274 | 388,599 | 6,115,613 | 6.35% | 75 |

**Rank Order Table 2:
Expenditures for Electronic Materials as a Percent of Total Library Materials Expenditures
Ranked by Expenditures for Electronic Materials 1997-98**

| | Computer Files | Electronic Serials | Electronic Serials Indexes Referen. Tools | Electronic Serials Full-Text | Total Electronic Materials | Total Library Materials | Percent of Library Materials | Rank Of % |
|-----------------------|-------------------|-----------------------|---|------------------------------------|----------------------------------|-------------------------------|------------------------------------|--------------|
| | 1 | 2 | 2a | 2b | 1+2 | | | |
| SUNY-STONY BROOK | 8,699 | 377,865 | . | . | 386,564 | 4,656,180 | 8.30% | 51 |
| SOUTHERN ILLINOIS | . | 372,680 | 3,366 | . | 372,680 | 4,734,588 | 7.87% | 57 |
| WAYNE STATE | 369,577 | . | . | . | 369,577 | 5,397,018 | 6.85% | 69 |
| COLORADO STATE | 2,120 | 364,730 | 301,896 | 62,834 | 366,850 | 4,528,305 | 8.10% | 54 |
| GEORGIA TECH | 95,841 | 254,602 | 252,162 | 2,440 | 350,443 | 4,282,688 | 8.18% | 53 |
| BROWN | 57,160 | 291,341 | . | . | 348,501 | 4,697,318 | 7.42% | 63 |
| UTAH | . | 345,850 | . | . | 345,850 | 6,828,130 | 5.07% | 94 |
| TEXAS TECH | 1,400 | 342,988 | 93,682 | . | 344,388 | 5,441,465 | 6.33% | 76 |
| YORK | 7,371 | 330,393 | . | . | 337,764 | 4,062,362 | 8.31% | 50 |
| ALABAMA | 336 | 337,108 | . | . | 337,444 | 3,726,540 | 9.06% | 45 |
| MASSACHUSETTS | 756 | 315,893 | 204,345 | 105,117 | 316,649 | 4,269,080 | 7.42% | 63 |
| EMORY | 136,113 | 174,487 | . | . | 310,600 | 8,856,483 | 3.51% | 98 |
| MIAMI | 6,605 | 301,847 | . | . | 308,452 | 5,795,223 | 5.32% | 90 |
| CALIFORNIA, SAN DIEGO | 35,803 | 259,102 | . | . | 294,905 | 5,694,576 | 5.18% | 92 |
| WESTERN ONTARIO | 14,719 | 278,866 | 239,472 | 39,395 | 293,585 | 5,062,518 | 5.80% | 82 |
| NEBRASKA | 12,224 | 281,086 | . | . | 293,310 | 5,151,691 | 5.69% | 83 |
| TEMPLE | 165,491 | 127,086 | . | . | 292,577 | 4,676,771 | 6.26% | 77 |
| OKLAHOMA | 930 | 281,761 | 109,500 | 1,500 | 282,691 | 5,283,996 | 5.35% | 89 |
| LAVAL | 20,133 | 261,952 | . | . | 282,085 | 4,663,873 | 6.05% | 81 |
| QUEEN' S | . | 277,090 | . | . | 277,090 | 3,754,926 | 7.38% | 65 |
| CALIFORNIA, IRVINE | 18,341 | 256,054 | . | . | 274,395 | 4,458,837 | 6.15% | 80 |
| TULANE | 15,000 | 252,287 | . | . | 267,287 | 4,078,206 | 6.55% | 72 |
| LOUISIANA STATE | 35,841 | 191,640 | . | . | 227,481 | 4,149,699 | 5.48% | 87 |
| SUNY-ALBANY | 9,472 | 215,651 | . | . | 225,123 | 3,631,310 | 6.20% | 78 |
| OHIO | 1,860 | 212,867 | 160,474 | 52,393 | 214,727 | 4,152,727 | 5.17% | 93 |
| SASKATCHEWAN | . | 209,903 | . | . | 209,903 | 3,762,094 | 5.58% | 85 |
| WATERLOO | . | 206,704 | . | . | 206,704 | 3,206,464 | 6.45% | 73 |
| MISSOURI | . | 189,841 | 81,694 | 108,147 | 189,841 | 4,806,620 | 3.95% | 97 |
| MCMASTER | 4,491 | 180,645 | . | . | 185,136 | 3,507,054 | 5.28% | 91 |
| GUELPH | 11,286 | 170,853 | . | . | 182,139 | 2,305,086 | 7.90% | 56 |
| HAWAII | 224 | 179,179 | 125,774 | 53,405 | 179,403 | 3,608,408 | 4.97% | 95 |
| KENT STATE | 17,469 | 161,658 | . | . | 179,127 | 2,904,859 | 6.17% | 79 |
| CALIFORNIA, DAVIS | 65,743 | 21,518 | 13,163 | 8,355 | 87,261 | 5,939,195 | 1.47% | 100 |
| CALIFORNIA, RIVERSIDE | 9,386 | 77,014 | 76,499 | 515 | 86,400 | 3,617,587 | 2.39% | 99 |
| AUBURN | 32,775 | . | 389,039 | 18,385 | 32,775 | 4,331,131 | 0.76% | 101 |
| VIRGINIA TECH | 19,983 | 11,035 | . | . | 31,018 | 5,439,045 | 0.57% | 102 |



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