



U.S. Department of Education
Institute of Education Sciences
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January 2007

Carl M. Schmitt
National Center for
Education Statistics

Patricia O'Shae
Governments Division
U.S. Census Bureau

Kaleen Vaden
Governments Division
U.S. Census Bureau

Jeffrey W. Williams
Program Director
National Center for
Education Statistics

U.S. Department of Education

Margaret Spellings
Secretary

Institute of Education Sciences

Grover J. Whitehurst
Director

National Center for Education Statistics

Mark Schneider
Commissioner

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National Center for Education Statistics
Institute of Education Sciences
U.S. Department of Education
1990 K Street NW
Washington, DC 20006-5651

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Content Contact

Carl M. Schmitt
(202) 502-7350
carl.schmitt@ed.gov

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U.S. Department of Education
Institute of Education Sciences
NATIONAL CENTER FOR EDUCATION STATISTICS
1990 K Street NW
Washington, DC 20006

I. Introduction

The purpose of this report is to document the procedures and methodologies employed during the Academic Library Survey of 2004. This report is designed to provide guidance and documentation for users of the public-use data file. Information about the universe of academic libraries and how to access this information is included in this report.

A. History of the Academic Library Survey

The Academic Library Survey (ALS) data have been collected by the National Center for Education Statistics (NCES) since 1966. Between 1966 and 1988, data on academic libraries were collected in the following years: 1968-69, 1971-72, 1973-74, 1975-76, 1977-78, 1979-80, 1982-83, 1985-86 within the framework of the Higher Education General Information System (HEGIS). Beginning in 1988, the library survey was collected biennially in even-numbered years: 1988, 1990, 1992, 1994, 1996, and 1998 as part of the Integrated Postsecondary Education Data System (IPEDS). Beginning in 2000, the ALS data collection was conducted independently of IPEDS by the NCES library program.

Through 1998, the ALS data were collected using paper survey instruments. Beginning in 2000, data were collected through a web-based system.

The ALS and IPEDS data have historically been collected and processed for NCES by the U.S. Census Bureau. Throughout these years, the National Commission on Libraries and Information Science (NCLIS), and the American Library Association's Office of Research and Statistics have provided substantial assistance and guidance for the collection of the ALS. These organizations participated in the 1990 NCES/IPEDS Academic Libraries Survey Improvement Project, which appointed a librarian in each state who would act as a data coordinator to work with IPEDS data coordinators in collecting library data.

With the advent of the web-based data collection, data are collected directly from libraries. All data checks and quality control issues are reconciled with the local library personnel who completed the web data collection.

B. NCES Academic Library's Universe Survey 2004

This documentation describes the Academic Library Survey (ALS) data file for the 2004 fiscal year.

Library Universe Frame

The 2004 Academic Library universe survey frame is linked to the NCES Integrated Postsecondary Education Data System (IPEDS)¹ universe of postsecondary education institutions that are 2-or-more-year, degree-granting, Title IV recipient institutions within the 50 States and DC for the academic year 2004-05. Also included in this universe are the four primary military academies (Army, Air Force, Navy, and Coastguard).²

Of the 4,113 postsecondary institutions within the 50 States and District of Columbia identified that were to be surveyed, 236 were identified as “child” institutions³ (“child” institutions have a value of “2” for the parent/child indicator variable CYPARCH) and 224 were identified as out of scope. Data for the “child” institutions were provided by the “parent” institution. Out of scope institutions were defined based on their responses to the screening questions. Institutions were defined as out-of-scope and **excluded from the data file** if: 1) they indicated they did not participate in Title IV funding; 2) they indicated they had no library at the institution; or 3) they did not respond to the screening questions.

After removing the 236 child institutions and 224 out of scope institutions from the 4,113 institutions, the fiscal year 2004 Academic Libraries Surveys (ALS) includes data on 3,653 academic libraries that are associated with degree-granting postsecondary educational institutions throughout the 50 states and the District of Columbia. Since child institutions are left on the ALS data file for research purposes, the number of records on the ALS 2004 data file is 3,889.

The 3,653 libraries have the following basic characteristics:

¹ **The Integrated Postsecondary Education Data System (IPEDS)** is the core postsecondary education data collection program for NCES. It is a system of surveys designed to collect data from all primary providers of postsecondary education. IPEDS is a single, comprehensive system designed to encompass all institutions and educational organizations, which provide postsecondary education as their primary purpose. The IPEDS system is built around a series of interrelated surveys to collect institution-level data about institution attributes, enrollment, program completions, faculty, staff, and finances throughout the United States and the outlying areas.

² There are five U.S. military academies, Army, Air Force, Navy, Coast Guard, and Merchant Marine. However, since the US Merchant Marine Academy is an institution where students pay tuition and the institution receives Title IV federal funding, unlike the other military academies, it is considered as a degree granting postsecondary Title IV institution and is included in the ALS universe independent of their military status.

³ A “Child” record may be used to describe institutions that are branch institutions for which data are reported by the Central or Main institution. That is, data for the “child” institutions are aggregated with and reported by the “Parent” institution.

- Include an organized collection of printed or other materials such as books, periodicals, microforms, and audiovisual recordings, or a combination thereof;
- Have a staff trained to provide and interpret such materials as required to meet the informational, cultural, recreational, or educational needs of clientele;
- Maintain an established schedule in which services of the staff are available to clientele;
- Based in physical facilities that are necessary to support such a collection, staff, and schedule.

Types of Academic Libraries:

- **Main or Central Libraries:** The central library is the library that houses the basic collection of printed and other materials. This library may administer branch libraries.
- **Branch and Independent Libraries:** These are auxiliary library service outlets with quarters separate from the central library of an academic institution. They have a basic collection of books and other materials, a regular staffing level, and an established schedule. Branch and independent libraries are administered either by a central library or, as, in the case of some libraries (such as law, medical, etc.), through the administrative structure of other units within the postsecondary education institution. (Departmental study/reading rooms are not included.)

Some branch institutions may be defined as “child” Institutions or as independent branches. If defined as a “child,” the library will have its data reported with and stored in the library record of the designated “parent” institution. In this case, the “parent” library is the main or central library. The ALS record for the “child” library will not contain specific information about library operations. The parent/child designation is used for the sole purpose of reporting data. The parent library reports aggregated data for all its “child” libraries.

It should be noted that “child” libraries remain on the data file even though they do not report information about their library attributes. This facilitates counts of academic institutions that have or share a library facility.

Each institution in the IPEDS data system is uniquely identified by a UNITID, which represents the academic institution. ALS uses the UNITID of the reporting academic institution to identify the institution with which the library is affiliated.⁴

In cases where a library is shared, the ALS data file will contain a record for each academic institution that shares the library facility. However, information regarding the

⁴ Researchers can, therefore, merge data from the various IPEDS components (enrollment, degrees awarded, etc.) to ALS (and vice versa) using this field.

sharing of library facilities is not available, in some cases, because institutions did not respond to the pertinent questions.

C. Data Confidentiality

Separate laws (see <http://nces.ed.gov/StatProg/confproc.asp>) govern the protection of the confidentiality of individually identifiable information collected by the National Center for Education Statistics—the Privacy Act of 1974, the Education Sciences Reform Act of 2002, the USA Patriot Act of 2001, and the E-Government Act of 2002. These laws require NCES to ensure that the confidentiality of respondents is maintained.

For this reason, data for the ALS are released as public-use and restricted-use files.

Public- and Restricted-Use Data Files

NCES releases data to the public for statistical purposes only. Every effort has been made to provide the maximum research information that is consistent with reasonable confidentiality protections. Record matching to identify individual respondents or deductive disclosure by any user is prohibited. Procedures for disclosure avoidance were used in preparing public-use data for release.

The Academic Library Survey data file is available in two versions: public-use data and restricted-use data. Data on the public-use files have been modified so that individual respondents cannot be identified. **Restricted-use files, which include all reported data, are released only to researchers licensed by NCES.** (For information on obtaining a restricted-data user's license, see the website <http://nces.ed.gov/StatProg/confid.asp>.)

Public-use data: On the public-use Academic Libraries Survey data file, the data fields suppressed (values set to missing and the corresponding variable imputation flag set to "H") are the expenditures for salaries and wages reported in part B, expenditures for "Other Operating Expenditures" (part C, line 20) and "Employee Fringe Benefits Paid by Library" (part B, line 08b) of the survey when there were two (2) or fewer pertinent full-time equivalent personnel.

Data from the following specific variables are suppressed to maintain respondent confidentiality: SWLIBPRO (Salaries and wages for librarians and other) when STLIBPRO (Total Librarians and professional staff) is 2 or fewer; SWOTH (Salaries and wages for All other paid staff (except students)) when STOTH (All other paid staff (except students)) is 2 or fewer; SWASST (Salaries and wages for Student assistants) when STASST (Student assistants) is 2 or fewer; and FRINGE (Employee fringe benefits) when either STLIBPRO or STOTH or STASST or STTOT is 2 or fewer. SWTOT (Total salaries and wages) and EXOTH (All other operating expenditures) are suppressed in two cases - first, when STTOT (Total staff) is 2 or fewer, and second when only one of the detail staff expenditures is suppressed.

The library's Total Operating Expenditures, specific expenditure categories such as audio-visual, books, or computer software, etc., and other non-personal data are not affected by the suppression of these data. However, since EXTOT (Total expenditure) includes salaries and wages, EXOTH is suppressed to prevent disclosure when only one of the detail staff expenditures is suppressed.

Restricted-use data: No data are suppressed on the restricted-use versions of the Academic Library Survey data file. Since the inclusion of all expenditures data, regardless of the number of employees, enables the identification of individual salary data, researchers requiring access to the restricted-use data for analysis must obtain a license from NCES to use the data. To obtain a license, the following information is necessary:

1. The title of the database(s) the organization wants to access;
2. A description of the statistical research project necessitating access to the restricted-use database;
3. The name and title of the senior official having authority to bind the organization to the provisions of the license agreement;
4. The name and title of the principal project officer(s) who will oversee the daily operations;
5. The names, titles, and telephone numbers of the professional/technical and support staff who will have access to the data;
6. The estimated loan period (not to exceed 5 years) for accessing the data; and
7. The desired computer media format.

NCES will review the submitted documents for content and completeness and inform the requestor whether a license to use the restricted data is approved. See the following NCES website for more information: <http://nces.ed.gov/StatProg/confid.asp>.

D. Information Included in the Academic Library Survey Data Collection

The ALS data in this file are for the fiscal year completed in 2004. The actual fiscal year dates vary among institutions, but it usually ends before October 1. The data in this file cover academic libraries in 2-or-more-year degree-granting Title IV participating postsecondary institutions in the 50 States and the District of Columbia. The ALS data file includes information on library staffing, operating expenditures, library collections, library loan transactions, electronic services, and technology assistance services provided by each library. (See notes on Data Issues, Section III.G, pages 12-14). Information about library staff and services are collected for a single point in time during the fall of the year of data collection to reflect a typical week.

Cautions regarding the analysis of data by state, level, and control of institution.

This technical documentation focuses on information from a census of academic libraries in 2004. The presentation of numbers, proportions, and percentages is descriptive only of libraries in the period referenced. While data were imputed for nonresponse, the number of unit nonresponses can vary by state and affect the reliability of the state data. See Table F-1 in Appendix F for item response rates by level and control of institution. Table F-2 in Appendix F presents the distribution of the set of unit nonrespondents by state and by level and control of institution. Table F-3 in Appendix F shows the number of academic libraries by state, 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 15 percent or greater.

E. Uses of the Academic Library Survey Data

In general, the library data have been used by policymakers for planning and comparative analysis, and by institutional staff for planning and for peer analysis. The Academic Library Survey data have been used by federal, state, and other policy related program personnel, the congress, federal agencies that administer library grants, state education agencies (SEAs), accreditation review programs, library administrators, academic managers, and national postsecondary education policy planners, and various library associations.

Information about libraries related to postsecondary academic institutions has been used for such practical purposes as examining factors related to the academic quality of institutions. Other uses of the ALS survey data are listed below.

- Examination of the condition of academic libraries for collections development, resource sharing, and networking activities by federal agencies that administer library grants.
- Comparisons of the libraries at the national, regional, and state levels by SEAs.
- Quality assessments of accreditation review programs for academic institutions (evaluating postsecondary education institutions, establishing standards, and modifying comparative norms).
- Assessments of the impact of rapid technological change on the collections, budgets, and staffs of academic libraries by administrators, academic managers, and national policy planners. College librarians and administrators use these data to develop plans for the most effective use of local, state, and federal funds. Staff data are input to supply/demand models for professional and paraprofessional librarians.
- Evaluations of the general status of the library profession by library associations such as the American Library Association, the Association of Research Libraries, and the Association of College and Research Libraries utilize ALS data. Other research organizations use the data for studies of libraries.

II. Methodology

A. Web Data Collection

Prior to 1998 the ALS data were collected through IPEDS data coordinators using paper data collection instruments. Survey forms were mailed to institutions during the summer of the data collection year, with returns requested to be made by the fall. Data could be submitted via the paper forms although the coordinators were encouraged to use the software package “Input and Data Editing for Academic Library Statistics” (IDEALS), and submit the data on diskette to the U.S. Census Bureau.

Beginning in 2000, the ALS was transformed into a web-based survey. With this methodology, data are submitted by the respondents directly to the U.S. Census Bureau through the NCES web data collection application. Registration material is sent out in August, and responses are collected from October through February. The web-based collection incorporates internal consistency edit checks, range checks, and summation checks applied to prior ALS data collections. Warnings are provided to the respondent during the course of data entry when the data checking process detects a discrepancy with previously submitted data.

Appendix E provides detailed descriptions of the editing and imputation processes.

B. Coverage and Response Rate

For the Academic Library Survey of 2004, 3,653 in-scope, non-child, degree-granting Title IV receiving postsecondary institutions in the 50 states and the District of Columbia with academic libraries in 2004 were identified.

Of the 3,653 institutions, responses were received for the survey from 3,178 institutions, yielding a response rate of 87.0 percent. The 475 non-responding institutions are identified with the STATUS variable value equal to 4. Records for the nonresponding libraries (475 or 13.0 percent of 3,653 libraries on the data file) are included on the data file, with imputed data.

The response rates for each variable in the ALS 2004 survey are given in Appendix F, Table F-1. Item response rates (for all libraries) are calculated applying the total number of libraries (3,653) as the denominator for the universe of institutions (shown in column 1). The total number of libraries in other sub-categories is used as the denominator for the calculation of the item response rates in the respective sub-categories shown in the remaining columns.

III. User's Guide for Processing the Academic Library Universe Survey Data

A. Data Files

Public-use data files are available in ASCII and MS Access formats. These can be downloaded from the NCES website (<http://nces.ed.gov/surveys/libraries/>).

See prior note on confidential data in Part II section C about how to obtain the restricted-use data files. See the website <http://nces.ed.gov/pubsearch/licenses.asp> for information about obtaining a license for restricted-use data files.

The ALS 2004 data files are named as follows.

1. Tab delimited ASCII (flat file) format:
ALS_2004_R.2.A.TXT (Restricted Use)
ALS_2004_P.2.A.TXT (Public Use)
2. MS ACCESS database:
ALS_2004_R.2.A.MDB (Restricted Use)
ALS_2004_P.2.A.MDB (Public Use)

The **file naming and versioning** convention applied for the ALS 2004 file is as follows:

- Position 1-3: Survey (ALS)
- Position 4: Underscore (_)
- Position 5-8: Year (2004)
- Position 9: Underscore (_)
- Position 10: Restricted-use or Public-use (R or P)
- Position 11: Period (.)
- Position 12: Release status (preliminary = 0, final = 1⁵, final = 2⁶)
- Position 13: Period (.)
- Position 14: subsequent versions, beginning with A (A - Z)

SAS and SPSS program syntax files to create SAS and SPSS data files for analysis are also available on the same web page on which the data is available.⁷ These programs contain all the format, variable, and value label information necessary for creating a complete master file of all variables and data. The syntax files also contain code for generating the frequency and continuous variable statistics. The frequency and continuous variable statistics sections, however, are commented out in these syntax files, but can be activated at the user's discretion. **Additionally, the path name and**

⁵ Release status final = 1 includes data for outlying areas, 50 states, and the District of Columbia.

⁶ Release status final = 2 includes data only on institutions within the 50 states and the District of Columbia.

⁷ SAS and SPSS program syntax programs, rather than system files, are provided with a view to transcending problems related to changes in software versions.

directories specified in these programs must be modified to fit the requirements of the individual computer system on which the program is to be run.

The pertinent files are:

The SAS program to read the restricted-use file is Read_ALS_2004_R.2.A.SAS.TXT

The SAS program to read the public-use file is Read_ALS_2004_P.2.A.SAS.TXT

The SPSS program to read the restricted-use file is Read_ALS_2004_R.2.A.SPSS.TXT

The SPSS program to read the public-use file is Read_ALS_2004_P.2.A.SPSS.TXT.

Users who prefer MS ACCESS format can download the ACCESS database. The ACCESS database has a single table that contains all the data from the ALS survey.

All restricted-use files can be obtained only after an NCES data license has been approved. Data will be made available on CD-ROM, with appropriate documentation.

B. Record Identifier (UNITID)

Institutions in ALS are identified by the UNITID associated with the postsecondary institution with which they are affiliated. This is the same identifier used to identify postsecondary institutions in the IPEDS data collection system. ALS data, therefore, can be linked to a broad range of IPEDS institutional data using the institution's UNITID. ALS 2004 defined UNITID in character format so that the format would be consistent with other ALS variables that contain UNITID, such as UNITIDX, LIBSHAR1, LIBSHAR2, LIBSHAR3. This is also consistent with other surveys that define IDs that are not used for mathematical qualities in character format. However, it is important to note that if the user wants to merge the ALS and IPEDS data files, that IPEDS defines UNITID as numeric. Merging the file requires that the UNITIDs be consistent.

C. Imputation Status Flags⁸

All variables were imputed for 475 non-responding libraries of the 3,653 institutions with academic libraries. Responses on particular variables were also imputed for partial respondents. An imputation "status" flag that shows whether or not it was imputed, and

⁸ ALS Imputation and Suppression Codes: A = "Analyst adjusted a reported value"; C = "Analyst corrected a cell that was blank"; I = "Imputation for a cell that previously was a nonresponse, using a method other than prior year"; N = "Original data field was blank"; P = "Imputation for a cell that previously was a nonresponse, using prior year data"; R = "Original data value was reported"; S = "Not applicable, not imputed"; T = "Total replaced with sum of detail during imputation"; Z = "Implied reported zero value"; H = "the value for the variable was suppressed".

Most respondents who completed forms left an item blank when they had no data for that item. An item left blank, therefore, should often be interpreted as a reported zero. For such cases, imputation procedure changed the imputation flag from "N" to "Z". This imputation was not performed on "Child" institutions and hence those records will show the value "N" for imputation flag if the original data field was blank.

the corresponding algorithm applied is available for each imputed variable. The naming convention for these flags is an 'X' followed by the variable name. If the value of that flag is "A", "C", "R," or "Z", the value for the associated variable was either the original data value reported or a value adjusted or corrected by the analyst. If the value of the flag is "I", "P", or "T", the value for the associated variable was imputed. To remove all imputed values from the data, the values of variables that have an imputation flag "I", "P", or "T" should be removed or not included on the analysis data file. (Note: The flag variables are single character fields.) If the value of the flag is "H," the value for the associated variable has been suppressed.

D. Parent/Child (Branch) Records

Both "Parent" and "Child" institutions are included in the data file. This relationship is used to define the reporting responsibility of the library. A "Child" record may be used to describe institutions that are branch institutions for which data are reported by the Central or Main institution. That is, data for the "child" institutions are aggregated with and reported by the "Parent" institution. All library survey data fields for the child institutions are blank. But, it must also be noted that Branch institutions and their libraries may function independently of the main or central institution and, therefore, report their own data.

Although the child records do not include any library data, the records are included in the file so researchers can identify institutions that have or share a library. There are a total of 82 parent institutions that have children (i.e., 82 parent institutions have one or more child institution(s) associated with them in the ALS 2004). There are 236 child institutions associated with these parents that are retained on the data file, but, are not included in the calculations of the response rate.

The variable CYPARCH (current year parent/child indicator) indicates an institution's parent/child status. A '1' indicates a parent institution; a '2' indicates a child institution; and, an 'N' indicates no response. To remove child institutions from any analysis file, select institutions with the CYPARCH variable not equal to 2.

Child institutions are linked to their parent by the variable UNITIDX, which contains the IPEDS UNITID of the parent institution. For parent institutions, UNITIDX contains its UNITID.

E. Changes in Survey Questions and Variables

Variables and variable names have changed in the Academic Libraries Survey Form through the years to reflect changes that have occurred in the services, collections, expenditure accounting, and staffing of academic libraries. For example, in 1996 a number of questions were added on electronic services. In 1998, a substantial number of additional changes were made, especially in the collections and expenditures sections. These changes reflect the extensive changes in library services that occurred with regard to the development of electronic media. In 2000, a new set of questions on "consortial

services” was added⁹, and in 2004, a set of questions on “information literacy” was also added to the questionnaire.

Users of this data file should consult the relevant variable lists (Appendix B for ALS 2004) and Survey Forms (Appendix C for ALS 2004), and the Crosswalk between ALS 2004 and 2002 (Appendix D for ALS 2004) before making comparisons across years.

F. Institutions Participating in the Survey

The institutions represented on this data file can be summarized as follows.

- 3,889 institutions in the 50 states and DC
- 236 “child” institutions (data reported by parents)
- 3,653 institutions in the 50 states and DC with academic libraries
- 3,178 Responding Institutions
- 475 non-responding institutions

The five military academies were included in the data file.¹⁰

Table 1. Number of Title IV institutions, by level and sector: 2004

Sector	Level of institution		
	Total	4 year and above	2 to 4 year
Total	3,889	2,402	1,487
Child Institutions	236	185	51
U.S. Service Institutions	5	5	0
Public	1,576	586	990
Private Not-for-Profit	1,476	1,379	97
Private For Profit	596	247	349

NOTE 1: Title IV participation is determined by the OPE eligibility indicator code (OPEFLAG). In this table, participants include branch campuses of a participant and new participants, as well as regular, full participants (OPEFLAG = 1, 2, or 4). Limited participants are counted with the non-participants (OPEFLAG = 3 or 5).

NOTE 2: U.S. Service Institutions are (1) Air Force Academy, Colorado Springs, Colorado; (2) Naval Academy, Annapolis, Maryland; (3) Merchant Marine Academy, Kings Point, New York; (4) Military Academy, West Point, New York, and (5) Coast Guard Academy, New London, Connecticut. Merchant Marine Academy is eligible for Title IV federal funds, while the other four service institutions are not.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Academic Libraries Survey (ALS), 2004.

⁹ Data for the variable on consortial services was, however, suppressed (Coded H) because the questions were confounding and yielded inappropriate responses.

¹⁰ Military academies were included in the data file and treated as though they are Title IV eligible for the purpose of analysis. Military academies are identified by the variable OBEREG with a value zero (0). Non-military institutions are not included in the data file if they are not title IV eligible as indicated by a value of 1, 2, 3, or 4 for the variable OPEFLAG (Title IV eligibility indicator) or if they did not respond to the survey as indicated by a value of 1 or 4 on the variable STATUS which indicates the response status of the institution.

Table 2. Number of Child institutions, by level and sector: 2004

Sector	Level of institution		
	Total	4 year and above	2 to 4 year
Total	236	185	51
Public	67	37	30
Private Not-for-Profit	67	63	4
Private For Profit	102	85	17

SOURCE: U.S. Department of Education, National Center for Education Statistics, Academic Libraries Survey (ALS), 2004.

G. Data Issues

Researchers should be aware of the following issues and consider how their research may be affected.

1. There are 10 institutions, which ALS indicates have an academic library but IPEDS indicates do not (using the LIBFAC variable in IPEDS).
2. There are 379 institutions on this file with missing values of “-1,”“-2,” or “-3” for the Employer Id Number (EIN) variable. These 379 institutions do not have a valid EIN in the 2004-05 IPEDS database.
3. All of the 236 child institutions have zero values for the variables Total Staff, Total Salaries, Total Expenditure, Collection Total, Hours Open, and Gate Count. Researchers may want to exclude the child institution records from the calculation of summary statistics, to avoid the errors introduced by having zero instead of missing values. While the values will be appropriate for overall analyses, since the parent institutions are reporting aggregated data (combining parent and child facilities), values for particular parent institution characteristics will be misleading, because the parent institution may have different values and characteristics than some of the children for which they report.
4. The “shared library” variables LIBSHAR1, LIBSHAR2, LIBSHAR3, LIBNAME1, LIBNAME2, and LIBNAME3 are blank for all records. However, the IPEDS LIBFAC variable identifies 73 institutions among the 3,889 post secondary institutions in the 50 states and DC that share a facility. While shared institutions will not affect the number of reporting institutions in ALS, their presence will affect the number of ALS academic institutions shown to have their own library facilities.
5. Not all parent and child institutions are clearly matched. Parent institutions are designated by the variable value CYPARCH = “1” while child institutions are designated by the variable value CYPARCH= “2”. Of all analyzable institutions on the file (3,889), 82 identified themselves as a parent institution and 236 identified themselves as a child institution.

All institutions are also identified by a UNITID. All child institutions identify their parent institution using the UNITIDX variable by providing the parent's UNITID for the UNITIDX variable. In the case of the ALS 2004, 318 institutions specified a UNITIDX parent identifier. Of these, 236 identified themselves as child institutions (CYPARCH="2") associated with a parent institution (i.e., provided a parent institution UNITID for the UNITIDX variable). Eighty Two of the 318 institutions with a UNITIDX identified themselves as a parent institution (CYPARCH="1").

6. All values for the consortia variables (CNSUBYN, CNPARTYN, CNFULLYN, CNPRTLYN, and CNOTHRYN) are suppressed due to the confounding response options for the corresponding survey questions. In both the public-use file and the restricted-use file, the values for these variables are "H." However, the response rate for these variables were calculated (See table F-1 in appendix F) based on the actual response modified using the skip pattern logic of the survey.
7. Enrollment data included on the ALS data file is taken from IPEDS Enrollment data. However, the IPEDS enrollment year used was not consistently aligned with the ALS data year. The following table summarizes the Enrollment Data Included on ALS data Files, by year.

Table 3. IPEDS Enrollment Data Usage within ALS for Years 1998 - 2004

ALS YEAR	IPEDS ENROLLMENT YEAR	IPEDS MINORITY PERCENT YEAR
2004	FTEUSED (Year 2004)	PCTMIN1 - 4 (Year 2004)
2002	FTEUSED (Year Not Specified)	PCTMIN1 - 4 (Specified as 2001)
2000	Total Enrollment, Part-time Undergraduate, Full-time Undergraduate, Part-time Graduate, Full-time Graduate (Specified as 1998-99)	PCTMIN1 - 4 (Specified as 1998)
1998	Total Enrollment, Part-time Undergraduate, Full-time Undergraduate, Part-time Graduate, Full-time Graduate (Specified as 1997-98)	PCTMIN1 - 4 (Year Not Specified)

To undertake analyses that involve multiple years of library data, such as the relationship of enrollment to library finances or size of library, it would be appropriate to utilize related enrollment data that is consistent from year to year. Enrollment data for the appropriate years must be obtained from the IPEDS data collection at <http://nces.ed.gov/IPEDS>. The enrollment data for a list of institutions can be obtained using the "Data Cutting Tool". Percent Minority for the pertinent years may need to be calculated.

8. There are 36 non-child institutions with PCTMIN1, PCTMIN2, PCTMIN3, and PCTMIN4 variables with missing values. These data values are missing because either the IPEDS file provided to Census has missing values for these records or they were on the 2003 IPEDS file that was used to create the universe for the 2004 ALS file, but were then not included on IPEDS in 2004.

APPENDIX A—Glossary
Academic Libraries Survey (ALS) 2004

This glossary includes terms that have meanings for the IPEDS and ALS data collections.

APPENDIX A—Glossary

Academic Libraries Survey (ALS) 2004

Academic Library: An academic library is defined as an entity in a postsecondary education institution that provides all of the following:

- An organized collection of printed or other materials, or a combination thereof;
- A staff trained to provide and interpret such materials as required to meet the informational, cultural, recreational, or educational needs of clientele;
- An established schedule in which services of the staff are available to clientele;
- The physical facilities necessary to support such a collection, staff, and schedule.

This definition includes libraries that are part of learning resource centers.

All other operating expenditures: (Survey form, Part C, line 20) These include all expenditures not reported elsewhere in this part of the survey (excluding expenditures for employee fringe benefits).

Audio-visual materials: (Survey form, Part D, line 25) These are library materials that are displayed by visual projections or magnification or through sound reproduction.

Bibliographic utilities, networks and consortia expenditures: (Survey form, Part C, line 19) A category of expenditures for services by national, regional, and local bibliographic utilities networks, and consortia.

Books, serial backfiles, and other materials (including government documents): (Survey form, Part D, line 22)

- Paper materials defined as those materials produced by making impression on paper (for this category only information is requested on the number of volumes and titles);
- Microform units defined as units of photographic reproductions of textual, tabular, or graphic materials reduced in size so that they can be used only with magnification;
- Electronic titles defined as titles of materials that are not current serials and are considered part of the collection, whether purchased or leased, such as CD-ROMs, magnetic tapes, and magnetic disks (this category does not include bibliographic records).

Branch Library: Auxiliary library service outlets with quarters separate from the central library of an institution. They have a basic collection of books and other materials, a regular staffing level, and an established schedule. Branch libraries are administered either by the central library, as in the case of some libraries (such as law, medical, etc.), or through the administrative structure of other units within the university. Departmental study/reading rooms are not included. Libraries on branch campuses that have separate NCEs identification numbers are reported as separate libraries.

Carnegie Classification Code: The Carnegie Classification of Institutions of Higher Education is the leading typology of American colleges and universities. It is the framework in which institutional diversity in U.S. higher education is commonly described. Most of the Carnegie Foundation's higher education projects rely on the Classification to ensure a representative selection of participating individuals and institutions.

APPENDIX A—Glossary Academic Libraries Survey (ALS) 2004

The 2000 Carnegie Classification includes all colleges and universities in the United States that are degree-granting and accredited by an agency recognized by the U.S. Secretary of Education. The 2000 edition classifies institutions based on their degree-granting activities from 1995–96 through 1997–98. In addition, important limitations are documented in *The 2000 Carnegie Classification: Background and Description*. For definitions and detailed information on classification procedures, refer to the Technical Notes. After reviewing the Classification's strengths and weaknesses as well as its current uses, the Foundation is undertaking a thorough reassessment of the classification system to be concluded in 2005. Both the 2000 and the 2005 reports can be viewed/obtained at <http://www.carnegiefoundation.org/Classification/downloads.htm>.

The 2000 Carnegie Classifications follow:

Doctoral/Research Universities—Extensive: These institutions typically offer a wide range of baccalaureate programs, and they are committed to graduate education through the doctorate. During the period studied, they awarded 50 or more doctoral degrees per year across at least 15 disciplines.

Doctoral/Research Universities—Intensive: These institutions typically offer a wide range of baccalaureate programs, and they are committed to graduate education through the doctorate. During the period studied, they awarded at least ten doctoral degrees per year across three or more disciplines, or at least 20 doctoral degrees per year overall.

Master's Colleges and Universities I: These institutions typically offer a wide range of baccalaureate programs, and they are committed to graduate education through the master's degree. During the period studied, they awarded 40 or more master's degrees per year across three or more disciplines.

Master's Colleges and Universities II: These institutions typically offer a wide range of baccalaureate programs, and they are committed to graduate education through the master's degree. During the period studied, they awarded 20 or more master's degrees per year.

Baccalaureate Colleges—Liberal Arts: These institutions are primarily undergraduate colleges with major emphasis on baccalaureate programs. During the period studied, they awarded at least half of their baccalaureate degrees in liberal arts fields.

Baccalaureate Colleges—General: These institutions are primarily undergraduate colleges with major emphasis on baccalaureate programs. During the period studied, they awarded less than half of their baccalaureate degrees in liberal arts fields.

Baccalaureate/Associate's Colleges: These institutions are undergraduate colleges where the majority of conferrals are below the baccalaureate level (associate's degrees and certificates). During the period studied, bachelor's degrees accounted for at least ten percent of undergraduate awards.

APPENDIX A—Glossary

Academic Libraries Survey (ALS) 2004

Associate’s Colleges: These institutions offer associate’s degree and certificate programs but, with few exceptions, award no baccalaureate degrees. This group includes institutions where, during the period studied, bachelor’s degrees represented less than 10 percent of all undergraduate awards.

Specialized Institutions: These institutions offer degrees ranging from the bachelor’s to the doctorate, and typically award a majority of degrees in a single field. The list includes only institutions that are listed as separate campuses in the *2000 Higher Education Directory*.

Tribal Colleges and Universities: These colleges are, with few exceptions, operated by American Indian Tribes and are controlled and located on American Indian reservations. They are all members of the American Indian Higher Education Consortium.

Child Institution: A “child” institution does not respond directly to the ALS or IPEDS data collections. The data for such an institution is aggregated with and reported by its “parent” institution. This term appears to be colloquially applied (Not a term in the IPEDS Glossary—although used by IPEDS when defining a “branch” institution).

Computer hardware and software operating expenditures: (Survey form, Part C, line 18) These include expenditures from the library budget for computer hardware and software used to support library operations, whether purchased or leased, mainframe or microcomputer. Expenditures for maintenance and the expenditure to run information services when it cannot be separated from the price of the product are also included in this category.

Control (of institution): A specification of whether an institution (postsecondary) is operated by publicly elected or appointed officials (public control) or by privately elected or appointed officials and derives its major source of funds from private sources (private control) or public sources (public control).

Current serial subscriptions: (Survey form, Part D, line 26) This represents the total number of current serials received, including those that are paid and those received without payment (government documents received serially and electronic current serials are included).

Degree-granting status: Degree-granting institutions offer an associate’s, bachelor’s, master’s, doctor’s, or a first-professional degree. Non-degree-granting institutions offer certificates or other formal awards.

Document delivery and interlibrary loan expenditures: (Survey form, Part C, line 15) These include fees paid for photocopies, costs of facsimile transmission, royalties, and access fees paid to bibliographic utilities.

FIPS Code: Federal information processing standards codes (FIPS codes) are a standardized set of numeric or alphabetic codes issued by the National Institute of Standards and Technology (NIST) to ensure uniform identification of geographic entities through all federal government agencies. The FIPS variable used on this data file is the two digit FIPS state code.

APPENDIX A—Glossary

Academic Libraries Survey (ALS) 2004

Full-time equivalent (FTE) employees: FTE is a measure of the number of employees based on hours worked. The total number of hours for all part-time positions is divided by the number of hours the library uses to define a part-time position. Therefore, if a 40 hour work week is the standard full-time position, 2 part-time employees, each working 30 hours a week would be the equivalent of 1.5 full-time employees (60 / 40).

Full-time equivalent (FTE) student: FTE student is calculated based on the number of full-time students enrolled plus one-third of the number of part-time students.

Gate count of visitors to library per typical week: (Survey form, Part F, line 38) Gate count is the number of persons who physically enter library facilities over the course of a week. A single person can be counted more than once.

General and reserve circulation: General and reserve circulation includes initial charging out of items, either manually or electronically, by patrons. The count also includes renewals of items, each of which is a circulation transaction.

Interlibrary loan transactions: (Survey form, Part E, lines 27–32) Interlibrary loan transactions are the number of filled requests for materials provided to other libraries or received by the library from another library.

IPEDS: The **Integrated Postsecondary Education Data System** is the core postsecondary education data collection program for the National Center for Education Statistics. This data collection program is designed to collection information about all postsecondary institutions and organizations in the 50 States, District of Columbia, and the respective outlying areas.

Level (of institution): A specification of whether a postsecondary education institution's programs are 4-year or higher (4 year), 2-but-less-than 4-year (2 year), or less than 2-year.

Librarians: (Survey form, Part B, line 02) This is the FTE (Full Time Equivalent) of staff whose duties require professional education (the master's degree or its equivalent) in the theoretical and scientific aspects of librarianship.

Number served in information services/presentations to groups: This is the number of individuals served in presentations that were sponsored by the library and planned in advance. The presentation may cover instruction in library use, or cultural, recreational or educational presentations. Presentations given off the library site are included, as long as the library is the sponsor.

Other (FTE) paid staff: Other paid staff is all other FTE (Full Time Equivalent) staff, except student assistants. This category includes clerical and technical staff but excludes maintenance and custodial staff.

Other (FTE) professional staff: (Survey form, Part B, line 03) This is the FTE (Full Time Equivalent) count of professional staff other than Librarians (Survey form, Part B, line 02). The

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duties of these staff members require an education and or training in related fields (e.g., academic disciplines, archives, media, and computing).

Parent Institution: An institution that reports data for another institution (a “child”) aggregated with its own data. (Not a term in the IPEDS Glossary—although used by IPEDS when defining central or main institution).

Postsecondary Institution: Postsecondary education institution has as its sole purpose or one of its primary missions, the provision of formal instructional programs with a curriculum is designed primarily for students who are beyond the compulsory age for high school. This includes academic, vocational, and continuing professional education programs, and excludes avocational and adult basic education programs (IPEDS Glossary).

Preservation: (Survey form, Part C, line 16) This is a category of expenditures associated with maintaining library and archival materials for use in their original form or some other usable way. Examples of this are rebinding, de-acidification, lamination, and materials conservation.

Public service hours per typical week: These are the numbers of hours the Libraries physical facility is open for service.

Reference transactions (including computer searches): These are information contacts that involve the knowledge, use, commendation, interpretation, or instruction in the use of one or more information sources by a member of the library staff. Information sources may include printed (e.g., book volumes) and non-printed (e.g., microforms) materials and machine-readable databases (e.g., those on CD-ROMS). The transaction may include providing direction to services outside the library.

Salaries and wages: (Survey form, Part B, lines 04–07) This category of expenditures includes compensation for full- and part-time employees before deductions and includes hourly pay to student assistants.

Sector: One of nine categories into which postsecondary institutions may be divided based on their control and level. **Control categories** are public, private not-for-profit, and private for-profit. **Level categories** are 4-year and higher (4 year), 2-but-less-than 4-year (2 year), and less than 2-year. For example: “public, 4-year institutions” is an example of a sector category.

Student assistants (FTE): (Survey form, Part B, line 06) This is the FTE count of students employed on an hourly basis to work on library-related tasks. This group includes both students whose wages are paid from funds under the library budget and those paid from other budgets, including the College Work-Study Program.

Title IV institution: An institution that has a written agreement with the Secretary of Education that allows the institution to participate in any of the Title IV federal student financial assistance programs (other than the State Student Incentive Grant (SSIG) and the National Early Intervention Scholarship and Partnership (NEISP) programs).

APPENDIX A—Glossary
Academic Libraries Survey (ALS) 2004

Total expenditures: (Survey form, Part B, line 21) This includes the sum of all expenditures listed in the expenditures section of the survey.

APPENDIX B—Record Layout
Academic Libraries Survey (ALS) 2004

The record layout describes each variable in the data file. It includes codes used for categorical variables and their descriptions.

APPENDIX B—Record Layout Academic Libraries Survey (ALS) 2004

Variable Name	Field Width	Field Type	Data Element Description	Source
UNITID	6	character	Unit identification Number: The unique unit identification number assigned to every institution in the universe.	Survey
INSTNM	50	character	Institution (entity) name	IPEDS
ADDR	60	character	Institution (entity) street address or post office box	IPEDS
CITY	20	character	City location of institution	IPEDS
STABBR	2	character	Post Office State abbreviation code. See FIPS state code.	IPEDS
ZIP	9	character	Zip + four (does not include dash). Last four positions may be blank	IPEDS
FIPS	2	character	FIPS state code	IPEDS
ACT	1	character	Status of the institution A - Active - institution active and not an add C - Combined - merged with another institution D - Delete - institution is out of business H - Areas search on hold pending verification I - Inactive M - Death with data - closed in current year N - New - added during the current year O - Out- of-scope - not within scope of universe P - Potential add - might be added Q - Potential restore - might be restored R - Restore - restored to the current universe S - Split - split into more than one institution U - Duplicate - UNITID previously assigned W - Wipe out - out-of-scope potential add X - Potential restore not within scope of IPEDS Z - Universe III - out-of-scope	IPEDS
OBereg	2	numeric	OBE region code 0 - US Service schools 1 - New England CT ME MA NH RI VT 2 - Mid East DE DC MD NJ NY PA 3 - Great Lakes IL IN MI OH WI 4 - Plains IA KS MN MO NE ND SD 5 - Southeast AL AR FL GA KY LA MS NC SC TN VA WV 6 - Southwest AZ NM OK TX 7 - Rocky Mountains CO ID MT UT WY 8 - Far West AK CA HI NV OR WA 9 - Outlying areas AS FM GU MH MP PR PW VI -3 - Not available	IPEDS
EIN	9	character	Employer identification number - assigned by Internal Revenue Service -1 - Not reported -2 - Not applicable -3 - Not available	IPEDS
DUNS	10	character	Dunn and Bradstreet identification number -3 - Not available	IPEDS
OPEID	8	character	Office of Postsecondary Education identification number for those institutions eligible to participate in Title IV programs	IPEDS

**APPENDIX B—Record Layout
Academic Libraries Survey (ALS) 2004**

Variable Name	Field Width	Field Type	Data Element Description	Source
OPEFLAG	1	numeric	OPE eligibility indicator code 1 - Institution participates in Title IV federal financial aid programs 2 - Branch campus of a main campus that participates in Title IV 3 - Deferment only - limited participation 4 - New participants (became eligible during the Fall collection-IPEDS) 5 - Not currently participating in Title IV, has an OPE ID number 6 - Not currently participating in Title IV, does not have and OPE ID number	IPEDS
WEBADDR	50	character	Institution's internet website address	IPEDS
SECTOR	2	numeric	Sector of Institution (generated, based on response to IC survey) 0 - Administrative unit only (central, system, or corporate office) 1 - Public, 4-year or above 2 - Private nonprofit, 4-year and above 3 - Private for profit, 4-year and above 4 - Public, 2-year 5 - Private nonprofit, 2-year 6 - Private for-profit, 2-year 7 - Public, less-than-2-year 8 - Private nonprofit, less-than-2-year 9 - Private for profit, less-than-2-year -3 - Not available	IPEDS
ICLEVEL	2	numeric	Level of institution (generated, based on response to IC survey) 1 - Four or more years (Baccalaureate or higher degree) 2 - At least 2 but less than 4 years (below the Baccalaureate) 3 - Less than 2 years (below Associate's degree) -3 - Not available	IPEDS
CONTROL	2	numeric	Control of institution 1 - Public 2 - Private, non-profit 3 - Private, for profit -3 - Not available	IPEDS
HLOFFER	2	numeric	Highest level of offering (generated, based on response to IC survey) 0 - Other 1 - Postsecondary award, certificate or diploma of less than one academic year 2 - Postsecondary award, certificate or diploma of at least one but less than two academic years 3 - Associate's degree 4 - Postsecondary award, certificate or diploma of at least two but less than four academic years 5 - Bachelor's degree 6 - Postbaccalaureate certificate 7 - Master's degree 8 - Post-Master's certificate 9 - Doctor's degree -9 - none of the above or no answer -2 - Not applicable, 1st professional only -3 - Not available	IPEDS
UGOFFER	2	numeric	Undergraduate offering (generated, based on IC response) 1 - Undergraduate degree or certificate offered 2 - No undergraduate offering -3 - Not available	IPEDS

APPENDIX B—Record Layout
Academic Libraries Survey (ALS) 2004

Variable Name	Field Width	Field Type	Data Element Description	Source
GROFFER	2	numeric	Graduate offering (generated, based on response to IC) 1 - Graduate degree or certificate offered 2 - No graduate offering -3 - Not available	IPEDS
FPOFFER	2	numeric	First-professional offering (generated, based on response to IC survey) 1 - First-professional degree or first-professional certificate (Post-degree) 2 - No first-professional offering -3 - Not available	IPEDS
HDEGOFFR	2	numeric	Highest Degree offered 0 - Non-degree granting (certificates only) 1 - First-professional degrees only 10 - Doctoral 11 - Doctoral and First-professional 20 - Master's 21 - Master's and First-professional 30 - Bachelors 31 - Bachelors and First-professional 40 - Associates 41 - Associates and First-professional -3 - Not available	IPEDS
DEGGRANT	2	numeric	Degree granting status 1 - Yes 2 - No -1 - Not reported	IPEDS
PCTMIN1	3	numeric	Percent minority, generated from 2004 Fall Enrollment survey - responding institutions only (does not include imputed data) Percent Black, non-Hispanic -1 - Not reported -3 - Not available	IPEDS
PCTMIN2	3	numeric	Percent minority, generated from 2004 Fall Enrollment survey - responding institutions only (does not include imputed data) Percent American Indian/Alaskan Native -1 - Not reported -3 - Not available	IPEDS
PCTMIN3	3	numeric	Percent minority, generated from 2004 Fall Enrollment survey - responding institutions only (does not include imputed data) Percent Asian/Pacific Islander -1 - Not reported -3 - Not available	IPEDS
PCTMIN4	3	numeric	Percent minority, generated from 2004 Fall Enrollment survey - responding institutions only (does not include imputed data) Percent Hispanic -1 - Not reported -3 - Not available	IPEDS
HBCU	2	numeric	Historically Black college or university (accredited institution of higher education established prior to 1964 with the principal mission of educating Black Americans.) 1 - Yes 2 - No -3 - Not available	IPEDS
HOSPITAL	2	numeric	Institution has hospital 1 - Yes 2 - No -3 - Not available	IPEDS

APPENDIX B—Record Layout Academic Libraries Survey (ALS) 2004

Variable Name	Field Width	Field Type	Data Element Description	Source
MEDICAL	2	numeric	Institution grants a medical degree 1 - Yes 2 - No -3 - Not available	IPEDS
TRIBAL	2	numeric	Tribal college 1- Yes 2 - No -3 - Not available	IPEDS
CARNEGIE	2	numeric	Carnegie Classification Code The 2000 Carnegie Classification includes all colleges and universities in the United States that are degree-granting and accredited by an agency recognized by the U.S. Secretary of Education. The 2000 edition classifies institutions based on their degree-granting activities from 1995-96 through 1997-98. 15 Doctoral/Research Universities—Extensive: These institutions typically offer a wide range of baccalaureate programs, and they are committed to graduate education through the doctorate. They award 50 or more doctoral degrees per year across at least 15 disciplines 16 Doctoral/Research Universities—Intensive: These institutions typically offer a wide range of baccalaureate programs, and they are committed to graduate education through the doctorate. They award at least ten doctoral degrees/1 per year across three or more disciplines, 2 or at least 20 doctoral degrees per year overall. 21 - Master’s Colleges and Universities I: These institutions typically offer a wide range of baccalaureate programs, and they are committed to graduate education through the master’s degree. They award 40 or more master’s degrees per year across three or more disciplines. 22 - Master’s (Comprehensive) Colleges and Universities II: These institutions typically offer a wide range of baccalaureate programs, and they are committed to graduate education through the master’s degree. They award 20 or more master’s degrees per year. 31 - Baccalaureate Colleges—Liberal Arts: These institutions are primarily undergraduate colleges with major emphasis on baccalaureate programs. They award at least half of their baccalaureate degrees in liberal arts fields. 32 - Baccalaureate Colleges—General: These institutions are primarily undergraduate colleges with major emphasis on baccalaureate programs. They award less than half of their baccalaureate degrees in liberal arts fields. 33 - Baccalaureate/Associate’s Colleges: These institutions are undergraduate colleges where the majority of conferrals are at the subbaccalaureate level (associate’s degrees and certificates), but bachelor’s degrees account for at least ten percent of undergraduate awards. 40 - Associate’s Colleges: These institutions offer associate’s degrees and certificate programs but, with few exceptions, award no baccalaureate degrees. Specialized Institutions - These institutions offer degrees ranging from the bachelor’s to the doctorate, and typically award a majority of degrees in a single field. The list includes only institutions that are listed as separate campuses in the Higher Education Directory. Specialized institutions include:	IPEDS

APPENDIX B—Record Layout

Academic Libraries Survey (ALS) 2004

Variable Name	Field Width	Field Type	Data Element Description	Source
			<p>51 - Theological seminaries and other specialized faith-related institutions: These institutions primarily offer religious instruction or train members of the clergy.</p> <p>52 - Medical schools and medical centers: These institutions award most of their professional degrees in medicine. In some instances, they include other health professions programs, such as dentistry, pharmacy, or nursing.</p> <p>53 - Other separate health profession schools: These institutions award most of their degrees in such fields as chiropractic, nursing, pharmacy, or podiatry.</p> <p>54 - Schools of engineering and technology: These institutions award most of their bachelor's or graduate degrees in technical fields of study.</p> <p>55 - Schools of business and management: These institutions award most of their bachelor's or graduate degrees in business or business-related programs.</p> <p>56 - Schools of art, music, and design: These institutions award most of their bachelor's or graduate degrees in art, music, design, architecture, or some combination of such fields.</p> <p>57 - Schools of law: These institutions award most of their degrees in law.</p> <p>58 - Teachers colleges: These institutions award most of their bachelor's or graduate degrees in education or education-related fields.</p> <p>59 - Other specialized institutions: Institutions in this category include graduate centers, maritime academies, military institutes, and institutions that do not fit any other classification category.</p> <p>60 - Tribal Colleges and Universities: These colleges are, with few exceptions, tribally controlled and located on reservations. They are all members of the American Indian Higher Education Consortium.</p> <p>NOTES ON DEFINITIONS</p> <p>1. Doctoral degrees are as defined in the Integrated Postsecondary Education Data System (IPEDS) of the U.S. Department of Education's National Center for Education Statistics (NCES). This includes the Ph.D. in any field as well as other doctoral-level degrees such as the Doctor of Education, Doctor of Juridical Science, and Doctor of Public Health. It excludes doctoral-level degrees defined as first-professional degrees in IPEDS. For more information, see http://nces.ed.gov/ipeds.</p> <p>2. Distinct disciplines are determined by the 4-digit series of the Classification of Instructional Programs published by NCES. For more information, see http://nces.ed.gov/pubsearch/pubsinfo.aps?pubid=91396</p> <p>3. Liberal arts fields include the following fields (as listed in the Classification of Instructional Programs): English language and literature/letters; foreign languages and literatures; biological sciences/life sciences; mathematics; philosophy and religion; physical sciences; psychology; social sciences and history; visual and performing arts; area, ethnic, and cultural studies; liberal arts and sciences, general studies, and humanities; and multi/interdisciplinary studies.</p> <p>4. This group includes community, junior, and technical colleges.</p> <p>-2 - Not applicable -3 - Not available</p>	

APPENDIX B—Record Layout

Academic Libraries Survey (ALS) 2004

Variable Name	Field Width	Field Type	Data Element Description	Source
LOCALE	2	numeric	Locale codes - Degree of Urbanization 1 - Large city - a central city of a CMSA or MSA with the city having a population greater than or equal to 250,000. 2 - Mid-size city - a central city of a CMSA or MSA, with the city having a population less than 250,000. 3 - Urban fringe of large city - any incorporated place, CDP, or non-place territory within a CMSA or MSA of a large city and defined as urban by the U.S. Census Bureau. 4 - Urban fringe of mid-size city - any incorporated place, CDP, or non-place territory within a CMSA or MSA of a large city of a mid-size city and defined as urban by the U.S. Census Bureau. 5 - Large town - an incorporated place or CDP with a population greater than or equal to 25,000 and located outside a CMSA or MSA. 6 - Small town - an incorporated place or CDP with a population less than 25,000 and greater than or equal to 2,500 and located outside a CMSA or MSA. 7 - Rural - any incorporated place, CDP, or non-place territory designated as rural by the U.S. Census Bureau. 9 - Not assigned -3 - Not available	IPEDS
OPENPUBL	2	numeric	Institution open to the general public 1 - Yes 2 - No	IPEDS
DATSR	1	character	Data source code - the media source used for returning data: 1 - Internet/Web 7 - Other, telephone N - not returned	Derived
STATUS	1	character	Response status code A code identifying the response status of the institution 1 - Respondent 3 - Nonrespondent to data and screening questions, not imputed 4 - Nonrespondent, imputed 5 - Nonrespondent to data (screening questions reported, out-of-scope), not imputed 6 - Nonrespondent to data (screening questions reported, in-scope), not imputed	Derived
EDITST	1	character	Release status given to NCES 1 - Record edited with no edit or critical flags 2 - Record edited with critical edit flags, analyst accept 3 - Record edited with critical edit flags remaining, NCES override 4 - Record is on hold 5 - Record failed the edits 0 - not edited N - No response	Derived
EDITDATE	8	character	Most recent date edited (MMDDYYYY)	Derived
IMPUTE	1	character	Impute indicator 1 - at least one part is imputed 0 - not imputed	Derived
IMPDATE	8	character	Most recent date imputed (MMDDYYYY)	Derived

APPENDIX B—Record Layout

Academic Libraries Survey (ALS) 2004

Variable Name	Field Width	Field Type	Data Element Description	Source
PARTAFLAG1	1	character	<p>Imputation flag for line item 1. The flag indicates if imputation was done for all, some, or no variables in this part of the survey. Possible values and meanings are:</p> <p>1 - Total non-respondent for this part 2 - Partial non-respondent for this part 0 - Nothing imputed for this part/total respondent to this part</p> <p>*partaflag1 will never be 2 because there is only one line item in this part.</p>	Derived
PARTBFLAG1	1	character	<p>Imputation flag for line items 2-7, both columns. The flag indicates if imputation was done for all, some, or no variables in this part of the survey. Possible values and meanings are:</p> <p>1 - Total non-respondent for this part 2 - Partial non-respondent for this part 0 - Nothing imputed for this part/total respondent to this part</p>	Derived
PARTBFLAG2	1	character	<p>Imputation flag for fringe benefits, line items 8a and 8b. The flag indicates if imputation was done for all, some, or no variables in this part of the survey. Possible values and meanings are:</p> <p>1 - Total non-respondent for this part 2 - Partial non-respondent for this part 0 - Nothing imputed for this part/total respondent to this part</p>	Derived
PARTCFLAG1	1	character	<p>Imputation flag for the outer column of line items 10, 13, and 15-21. The flag indicates if imputation was done for all, some, or no variables in this part of the survey. Possible values and meanings are:</p> <p>1 - Total non-respondent for this part 2 - Partial non-respondent for this part 0 - Nothing imputed for this part/total respondent to this part</p> <p>Note: There is no part flag for line item 9 because this item will always be the same as line item 7, which has a part flag.</p>	Derived
PARTCFLAG2	1	character	<p>Imputation flag for the inner column of line items 11, 12, and 14. The flag indicates if imputation was done for all, some, or no variables in this part of the survey. Possible values and meanings are:</p> <p>1 - Total non-respondent for this part 2 - Partial non-respondent for this part 0 - Nothing imputed for this part/total respondent to this part</p>	Derived
PARTDFLAG1	1	character	<p>Imputation flag for columns 1 and 2 of line items 22 and 24-26. The flag indicates if imputation was done for all, some, or no variables in this part of the survey. Possible values and meanings are:</p> <p>1 - Total non-respondent for this part 2 - Partial non-respondent for this part 0 - Nothing imputed for this part/total respondent to this part</p>	Derived

APPENDIX B—Record Layout

Academic Libraries Survey (ALS) 2004

Variable Name	Field Width	Field Type	Data Element Description	Source
PARTDFLAG2	1	character	Imputation flag for columns 1 and 2 of line item 23. The flag indicates if imputation was done for all, some, or no variables in this part of the survey. Possible values and meanings are: 1 - Total non-respondent for this part 2 - Partial non-respondent for this part 0 - Nothing imputed for this part/total respondent to this part	Derived
PARTEFLAG1	1	character	Imputation flag for line items 27-33. The flag indicates if imputation was done for all, some, or no variables in this part of the survey. Possible values and meanings are: 1 - Total non-respondent for this part 2 - Partial non-respondent for this part 0 - Nothing imputed for this part/total respondent to this part	Derived
PARTEFLAG2	1	character	Imputation flag for line items 34a and 34b. The flag indicates if imputation was done for all, some, or no variables in this part of the survey. Possible values and meanings are: 1 - Total non-respondent for this part 2 - Partial non-respondent for this part 0 - Nothing imputed for this part/total respondent to this part	Derived
PARTEFLAG3	1	character	Imputation flag for line items 35 and 36. The flag indicates if imputation was done for all, some, or no variables in this part of the survey. Possible values and meanings are: 1 - Total non-respondent for this part 2 - Partial non-respondent for this part 0 - Nothing imputed for this part/total respondent to this part	Derived
PARTFFLAG1	1	character	Imputation flag for line items 37-39. The flag indicates if imputation was done for all, some, or no variables in this part of the survey. Possible values and meanings are: 1 - Total non-respondent for this part 2 - Partial non-respondent for this part 0 - Nothing imputed for this part/total respondent to this part	Derived
NCESDATE	8	character	Date the imputations were run by ESMPD at Census. The value of this variable should not change after the imputed file leaves ESMPD. (MMDDYYYY)	Derived
FTEUSED	8	numeric	Year 2004 IPEDS Fall Collection full-time equivalent student enrollment based on Digest of Education Statistics formula.	IPEDS
FTEFLAG	1	character	Flag to indicate FTE is estimated. 0 - Not estimated 1 - Estimated	Derived
ELGCOLL	1	character	Institution has an organized collection of printed or other materials or a combination thereof 1 - Yes 2 - No N - No response	Survey

APPENDIX B—Record Layout Academic Libraries Survey (ALS) 2004

Variable Name	Field Width	Field Type	Data Element Description	Source
ELGSTAFF	1	character	Institution has a staff trained to provide and interpret such materials as required to meet the informational, cultural, recreational, or educational needs of clientele 1 - Yes 2 - No N - No response	Survey
ELGSCHED	1	character	Institution has an established schedule in which services of the staff are available to clientele 1 - Yes 2 - No N - No response	Survey
ELGPHYS	1	character	Institution has the physical facilities necessary to support such a collection, staff, and schedule 1 - Yes 2 - No N - No response	Survey
FINSUPP	1	character	Institution provide financial support to another library 1 - Yes 2 - No N - No response	Survey
CYPARCH	1	character	Current year parent/child indicator 1 - Parent (Combined data respondent; record contains data for more than one institution) 2 - Child (Data reported on another institution's record) N - No response	Survey
UNITIDX	6	character	The UNITID of the institution where the data are recorded if the CYPARCH code is equal to 2. -2 - Not applicable	Survey
LIBSHAR1	6	character	Shared library, 1 st UNITID	Survey
LIBNAME1	50	character	Name of institution library is shared with	Survey
LIBSHAR2	6	character	Shared library, 2 nd UNITID	Survey
LIBNAME2	50	character	Name of institution library is shared with	Survey
LIBSHAR3	6	character	Shared library, 3 rd UNITID	Survey
LIBNAME3	50	character	Name of institution library is shared with	Survey
XBRANCHES	1	character	Statusflag A - Analyst adjusted a reported value C - Analyst corrected a cell that was blank I - Imputation for a cell that previously was a nonresponse, using a method other than prior year N - Original data field was blank P - Imputation for a cell that previously was a nonreponse, using prior year data R - Original data value was reported S - Not applicable, not imputed T - Total replaced with sum of detail during imputation Z - Implied reported zero value H - Data suppressed	Survey

APPENDIX B—Record Layout Academic Libraries Survey (ALS) 2004

Variable Name	Field Width	Field Type	Data Element Description	Source
BRANCHES	6	numeric	Number of branch and independent libraries (exclude main or central library)	Survey
XSTLIBS	1	character	Statusflag	Survey
STLIBS	9,2	numeric	Librarians	Survey
XSTOTHPRO	1	character	Statusflag	Survey
STOTHPRO	9,2	numeric	Other professional staff	Survey
XSTLIBPRO	1	character	Statusflag	Survey
STLIBPRO	9,2	numeric	Total librarians and other professional staff (sum lines 02 and 03, col. 1)	Survey
XSTOTH	1	character	Statusflag	Survey
STOTH	9,2	numeric	All other paid staff (except student assistants)	Survey
XSTASST	1	character	Statusflag	Survey
STASST	9,2	numeric	Student assistants from all funding sources	Survey
XSTTOT	1	character	Statusflag	Survey
STTOT	9,2	numeric	Total full-time equivalent (FTE) staff (sum lines 04 through 06, col.1)	Survey
XSWLIBPRO	1	character	Statusflag	Survey
SWLIBPRO	12	numeric	Salaries and wages—librarians and other professional staff	Survey
XSWOTH	1	character	Statusflag	Survey
SWOTH	12	numeric	Salaries and wages—all other paid staff (except student assistants)	Survey
XSWASST	1	character	Statusflag	Survey
SWASST	12	numeric	Salaries and wages—student assistants from all funding sources	Survey
XSWTOT	1	character	Statusflag	Survey
SWTOT	12	numeric	Total salaries and wages for total full-time equivalent (FTE) staff (sum lines 04 through 06, col. 2)	Survey
XFRINGEYN	1	character	Statusflag	Survey
FRINGEYN	1	character	Are employee fringe benefits paid from the library budget 1 - Yes 2 - No N - No response	Survey
XFRINGE	1	character	Statusflag	Survey
FRINGE	12	numeric	Employee fringe benefits (if paid from the library budget)	Survey
XEXBKS	1	character	Statusflag	Survey
EXBKS	12	numeric	Books, serial backfiles and other materials (one-time purchases)	Survey
XEXELBKS	1	character	Statusflag	Survey
EXELBKS	12	numeric	Electronic	Survey
XEXAUD	1	character	Statusflag	Survey
EXAUD	12	numeric	Audiovisual	Survey
XEXCUSER	1	character	Statusflag	Survey
EXCUSER	12	numeric	Current serial subscriptions (ongoing commitments)	Survey
XEXELSER	1	character	Statusflag	Survey
EXELSER	12	numeric	Electronic serials	Survey
XEXDEL	1	character	Statusflag	Survey
EXDEL	12	numeric	Document deliver/interlibrary loan	Survey

APPENDIX B—Record Layout Academic Libraries Survey (ALS) 2004

Variable Name	Field Width	Field Type	Data Element Description	Source
XEXPRES	1	character	Statusflag	Survey
EXPRES	12	numeric	Preservation	Survey
XEXOTHIR	1	character	Statusflag	Survey
EXOTHIR	12	numeric	Other expenditures for information resources	Survey
XEXCOMP	1	character	Statusflag	Survey
EXCOMP	12	numeric	Computer hardware and software (include maintenance)	Survey
XEXBIB	1	character	Statusflag	Survey
EXBIB	12	numeric	Bibliographic utilities, networks and consortia	Survey
XEXOTH	1	character	Statusflag	Survey
EXOTH	12	numeric	All other operating expenditures	Survey
XEXTOT	1	character	Statusflag	Survey
EXTOT	12	numeric	Total expenditures (sum lines 09, 10, 13, 15 through 20)	Survey
XCOLELYN	1	character	Statusflag	
COLELYN	1	character	Library collection is entirely electronic 1 - Yes 2 - No N - No response	Survey
XCOLBKSA	1	character	Statusflag	Survey
COLBKSA	12	numeric	Books, serial backfiles and other paper materials (include government documents) - added	Survey
XCOLEBKSA	1	character	Statusflag	Survey
COLEBKSA	12	numeric	E-Books - added	Survey
XCOLMICRA	1	character	Statusflag	Survey
COLMICRA	12	numeric	Microforms - added	Survey
XCOLAUDA	1	character	Statusflag	Survey
COLAUDA	12	numeric	Audiovisual materials - added	Survey
XCOLSERA	1	character	Statusflag	Survey
COLSERA	12	numeric	Current serial subscriptions - added	Survey
XCOLELREFA	1	character	Statusflag	Survey
COLELREFA	12	numeric	Electronic reference sources and aggregation services; added	Survey
XCOLBKSH	1	character	Statusflag	Survey
COLBKSH	12	numeric	Books, serial backfiles and other paper materials (include government documents) - held	Survey
XCOLEBKSH	1	character	Statusflag	Survey
COLEBKSH	12	numeric	E-Books - held	Survey
XCOLMICRH	1	character	Statusflag	Survey
COLMICRH	12	numeric	Microforms - held	Survey
XCOLAUDH	1	character	Statusflag	Survey
COLAUDH	12	numeric	Audiovisual materials - held	Survey
XCOLSERH	1	character	Statusflag	Survey
COLSERH	12	numeric	Current serial subscriptions – held	Survey
XCOLELREFH	1	character	Statusflag	Survey
COLELREFH	12	numeric	Electronic reference sources and aggregation services; held	Survey
XILPRET	1	character	Statusflag	Survey
ILPRET	12	numeric	Returnable	Survey
XILPNON	1	character	Statusflag	Survey
ILPNON	12	numeric	Non-returnable	Survey

APPENDIX B—Record Layout Academic Libraries Survey (ALS) 2004

Variable Name	Field Width	Field Type	Data Element Description	Source
XILPTOT	1	character	Statusflag	Survey
ILPTOT	12	numeric	Total provided (sum lines 27 and 28)	Survey
XILRRET	1	character	Statusflag	Survey
ILRRET	12	numeric	Returnable	Survey
XILRNON	1	character	Statusflag	Survey
ILRNON	12	numeric	Non-returnable	Survey
XILRTOT	1	character	Statusflag	Survey
ILRTOT	12	numeric	Total received (sum lines 30 and 31)	Survey
XDOCDEL	1	character	Statusflag	Survey
DOCDEL	12	numeric	Documents delivered from commercial services	Survey
XCRGEN	1	character	Statusflag	Survey
CRGEN	12	numeric	General circulation transactions	Survey
XCRRSV	1	character	Statusflag	Survey
CRRSV	12	numeric	Reserve circulation transactions	Survey
XPRESEN	1	character	Statusflag	Survey
PRESEN	12	numeric	Number of presentations	Survey
XATTEND	1	character	Statusflag	Survey
ATTEND	12	numeric	Total attendance at all presentations	Survey
XHOURS	1	character	Statusflag	Survey
HOURS	8	numeric	Hours open in a typical week	Survey
XGATECT	1	character	Statusflag	Survey
GATECT	12	numeric	Gate count in a typical week	Survey
XREFTRANS	1	character	Statusflag	Survey
REFTRANS	12	numeric	Reference transactions in a typical week	Survey
XDOCDIGYN	1	character	Statusflag	Survey
DOCDIGYN	1	character	Documents digitized by the library staff 1 - Yes 2 - No N - No response	Survey
XLIBREFYN	1	character	Statusflag	Survey
LIBREFYN	1	character	Library reference service by e-mail or the Web 1 - Yes 2 - No N - No response	Survey
XTECHYN	1	character	Statusflag	Survey
TECHYN	1	character	Technology to assist patrons with disabilities (e.g., TDD, specially equipped work stations) 1 - Yes 2 - No N - No response	Survey
XTHESYN	1	character	Statusflag	Survey

**APPENDIX B—Record Layout
Academic Libraries Survey (ALS) 2004**

Variable Name	Field Width	Field Type	Data Element Description	Source
THESYN	1	character	Electronic theses and dissertations produced by your students 1 - Yes 2 - No N - No response	Survey
XCNSUBYN	1	character	Statusflag	Survey
CNSUBYN	1	character	Does your state have one or more state subsidized library consortium that provides access to electronic resources? 1 - Yes 2 - No N - No response H - Data suppressed	Survey
XCNPARTYN	1	character	Statusflag	Survey
CNPARTYN	1	character	Does your library participate in the consortium? 1 - Yes 2 - No 3 - State has no subsidized consortium N - No response H - Data suppressed	Survey
XCNFULLYN	1	character	Statusflag	Survey
CNFULLYN	1	character	Is the cost of your library's participation fully funded by the state? 1 - Yes 2 - No 3 - State has no subsidized consortium N - No response S - Skip, no participation H - Data suppressed	Survey
XCNPRTLYN	1	character	Statusflag	Survey
CNPRTLYN	1	character	Is the cost of your library's participation partially funded by the state? 1 - Yes 2 - No 3 - State has no subsidized consortium F - Full participation N - No response S - Skip, no participation H - Data suppressed	Survey
XCNOTHRYN	1	character	Statusflag	Survey

**APPENDIX B—Record Layout
Academic Libraries Survey (ALS) 2004**

Variable Name	Field Width	Field Type	Data Element Description	Source
CNOTHRYN	1	character	Does your library participate in any other consortia for access to electronic resources? 1 - Yes 2 - No N - No response H - Data suppressed	Survey
XINFLITDEFYN	1	character	Statusflag	Survey
INFLITDEFYN	1	character	Definition of information literacy or of an information literate student 1 - Yes 2 - No N - No response	Survey
XINFLITMISYN	1	character	Statusflag	Survey
INFLITMISYN	1	character	Incorporated information literacy in the institution's mission 1 - Yes 2 - No N - No response	Survey
XINFLITPLNYN	1	character	Statusflag	Survey
INFLITPLNYN	1	character	Incorporated information literacy in the institution's strategic plan 1 - Yes 2 - No N - No response	Survey
XINFLITCOMYN	1	character	Statusflag	Survey
INFLITCOMYN	1	character	Campus-wide committee to implement the strategic plan for information literacy 1 - Yes 2 - No N - No response	Survey

**Appendix C—Survey Instrument
Academic Libraries Survey (ALS) 2004**

The survey instrument includes the questionnaire itself.

ACADEMIC LIBRARIES SURVEY

PART A – NUMBER OF PUBLIC SERVICE OUTLETS, FY 2004

Line No.	Item	Number
01	Branch and independent libraries – Exclude main or central library	_____

PART B – LIBRARY STAFF, FALL 2004 AND SALARIES/WAGES, FY 2004

(Exclude maintenance and custodial staff, volunteers and contributed services staff)

Note: Report FTE data to two decimals.

Line No.	Staff	FALL 2004 Number of full-time equivalents (FTEs) (1)	FY 2004 Salaries and wages (whole dollars only) (2)
02	Librarians	_____	
03	Other professional staff	_____	
04	Total librarians and other professional staff (sum lines 02 and 03, col. 1)	_____	\$ _____
05	All other paid staff (except student assistants)	_____	\$ _____
06	Student assistants from all funding sources	_____	\$ _____
07	Total full-time equivalent (FTE) staff (sum lines 04 through 06, cols. 1 & 2)	_____	\$ _____
08a	Are employee fringe benefits paid from the library budget? If no, select "N" and skip to Part C, line 1 0		_____ (Yes/No)
08b	Employee fringe benefits (if paid from library budget)		\$ _____

ACADEMIC LIBRARIES SURVEY

PART C - LIBRARY EXPENDITURES, FY 2004

Note: See instructions for exclusions and definitions.

Line No.		Amount (whole dollars only)
09	Total salaries and wages (same as line 07, col. 2):	\$ _____
	Information resources:	
10	Books, serial backfiles and other materials (one-time purchases)	\$ _____
11	Electronic \$ _____	
12	Audiovisual \$ _____	
13	Current serial subscriptions (ongoing commitments)	\$ _____
14	Electronic serials \$ _____	
	Other information resources:	
15	Document delivery/interlibrary loan	\$ _____
16	Preservation	\$ _____
17	Other expenditures for information resources	\$ _____
	Operating expenditures:	
18	Computer hardware and software (include maintenance)	\$ _____
19	Bibliographic utilities, networks and consortia	\$ _____
20	All other operating expenditures	\$ _____
21	TOTAL EXPENDITURES (Sum lines 09,10,13,15 through 20)	\$ _____

ACADEMIC LIBRARIES SURVEY

PART D – LIBRARY COLLECTIONS, FY 2004

Is the library collection entirely electronic? Yes/No _____

Line No.	Collections	Added during the Fiscal Year (1)	Held at end of Fiscal Year (2)
22	Books, serial backfiles and other paper materials (include government documents)	_____	_____
23	E-Books	_____	_____
24	Microforms	_____	_____
25	Audiovisual materials	_____	_____
26	Current serial subscriptions	_____	_____
27	Electronic reference sources and aggregation services	_____	_____

ACADEMIC LIBRARIES SURVEY

PART E – LIBRARY SERVICES, FY 2004

Note: See instructions for exclusions and definitions.

Line No.	Services	Number
Interlibrary loans <u>provided</u> to other libraries:		
28a	Returnable	_____
28b	Non-returnable	_____
29	Total provided (sum lines 28a and 28b)	_____
Interlibrary loans <u>received</u> from other libraries:		
30	Returnable	_____
31	Non-returnable	_____
32	Total received (sum lines 30 and 31)	_____
33	Documents delivered from commercial services	_____
34a	General circulation transactions	_____
34b	Reserve circulation transactions	_____
Information services to groups:		
35	Number of presentations	_____
36	Total attendance at all presentations	_____

ACADEMIC LIBRARIES SURVEY

PART F – LIBRARY SERVICES, TYPICAL WEEK, FALL 2004

Note: See instructions for exclusions and definitions.

Line No.	Services	Number in a typical week
37	Number of weekly public service hours	_____
38	Gate count in a typical week	_____
39	Reference transactions in a typical week	_____

ACADEMIC LIBRARIES SURVEY

PART G – ELECTRONIC SERVICES

Please respond to each item by selecting “Y” or “N”. If answering for more than one library, select “Y”, if at least one has the service. If the answer was “yes” at any time during the academic year, respond “yes”

Line No.	Services	Yes/No
	Does your library provide the following?	
40	Documents digitized by the library staff	_____
41	Library reference service by e-mail or the Web	_____
42	Technology to assist patrons with disabilities (e.g., TDD, specially equipped work stations)	_____
43	Electronic theses and dissertations produced by your students	_____
	Consortial services:	
44	Does your state have one or more state subsidized library consortium that provides access to electronic resources? If no, select “N” and skip to line 48.	_____
45	Does your library participate in the consortium? If no, select “N” and skip to line 48.	_____
46	Is the cost of your library’s participation fully funded by the state? If yes, select “Y” and skip to line 48.	_____
47	Is the cost of your library’s participation partially funded by the state?	_____
48	Does your library participate in any other consortia for access to electronic resources?	_____

ACADEMIC LIBRARIES SURVEY

PART H – INFORMATION LITERACY

During the academic year 2003-2004, has the academic institution supported information literacy in any of the following ways? Please respond to each item by selecting “Yes” or “No”

Line

No. Does your institution have the following, or has it done the following?

Yes/No

- | | |
|--------------------------------------------------------------------------------------------|-------|
| 49. A definition of information literacy or of an information literate student | _____ |
| 50. Incorporated information literacy in the institution’s mission | _____ |
| 5 1. Incorporated information literacy in the institution’s strategic plan | _____ |
| 52. An institution-wide committee to implement the strategic plan for information literacy | _____ |

Appendix D—Crosswalks
Academic Libraries Survey (ALS) 2004

This section shows the crosswalks from ALS 2004 to ALS 2002 and ALS 2002 to ALS 2004 in file order and in variable order.

Appendix D - Crosswalks
Academic Libraries Survey (ALS) 2004

ALS crosswalk from 2004 to 2002, by file order

ALS 2004 VARIABLE NAME	ALS 2002 VARIABLE NAME	ALS 2004 VARIABLE LABEL
UNITID	UNITID	Unit Id Number for the Institution
INSTNM	INSTNM	Institution Name
ADDR	ADDR	Institution Address
CITY	CITY	Institution City
STABBR	STABBR	State Abbreviation Code
ZIP	ZIP	Postal Zip code PLUS 4
FIPS	FIPS	FIPS state code
ACT	ACT	Status of the Institution
OBereg	OBereg	OBE Region Code
EIN	EIN	Employer Id Number
DUNS	DUNS	Dunn and Bradstreet Id Number
OPEID	OPEID	Office of Post Sec Education Id Num for Title IV Participant
OPEFLAG	OPEFLAG	OPE Eligibility Indicator
WEBADDR	WEBADDR	Institution's Web Address
SECTOR	SECTOR	Sector of Institution
ICLEVEL	ICLEVEL	Level of Institution
CONTROL	CONTROL	Control of Institution
HLOFFER	HLOFFER	Highest Level of Education Offering
UGOFFER	UGOFFER	Undergraduate Offering
GROFFER	GROFFER	Graduate Offering
FPOFFER	FPOFFER	First Professional Offering
HDEGOFFR	HDEGOFFR	Highest Degree Offered
DEGGRANT	DEGGRANT	Degree Granting Status
PCTMIN1	PCTMIN1	Percent Black non-Hispanic 2004 Fall Enroll
PCTMIN2	PCTMIN2	Percent American Indian 2004 Fall Enroll
PCTMIN3	PCTMIN3	Percent Asian/Pacific Islander 2004 Fall Enroll
PCTMIN4	PCTMIN4	Percent Hispanic 2004 Fall Enroll
HBCU	HBCU	Historically Black College/University
HOSPITAL	HOSPITAL	Institution has Hospital
MEDICAL	MEDICAL	Institution Grants Medical Degree
TRIBAL	TRIBAL	Tribal College
CARNEGIE	CARNEGIE	Carnegie Classification Code
LOCALE	LOCALE	Locale Code - Degree of Urbanization
OPENPUBL	OPENPUBL	Institution Open to the General Public
DATSR	DATSR	Data Source Code - Media Source Used for Returning Data
STATUS	STATUS	Response Status Code
EDITST	EDITST	Release Status Given to NCES
EDITDATE	EDITDATE	Most Recent Edit Date
IMPUTE	IMPUTE	Impute Indicator
IMPDATE	IMPDATE	Most Recent Impute Date
PARTFLAG1	PARTFLAG1	Imp Flag for Line Item 1
PARTBFLAG1	PARTBFLAG1	Imp Flag for Line Items 2-7
PARTBFLAG2	PARTBFLAG2	Imp Flag for Line Items 8a,8b
PARTCFLAG1	PARTCFLAG1	Imp Flag for Line Items 10,13,15-21
PARTCFLAG2	PARTCFLAG2	Imp Flag for Line Items 11,12,14
PARTDFLAG1	PARTDFLAG1	Imp Flag for Line Items 22,24-26
PARTDFLAG2	PARTDFLAG2	Imp Flag for Line Item 23
PARTEFLAG1	PARTEFLAG1	Imp Flag for Line Items 27-33
PARTEFLAG2	PARTEFLAG2	Imp Flag for Line Items 34a,34b
PARTEFLAG3	PARTEFLAG3	Imp Flag for Line Items 35,36
PARTFFLAG1	PARTFFLAG1	Imp Flag for Line Items 37-39
NCESDATE	NCESDATE	Date Imputations Run by ESMPD
FTEUSED	FTEUSED	Full-time Equivalent
FTEFLAG	FTEFLAG	Full-Time Equivalent Estimated or Not
ELGCOLL	ELGCOLL	Institution has an Eligible Collection
ELGSTAFF	ELGSTAFF	Institution has Eligible Staff
ELGSCHED	ELGSCHED	Institution has an Established Schedule
ELGPHYS	ELGPHYS	Institution has physical Library Facility

Appendix D - Crosswalks
Academic Libraries Survey (ALS) 2004

ALS crosswalk from 2004 to 2002, by file order

ALS 2004 VARIABLE NAME	ALS 2002 VARIABLE NAME	ALS 2004 VARIABLE LABEL
FINSUPP	FINSUPP	Provide Financial Support to Another Library
CYPARCH	CYPARCH	Current Year Parent/Child Indicator
UNITIDX	UNITIDX	If Child, Parent Institution Unit Id
LIBSHAR1	LIBSHAR1	Shared Library, 1st Unit Id
LIBNAME1	LIBNAME1	Name of 1st Institution Library is Shared With
LIBSHAR2	LIBSHAR2	Shared Library, 2nd Unit Id
LIBNAME2	LIBNAME2	Name of 2nd Institution Library is Shared With
LIBSHAR3	LIBSHAR3	Shared Library, 3rd Unit Id
LIBNAME3	LIBNAME3	Name of 3rd Institution Library is Shared With
XBRANCHES	XBRANCHES	Status Flag - Branch
BRANCHES	BRANCHES	Number of Branch and Independent Libraries
XSTLIBS	XSTLIBS	Status Flag - Librarians
STLIBS	STLIBS	Staff - Librarians
XSTOTHPRO	XSTOTHPRO	Status Flag - Other Professional Staff
STOTHPRO	STOTHPRO	Staff - Other Professional Staff
XSTLIBPRO	XSTLIBPRO	Status Flag - Librarians and Other Professional Staff
STLIBPRO	STLIBPRO	Staff - Total Librarians and Other Professional Staff
XSTOTH	XSTOTH	Status Flag - Other Paid Staff
STOTH	STOTH	All Other Paid Staff
XSTASST	XSTASST	Status Flag - Student Assistants
STASST	STASST	Student Assistants
XSTTOT	XSTTOT	Status Flag - Total Full-Time Equivalent Staff
STTOT	STTOT	Total Full Time Equivalent Staff
XSWLIBPRO	XSWLIBPRO	Status Flag - Salary Librarian and Other Professional Staff
SWLIBPRO	SWLIBPRO	Salary & Wage - Librarian and Other Professional Staff
XSWOTH	XSWOTH	Status Flag - Other Paid Staff
SWOTH	SWOTH	Salary & Wage - Other Paid Staff
XSWASST	XSWASST	Status Flag - Salary Student Assistant
SWASST	SWASST	Salary & Wage - Student Assistant
XSWTOT	XSWTOT	Status Flag - Total Salary & Wage Full-Time Equivalent
SWTOT	SWTOT	Salary & Wage - Total Full Time Equivalent
XFRINGEYN	XFRINGEYN	Status Flag - Fringe Benefit Paid from Library Budget Y/N
FRINGEYN	FRINGEYN	Are Fringe Benefit paid from Library Budget
XFRINGE	XFRINGE	Status Flag - Fringe Benefit
FRINGE	FRINGE	Fringe Benefit
XEXBKS	XEXBKS	Status Flag - Expenditure Books
EXBKS	EXBKS	Expenditure - Books
XEXELBKS	XEXELBKS	Status Flag - Expenditure Electronic Books
EXELBKS	EXELBKS	Expenditure - Electronic Books
XEXAUD	XEXAUD	Status Flag - Expenditure Audio Visual
EXAUD	EXAUD	Expenditure - Audio visual
XEXCUSER	XEXCUSER	Status Flag - Expenditure Serial Subscription
EXCUSER	EXCUSER	Expenditure - Serial Subscription
XEXELSER	XEXELSER	Status Flag - Expenditure Electronic Serials
EXELSER	EXELSER	Expenditure - Electronic serials
XEXDEL	XEXDEL	Status Flag - Expenditure Document Deliver
EXDEL	EXDEL	Expenditure - Document Deliver
XEXPRES	XEXPRES	Status Flag - Expenditure Preservation
EXPRES	EXPRES	Expenditure - Preservation
XEXOTHIR	XEXOTHIR	Status Flag - Expenditure Other Information Resources
EXOTHIR	EXOTHIR	Expenditure - Other Information Resources
XEXCOMP	XEXCOMP	Status Flag - Expenditure Computer
EXCOMP	EXCOMP	Expenditure - Computer Hardware Software
XEXBIB	XEXBIB	Status Flag - Expenditure Bibliographic
EXBIB	EXBIB	Expenditure - Bibliographic Utilities
XEXOTH	XEXOTH	Status Flag - Expenditure Other
EXOTH	EXOTH	Expenditure - All Other Operating Expenditure
XEXTOT	XEXTOT	Status Flag - Expenditure Total

Appendix D - Crosswalks
Academic Libraries Survey (ALS) 2004

ALS crosswalk from 2004 to 2002, by file order

ALS 2004 VARIABLE NAME	ALS 2002 VARIABLE NAME	ALS 2004 VARIABLE LABEL
EXTOT	EXTOT	Expenditure - Total
XCOLELYN	<i>No Matching Variable</i>	Status Flag - Library Collection is Entirely Electronic
COLELYN	<i>No Matching Variable</i>	Library Collection is Entirely Electronic
XCOLBKSA	XCOLBKSA	Status Flag - Collections Books Added
COLBKSA	COLBKSA	Collections - Books - Added
XCOLEBKSA	XCOLEBKSA	Status Flag - Collections EBooks Added
COLEBKSA	COLEBKSA	Collections - E Books - Added
XCOLMICRA	XCOLMICRA	Status Flag - Collections Microforms Added
COLMICRA	COLMICRA	Collections - Microforms - Added
XCOLAUDA	XCOLAUDA	Status Flag - Collections Audiovisual Added
COLAUDA	COLAUDA	Collections - Audiovisual - Added
XCOLSERA	XCOLSERA	Status Flag - Collections Serial Added
COLSERA	COLSERA	Collections - Serial Subscription - Added
XCOLELREFA	<i>No Matching Variable</i>	Status Flag - Electronic Ref Sources Added
COLELREFA	<i>No Matching Variable</i>	Collections - Electronic Ref Sources - Added
XCOLBKSH	XCOLBKSH	Status Flag - Collections Books Held
COLBKSH	COLBKSH	Collections - Books - Held
XCOLEBKSH	XCOLEBKSH	Status Flag - Collections E Books Held
COLEBKSH	COLEBKSH	Collections - E Books - Held
XCOLMICRH	XCOLMICRH	Status Flag - Collections Microforms Held
COLMICRH	COLMICRH	Collections - Microforms - Held
XCOLAUDH	XCOLAUDH	Status Flag - Collections Audiovisual Held
COLAUDH	COLAUDH	Collections - Audiovisual - Held
XCOLSERH	XCOLSERH	Status Flag - Collections Serial Held
COLSERH	COLSERH	Collections - Serial Subscriptions Held
XCOLELREFH	<i>No Matching Variable</i>	Status Flag - Electronic Ref Sources Held
COLELREFH	<i>No Matching Variable</i>	Collections - Electronic Ref Sources - Held
XILPRET	XILPRET	Status Flag - Inter Library Loans Provided Returnable
ILPRET	ILPRET	Inter Library Loans Provided Returnable
XILPNON	XILPNON	Status Flag - Inter Library Loans Provided Non-returnable
ILPNON	ILPNON	Inter Library Loans Provided Non-returnable
XILPTOT	XILPTOT	Status Flag - Inter Library Loans Provided Total
ILPTOT	ILPTOT	Inter Library Loans Provided Total
XILRRET	XILRRET	Status Flag - Inter Library Loans Received Returnable
ILRRET	ILRRET	Inter Library Loans Received Returnable
XILRNON	XILRNON	Status Flag - Inter Library Loans Received Non-returnable
ILRNON	ILRNON	Inter Library Loans Received Non-returnable
XILRTOT	XILRTOT	Status Flag - Inter Library Loans Received Total
ILRTOT	ILRTOT	Inter Library Loans Received Total
XDOCDEL	XDOCDEL	Status Flag - Documents Delivered from Commercial Services
DOCDEL	DOCDEL	Documents Delivered from Commercial Services
XCRGEN	XCRGEN	Status Flag - General Circulation Transactions
CRGEN	CRGEN	General Circulation Transactions
XCRRSV	XCRRSV	Status Flag - Reserve Circulation Transactions
CRRSV	CRRSV	Reserve Circulation Transactions
XPRESN	XPRESN	Status Flag - Number of Presentations
PRESEN	PRESEN	Number of Presentations
XATTEND	XATTEND	Status Flag - Attendance at Presentations
ATTEND	ATTEND	Total Attendance at Presentations
XHOURS	XHOURS	Status Flag - Hours Open in a Typical Week
HOURS	HOURS	Hours Open in a Typical Week
XGATECT	XGATECT	Status Flag - Gate Count in a Typical Week
GATECT	GATECT	Gate Count in a Typical Week
XREFTRANS	XREFTRANS	Status Flag - Reference Transactions in a Typical Week
REFTRANS	REFTRANS	Reference Transactions in a Typical Week
XDOCDIGYN	XDOCDIGYN	Status Flag - Does Documents Digitized by Library Staff
DOCDIGYN	DOCDIGYN	Does Documents Digitized by Library Staff
XLIBREFYN	XLIBREFYN	Status Flag - Library Provide Reference Service by Email

Appendix D - Crosswalks
Academic Libraries Survey (ALS) 2004

ALS crosswalk from 2004 to 2002, by file order

ALS 2004 VARIABLE NAME	ALS 2002 VARIABLE NAME	ALS 2004 VARIABLE LABEL
LIBREFYN	LIBREFYN	Does Library Provide Reference Service by Email or Web
XTECHYN	XTECHYN	Status Flag - Technology to Assist the Disabled
TECHYN	TECHYN	Technology to Assist the Disabled
XTHESYN	XTHESYN	Status Flag - Electronic Theses Produced by Students
THESYN	THESYN	Electronic Theses Produced by Students
XCNSUBYN	XCNSUBYN	Status Flag - State have Subsidized Library Consortium
CNSUBYN	CNSUBYN	State have Subsidized Library Consortium
XCNPARTYN	XCNPARTYN	Status Flag - Participate in Consortium
CNPARTYN	CNPARTYN	Participate in Consortium
XCNFULLYN	XCNFULLYN	Status Flag - Consortium Cost Fully Funded by State
CNFULLYN	CNFULLYN	Consortium Cost Fully Funded by State
XCNPRTLYN	XCNPRTLYN	Status Flag - Consortium Cost Partially Funded by State
CNPRTLYN	CNPRTLYN	Consortium Cost Partially Funded by State
XCNOTHRYN	XCNOTHRYN	Status Flag - Library Participate in Any Other Consortia
CNOTHRYN	CNOTHRYN	Library Participate in any Other Consortia
XINFLITDEFYN	<i>No Matching Variable</i>	Status Flag - Definition of Information Literacy
INFLITDEFYN	<i>No Matching Variable</i>	Definition of Information Literacy
XINFLITMISYN	<i>No Matching Variable</i>	Status Flag - Information Literacy in the Institution Mission
INFLITMISYN	<i>No Matching Variable</i>	Information Literacy in the Institution Mission
XINFLITPLNYN	<i>No Matching Variable</i>	Status Flag - Information Literacy in the Institution Strategic Plan
INFLITPLNYN	<i>No Matching Variable</i>	Information Literacy in the Institution Strategic Plan
XINFLITCOMYN	<i>No Matching Variable</i>	Status Flag - Committee to Implement Info Literacy Plan
INFLITCOMYN	<i>No Matching Variable</i>	Committee to Implement Info Literacy Plan

Appendix D - Crosswalks
Academic Libraries Survey (ALS) 2004

ALS crosswalk from 2004 to 2002, by variable order

ALS 2004 VARIABLE NAME	ALS 2002 VARIABLE NAME	ALS 2004 VARIABLE LABEL
ACT	ACT	Status of the Institution
ADDR	ADDR	Institution Address
ATTEND	ATTEND	Total Attendance at Presentations
BRANCHES	BRANCHES	Number of Branch and Independent Libraries
CARNEGIE	CARNEGIE	Carnegie Classification Code
CITY	CITY	Institution City
CNFULLYN	CNFULLYN	Consortium Cost Fully Funded by State
CNOTHRYN	CNOTHRYN	Library Participate in any Other Consortia
CNPARTYN	CNPARTYN	Participate in Consortium
CNPRTLYN	CNPRTLYN	Consortium Cost Partially Funded by State
CNSUBYN	CNSUBYN	State have Subsidized Library Consortium
COLAUDA	COLAUDA	Collections - Audiovisual - Added
COLAUDH	COLAUDH	Collections - Audiovisual - Held
COLBKSA	COLBKSA	Collections - Books - Added
COLBKSH	COLBKSH	Collections - Books - Held
COLEBKSA	COLEBKSA	Collections - E Books - Added
COLEBKSH	COLEBKSH	Collections - E Books - Held
COLELREFA	<i>No Matching Variable</i>	Collections - Electronic Ref Sources - Added
COLELREFH	<i>No Matching Variable</i>	Collections - Electronic Ref Sources - Held
COLELYN	<i>No Matching Variable</i>	Library Collection is Entirely Electronic
COLMICRA	COLMICRA	Collections - Microforms - Added
COLMICRH	COLMICRH	Collections - Microforms - Held
COLSERA	COLSERA	Collections - Serial Subscription - Added
COLSERH	COLSERH	Collections - Serial Subscriptions Held
CONTROL	CONTROL	Control of Institution
CRGEN	CRGEN	General Circulation Transactions
CRRSV	CRRSV	Reserve Circulation Transactions
CYPARCH	CYPARCH	Current Year Parent/Child Indicator
DATSRC	DATSRC	Data Source Code - Media Source Used for Returning Data
DEGGRANT	DEGGRANT	Degree Granting Status
DOCDEL	DOCDEL	Documents Delivered from Commercial Services
DOCDIGYN	DOCDIGYN	Does Documents Digitized by Library Staff
DUNS	DUNS	Dunn and Bradstreet Id Number
EDITDATE	EDITDATE	Most Recent Edit Date
EDITST	EDITST	Release Status Given to NCES
EIN	EIN	Employer Id Number
ELGCOLL	ELGCOLL	Institution has an Eligible Collection
ELGPHYS	ELGPHYS	Institution has physical Library Facility
ELGSCHED	ELGSCHED	Institution has an Established Schedule
ELGSTAFF	ELGSTAFF	Institution has Eligible Staff
EXAUD	EXAUD	Expenditure - Audio visual
EXBIB	EXBIB	Expenditure - Bibliographic Utilities
EXBKS	EXBKS	Expenditure - Books
EXCOMP	EXCOMP	Expenditure - Computer Hardware Software
EXCUSER	EXCUSER	Expenditure - Serial Subscription
EXDEL	EXDEL	Expenditure - Document Deliver
EXELBKS	EXELBKS	Expenditure - Electronic Books
EXELSER	EXELSER	Expenditure - Electronic serials
EXOTH	EXOTH	Expenditure - All Other Operating Expenditure
EXOTHIR	EXOTHIR	Expenditure - Other Information Resources
EXPRES	EXPRES	Expenditure - Preservation
EXTOT	EXTOT	Expenditure - Total
FINSUPP	FINSUPP	Provide Financial Support to Another Library
FIPS	FIPS	FIPS state code
FPOFFER	FPOFFER	First Professional Offering
FRINGE	FRINGE	Fringe Benefit
FRINGEYN	FRINGEYN	Are Fringe Benefit paid from Library Budget
FTEFLAG	FTEFLAG	Full-Time Equivalent Estimated or Not

Appendix D - Crosswalks
Academic Libraries Survey (ALS) 2004

ALS crosswalk from 2004 to 2002, by variable order

ALS 2004 VARIABLE NAME	ALS 2002 VARIABLE NAME	ALS 2004 VARIABLE LABEL
FTEUSED	FTEUSED	Full-time Equivalent
GATECT	GATECT	Gate Count in a Typical Week
GROFFER	GROFFER	Graduate Offering
HBCU	HBCU	Historically Black College/University
HDEGOFFR	HDEGOFFR	Highest Degree Offered
HLOFFER	HLOFFER	Highest Level of Education Offering
HOSPITAL	HOSPITAL	Institution has Hospital
HOURS	HOURS	Hours Open in a Typical Week
ICLEVEL	ICLEVEL	Level of Institution
ILPNON	ILPNON	Inter Library Loans Provided Non-returnable
ILPRET	ILPRET	Inter Library Loans Provided Returnable
ILPTOT	ILPTOT	Inter Library Loans Provided Total
ILRNON	ILRNON	Inter Library Loans Received Non-returnable
ILRRET	ILRRET	Inter Library Loans Received Returnable
ILRTOT	ILRTOT	Inter Library Loans Received Total
IMPDATE	IMPDATE	Most Recent Impute Date
IMPUTE	IMPUTE	Impute Indicator
INFLITCOMYN	<i>No Matching Variable</i>	Committee to Implement Info Literacy Plan
INFLITDEFYN	<i>No Matching Variable</i>	Definition of Information Literacy
INFLITMISYN	<i>No Matching Variable</i>	Information Literacy in the Institution Mission
INFLITPLNYN	<i>No Matching Variable</i>	Information Literacy in the Institution Strategic Plan
INSTNM	INSTNM	Institution Name
LIBNAME1	LIBNAME1	Name of 1st Institution Library is Shared With
LIBNAME2	LIBNAME2	Name of 2nd Institution Library is Shared With
LIBNAME3	LIBNAME3	Name of 3rd Institution Library is Shared With
LIBREFYN	LIBREFYN	Does Library Provide Reference Service by Email or Web
LIBSHAR1	LIBSHAR1	Shared Library, 1st Unit Id
LIBSHAR2	LIBSHAR2	Shared Library, 2nd Unit Id
LIBSHAR3	LIBSHAR3	Shared Library, 3rd Unit Id
LOCALE	LOCALE	Locale Code - Degree of Urbanization
MEDICAL	MEDICAL	Institution Grants Medical Degree
NCESDATE	NCESDATE	Date Imputations Run by ESMPD
OBereg	OBereg	OBE Region Code
OPEFLAG	OPEFLAG	OPE Eligibility Indicator
OPEID	OPEID	Office of Post Sec Education Id Num for Title IV Participant
OPENPUBL	OPENPUBL	Institution Open to the General Public
PARTAF1	PARTAF1	Imp Flag for Line Item 1
PARTB1	PARTB1	Imp Flag for Line Items 2-7
PARTB2	PARTB2	Imp Flag for Line Items 8a,8b
PARTC1	PARTC1	Imp Flag for Line Items 10,13,15-21
PARTC2	PARTC2	Imp Flag for Line Items 11,12,14
PARTD1	PARTD1	Imp Flag for Line Items 22,24-26
PARTD2	PARTD2	Imp Flag for Line Item 23
PARTE1	PARTE1	Imp Flag for Line Items 27-33
PARTE2	PARTE2	Imp Flag for Line Items 34a,34b
PARTE3	PARTE3	Imp Flag for Line Items 35,36
PARTF1	PARTF1	Imp Flag for Line Items 37-39
PCTMIN1	PCTMIN1	Percent Black non-Hispanic 2004 Fall Enroll
PCTMIN2	PCTMIN2	Percent American Indian 2004 Fall Enroll
PCTMIN3	PCTMIN3	Percent Asian/Pacific Islander 2004 Fall Enroll
PCTMIN4	PCTMIN4	Percent Hispanic 2004 Fall Enroll
PRESEN	PRESEN	Number of Presentations
REFTRANS	REFTRANS	Reference Transactions in a Typical Week
SECTOR	SECTOR	Sector of Institution
STABBR	STABBR	State Abbreviation Code
STASST	STASST	Student Assistants
STATUS	STATUS	Response Status Code
STLIBPRO	STLIBPRO	Staff - Total Librarians and Other Professional Staff

Appendix D - Crosswalks
Academic Libraries Survey (ALS) 2004

ALS crosswalk from 2004 to 2002, by variable order

ALS 2004 VARIABLE NAME	ALS 2002 VARIABLE NAME	ALS 2004 VARIABLE LABEL
STLIBS	STLIBS	Staff - Librarians
STOTH	STOTH	All Other Paid Staff
STOTHPRO	STOTHPRO	Staff - Other Professional Staff
STTOT	STTOT	Total Full Time Equivalent Staff
SWASST	SWASST	Salary & Wage - Student Assistant
SWLIBPRO	SWLIBPRO	Salary & Wage - Librarian and Other Professional Staff
SWOTH	SWOTH	Salary & Wage - Other Paid Staff
SWTOT	SWTOT	Salary & Wage - Total Full Time Equivalent
TECHYN	TECHYN	Technology to Assist the Disabled
THESYN	THESYN	Electronic Theses Produced by Students
TRIBAL	TRIBAL	Tribal College
UGOFFER	UGOFFER	Undergraduate Offering
UNITID	UNITID	Unit Id Number for the Institution
UNITIDX	UNITIDX	If Child, Parent Institution Unit Id
WEBADDR	WEBADDR	Institution's Web Address
XATTEND	XATTEND	Status Flag - Attendance at Presentations
XBRANCHES	XBRANCHES	Status Flag - Branch
XCNFULLYN	XCNFULLYN	Status Flag - Consortium Cost Fully Funded by State
XCNOTHRYN	XCNOTHRYN	Status Flag - Library Participate in Any Other Consortia
XCNPARTYN	XCNPARTYN	Status Flag - Participate in Consortium
XCNPRTLYN	XCNPRTLYN	Status Flag - Consortium Cost Partially Funded by State
XCNSUBYN	XCNSUBYN	Status Flag - State have Subsidized Library Consortium
XCOLAUDA	XCOLAUDA	Status Flag - Collections Audiovisual Added
XCOLAUDH	XCOLAUDH	Status Flag - Collections Audiovisual Held
XCOLBKSA	XCOLBKSA	Status Flag - Collections Books Added
XCOLBKSH	XCOLBKSH	Status Flag - Collections Books Held
XCOLEBKSA	XCOLEBKSA	Status Flag - Collections EBooks Added
XCOLEBKSH	XCOLEBKSH	Status Flag - Collections E Books Held
XCOLELREFA	<i>No Matching Variable</i>	Status Flag - Electronic Ref Sources Added
XCOLELREFH	<i>No Matching Variable</i>	Status Flag - Electronic Ref Sources Held
XCOLELYN	<i>No Matching Variable</i>	Status Flag - Library Collection is Entirely Electronic
XCOLMICRA	XCOLMICRA	Status Flag - Collections Microforms Added
XCOLMICRH	XCOLMICRH	Status Flag - Collections Microforms Held
XCOLSERA	XCOLSERA	Status Flag - Collections Serial Added
XCOLSERH	XCOLSERH	Status Flag - Collections Serial Held
XCRGEN	XCRGEN	Status Flag - Genneral Circulation Transactions
XCRRSV	XCRRSV	Status Flag - Reserve Circulation Transactions
XDOCDEL	XDOCDEL	Status Flag - Documents Delivered from Commercial Services
XDOCDIGYN	XDOCDIGYN	Status Flag - Does Documents Digitized by Library Staff
XEXAUD	XEXAUD	Status Flag - Expenditure Audio Visual
XEXBIB	XEXBIB	Status Flag - Expenditure Bibliographic
XEXBKS	XEXBKS	Status Flag - Expenditure Books
XEXCOMP	XEXCOMP	Status Flag - Expenditure Computer
XEXCUSER	XEXCUSER	Status Flag - Expenditure Serial Subscription
XEXDEL	XEXDEL	Status Flag - Expenditure Document Deliver
XEXELBKS	XEXELBKS	Status Flag - Expenditure Electronic Books
XEXELSER	XEXELSER	Status Flag - Expenditure Electronic Serials
XEXOTH	XEXOTH	Status Flag - Expenditure Other
XEXOTHIR	XEXOTHIR	Status Flag - Expenditure Other Information Resources
XEXPRES	XEXPRES	Status Flag - Expenditure Preservation
XEXTOT	XEXTOT	Status Flag - Expenditure Total
XFRINGE	XFRINGE	Status Flag - Fringe Benefit
XFRINGEYN	XFRINGEYN	Status Flag - Fringe Benefit Paid from Library Budget Y/N
XGATECT	XGATECT	Status Flag - Gate Count in a Typical Week
XHOURS	XHOURS	Status Flag - Hours Open in a Typical Week
XILPNON	XILPNON	Status Flag - Inter Library Loans Provided Non-returnable
XILPRET	XILPRET	Status Flag - Inter Library Loans Provided Returnable
XILPTOT	XILPTOT	Status Flag - Inter Library Loans Provided Total

Appendix D - Crosswalks
Academic Libraries Survey (ALS) 2004

ALS crosswalk from 2004 to 2002, by variable order

ALS 2004 VARIABLE NAME	ALS 2002 VARIABLE NAME	ALS 2004 VARIABLE LABEL
XILRNON	XILRNON	Status Flag - Inter Library Loans Received Non-returnable
XILRRET	XILRRET	Status Flag - Inter Library Loans Received Returnable
XILRTOT	XILRTOT	Status Flag - Inter Library Loans Received Total
XINFLITCOMYN	<i>No Matching Variable</i>	Status Flag - Committee to Implement Info Literacy Plan
XINFLITDEFYN	<i>No Matching Variable</i>	Status Flag - Definition of Information Literacy
XINFLITMISYN	<i>No Matching Variable</i>	Status Flag - Information Literacy in the Institution Mission
XINFLITPLNYN	<i>No Matching Variable</i>	Status Flag - Information Literacy in the Institution Strategic Plan
XLIBREFYN	XLIBREFYN	Status Flag - Library Provide Reference Service by Email
XPRESN	XPRESN	Status Flag - Number of Presentations
XREFTRANS	XREFTRANS	Status Flag - Reference Transactions in a Typical Week
XSTASST	XSTASST	Status Flag - Student Assistants
XSTLIBPRO	XSTLIBPRO	Status Flag - Librarians and Other Professional Staff
XSTLIBS	XSTLIBS	Status Flag - Librarians
XSTOTH	XSTOTH	Status Flag - Other Paid Staff
XSTOTHPRO	XSTOTHPRO	Status Flag - Other Professional Staff
XSTTOT	XSTTOT	Status Flag - Total Full-Time Equivalent Staff
XSWASST	XSWASST	Status Flag - Salary Student Assistant
XSWLIBPRO	XSWLIBPRO	Status Flag - Salary Librarian and Other Professional Staff
XSWOTH	XSWOTH	Status Flag - Other Paid Staff
XSWTOT	XSWTOT	Status Flag - Total Salary & Wage Full-Time Equivalent
XTECHYN	XTECHYN	Status Flag - Technology to Assist the Disabled
XTHESYN	XTHESYN	Status Flag - Electronic Theses Produced by Students
ZIP	ZIP	Postal Zip code PLUS 4

Appendix D - Crosswalks
Academic Libraries Survey (ALS) 2004

ALS crosswalk from 2002 to 2004, by file order

ALS 2002 VARIABLE NAME	ALS 2004 VARIABLE NAME	ALS 2002 VARIABLE LABEL
UNITID	UNITID	Unit Id Number for the Institution
INSTNM	INSTNM	Institution Name
ADDR	ADDR	Institution Address
CITY	CITY	Institution City
STABBR	STABBR	State Abbreviation Code
ZIP	ZIP	Postal Zip code PLUS 4
FIPS	FIPS	FIPS state code
ACT	ACT	Status of the Institution
OBEREG	OBEREG	OBE Region Code
EIN	EIN	Employer Id Number
DUNS	DUNS	Dunn and Bradstreet Id Number
OPEID	OPEID	Office of Post Sec Education Id Num for Title IV Participant
OPEFLAG	OPEFLAG	OPE Eligibility Indicator
WEBADDR	WEBADDR	Institution's Web Address
SECTOR	SECTOR	Sector of Institution
ICLEVEL	ICLEVEL	Level of Institution
CONTROL	CONTROL	Control of Institution
HLOFFER	HLOFFER	Highest Level of Education Offering
UGOFFER	UGOFFER	Undergraduate Offering
GROFFER	GROFFER	Graduate Offering
FPOFFER	FPOFFER	First Professional Offering
HDEGOFFR	HDEGOFFR	Highest Degree Offered
DEGRANT	DEGRANT	Degree Granting Status
PCTMIN1	PCTMIN1	Percent Black non-Hispanic 2001 Fall Enroll
PCTMIN2	PCTMIN2	Percent American Indian 2001 Fall Enroll
PCTMIN3	PCTMIN3	Percent Asian/Pacific Islander 2001 Fall Enroll
PCTMIN4	PCTMIN4	Percent Hispanic 2001 Fall Enroll
HBCU	HBCU	Historically Black College/University
HOSPITAL	HOSPITAL	Institution has Hospital
MEDICAL	MEDICAL	Institution Grants Medical Degree
TRIBAL	TRIBAL	Tribal College
CARNEGIE	CARNEGIE	Carnegie Classification Code
LOCALE	LOCALE	Locale Code - Degree of Urbanization
OPENPUBL	OPENPUBL	Institution Open to the General Public
DATSRG	DATSRG	Data Source Code - Media Source Used for Returning Data
STATUS	STATUS	Response Status Code
EDITST	EDITST	Release Status Given to NCES
EDITDATE	EDITDATE	Most Recent Edit Date
IMPUTE	IMPUTE	Impute Indicator
IMPDATE	IMPDATE	Most Recent Impute Date
PARTAF1	PARTAF1	Imp Flag for Line Item 1
PARTBF1	PARTBF1	Imp Flag for Line Items 2-7
PARTBF2	PARTBF2	Imp Flag for Line Items 8a,8b
PARTCF1	PARTCF1	Imp Flag for Line Items 10,13,15-21
PARTCF2	PARTCF2	Imp Flag for Line Items 11,12,14
PARTDF1	PARTDF1	Imp Flag for Line Items 22,24-26
PARTDF2	PARTDF2	Imp Flag for Line Item 23
PARTEF1	PARTEF1	Imp Flag for Line Items 27-33
PARTEF2	PARTEF2	Imp Flag for Line Items 34a,34b
PARTEF3	PARTEF3	Imp Flag for Line Items 35,36
PARTFF1	PARTFF1	Imp Flag for Line Items 37-39
NCESDATE	NCESDATE	Date Imputations Run by ESMPD
FTEUSED	FTEUSED	Full-time Equivalent
FTEFLAG	FTEFLAG	Full-Time Equivalent Estimated or Not
ELGCOLL	ELGCOLL	Institution has an Eligible Collection
ELGSTAFF	ELGSTAFF	Institution has Eligible Staff
ELGSCHED	ELGSCHED	Institution has an Established Schedule
ELGPHYS	ELGPHYS	Institution has physical Library Facility

Appendix D - Crosswalks
Academic Libraries Survey (ALS) 2004

ALS crosswalk from 2002 to 2004, by file order

ALS 2002 VARIABLE NAME	ALS 2004 VARIABLE NAME	ALS 2002 VARIABLE LABEL
FINSUPP	FINSUPP	Provide Financial Support to Another Library
CYPARCH	CYPARCH	Current Year Parent/Child Indicator
UNITIDX	UNITIDX	If Child, Parent Institution Unit Id
LIBSHAR1	LIBSHAR1	Shared Library, 1st Unit Id
LIBNAME1	LIBNAME1	Name of 1st Institution Library is Shared With
LIBSHAR2	LIBSHAR2	Shared Library, 2nd Unit Id
LIBNAME2	LIBNAME2	Name of 2nd Institution Library is Shared With
LIBSHAR3	LIBSHAR3	Shared Library, 3rd Unit Id
LIBNAME3	LIBNAME3	Name of 3rd Institution Library is Shared With
XBRANCHES	XBRANCHES	Status Flag - Branch
BRANCHES	BRANCHES	Number of Branch and Independent Libraries
XSTLIBS	XSTLIBS	Status Flag - Librarians
STLIBS	STLIBS	Staff - Librarians
XSTOTHPRO	XSTOTHPRO	Status Flag - Other Professional Staff
STOTHPRO	STOTHPRO	Staff - Other Professional Staff
XSTLIBPRO	XSTLIBPRO	Status Flag - Librarians and Other Professional Staff
STLIBPRO	STLIBPRO	Staff - Total Librarians and Other Professional Staff
XSTOTH	XSTOTH	Status Flag - Other Paid Staff
STOTH	STOTH	All Other Paid Staff
XSTASST	XSTASST	Status Flag - Student Assistants
STASST	STASST	Student Assistants
XSTTOT	XSTTOT	Status Flag - Total Full-Time Equivalent Staff
STTOT	STTOT	Total Full Time Equivalent Staff
XSWLIBPRO	XSWLIBPRO	Status Flag - Salary Librarian and Other Professional Staff
SWLIBPRO	SWLIBPRO	Salary & Wage - Librarian and Other Professional Staff
XSWOTH	XSWOTH	Status Flag - Other Paid Staff
SWOTH	SWOTH	Salary & Wage - Other Paid Staff
XSWASST	XSWASST	Status Flag - Salary Student Assistant
SWASST	SWASST	Salary & Wage - Student Assistant
XSWTOT	XSWTOT	Status Flag - Total Salary & Wage Full-Time Equivalent
SWTOT	SWTOT	Salary & Wage - Total Full Time Equivalent
XFRINGEYN	XFRINGEYN	Status Flag - Fringe Benefit Paid from Library Budget Y/N
FRINGEYN	FRINGEYN	Are Fringe Benefit paid from Library Budget
XFRINGE	XFRINGE	Status Flag - Fringe Benefit
FRINGE	FRINGE	Fringe Benefit
XEXBKS	XEXBKS	Status Flag - Expenditure Books
EXBKS	EXBKS	Expenditure - Books
XEXELBKS	XEXELBKS	Status Flag - Expenditure Electronic Books
EXELBKS	EXELBKS	Expenditure - Electronic Books
XEXAUD	XEXAUD	Status Flag - Expenditure Audio Visual
EXAUD	EXAUD	Expenditure - Audio visual
XEXCUSER	XEXCUSER	Status Flag - Expenditure Serial Subscription
EXCUSER	EXCUSER	Expenditure - Serial Subscription
XEXELSER	XEXELSER	Status Flag - Expenditure Electronic Serials
EXELSER	EXELSER	Expenditure - Electronic serials
XEXDEL	XEXDEL	Status Flag - Expenditure Document Deliver
EXDEL	EXDEL	Expenditure - Document Deliver
XEXPRES	XEXPRES	Status Flag - Expenditure Preservation
EXPRES	EXPRES	Expenditure - Preservation
XEXOTHIR	XEXOTHIR	Status Flag - Expenditure Other Information Resources
EXOTHIR	EXOTHIR	Expenditure - Other Information Resources
XEXCOMP	XEXCOMP	Status Flag - Expenditure Computer
EXCOMP	EXCOMP	Expenditure - Computer Hardware Software
XEXBIB	XEXBIB	Status Flag - Expenditure Bibliographic
EXBIB	EXBIB	Expenditure - Bibliographic Utilities
XEXOTH	XEXOTH	Status Flag - Expenditure Other
EXOTH	EXOTH	Expenditure - All Other Operating Expenditure
XEXTOT	XEXTOT	Status Flag - Expenditure Total

Appendix D - Crosswalks
Academic Libraries Survey (ALS) 2004

ALS crosswalk from 2002 to 2004, by file order

ALS 2002 VARIABLE NAME	ALS 2004 VARIABLE NAME	ALS 2002 VARIABLE LABEL
EXTOT	EXTOT	Expenditure - Total
XCOLBKSA	XCOLBKSA	Status Flag - Collections Books Added
COLBKSA	COLBKSA	Collections - Books - Added
XCOLEBKSA	XCOLEBKSA	Status Flag - Collections EBooks Added
COLEBKSA	COLEBKSA	Collections - E Books - Added
XCOLMICRA	XCOLMICRA	Status Flag - Collections Microforms Added
COLMICRA	COLMICRA	Collections - Microforms - Added
XCOLAUDA	XCOLAUDA	Status Flag - Collections Audiovisual Added
COLAUDA	COLAUDA	Collections - Audiovisual - Added
XCOLSERA	XCOLSERA	Status Flag - Collections Serial Added
COLSERA	COLSERA	Collections - Serial Subscription - Added
XCOLBKSH	XCOLBKSH	Status Flag - Collections Books Held
COLBKSH	COLBKSH	Collections - Books - Held
XCOLEBKSH	XCOLEBKSH	Status Flag - Collections E Books Held
COLEBKSH	COLEBKSH	Collections - E Books - Held
XCOLMICRH	XCOLMICRH	Status Flag - Collections Microforms Held
COLMICRH	COLMICRH	Collections - Microforms - Held
XCOLAUDH	XCOLAUDH	Status Flag - Collections Audiovisual Held
COLAUDH	COLAUDH	Collections - Audiovisual - Held
XCOLSERH	XCOLSERH	Status Flag - Collections Serial Held
COLSERH	COLSERH	Collections - Serial Subscriptions Held
XILPRET	XILPRET	Status Flag - Inter Library Loans Provided Returnable
ILPRET	ILPRET	Inter Library Loans Provided Returnable
XILPNON	XILPNON	Status Flag - Inter Library Loans Provided Non-returnable
ILPNON	ILPNON	Inter Library Loans Provided Non-returnable
XILPTOT	XILPTOT	Status Flag - Inter Library Loans Provided Total
ILPTOT	ILPTOT	Inter Library Loans Provided Total
XILRRET	XILRRET	Status Flag - Inter Library Loans Received Returnable
ILRRET	ILRRET	Inter Library Loans Received Returnable
XILRNON	XILRNON	Status Flag - Inter Library Loans Received Non-returnable
ILRNON	ILRNON	Inter Library Loans Received Non-returnable
XILRTOT	XILRTOT	Status Flag - Inter Library Loans Received Total
ILRTOT	ILRTOT	Inter Library Loans Received Total
XDOCDEL	XDOCDEL	Status Flag - Documents Delivered from Commercial Services
DOCDEL	DOCDEL	Documents Delivered from Commercial Services
XCRGEN	XCRGEN	Status Flag - General Circulation Transactions
CRGEN	CRGEN	General Circulation Transactions
XCRRSV	XCRRSV	Status Flag - Reserve Circulation Transactions
CRRSV	CRRSV	Reserve Circulation Transactions
XPRESEN	XPRESEN	Status Flag - Number of Presentations
PRESEN	PRESEN	Number of Presentations
XATTEND	XATTEND	Status Flag - Attendance at Presentations
ATTEND	ATTEND	Total Attendance at Presentations
XHOURS	XHOURS	Status Flag - Hours Open in a Typical Week
HOURS	HOURS	Hours Open in a Typical Week
XGATECT	XGATECT	Status Flag - Gate Count in a Typical Week
GATECT	GATECT	Gate Count in a Typical Week
XREFTRANS	XREFTRANS	Status Flag - Reference Transactions in a Typical Week
REFTRANS	REFTRANS	Reference Transactions in a Typical Week
XDOCDIGYN	XDOCDIGYN	Status Flag - Does Documents Digitized by Library Staff
DOCDIGYN	DOCDIGYN	Does Documents Digitized by Library Staff
XLIBREFYN	XLIBREFYN	Status Flag - Library Provide Reference Service by Email
LIBREFYN	LIBREFYN	Does Library Provide Reference Service by Email or Web
XTECHYN	XTECHYN	Status Flag - Technology to Assist the Disabled
TECHYN	TECHYN	Technology to Assist the Disabled
XTHESYN	XTHESYN	Status Flag - Electronic Theses Produced by Students
THESYN	THESYN	Electronic Theses Produced by Students
XCNSUBYN	XCNSUBYN	Status Flag - State have Subsidized Library Consortium

Appendix D - Crosswalks
Academic Libraries Survey (ALS) 2004

ALS crosswalk from 2002 to 2004, by file order

ALS 2002 VARIABLE NAME	ALS 2004 VARIABLE NAME	ALS 2002 VARIABLE LABEL
CNSUBYN	CNSUBYN	State have Subsidized Library Consortium
XCNPARTYN	XCNPARTYN	Status Flag - Participate in Consortium
CNPARTYN	CNPARTYN	Participate in Consortium
XCNFULLYN	XCNFULLYN	Status Flag - Consortium Cost Fully Funded by State
CNFULLYN	CNFULLYN	Consortium Cost Fully Funded by State
XCNPRTLYN	XCNPRTLYN	Status Flag - Consortium Cost Partially Funded by State
CNPRTLYN	CNPRTLYN	Consortium Cost Partially Funded by State
XCNOTHRYN	XCNOTHRYN	Status Flag - Library Participate in Any Other Consortia
CNOTHRYN	CNOTHRYN	Library Participate in any Other Consortia

Appendix D - Crosswalks
Academic Libraries Survey (ALS) 2004

ALS crosswalk from 2002 to 2004, by variable order

ALS 2002 VARIABLE NAME	ALS 2004 VARIABLE NAME	ALS 2002 VARIABLE LABEL
ACT	ACT	Status of the Institution
ADDR	ADDR	Institution Address
ATTEND	ATTEND	Total Attendance at Presentations
BRANCHES	BRANCHES	Number of Branch and Independent Libraries
CARNEGIE	CARNEGIE	Carnegie Classification Code
CITY	CITY	Institution City
CNFULLYN	CNFULLYN	Consortium Cost Fully Funded by State
CNOTHRYN	CNOTHRYN	Library Participate in any Other Consortia
CNPARTYN	CNPARTYN	Participate in Consortium
CNPRTLYN	CNPRTLYN	Consortium Cost Partially Funded by State
CNSUBYN	CNSUBYN	State have Subsidized Library Consortium
COLAUDA	COLAUDA	Collections - Audiovisual - Added
COLAUDH	COLAUDH	Collections - Audiovisual - Held
COLBKSA	COLBKSA	Collections - Books - Added
COLBKSH	COLBKSH	Collections - Books - Held
COLEBKSA	COLEBKSA	Collections - E Books - Added
COLEBKSH	COLEBKSH	Collections - E Books - Held
COLMICRA	COLMICRA	Collections - Microforms - Added
COLMICRH	COLMICRH	Collections - Microforms - Held
COLSERA	COLSERA	Collections - Serial Subscription - Added
COLSERH	COLSERH	Collections - Serial Subscriptions Held
CONTROL	CONTROL	Control of Institution
CRGEN	CRGEN	General Circulation Transactions
CRRSV	CRRSV	Reserve Circulation Transactions
CYPARCH	CYPARCH	Current Year Parent/Child Indicator
DATSRC	DATSRC	Data Source Code - Media Source Used for Returning Data
DEGGRANT	DEGGRANT	Degree Granting Status
DOCDEL	DOCDEL	Documents Delivered from Commercial Services
DOCDIGYN	DOCDIGYN	Does Documents Digitized by Library Staff
DUNS	DUNS	Dunn and Bradstreet Id Number
EDITDATE	EDITDATE	Most Recent Edit Date
EDITST	EDITST	Release Status Given to NCES
EIN	EIN	Employer Id Number
ELGCOLL	ELGCOLL	Institution has an Eligible Collection
ELGPHYS	ELGPHYS	Institution has physical Library Facility
ELGSCHED	ELGSCHED	Institution has an Established Schedule
ELGSTAFF	ELGSTAFF	Institution has Eligible Staff
EXAUD	EXAUD	Expenditure - Audio visual
EXBIB	EXBIB	Expenditure - Bibliographic Utilities
EXBKS	EXBKS	Expenditure - Books
EXCOMP	EXCOMP	Expenditure - Computer Hardware Software
EXCUSER	EXCUSER	Expenditure - Serial Subscription
EXDEL	EXDEL	Expenditure - Document Deliver
EXELBKS	EXELBKS	Expenditure - Electronic Books
EXELSER	EXELSER	Expenditure - Electronic serials
EXOTH	EXOTH	Expenditure - All Other Operating Expenditure
EXOTHIR	EXOTHIR	Expenditure - Other Information Resources
EXPRES	EXPRES	Expenditure - Preservation
EXTOT	EXTOT	Expenditure - Total
FINSUPP	FINSUPP	Provide Financial Support to Another Library
FIPS	FIPS	FIPS state code
FPOFFER	FPOFFER	First Professional Offering
FRINGE	FRINGE	Fringe Benefit
FRINGEYN	FRINGEYN	Are Fringe Benefit paid from Library Budget
FTEFLAG	FTEFLAG	Full-Time Equivalent Estimated or Not
FTEUSED	FTEUSED	Full-time Equivalent
GATECT	GATECT	Gate Count in a Typical Week
GROFFER	GROFFER	Graduate Offering

Appendix D - Crosswalks
Academic Libraries Survey (ALS) 2004

ALS crosswalk from 2002 to 2004, by variable order

ALS 2002 VARIABLE NAME	ALS 2004 VARIABLE NAME	ALS 2002 VARIABLE LABEL
HBCU	HBCU	Historically Black College/University
HDEGOFFR	HDEGOFFR	Highest Degree Offered
HLOFFER	HLOFFER	Highest Level of Education Offering
HOSPITAL	HOSPITAL	Institution has Hospital
HOURS	HOURS	Hours Open in a Typical Week
ICLEVEL	ICLEVEL	Level of Institution
ILPNON	ILPNON	Inter Library Loans Provided Non-returnable
ILPRET	ILPRET	Inter Library Loans Provided Returnable
ILPTOT	ILPTOT	Inter Library Loans Provided Total
ILRNON	ILRNON	Inter Library Loans Received Non-returnable
ILRRET	ILRRET	Inter Library Loans Received Returnable
ILRTOT	ILRTOT	Inter Library Loans Received Total
IMPDATE	IMPDATE	Most Recent Impute Date
IMPUTE	IMPUTE	Impute Indicator
INSTNM	INSTNM	Institution Name
LIBNAME1	LIBNAME1	Name of 1st Institution Library is Shared With
LIBNAME2	LIBNAME2	Name of 2nd Institution Library is Shared With
LIBNAME3	LIBNAME3	Name of 3rd Institution Library is Shared With
LIBREFYN	LIBREFYN	Does Library Provide Reference Service by Email or Web
LIBSHAR1	LIBSHAR1	Shared Library, 1st Unit Id
LIBSHAR2	LIBSHAR2	Shared Library, 2nd Unit Id
LIBSHAR3	LIBSHAR3	Shared Library, 3rd Unit Id
LOCALE	LOCALE	Locale Code - Degree of Urbanization
MEDICAL	MEDICAL	Institution Grants Medical Degree
NCESDATE	NCESDATE	Date Imputations Run by ESMPD
OBereg	OBereg	OBE Region Code
OPEFLAG	OPEFLAG	OPE Eligibility Indicator
OPEID	OPEID	Office of Post Sec Education Id Num for Title IV Participant
OPENPUBL	OPENPUBL	Institution Open to the General Public
PARTAF1	PARTAF1	Imp Flag for Line Item 1
PARTB1	PARTB1	Imp Flag for Line Items 2-7
PARTB2	PARTB2	Imp Flag for Line Items 8a,8b
PARTC1	PARTC1	Imp Flag for Line Items 10,13,15-21
PARTC2	PARTC2	Imp Flag for Line Items 11,12,14
PARTD1	PARTD1	Imp Flag for Line Items 22,24-26
PARTD2	PARTD2	Imp Flag for Line Item 23
PARTE1	PARTE1	Imp Flag for Line Items 27-33
PARTE2	PARTE2	Imp Flag for Line Items 34a,34b
PARTE3	PARTE3	Imp Flag for Line Items 35,36
PARTF1	PARTF1	Imp Flag for Line Items 37-39
PCTMIN1	PCTMIN1	Percent Black non-Hispanic 2001 Fall Enroll
PCTMIN2	PCTMIN2	Percent American Indian 2001 Fall Enroll
PCTMIN3	PCTMIN3	Percent Asian/Pacific Islander 2001 Fall Enroll
PCTMIN4	PCTMIN4	Percent Hispanic 2001 Fall Enroll
PRESEN	PRESEN	Number of Presentations
REFTRANS	REFTRANS	Reference Transactions in a Typical Week
SECTOR	SECTOR	Sector of Institution
STABBR	STABBR	State Abbreviation Code
STASST	STASST	Student Assistants
STATUS	STATUS	Response Status Code
STLIBPRO	STLIBPRO	Staff - Total Librarians and Other Professional Staff
STLIBS	STLIBS	Staff - Librarians
STOTH	STOTH	All Other Paid Staff
STOTHPRO	STOTHPRO	Staff - Other Professional Staff
STTOT	STTOT	Total Full Time Equivalent Staff
SWASST	SWASST	Salary & Wage - Student Assistant
SWLIBPRO	SWLIBPRO	Salary & Wage - Librarian and Other Professional Staff
SWOTH	SWOTH	Salary & Wage - Other Paid Staff

Appendix D - Crosswalks
Academic Libraries Survey (ALS) 2004

ALS crosswalk from 2002 to 2004, by variable order

ALS 2002 VARIABLE NAME	ALS 2004 VARIABLE NAME	ALS 2002 VARIABLE LABEL
SWTOT	SWTOT	Salary & Wage - Total Full Time Equivalent
TECHYN	TECHYN	Technology to Assist the Disabled
THESYN	THESYN	Electronic Theses Produced by Students
TRIBAL	TRIBAL	Tribal College
UGOFFER	UGOFFER	Undergraduate Offering
UNITID	UNITID	Unit Id Number for the Institution
UNITIDX	UNITIDX	If Child, Parent Institution Unit Id
WEBADDR	WEBADDR	Institution's Web Address
XATTEND	XATTEND	Status Flag - Attendance at Presentations
XBRANCHES	XBRANCHES	Status Flag - Branch
XCNFULLYN	XCNFULLYN	Status Flag - Consortium Cost Fully Funded by State
XCNOTHRYN	XCNOTHRYN	Status Flag - Library Participate in Any Other Consortia
XCNPARTYN	XCNPARTYN	Status Flag - Participate in Consortium
XCNPRTLYN	XCNPRTLYN	Status Flag - Consortium Cost Partially Funded by State
XCNSUBYN	XCNSUBYN	Status Flag - State have Subsidized Library Consortium
XCOLAUDA	XCOLAUDA	Status Flag - Collections Audiovisual Added
XCOLAUDH	XCOLAUDH	Status Flag - Collections Audiovisual Held
XCOLBKSA	XCOLBKSA	Status Flag - Collections Books Added
XCOLBKSH	XCOLBKSH	Status Flag - Collections Books Held
XCOLEBKSA	XCOLEBKSA	Status Flag - Collections EBooks Added
XCOLEBKSH	XCOLEBKSH	Status Flag - Collections E Books Held
XCOLMICRA	XCOLMICRA	Status Flag - Collections Microforms Added
XCOLMICRH	XCOLMICRH	Status Flag - Collections Microforms Held
XCOLSERA	XCOLSERA	Status Flag - Collections Serial Added
XCOLSERH	XCOLSERH	Status Flag - Collections Serial Held
XCRGEN	XCRGEN	Status Flag - General Circulation Transactions
XCRRSV	XCRRSV	Status Flag - Reserve Circulation Transactions
XDOCDEL	XDOCDEL	Status Flag - Documents Delivered from Commercial Services
XDOCDIGYN	XDOCDIGYN	Status Flag - Does Documents Digitized by Library Staff
XEXAUD	XEXAUD	Status Flag - Expenditure Audio Visual
XEXBIB	XEXBIB	Status Flag - Expenditure Bibliographic
XEXBKS	XEXBKS	Status Flag - Expenditure Books
XEXCOMP	XEXCOMP	Status Flag - Expenditure Computer
XEXCUSER	XEXCUSER	Status Flag - Expenditure Serial Subscription
XEXDEL	XEXDEL	Status Flag - Expenditure Document Deliver
XEXELBKS	XEXELBKS	Status Flag - Expenditure Electronic Books
XEXELSER	XEXELSER	Status Flag - Expenditure Electronic Serials
XEXOTH	XEXOTH	Status Flag - Expenditure Other
XEXOTHIR	XEXOTHIR	Status Flag - Expenditure Other Information Resources
XEXPRES	XEXPRES	Status Flag - Expenditure Preservation
XEXTOT	XEXTOT	Status Flag - Expenditure Total
XFRINGE	XFRINGE	Status Flag - Fringe Benefit
XFRINGEYN	XFRINGEYN	Status Flag - Fringe Benefit Paid from Library Budget Y/N
XGATECT	XGATECT	Status Flag - Gate Count in a Typical Week
XHOURS	XHOURS	Status Flag - Hours Open in a Typical Week
XILPNON	XILPNON	Status Flag - Inter Library Loans Provided Non-returnable
XILPRET	XILPRET	Status Flag - Inter Library Loans Provided Returnable
XILPTOT	XILPTOT	Status Flag - Inter Library Loans Provided Total
XILRNON	XILRNON	Status Flag - Inter Library Loans Received Non-returnable
XILRRET	XILRRET	Status Flag - Inter Library Loans Received Returnable
XILRTOT	XILRTOT	Status Flag - Inter Library Loans Received Total
XLIBREFYN	XLIBREFYN	Status Flag - Library Provide Reference Service by Email
XPRESEN	XPRESEN	Status Flag - Number of Presentations
XREFTRANS	XREFTRANS	Status Flag - Reference Transactions in a Typical Week
XSTASST	XSTASST	Status Flag - Student Assistants
XSTLIBPRO	XSTLIBPRO	Status Flag - Librarians and Other Professional Staff
XSTLIBS	XSTLIBS	Status Flag - Librarians
XSTOTH	XSTOTH	Status Flag - Other Paid Staff

Appendix D - Crosswalks
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ALS crosswalk from 2002 to 2004, by variable order

ALS 2002 VARIABLE NAME	ALS 2004 VARIABLE NAME	ALS 2002 VARIABLE LABEL
XSTOTHPRO	XSTOTHPRO	Status Flag - Other Professional Staff
XSTTOT	XSTTOT	Status Flag - Total Full-Time Equivalent Staff
XSWASST	XSWASST	Status Flag - Salary Student Assistant
XSWLIBPRO	XSWLIBPRO	Status Flag - Salary Librarian and Other Professional Staff
XSWOTH	XSWOTH	Status Flag - Other Paid Staff
XSWTOT	XSWTOT	Status Flag - Total Salary & Wage Full-Time Equivalent
XTECHYN	XTECHYN	Status Flag - Technology to Assist the Disabled
XTHESYN	XTHESYN	Status Flag - Electronic Theses Produced by Students
ZIP	ZIP	Postal Zip code PLUS 4

Appendix E—Edits and Imputations

Academic Libraries Survey (ALS) 2004

This appendix, which describes the edits and imputations for the Academic Libraries data file 2004, was developed by the U.S. Census Bureau. The first section describes the edits and the second section provides a detailed description of the imputation process, which was developed by Joanna Fane McLaughlin, U.S. Census Bureau, dated December 19, 2005. The imputation process is described in ten subsections:

- I. Survey Changes Since Fiscal Year (FY) 2002
- II. Pre-Imputation Steps
- III. ‘Z’ Corrections
- IV. Base Methodology
- V. Imputation Methodology
- VI. Post-Imputation Steps
- VII. Problems and Recommendations
- VIII. 2004 ALS Fringe Benefit Imputation Rules
- IX. Items Included in the Criteria for Exclusion from the ‘Z’ program, Base, or Imputation
- X. Imputation Groups

Appendix E—Edits and Imputations

Academic Libraries Survey (ALS) 2004

Edits

The web based data collection application features selected internal consistency edit checks as well as selected range and summation checks. Edit checks provide warnings as the data are being entered into the web application and an edit/error report after the data have been entered. The types of edit checks are listed below:

- *Summations*—reported totals are compared with the sums of the constituent data items. If they are not equal, an error message is generated.
- *Relational edit checks*—the program compares responses entered in one section of the questionnaire with responses entered in another section of the questionnaire for consistency. For example, if a librarian reports that books and bound serials were added during the fiscal year, the program would look for some expenditure to be reported for books and bound serials. If the former is reported without the latter, an error message is generated. Another example is that 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.
- *Range check*—an error message is generated if responses are above or below expected amounts. For example, if the average salary of librarians is reported as less than \$20,000 or greater than \$100,000, an error message is generated. If the reported hours of service are greater than 168 hours per week, an error message is generated.

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

- *Current year/prior year comparisons*—current year data must fall within the range of 50 to 150 percent of data for the prior reporting period.
- *Ratios*—the ratio of one item to another exceeds a limit, such as the ratio of salaries and wages to staff exceeds an upper limit and is not reasonable for that position.
- *Item comparison*—one item should not exceed another, such as books added during the year should not exceed books held at the end of the year.

Appendix E—Edits and Imputations Academic Libraries Survey (ALS) 2004

Imputation Documentation

Introduction

An academic library is defined as an entity in a post-secondary institution that provides all of the following:

- A. An organized collection of printed or other materials, or a combination thereof
- B. A staff trained to provide and interpret such materials as required to meet the informational, cultural, recreational, or educational needs of clientele
- C. An established schedule in which services of the staff are available to clientele
- D. The physical facilities necessary to support such a collection, staff, and schedule

This definition includes libraries that are part of learning resource centers.

The survey collected data on the status of branches, library staff, expenditures, collections, services, and electronic services during FY 2004. It also collected data on library services during a typical week.

This document specifies the imputation process for both total and partial survey non-respondents of the 2004 Academic Libraries Survey (ALS). It describes in detail: setting ‘Z’ status flags, and generating an imputation base. ‘Z’ status flags corrected for unreported zeros. The imputation base—used to impute for non-respondents—was generated from qualifying respondent institutions. The statistical software used throughout processing was Base SAS, Version 8.2.

I. Survey Changes Since Fiscal Year (FY) 2002

There were some changes since the ALS 2002 survey. There are seven new questions:

- Is the library collection entirely electronic?
- Electronic reference sources and aggregation services added?
- Electronic reference sources and aggregation services held?
- Does your library have a definition of information literacy or of an information literate student?
- Has your library incorporated information literacy in the institution’s mission?
- Has your library incorporated information literacy in the institution’s strategic plan?
- Does your library have an institution-wide committee to implement the strategic plan for information literacy?

No items were deleted since 2002, and all items—aside from the new items—are comparable to the same item in 2002. (*For crosswalk, see Appendix D*)

Appendix E—Edits and Imputations Academic Libraries Survey (ALS) 2004

II. Pre-Imputation Steps

It was important that the file the Economic Statistical Methods and Programming Division (ESMPD) received was ready for imputation. This involved making sure variables met certain criteria and that file specifications were met.

A. Variables

The variables on the file that arrives at ESMPD for imputation should have:

- Non-zero values for **total full-time equivalent (FTE) staff, total FTE salaries and wages, total expenditures**, total collections held at the end of the fiscal year, **number of weekly public service hours, gate count in a typical week, or reference transactions in a typical week.**
- No 0[T]'s on the file (i.e. all 0[T]'s were to be changed to 0[N]'s before the file arrives at ESMPD).
- The **current year parent child indicator** (CYPARCH) set equal to the **prior year parent-child indicator** (PYPARCH) if the **check-in action** is an initialization (i.e., CKIN = '99'). It follows that if CKIN = '99' and CYPARCH = '2', then the **unit id of the institution where the data are recorded** (UNITIDX) was set equal to the **prior year unit id of the institution where the data were recorded** (PYUNITX).
- **Fringe benefits** already imputed according to the rules outlined in '2004 ALS Fringe Benefit Imputation Rules' (*See subsection VIII*).
- **Full-time enrollment**, which is pulled from Fall 2004 Integrated Postsecondary Education Data System (IPEDS) data. Enrollment is missing for children and out-of-scope institutions.

B. Files

Four files were required for imputations:

- The FY 2004 master file
- The FY 2004 edited, unimputed file
- The FY 2002 master file
- The FY 2002 final, imputed file

An additional file was required for generating the tables:

- The FY 2002 edited, unimputed file

Appendix E—Edits and Imputations

Academic Libraries Survey (ALS) 2004

The files that arrived at ESMPD for imputation:

- Followed the pre-determined variable naming convention (i.e., every status flag will start with “x,” every prior year item will start with “py,” etc.)
- Arrived as an Access 2000 database

III. ‘Z’ Corrections

Most respondents who completed forms left an item blank when they had no data for that item. An item left blank, therefore, should often be interpreted as a reported zero. The ‘Z’ program changes the status flag for such cases from ‘N’ to ‘Z’. Implied zeros were determined by conducting additive checks and examining ALS 2002 imputed data. Details are given below. ‘Z’ corrections were organized by survey part, except for Parts C and D. Parts C and D are run jointly, because some of the items across parts are highly comparable. (*For a list of possible status flags, see subsection IX*)

A. ‘Z’ Criteria

Some cases were excluded from the ‘Z’ corrections. Institutions that reported any of the following were not checked for implied zeros:

- Check-in action (CKIN) = ‘08’, ‘09’, ‘10’, ‘11’, ‘15’, or ‘99’
- OPE eligibility indicator code (OPEFLAG) = 3, 5, or 6
- Degree granting status (DEGGRANT) = 2 or -1
- Institution status (ACT) = ‘O’, ‘M’, ‘D’, or ‘C’
- Institution sector (SECTOR) = 0, 7, 8, or 9

[Note: The variable naming convention approved by the National Center for Education Statistics (NCES) was used. Quotation marks indicate a character variable. No quotation marks indicate a numeric variable.] (*For more on these criteria, see subsection IX*)

An entirely electronic library answered yes to the question: “Is the library collection entirely electronic?” Entirely electronic libraries were removed from ‘Z’ processing. This criterion is new in FY 2004.

B. Part A—Number of Public Service Outlets, FY 2004

If **branches** was blank – denoted 0[N] – and branches in FY 2002 was 0[I], 0[N], 0[Z], or missing, then the status flag for **branches** was changed to ‘Z’.

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Academic Libraries Survey (ALS) 2004

C. Part B—Library Staff, Fall 2004 & Salaries/Wages, FY 2004

If **total FTEs** did not have a status flag of ‘T’ and **total FTEs** equaled the sum of its detail items, then the detail items were checked. If a detail item was 0[N], then its status flag was temporarily changed to ‘S’. The same procedure was followed for **total salaries and wages** and its detail items.

The next step was determining if ‘S’ status flags should be changed to ‘Z’ or changed back to ‘N’. If neither **total FTEs** nor **total salaries and wages** had status flag ‘N’ and the detail items in a given row each had status flag ‘S’, then each ‘S’ flag in the row was changed to ‘Z’. If neither total had status flag ‘T’ and one of the detail items in a given row was a reported zero and the other item was not reported (i.e., it had status flag ‘N’ or ‘S’), then the item not reported was assigned status flag ‘Z’.

When **total FTEs** did not have status flag ‘T’, **total number of full-time librarians and other professional staff** equaled the sum of its detail items and had status flag ‘Z’, ‘R’, ‘C’, or ‘A’, and **number of full-time librarians** was 0[N], then the status flag for **number of full-time librarians** was changed to ‘Z’. Likewise, if **number of other full-time professional staff** was 0[N] and the previous criteria were met, then the status flag for **number of other full-time professional staff** was changed to ‘Z’.

Finally, any remaining ‘S’ status flags were changed back to ‘N’ and the corresponding column total status flag was changed to ‘T’. If **total full-time librarians and other professional staff** was 0[Z] and **number of full-time librarians** was not zero with status flag ‘Z’, ‘R’, ‘C’, or ‘A’, then **number of full-time librarians** was changed to 0[Z]. If **total full-time librarians and other professional staff** was 0[Z] and **number of other full-time professional staff** was not zero with status flag ‘Z’, ‘R’, ‘C’, or ‘A’, then **number of other full-time professional staff** was changed to 0[Z]. Any column totals greater than zero with status flag ‘T’ were changed to 0[T]. (For 0[T] items, the total was re-summed after imputation.)

D. Part C—Library Expenditures, FY 2004 & Part D—Library Collections, FY 2004

If **total expenditures** was 0[N], then survey Parts C and D did not go through implied zero checks. If **total expenditures** was not 0[N], Parts C and D went through the checks detailed below.

If **total expenditures** did not have a ‘T’ status flag and equaled the sum of its detail items, then its detail items were checked. If **books, serial backfiles and other material expenditures** was 0[N], then the status flag for **books, serial**

Appendix E—Edits and Imputations

Academic Libraries Survey (ALS) 2004

backfiles, and other material expenditures was changed to ‘S’. If **current serial subscription expenditures** was 0[N], then its status flag was changed to ‘S’. The other detail items—**document delivery/interlibrary loan expenditures, preservation expenditures, other expenditures for information resources, computer hardware and software expenditures, bibliographic utilities, networks and consortia expenditures, and all other operating expenditures**—were also checked, and if an item was 0[N], its status flag was changed to ‘Z’.

If **books, serial backfiles and other material expenditures** was reported and equaled the sum of its detail items, then its detail items were checked. If a detail item—**electronic expenditures** or **audiovisual expenditures**—was 0[N], then that item’s status flag was changed to ‘Z’.

If **total expenditures** did not have a ‘T’ status flag, **current serial subscription expenditures** was reported and equal to **electronic serial subscription expenditures**, and **electronic serial subscription expenditures** was 0[N], then the status flag for **electronic serial subscription expenditures** was changed to ‘Z’.

If **books, serial backfiles and other material expenditures** was 0[S] and the sum of its detail items was greater than zero, then its status flag was changed back to ‘N’, and **total expenditures** was changed to 0[T].

If **current serial subscription expenditures** was 0[S] and **electronic serial subscription expenditures** was greater than zero, then the status flag for **current serial subscription expenditures** was changed back to ‘N’, and **total expenditures** was changed to 0[T].

If **books, serial backfiles and other materials added** was 0[N] and **books, serial backfiles, and other material expenditures** was zero with status flag ‘Z’, ‘R’, ‘C’, or ‘A’, then the status flag for **books, serial backfiles and other materials added** was changed to ‘Z’. Similarly, the status flag for **audiovisual materials added** or **e-books added** was changed to ‘Z’ if it was originally 0[N] and its corresponding expenditure item in Part C was zero with status flag ‘Z’, ‘R’, ‘C’, or ‘A’. If **electronic reference sources and aggregation services added** was 0[N], **electronic expenditures** was 0 with status flag ‘Z’, ‘R’, ‘C’, or ‘A’, and **electronic serial expenditures** was 0 with status flag ‘Z’, ‘R’, ‘C’, or ‘A’, then the status flag for **electronic reference sources and aggregation services added** was changed to ‘Z’.

If **microforms added** was 0[N] and **microforms held** was a reported zero, then the status flag for **microforms added** was changed to ‘Z’. If **current serial subscriptions added** was 0[N] and **current serial subscriptions held** was a

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reported zero, then the status flag for **current serial subscriptions added** was changed to ‘Z’.

If a materials added data item was 0[N], the corresponding materials held item was a reported zero, and the corresponding expenditure in Part C was 0[N], 0[S] or had a value greater than zero, then the materials held item’s status flag was changed to ‘N’. This logic was followed for the following three items: **books, serial backfiles and other paper materials; audiovisual materials; and e-books**. If **electronic reference sources and aggregation services added** was 0[N], **electronic reference sources and aggregations services held** was a reported zero, and **electronic expenditures** was 0[N] or **electronic serial expenditures** was 0[N] or **electronic expenditures** was greater than zero or **electronic serial expenditures** was greater than zero, then the status flag for **electronic reference sources and aggregation services held** was changed to ‘N’.

If **books, serial backfiles and other material expenditures** was 0[S], the sum of its detail items was zero, its corresponding added or held item in Part D was zero with status flag ‘Z’, ‘R’, ‘C’, or ‘A’, then the status flag for **books, serial backfiles and other material expenditures** was changed to ‘Z’. In addition, if **electronic expenditures** or **audiovisual expenditures** was 0[N], its status flag was changed to ‘Z’. If **books, serial backfiles and other material expenditures** was 0[S], the sum of its detail items was zero, and its corresponding added item was greater than zero or 0[N], then the status flag for **books, serial backfiles and other material expenditures** was changed back to ‘N’ and the **total expenditures** status flag was changed to ‘T’.

If **current serial subscription expenditures** was 0[S], **electronic serial subscription expenditures** was zero, and the corresponding added or held item in Part D was zero with status flag ‘Z’, ‘R’, ‘C’, or ‘A’, then the status flag for **current serial subscription expenditures** was changed to ‘Z’. In addition, if **electronic serial subscription expenditures** was 0[N], then its status flag was changed to ‘Z’. If **current serial subscription expenditures** was 0[S], **electronic serial subscription expenditures** was zero, and its corresponding added item in Part D was greater than zero or 0[N], then the expenditure status flag was changed back to ‘N’, and the status flag for **total expenditures** was changed to ‘T’.

If **audiovisual expenditures** was 0[N] and the corresponding added or held item in Part D was zero with status flag ‘R’, ‘C’, or ‘A’, then the status flag for **audiovisual expenditures** was changed to ‘Z’.

Total expenditures greater than zero with status flag ‘T’ was changed to 0[T]. (For 0[T] items, the total was re-summed after imputation.)

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E. Part E—Library Services, FY 2004

If **total interlibrary loans provided to other libraries** equaled the sum of its detail and was not 0[N], and **returnable loans provided to other libraries** was 0[N], then the status flag for **returnable loans provided to other libraries** was changed to 'Z'. Likewise, if **total interlibrary loans provided to other libraries** equaled the sum of its detail and was not 0[N], and **non-returnable loans provided to other libraries** was 0[N], then the status flag for **non-returnable loans provided to other libraries** was changed to 'Z'.

If **total interlibrary loans received from other libraries** equaled the sum of its detail and was not 0[N], and **returnable loans received from other libraries** was 0[N], then the status flag for **returnable loans received from other libraries** was changed to 'Z'. Likewise, if **total interlibrary loans received from other libraries** equaled the sum of its detail and was not 0[N], and **non-returnable loans received from other libraries** was 0[N], then the status flag for **non-returnable loans received from other libraries** was changed to 'Z'.

If **number of presentations** was 0[N] and **total attendance at all presentations** was zero with status flag 'R', 'C', or 'A', then the status flag for **number of presentations** was changed to 'Z'. Likewise, if **total attendance at all presentations** was 0[N] and **number of presentations** was zero with status flag 'R', 'C', or 'A', then the status flag for **total attendance at all presentations** was changed to 'Z'.

F. Part F—Library Services, Typical Week, Fall 2004

No 'Z's were applied to this part.

G. Part G—Electronic Services

No 'Z's were applied to this part.

H. Part H—Information Literacy

No 'Z's were applied to this part.

IV. Base Methodology

The imputation base is made up of units who reported data in 2004 and 2002, as well as units who met the criteria given in Section A below. Base calculations included group medians, median growth rates, and median distribution ratios, and were done for each imputation group by imputation cell. Imputation was divided into 11 groups, with comparable items grouped together. (*For more on imputation groups, see subsection X*)

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A. Base Criteria

When the imputation base was generated, institutions that merged, split, submitted combined forms, changed sectors or forms since the prior year, or did not submit a full report for either the current year or prior year for a given imputation group were excluded. Specifically, schools that met any of the following criteria were **excluded** from the base:

- For a given imputation group, there was at least one value not reported (i.e., status flag ‘N’, ‘P’, ‘I’, or ‘T’) in either the current or prior year
- Check-in action (CKIN) = ‘08’, ‘09’, ‘10’, ‘11’, ‘15’, or ‘99’
- OPE eligibility indicator (OPEFLAG) = 3, 5, or 6
- Degree granting status (DEGGRANT) = 2 or –1
- Institution status (ACT) ≠ ‘A’, ‘N’, ‘P’, ‘Q’, ‘R’, or ‘S’
- Institution status (ACT) = ‘O’, ‘M’, ‘D’, or ‘C’
- FIPS state code (FIPS) > ‘56’
- Institution sector (SECTOR) = 0, 7, 8, or 9
- Institution sector (SECTOR) ≠ MAILSEC
- Current year parent-child indicator (CYPARCH) = ‘1’ or ‘2’
- Prior year parent-child indicator (PYPARCH) = ‘1’ or ‘2’
- Response status code (STATUS) ≠ ‘1’
- Response status code (STATUS) = ‘3’, ‘5’, or ‘6’
- Prior year response status code (PYSTATUS) ≠ ‘1’

[Note: The variable naming convention approved by the NCES was used. Quotation marks indicate a character variable. No quotation marks indicate a numeric variable.] *(For more on these criteria, see subsection IX)*

B. Imputation Groups

Base calculations were by imputation group. There are eleven imputation groups:

1. Part A, Line 1 [No base generated]
2. Part B, Lines 2, 3, & 4-7, Columns 1 & 2
3. Part B, Lines 8a & 8b
4. Part C, Lines 10, 13, & 15-21
5. Part C, Lines 11, 12, & 14
6. Part D, Lines 22 & 24-26, Columns 1 & 2
7. Part D, Lines 23 & 27, Columns 1 & 2
8. Part E, Lines 28a, 28b, & 29-33
9. Part E, Lines 34a & 34b
10. Part E, Lines 35 & 36
11. Part F, Lines 37-39

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C. Imputation Cells

Within each imputation group were imputation cells. Using facilities that met base criteria, full-time enrollment for these facilities was plotted by sector, and the distributions were examined to determine the best imputation cells. Requirements were 15 respondents per cell and at least a 75% response rate per cell. If an institution was missing enrollment data, but met imputation criteria, GOVS estimated full-time enrollment based on auxiliary data. The final cells are given in Table 1 below.

Table 1: Imputation Cells

Cell	Sector	Enrollment
a	1	[0, 5000)
b	1	[5000, 10000)
c	1	[10000, 15000)
d	1	[15000, 20000)
e	1	[20000, ∞)
f	2	[0, 500)
g	2	[500, 1000)
h	2	[1000, 1500)
i	2	[1500, 2000)
j	2	[2000, 2500)
k	2	[2500, 3000)
l	2	[3000, 3500)
m	2	[3500, 5000)
n	2	[5000, 10000)
o	2	[10000, ∞)
p	3	[0, 500)
q	3	[500, ∞)
r	4	[0, 1000)
s	4	[1000, 2000)
t	4	[2000, 3000)
u	4	[3000, 4000)
v	4	[4000, 5000)
w	4	[5000, 7500)
x	4	[7500, 10000)
y	4	[10000, ∞)
z	5 or 6	[0, 500)
1	5 or 6	[500, ∞)

D. Item Medians, Median Growth Rates, and Median Distribution Ratios

After ineligible records were removed from the base and imputation groups and cells were determined, item medians, median growth rates, and median distribution ratios were calculated for each imputation group by imputation cell.

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The current and prior year **medians** were calculated for predetermined data items.

Growth rates were calculated for current to prior year ratios. If both the prior year and current year values were zero, then the growth rate was one. If just one of the prior year or current year values was zero, then the growth rate was excluded from calculations. Otherwise, the growth rate was the current to prior year ratio. The final growth rate used for imputation was the cell median growth rate.

Current year ratios were examined for some of the highly correlated items. If the value in the denominator was zero, then the ratio was excluded from calculations. Otherwise, the value was the current year ratio. The final value used for imputation was the cell median of the distribution ratios.

Medians were calculated for most, but not all, data items and ratios. The specifications for each imputation group are laid out in the following sections.

E. Base Calculations for Imputation Group 1

No medians were calculated for this imputation group.

F. Base Calculations for Imputation Group 2

Medians were generated for:

- Current year (CY) & Prior year (PY) librarians
- CY & PY other professional staff
- CY & PY total librarians and other professional FTEs
- CY & PY total librarians and other professional staff salaries and wages
- CY & PY all other paid FTEs
- CY & PY all other paid staff salaries and wages
- CY & PY student assistant FTEs
- CY & PY student assistant salaries and wages
- CY & PY total FTEs
- CY & PY total salaries and wages

The following **median growth rates** were generated:

- CY librarians/PY librarians
- CY other professional staff/PY other professional staff
- CY all other paid FTEs/PY all other paid FTEs
- CY student assistant FTEs/PY student assistant FTEs

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The following **median distribution ratios** were generated:

- Librarians/Total librarians and other professional FTEs
- Other professional staff/Total librarians and other professional FTEs
- Total librarians and other professional FTEs/Total FTEs
- All other paid FTEs/Total FTEs
- Student assistant FTEs/Total FTEs
- Total librarians and other professional staff salaries and wages/Total salaries and wages
- All other paid staff salaries and wages/Total salaries and wages
- Student assistant salaries and wages/Total salaries and wages
- Total librarians and other professional staff salaries and wages/Total librarians and other professional FTEs
- All other paid staff salaries and wages/All other paid FTEs
- Student assistants salaries and wages/Student assistant FTEs

G. Base Calculations for Imputation Group 3

Medians were generated for:

- Employee fringe benefits (Zero was excluded as a possible median value, because it indicates fringe benefits are not paid out of the budget.)
- Total salaries and wages

No **median growth rates** were generated for this group.

The following **median distribution ratio** was generated:

- Employee fringe benefits/Total salaries and wages

H. Base Calculations for Imputation Group 4

Medians were generated for:

- CY & PY books, serial backfiles and other material expenditures
- CY & PY current serial subscription expenditures
- CY & PY document delivery/interlibrary loan expenditures
- CY & PY preservation expenditures
- CY & PY other information resources expenditures
- CY & PY computer hardware and software expenditures
- CY & PY bibliographic utilities, networks, and consortia expenditures
- CY & PY all other operating expenditures
- CY & PY total expenditures

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The following **median growth rates** were generated:

- CY books, serial backfiles and other material expenditures/PY books, serial backfiles and other material expenditures
- CY current serial subscription expenditures/PY current serial subscription expenditures
- CY document delivery/interlibrary loan expenditures/PY document delivery/interlibrary loan expenditures
- CY preservation expenditures/PY preservation expenditures
- CY other information resources expenditures/PY other information resources expenditures
- CY computer hardware and software expenditures/PY computer hardware and software expenditures
- CY bibliographic utilities, networks, and consortia expenditures/PY bibliographic utilities, networks, and consortia expenditures
- CY all other operating expenditures/PY all other operating expenditures
- CY total expenditures/PY total expenditures

There were no **median distribution ratios** generated for this imputation group.

I. Base Calculations for Imputation Group 5

Medians were generated for:

- CY books, serial backfiles and other material expenditures
- CY current serial subscription expenditures
- CY & PY electronic expenditures
- CY & PY audiovisual expenditures
- CY & PY electronic serial expenditures

The following **median growth rates** were generated:

- CY electronic expenditures/PY electronic expenditures
- CY audiovisual expenditures/PY audiovisual expenditures
- CY electronic serial expenditures/PY electronic serial expenditures

The following **median distribution ratios** were generated:

- Electronic expenditures/Books, serial backfiles and other material expenditures
- Audiovisual expenditures/Books, serial backfiles and other material expenditures
- Electronic serial expenditures/Current serial subscription expenditures

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J. Base Calculations for Imputation Group 6

Medians were generated for:

- CY & PY books, serial backfiles and other paper materials added
- CY & PY books, serial backfiles and other paper materials held
- CY & PY microforms added
- CY & PY microforms held
- CY & PY audiovisual materials added
- CY & PY audiovisual materials held
- CY & PY current serial subscriptions added
- CY & PY current serial subscriptions held

The following **median growth rates** were generated:

- CY books, serial backfiles and other paper materials held/PY books, serial backfiles and other paper materials held
- CY microforms held/PY microforms held
- CY audiovisual materials held/PY audiovisual materials held
- CY current serial subscriptions held/PY current serial subscriptions held

The following **median distribution ratios** were generated:

- Books, serial backfiles, and other paper materials added/Books, serial backfiles, and other paper materials held
- Microforms added/Microforms held
- Audiovisual materials added/Audiovisual materials held
- Current serial subscriptions added/Current serial subscriptions held
- Books, serial backfiles, and other paper materials held/Books serial backfiles and other material expenditures
- Audiovisual materials held/Audiovisual expenditures
- Current serial subscriptions held/Current serial subscription expenditures

K. Base Calculations for Imputation Group 7

Current year medians were generated for the following items:

- CY & PY e-books added
- CY & PY e-books held
- CY electronic reference sources and aggregation services added
- CY electronic reference sources and aggregation services held

The following **median growth rates** were generated:

- CY e-books held/PY e-books held

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The following **median distribution ratio** was generated:

- E-books added/E-books held
- Electronic reference sources and aggregation services added/Electronic reference sources and aggregation services held

L. Base Calculations for Imputation Group 8

Medians were generated for:

- CY & PY returnable interlibrary loans provided to other libraries
- CY & PY non-returnable interlibrary loans provided to other libraries
- CY & PY total interlibrary loans provided to other libraries
- CY & PY returnable interlibrary loans received from other libraries
- CY & PY non-returnable interlibrary loans received from other libraries
- CY & PY total interlibrary loans received from other libraries
- CY & PY documents delivered from commercial services

The following **median growth rates** were generated:

- CY returnable interlibrary loans provided to other libraries/PY returnable interlibrary loans provided to other libraries
- CY non-returnable interlibrary loans provided to other libraries/PY non-returnable interlibrary loans provided to other libraries
- CY total interlibrary loans provided to other libraries/PY total interlibrary loans provided to other libraries
- CY returnable interlibrary loans received from other libraries/PY returnable interlibrary loans received from other libraries
- CY non-returnable interlibrary loans received from other libraries/PY non-returnable interlibrary loans received from other libraries
- CY total interlibrary loans received from other libraries/PY total interlibrary loans received from other libraries

The following **median distribution ratios** were generated:

- Returnable interlibrary loans provided to other libraries/Total interlibrary loans provided to other libraries
- Returnable interlibrary loans received from other libraries/Total interlibrary loans received from other libraries

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M. Base Calculations for Imputation Group 9

Medians were generated for:

- CY & PY general circulation transactions
- CY & PY reserve circulation transactions

The following **median growth rates** were generated:

- CY general circulation transactions/PY general circulation transactions
- CY reserve circulation transactions/PY reserve circulation transactions

There were no **median distribution ratios** generated for this group.

N. Base Calculations for Imputation Group 10

Medians were generated for:

- CY & PY number of presentations
- CY & PY total attendance at all presentations

The following **median growth rates** were generated:

- CY number of presentations/PY number of presentations
- CY total attendance at all presentations/PY total attendance at all presentations

The following **median distribution ratio** was generated:

- Number of presentations/Total attendance at all presentations

O. Base Calculations for Imputation Group 11

Medians were generated for:

- CY & PY number of weekly service hours
- CY & PY gate count in a typical week
- CY & PY reference transactions in a typical week

The following **median growth rates** were generated:

- CY number of weekly service hours/PY number of weekly service hours
- CY gate count in a typical week/PY gate count in a typical week
- CY reference transactions in a typical week/PY reference transactions in a typical week

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The following **median distribution ratio** was generated:

- Gate count in a typical week/Number of weekly public service hours
- Reference transactions in a typical week/Number of weekly public service hours

V. Imputation Methodology

A. Imputation Criteria

Imputation was done for partial and total non-respondent institutions. Imputation was by group. An institution meeting any of the criteria listed below was *excluded* from a given imputation group:

- Each data item in a given imputation group was “reported” (i.e., had status flag ‘A’, ‘C’, ‘R’, or ‘Z’)
- Check-in action (CKIN) = ‘08’, ‘09’, ‘10’, or ‘11’
- OPE eligibility indicator (OPEFLAG) = 3, 5, or 6
- Degree granting status (DEGGRANT) = 2 or –1
- Institution status (ACT) = ‘O’, ‘M’, ‘D’, or ‘C’
- Institution sector (SECTOR) = 0, 7, 8, or 9
- FIPS state code (FIPS) > ‘56’
- Institution status (STATUS) = ‘3’ and prior year institution status (PYSTATUS) = ‘3’, ‘5’, or missing, and library facilities (LIBFAC) ≠ 1
- Institution status (STATUS) = ‘5’
- Current year parent-child indicator (CYPARCH) = ‘2’

[Note: The variable naming convention approved by the NCES was used. Quotation marks indicate a character variable. No quotation marks indicate a numeric variable.] (*For more on these criteria, see subsection IX*)

B. Imputation Scenarios

If an item did not meet any of the criteria above, then it was imputed using group medians, prior year data, or prior year data with a median growth factor applied. Status flag values and responses to library facilities (LIBFAC), institution status (STATUS), and prior year institution status (PYSTATUS) were examined to determine how an item was imputed. There were four possible scenarios given in Table 2 below along with the status flag assigned to each.

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Table 2: Imputation Scenarios

	Scenario	Criteria	Flag
1	Total non-respondent with PY data	All item status flags 'N' and PYSTATUS = '1' or '4' OR STATUS = '3' or '6' and PYSTATUS = '1' or '4'	P
2	Partial non-respondent with PY data	STATUS = '1' and PYSTATUS = '1' or '4'	P
3	Total non-respondent with no PY data	All item status flags 'N' and PYSTATUS = '3', '5', or missing OR STATUS = '3' and PYSTATUS = '3', '5', or missing and LIBFAC = 1 OR STATUS = '6' and PYSTATUS = '3', '5', or missing	I
4	Partial non-respondent with no PY data	STATUS = '1' and PYSTATUS = '3', '5', or missing	I

C. Group 1 Imputation

There was one item in this imputation group: **branches and independent libraries**.

Group medians were not used to impute **branches and independent libraries**. Since there was only one data item in group1, the criteria for scenarios 1 and 2 were combined, and the item was imputed with prior year data. The impute flag was set as 'P'.

D. Group 2 Imputation

There were ten items imputed as part of this group: **librarians, other professional staff, total librarians and other professional FTEs, all other paid FTEs, student assistant FTEs, total FTEs, total librarians and other professional staff salaries and wages, all other paid staff salaries and wages, student assistant salaries and wages, and total salaries and wages**.

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Imputing for Total Non-Respondents When Prior Year Data was Available

Each item – **Librarians, other professional staff, all other paid FTEs, and student assistant FTEs** – was imputed with its prior year value multiplied by the cell median growth rate for the item. **Librarians and other professional staff** were summed to get **total librarians and other professional FTEs**. **Total librarians and other professional staff, all other paid FTEs, and student assistant FTEs** were summed to get **total FTEs**.

For **total librarians and other professional staff salaries and wages, all other paid staff salaries and wages, and student assistant salaries and wages**, each item was imputed as the corresponding FTE item multiplied by the cell median ratio of the item to the corresponding FTE item. **Total librarians and other professional staff salaries and wages, all other paid staff salaries and wages, student assistant salaries and wages** were summed to get **total salaries and wages**.

In each case above, the item status flag was set to ‘P’.

Imputing for Partial Non-Respondents When Prior Year Data was Available

If **librarians** had status flag ‘N’, it was imputed with its prior year value multiplied by the cell median growth rate for the item. If **other professional staff** had status flag ‘N’, it was imputed with its prior year value multiplied by the cell median growth rate for the item. If **all other paid FTEs** and **all other paid staff salaries and wages** each had status flag ‘N’, then **all other paid FTEs** was imputed with its prior year value multiplied by the cell median growth rate for the item. If **student assistant FTEs** and **student assistant salaries and wages** each had status flag ‘N’, then **student assistant FTEs** was imputed with its prior year value multiplied by the cell median growth rate for the item. If **all other paid FTEs** had status flag ‘N’ and **all other paid staff salaries and wages** did not have status flag ‘N’, **all other paid FTEs** was imputed with the inverse of the cell median ratio **all other paid staff salaries and wages** to **all other paid FTEs** times **all other paid staff salaries and wages**. If **student assistant FTEs** had status flag ‘N’ and **student assistant salaries and wages** did not have status flag ‘N’, **student assistant FTEs** was imputed with the inverse of the cell median ratio **student assistant salaries and wages** to **student assistant FTEs** times **student assistant salaries and wages**. If **total librarians and other professional FTEs** had status flag ‘N’, then it was imputed with the sum of **librarians and other professional staff**. If **total FTEs** had status flag ‘N’ or ‘T’, then it was set to the sum of **total librarians and other professional FTEs, all other paid FTEs, and student assistant FTEs**.

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For **total librarians and other professional staff salaries and wages**, **all other paid staff salaries and wages**, and **student assistant salaries and wages**, if the item had status flag ‘N’, then it was imputed as the corresponding FTE item multiplied by the cell median ratio of the item to the corresponding FTE item. If **total salaries and wages** had status flag ‘N’ or ‘T’, then **total librarians and other professional staff salaries and wages**, **all other paid staff salaries and wages**, **student assistant salaries and wages** were summed to get **total salaries and wages**.

Except for **total FTEs** and **total salaries and wages**, each imputed item’s status flag was set as ‘P’. The status flag for **total FTEs** was set as ‘P’ if it was ‘N’ prior to imputation. It stayed ‘T’ if it was ‘T’ prior to imputation. The status flag for **total salaries and wages** was set as ‘P’ if it was ‘N’ prior to imputation. It stayed ‘T’ if it was ‘T’ prior to imputation.

Imputing for Total Non-Respondent When Prior Year Data was Not Available

Each item – **Librarians**, **other professional staff**, **all other paid FTEs**, and **student assistant FTEs** – was imputed with its cell median value. **Librarians** and **other professional staff** were summed to get **total librarians and other professional FTEs**. **Total librarians and other professional FTEs**, **all other paid FTEs**, and **student assistant FTEs** were summed to get **total FTEs**.

For **total librarians and other professional staff salaries and wages**, **all other paid staff salaries and wages**, and **student assistant salaries and wages**, each item was imputed as the corresponding FTE item multiplied by the cell median ratio of the item to the corresponding FTE item. **Total librarians and other professional staff salaries and wages**, **all other paid staff salaries and wages**, **student assistant salaries and wages** were summed to get **total salaries and wages**.

In each case above, the item status flag was set to ‘I’.

Imputing for Partial Non-Respondents When Prior Year Data was Not Available

If **librarians** had status flag ‘N’, it was imputed with its cell median value. If **other professional staff** had status flag ‘N’, it was imputed with its cell median value. If **all other paid FTEs** and **all other paid staff salaries and wages** each had status flag ‘N’, then **all other paid FTEs** was imputed with its cell median value. If **student assistant FTEs** and **student assistant salaries and wages** each had status flag ‘N’, then **student assistant FTEs** was imputed with its cell median value. If **all other paid FTEs** had status flag ‘N’ and **all other paid staff salaries and wages** did not have status flag ‘N’, **all other paid FTEs** was imputed with

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the inverse of the cell median ratio **all other paid staff salaries and wages** to **all other paid staff FTEs** times **all other paid staff salaries and wages**. If **student assistant FTEs** had status flag ‘N’ and **student assistant salaries and wages** did not have status flag ‘N’, **student assistant FTEs** was imputed with the inverse of the cell median ratio **student assistant salaries and wages** to **student assistant FTEs** times **student assistant salaries and wages**. If **total librarians and other professional staff** had status flag ‘N’, then it was imputed with the sum of **librarians** and **other professional staff**. If **total FTEs** had status flag ‘N’ or ‘T’, then it was set to the sum of **total librarians and other professional FTEs**, **all other paid FTEs**, and **student assistant FTEs**.

For **total librarians and other professional staff salaries and wages**, **all other paid staff salaries and wages**, and **student assistant salaries and wages**, if an item had status flag ‘N’, then it was imputed as the corresponding FTE item multiplied by the cell median ratio of the item to the corresponding FTE item. If **total salaries and wages** had status flag ‘N’ or ‘T’, then **total librarians and other professional staff salaries and wages**, **all other paid staff salaries and wages**, **student assistant salaries and wages** were summed to get **total salaries and wages**.

Except for **total FTEs** and **total salaries and wages**, each imputed item’s status flag was set as ‘I’. The status flag for **total FTEs** was set as ‘I’ if it was ‘N’ prior to imputation. It stayed ‘T’ if it was ‘T’ prior to imputation. The status flag for **total salaries and wages** was set as ‘I’ if it was ‘N’ prior to imputation. It stayed ‘T’ if it was ‘T’ prior to imputation.

Additional Steps

There were four possible additional steps:

1. If, after imputation, **total FTEs** was greater than the sum of its detail items, then the detail items were raked to **total FTEs**. The status flag for **total FTEs** was set as ‘T’.
2. If, after imputation, **total FTEs** was less than the sum of its detail items, then **total FTEs** became the sum of its details items. The status flag for **total FTEs** was set as ‘T’.
3. If, after imputation, **total salaries and wages** was greater than the sum of its detail items, then the detail items were raked to **total salaries and wages**. The status flag for **total salaries and wages** was set as ‘T’.
4. If, after imputation, **total salaries and wages** was less than the sum of its detail items, then **total salaries and wages** became the sum of its details items. The status flag for **total salaries and wages** was set as ‘T’.

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E. Group 3 Imputation

There were two items in this imputation group: **employee fringe benefits yes/no** and **employee fringe benefits**.

Prior year data was not used to impute **employee fringe benefits**, and the criteria for scenarios 3 and 4 were combined. **Employee fringe benefits** became the value of **total salaries and wages** (from imputation group 2) multiplied by the median ratio of **employee fringe benefits** to **total salaries and wages**. The yes/no item **Are employee fringe benefits paid from the library budget?** was imputed as '1,' or yes.

In each case above, the item status flag was set as 'I'.

F. Group 4 Imputation

There were nine items imputed as part of this group: **books, serial backfiles and other material expenditures; current serial subscription expenditures; document delivery/interlibrary loan expenditures, preservation expenditures; other information resource expenditures; computer hardware and software expenditures; bibliographic utilities, networks and consortia expenditures; all other operating expenditures; and total expenditures**.

Imputing for Total Non-Respondents When Prior Year Data was Available

Each item, except **total expenditures**, was imputed as the item's prior year value times the cell median growth rate for the item. After they were imputed, **books, serial backfiles and other material expenditures, current serial subscription expenditures, document delivery/interlibrary loan expenditures, preservation expenditures, other information resource expenditures, computer hardware and software expenditures, bibliographic utilities, networks and consortia expenditures, all other operating expenditures, and total salaries and wages** were summed to get **total expenditures**. (**Total salaries and wages** was imputed as part of imputation group 3.)

Each item's status flag was set as 'P'.

Imputing for Partial Non-Respondents When Prior Year Data was Available

Each item's status flag, except the status flag for **total expenditures**, was checked, and if it was 'N', then the item was imputed with its prior year value times cell median growth rate for the item. If its status flag was 'N' or 'T', then **total expenditures** became the sum of **books, serial backfiles and other material expenditures, current serial subscription expenditures, document**

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delivery/interlibrary loan expenditures, preservation expenditures, other information resource expenditures, computer hardware and software expenditures, bibliographic utilities, networks and consortia expenditures, all other operating expenditures, and total salaries and wages.

If, after imputation, **total expenditures** was greater than the sum of its detail items, then the detail items were raked to **total expenditures**. If **total expenditures** was less than the sum of its detail items, then **total expenditures** became the sum of the details items.

Except for **total expenditures**, each imputed item's status flag was set as 'P'. The status flag for **total expenditures** was set as 'P' if it was 'N' prior to imputation, the detail items were not raked to the total, and the total was not re-summed. If the detail items were raked to the total or the total was re-summed, then its status flag was set as 'T'. Its status flag stayed 'T' if it was 'T' prior to imputation.

Imputing for Total Non-Respondents When Prior Year Data was Not Available

Each item, except **total expenditures**, was imputed as the item's cell median. After they were imputed, **books, serial backfiles and other material expenditures, current serial subscription expenditures, document delivery/interlibrary loan expenditures, preservation expenditures, other information resource expenditures, computer hardware and software expenditures, bibliographic utilities, networks and consortia expenditures, all other operating expenditures, and total salaries and wages** were summed to get **total expenditures**. (**Total salaries and wages** was imputed as part of imputation group 3.)

Each item's status flag was set as 'I'.

Imputing for Partial Non-Respondents When Prior Year Data was Not Available

Each item's status flag, except the status flag for **total expenditures**, was checked, and if it was 'N', then the item was imputed with its cell median. If its status flag was 'N' or 'T', then **total expenditures** became the sum of **books, serial backfiles and other material expenditures, current serial subscription expenditures, document delivery/interlibrary loan expenditures, preservation expenditures, other information resource expenditures, computer hardware and software expenditures, bibliographic utilities, networks and consortia expenditures, all other operating expenditures, and total salaries and wages.**

If, after imputation, **total expenditures** was greater than the sum of its detail items, then the detail items were raked to **total expenditures**. If **total**

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expenditures was less than the sum of its detail items, then **total expenditures** became the sum of the details items.

Except for **total expenditures**, each imputed item's status flag was set as 'I'. The status flag for **total expenditures** was set as 'I' if it was 'N' prior to imputation, the detail items were not raked to the total, and the total was not re-summed. If the detail items were raked to the total or the total was re-summed, then its status flag was set as 'T'. Its status flag stayed 'T' if it was 'T' prior to imputation.

G. Group 5 Imputation

There were three items imputed as part of this group: **electronic expenditures**, **audiovisual expenditures**, and **electronic serial expenditures**.

Imputing for Total Non-Respondents When Prior Year Data was Available

Each item was imputed as the item's prior year value times the cell median growth rate for the item.

The status flag for each item was set as 'P'.

If the sum of **electronic expenditures** and **audiovisual expenditures** was greater than **books, serial backfiles and other material expenditures**, then **electronic expenditures** became **books, serial backfiles and other material expenditures** times the cell median ratio **electronic expenditures** to **books, serial backfiles and other material expenditures**, and **audiovisual expenditures** became **books, serial backfiles and other material expenditures** times the cell median ratio **audiovisual expenditures** to **books, serial backfiles and other material expenditures**.

The status flags for **electronic expenditures** and **audiovisual expenditures** were changed to 'I'.

If **electronic serial subscription expenditures** was greater than **current serial subscription expenditures**, then **electronic serial subscription expenditures** became **current serial subscription expenditures** times the cell median ratio **electronic serial subscription expenditures** to **current serial subscription expenditures**.

The status flag for **electronic serial subscription expenditures** was changed to 'I'.

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Imputing for Partial Non-Respondents When Prior Year Data was Available

Each item with status flag ‘N’ was imputed with the item’s prior year value times the cell median growth rate for the item.

Each imputed items status flag was set as ‘P’.

If the sum of **electronic expenditures** and **audiovisual expenditures** was greater than **books, serial backfiles and other material expenditures**, then **electronic expenditures** became **books, serial backfiles and other material expenditures** times the cell median ratio **electronic expenditures to books, serial backfiles and other material expenditures**, and **audiovisual expenditures** became **books, serial backfiles and other material expenditures** times the cell median ratio **audiovisual expenditures to books, serial backfiles and other material expenditures**.

The status flags for **electronic expenditures** and **audiovisual expenditures** were changed to ‘I’.

If **electronic serial subscription expenditures** was greater than **current serial subscription expenditures**, then **electronic serial subscription expenditures** became **current serial subscription expenditures** times the cell median ratio **electronic serial subscription expenditures to current serial subscription expenditures**.

The status flag for **electronic serial subscription expenditures** was changed to ‘I’.

Imputing for Total Non-Respondents When Prior Year Data was Not Available

Electronic expenditures was imputed as **books, serial backfiles and other material expenditures** times the cell median ratio **electronic expenditures to books, serial backfiles and other material expenditures**. **Audiovisual expenditures** was imputed as **books, serial backfiles and other material expenditures** times the cell median ratio **audiovisual expenditures to books, serial backfiles and other material expenditures**. **Electronic serial expenditures** was imputed as **current serials subscription expenditures** times the cell median ratio **electronic serial subscription expenditures to current serial subscription expenditures**.

The status flag for each item was set as ‘I’.

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Imputing for Partial Non-Respondents When Prior Year Data was Not Available

If its status flag was ‘N’, then **electronic expenditures** was imputed as **books, serial backfiles and other material expenditures** times the cell median ratio **electronic expenditures to books, serial backfiles and other material expenditures**. If its status flag was ‘N’, then **audiovisual expenditures** was imputed as **books, serial backfiles and other material expenditures** times the cell median ratio **audiovisual expenditures to books, serial backfiles and other material expenditures**. If its status flag was ‘N’, then **electronic serial expenditures** was imputed as **current serials subscription expenditures** times the cell median ratio **electronic serial subscription expenditures to current serial subscription expenditures**.

Each imputed item’s status flag was set as ‘I’.

H. Group 6 Imputation

There were eight items imputed as part of this group: **books, serial backfiles and other paper materials added; microforms added; audiovisual materials added; current serial subscriptions added; books, serial backfiles and other paper materials held; microforms held; audiovisual materials held; current serial subscriptions held**.

Imputing for Total Non-Respondents When Prior Year Data was Available

Microforms held was imputed as its prior year value times the cell median growth rate. **Microforms added** was imputed as **microforms held** times the cell median ratio **microforms added to microforms held**.

Books, serial backfiles and other paper materials held was imputed as the prior year value times the cell median growth rate. **Books, serial backfiles and other paper materials added** was imputed as **books, serial backfiles and other paper materials held** times the cell median ratio **books, serial backfiles and other paper materials added to books, serial backfiles and other paper materials held**.

Audiovisual materials held was imputed as the prior year value times the cell median growth rate. **Audiovisual materials added** was imputed as **audiovisual materials held** times the cell median ratio **audiovisual materials added to audiovisual materials held**.

Current serial subscriptions held was imputed as the prior year value times the cell median growth rate. **Current serial subscriptions added** was imputed as

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current serial subscriptions held times the cell median ratio **current serial subscriptions added** to **current serial subscriptions held**.

Each item status flags was set as 'P'.

Imputing for Partial Non-Respondents When Prior Year Data was Available

If **microforms held** and **microforms added** each had status flag 'N', then **microforms held** was imputed with its prior year value times the cell median growth rate.

The status flag for **microforms held** was set as 'P'.

If **microforms held** had status flag 'N' and **microforms added** was greater than zero, then **microforms held** was imputed as **microforms added** times the inverse of the cell median ratio **microforms added** to **microforms held**.

The status flag for **microforms held** was set as 'I'.

If **microforms held** had status flag 'N' and **microforms added** was zero with status flag 'R', 'C', or 'A', or 'Z', then **microforms held** was imputed with its prior year value.

The status flag for **microforms held** was set as 'P'.

If **microforms added** had status flag 'N', then **microforms added** was imputed as **microforms held** times the cell median ratio **microforms added** to **microforms held**.

The status flag for **microforms added** was set as 'I'.

If its status flag was 'N', **books, serial backfiles and other paper materials held** was imputed as the prior year value times the cell median growth rate. If its status flag was 'N', **books, serial backfiles and other paper materials added** was imputed as **books, serial backfiles and other paper materials held** times the cell median ratio **books, serial backfiles and other paper materials added** to **books, serial backfiles and other paper materials held**.

If its status flag was 'N', **audiovisual materials held** was imputed as the prior year value times the cell median growth rate. If its status flag was 'N', **audiovisual materials added** was imputed as **audiovisual materials held** times the cell median ratio **audiovisual materials added** to **audiovisual materials held**.

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If its status flag was ‘N’, **current serial subscriptions held** was imputed as the prior year value times the cell median growth rate. If its status flag was ‘N’, **current serial subscriptions added** was imputed as **current serial subscriptions held** times the cell median ratio **current serial subscriptions added** to **current serial subscriptions held**.

For each of the items **books, serial backfiles and other paper materials held, audiovisual materials held, and current serial subscriptions held**, if the item was imputed, then its status flag was set as ‘P’.

For each of the items **books, serial backfiles and other paper materials added, audiovisual materials added, and current serial subscriptions added**, if the item was imputed, then its status flag was set as ‘I’.

Imputing for Total Non-Respondents When Prior Year Data was Not Available

Microforms held was imputed with its cell median. **Microforms added** was imputed as **microforms held** times the cell median ratio **microforms added** to **microforms held**.

If **books, serial subscriptions and other paper material expenditures** was zero with status flag ‘R’, ‘C’, ‘A’, or ‘Z’, then **books, serial subscriptions and other paper materials held** was imputed as its cell median. **Books, serial subscriptions and other paper materials added** was imputed as **books, serial subscriptions and other paper materials held** times the cell median ratio **books, serial subscriptions and other paper materials added** to **books, serial subscriptions and other paper materials held**.

If **books, serial subscriptions and other material expenditures** was greater than zero, then **books, serial subscriptions and other paper materials held** was imputed as **books, serial subscriptions and other paper material expenditures** times the cell median ratio **books, serial backfiles and other paper materials held** to **books, serial backfiles and other material expenditures**.

If **audiovisual expenditures** was zero with status flag ‘R’, ‘C’, ‘A’, or ‘Z’, then **audiovisual materials held** was imputed as its cell median. **Audiovisual materials added** was imputed as **audiovisual materials held** times the cell median ratio **audiovisual materials added** to **audiovisual materials held**.

If **audiovisual expenditures** was greater than zero, then **audiovisual materials held** was imputed as **audiovisual expenditures** times the cell median ratio **audiovisual materials held** to **audiovisual expenditures**. **Audiovisual materials added** was imputed as **audiovisual materials held** times the cell median ratio **audiovisual materials added** to **audiovisual materials held**.

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If **current serial subscription expenditures** was zero with status flag ‘R’, ‘C’, ‘A’, or ‘Z’, then **current serial subscriptions held** was imputed as its cell median. **Current serial subscriptions added** was imputed as **current serial subscriptions held** times the cell median ratio **current serial subscriptions added** to **current serial subscriptions held**.

If **current serial subscription expenditures** was greater than zero, then **current serial subscriptions held** was imputed as **current serial subscription expenditures** times the cell median ratio **current serial subscriptions held** to **current serial subscription expenditures**. **Current serial subscriptions added** was imputed as **current serial subscriptions held** times the cell median ratio **current serial subscriptions added** to **current serial subscriptions held**.

The status flag for each item was set as ‘I’.

Imputing for Partial Non-Respondents When Prior Year Data was Not Available

If **microforms held** and **microforms added** each had status flag ‘N’, then **microforms held** was imputed with its cell median value.

If **microforms held** had status flag ‘N’ and **microforms added** was greater than zero, then **microforms held** was imputed as **microforms added** times the inverse of the cell median ratio **microforms added** to **microforms held**.

If **microforms held** had status flag ‘N’ and **microforms added** was zero with status flag ‘R’, ‘C’, or ‘A’, or ‘Z’, then **microforms held** was imputed with its cell median value.

If **microforms added** had status flag ‘N’, then **microforms added** was imputed as **microforms held** times the cell median ratio **microforms added** to **microforms held**.

If **books, serial subscriptions and other paper material expenditures** was zero with status flag ‘R’, ‘C’, ‘A’, or ‘Z’ and **books, serial subscriptions and other paper materials held** had status flag ‘N’, then **books, serial subscriptions and other paper materials held** was imputed with its cell median value.

If **books, serial subscriptions and other paper material expenditures** was zero with status flag ‘R’, ‘C’, ‘A’, or ‘Z’ and **books, serial subscriptions and other paper materials added** had status flag ‘N’, then **books, serial subscriptions and other paper materials added** was imputed as **books, serial subscriptions and other paper materials held** times the cell median ratio **books, serial**

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subscriptions and other paper materials added to books, serial subscriptions and other paper materials held.

If **books, serial subscriptions and other material expenditures** was greater than zero, **books, serial subscriptions and other paper materials added** was greater than zero, and **books, serial subscriptions and other paper materials held** had status flag 'N', then **books, serial subscriptions and other paper materials held** was imputed as **books, serial subscriptions and other paper materials added** times the inverse of the cell median ratio **books, serial subscriptions and other paper materials added to books, serial subscriptions and other paper materials held**.

If **books, serial subscriptions and other material expenditures** was greater than zero, **books, serial subscriptions and other paper materials added** was zero with its status flag 'R', 'C', 'A', or 'Z', and **books, serial subscriptions and other paper materials held** had status flag 'N', then **books, serial subscriptions and other paper materials held** was imputed as **books, serial subscriptions and other material expenditures** times the cell median ratio **books, serial subscriptions and other paper materials held to books, serial subscriptions and other material expenditures**.

If **books, serial subscriptions and other material expenditures** was greater than zero, **books, serial subscriptions and other paper materials added** had status flag 'N', and **books, serial subscriptions and other paper materials held** was greater than zero with its status flag 'R', 'C', 'A', or 'Z', then **books, serial subscriptions and other paper materials added** was imputed as **books, serial subscriptions and other paper materials held** times the cell median ratio **books, serial subscriptions and other paper materials added to books, serial subscriptions and other paper materials held**.

If **books, serial subscriptions and other material expenditures** was greater than zero, **books, serial subscriptions and other paper materials added** had status flag 'N', and **books, serial subscriptions and other paper materials held** was zero with status flag 'R', 'C', 'A', or 'Z', then **books, serial subscriptions and other paper materials added** was imputed as zero.

If **books, serial subscriptions and other material expenditures** was greater than zero, **books, serial subscriptions and other paper materials added** had status flag 'N', and **books, serial subscriptions and other paper materials held** had status flag 'N', then **books, serial subscriptions and other paper materials held** was imputed as **books, serial subscriptions and other material expenditures** times the cell median ratio **books, serial subscriptions and other paper materials held to books, serial subscriptions and other material expenditures**, and **books, serial subscriptions and other paper materials added** was imputed

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as **books, serial subscriptions and other paper materials held** times the cell median ratio **books, serial subscriptions and other paper materials added** to **books, serial subscriptions and other paper materials held**.

If **audiovisual expenditures** was zero with status flag ‘R’, ‘C’, ‘A’, or ‘Z’ and **audiovisual materials held** had status flag ‘N’, then **audiovisual materials held** was imputed with its cell median value.

If **audiovisual expenditures** was zero with status flag ‘R’, ‘C’, ‘A’, or ‘Z’ and **audiovisual materials added** had status flag ‘N’, then **audiovisual materials added** was imputed as **audiovisual materials held** times the cell median ratio **audiovisual materials added** to **audiovisual materials held**.

If **audiovisual expenditures** was greater than zero, **audiovisual materials added** was greater than zero, and **audiovisual materials held** had status flag ‘N’, then **audiovisual materials held** was imputed as **audiovisual materials added** times the inverse of the cell median ratio **audiovisual materials added** to **audiovisual materials held**.

If **audiovisual expenditures** was greater than zero, **audiovisual materials added** was zero with status flag ‘R’, ‘C’, ‘A’, or ‘Z’, and **audiovisual materials held** had status flag ‘N’, then **audiovisual materials held** was imputed as **audiovisual expenditures** times the cell median ratio **audiovisual materials held** to **audiovisual expenditures**.

If **audiovisual expenditures** was greater than zero, **audiovisual materials added** had status flag ‘N’, and **audiovisual materials held** was greater than zero with status flag ‘R’, ‘C’, ‘A’, or ‘Z’, then **audiovisual materials added** was imputed as **audiovisual materials held** times the cell median ratio **audiovisual materials added** to **audiovisual materials held**.

If **audiovisual expenditures** was greater than zero, **audiovisual materials added** had status flag ‘N’, and **audiovisual materials held** was zero with status flag ‘R’, ‘C’, ‘A’, or ‘Z’, then **audiovisual materials added** was imputed as zero.

If **audiovisual expenditures** was greater than zero, **audiovisual materials added** had status flag ‘N’, and **audiovisual materials held** had status flag ‘N’, then **audiovisual materials held** was imputed as **audiovisual expenditures** times the cell median ratio **audiovisual materials held** to **audiovisual expenditures**, and **audiovisual materials added** was imputed as **audiovisual materials held** times the cell median ratio **audiovisual materials added** to **audiovisual materials held**.

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If **current serial subscription expenditures** was zero with status flag ‘R’, ‘C’, ‘A’, or ‘Z’ and **current serial subscriptions held** had status flag ‘N’, then **current serial subscriptions held** was imputed with its cell median value.

If **current serial subscription expenditures** was zero with status flag ‘R’, ‘C’, ‘A’, or ‘Z’ and **current serial subscriptions added** had status flag ‘N’, then **current serial subscriptions added** was imputed as **current serial subscriptions held** times the cell median ratio **current serial subscriptions added** to **current serial subscriptions held**.

If **current serial subscription expenditures** was greater than zero, **current serial subscriptions added** was greater than zero, and **current serial subscriptions held** had status flag ‘N’, then **current serial subscriptions held** was imputed as **current serial subscriptions added** times the inverse of the cell median ratio **current serial subscriptions added** to **current serial subscriptions held**.

If **current serial subscription expenditures** was greater than zero, **current serial subscriptions added** was zero with status flag ‘R’, ‘C’, ‘A’, or ‘Z’, and **current serial subscriptions held** had status flag ‘N’, then **current serial subscriptions held** was imputed as **current serial subscription expenditures** times the cell median ratio **current serial subscriptions held** to **current serial subscription expenditures**.

If **current serial subscription expenditures** was greater than zero, **current serial subscriptions added** had status flag ‘N’, and **current serial subscriptions held** was greater than zero with status flag ‘R’, ‘C’, ‘A’, or ‘Z’, then **current serial subscriptions added** was imputed as **current serial subscriptions held** times the cell median ratio **current serial subscriptions added** to **current serial subscriptions held**.

If **current serial subscription expenditures** was greater than zero, **current serial subscriptions added** had status flag ‘N’, and **current serial subscriptions held** was zero with status flag ‘R’, ‘C’, ‘A’, or ‘Z’, then **current serial subscriptions added** was imputed as zero.

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If **current serial subscription expenditures** was greater than zero, **current serial subscriptions added** had status flag ‘N’, and current serial subscriptions held had status flag ‘N’, then **current serial subscriptions held** was imputed as **current serial subscription expenditures** times the cell median ratio **current serial subscriptions held** to **current serial subscription expenditures**, and **current serial subscriptions added** was imputed as **current serial subscriptions held** times the cell median ratio **current serial subscriptions added** to **current serial subscriptions held**.

For each imputed item, the status flag was set as ‘I’.

I. Group 7 Imputation

There were four items imputed in this group: **e-books added**, **e-books held**, **electronic reference sources and aggregation services added**, and **electronic reference sources and aggregation services held**.

Imputing for Total Non-Respondents When Prior Year Data was Available

E-books held was imputed as its prior year value times the cell median growth rate. **E-books added** was imputed as **e-books held** times the cell median ratio **e-books added** to **e-books held**.

Electronic reference sources held was imputed as the current year cell median. **Electronic reference sources added** was imputed as **electronic reference sources held** times the cell median ratio **electronic reference sources added** to **electronic reference sources held**. (Note: **Electronic reference sources added** and **electronic reference sources held** were new in 2004, so we could not impute using prior year data.)

The item status flags for **e-books added** and **e-books held** were set as ‘P’. The status flags for **electronic reference sources added** and **electronic reference sources held** were set as ‘I’.

Imputing for Partial Non-Respondents When Prior Year Data was Available

If its status flag was ‘N’, then **e-books held** was imputed as its prior year value times the cell median growth rate. If its status flag was ‘N’, **e-books added** was imputed as **e-books held** times the cell median ratio **e-books added** to **e-books held**.

If its status flag was ‘N’, then **electronic reference sources held** was imputed as the current year cell median. If its status flag was ‘N’, **electronic reference sources added** was imputed as **electronic reference sources held** times the cell

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median ratio **electronic reference sources added** to **electronic reference sources held**.

If they required imputation, the item status flags for **e-books added** and **e-books held** were set as ‘P’. If they required imputation, the status flags for **electronic reference sources added** and **electronic reference sources held** were set as ‘I’.

Imputing for Total Non-Respondents When Prior Year Data was Not Available

E-books held was imputed as the current year cell median. **E-books added** was imputed as **e-books held** times the cell median ratio **e-books added** to **e-books held**.

Electronic reference sources held was imputed as the current year cell median. **Electronic reference sources added** was imputed as **electronic reference sources held** times the cell median ratio **electronic reference sources added** to **electronic reference sources held**.

An imputed item’s status flag was set as ‘I’.

Imputing for Partial Non-Respondents When Prior Year Data was Not Available

If its status flag was ‘N’, **e-books held** was imputed as the current year cell median. If its status flag was ‘N’, **e-books added** was imputed as **e-books held** times the cell median ratio **e-books added** to **e-books held**. If **e-books added** was greater than **e-books held**, then **e-books held** became **e-books added** times the inverse of the cell median ratio **e-books added** to **e-books held**.

If its status flag was ‘N’, **electronic reference sources held** was imputed as the current year cell median. If its status flag was ‘N’, **electronic reference sources added** was imputed as **electronic reference sources held** times the cell median ratio **electronic reference sources added** to **electronic reference sources held**. If **electronic reference sources added** was greater than **electronic reference sources held**, then **electronic reference sources held** became **electronic reference sources added** times the inverse of the cell median ratio **electronic reference sources added** to **electronic reference sources held**.

An imputed item’s status flag was set as ‘I’.

J. Group 8 Imputation

There were seven items to impute: **returnable interlibrary loans provided to other libraries**, **non-returnable interlibrary loans provided to other libraries**,

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total interlibrary loans provided to other libraries, returnable interlibrary loans received from other libraries, non-returnable interlibrary loans received from other libraries, total interlibrary loans received from other libraries, and documents delivered from commercial services.

Imputing for Total Non-Respondents When Prior Year Data was Available

Returnable interlibrary loans provided to other libraries, non-returnable interlibrary loans provided to other libraries, returnable interlibrary loans received from other libraries, non-returnable interlibrary loans received from other libraries, and documents delivered from commercial services was imputed using the item's prior year value multiplied by the cell median growth rate for the item. **Returnable interlibrary loans provided to other libraries and non-returnable interlibrary loans provided to other libraries** were summed to get **total interlibrary loans provided to other libraries**. **Returnable interlibrary loans received from other libraries and non-returnable interlibrary loans received from other libraries** were summed to get **total interlibrary loans received from other libraries**.

In each case above, the item status flag was set as 'P'.

Imputing for Partial Non-Respondents When Prior Year Data was Available

If an item status flag was 'N', that item was imputed using the item's prior year value multiplied by the cell median growth rate for the item.

An imputed item's status flag was set as 'P'.

Imputing for Total Non-Respondents When Prior Year Data was Not Available

Returnable interlibrary loans provided to other libraries, non-returnable interlibrary loans provided to other libraries, returnable interlibrary loans received from other libraries, non-returnable interlibrary loans received from other libraries, and documents delivered from commercial services was set to its current year cell median value. **Returnable interlibrary loans provided to other libraries and non-returnable interlibrary loans provided to other libraries** were summed to get **total interlibrary loans provided to other libraries**. **Returnable interlibrary loans received from other libraries and non-returnable interlibrary loans received from other libraries** were summed to get **total interlibrary loans received from other libraries**.

In each case above, the item status flag was set as 'T'.

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Imputing for Partial Non-Respondents When Prior Year Data was Not Available

If an item's status flag was 'N', that item was imputed as the item's cell median value.

An imputed item's status flag was set as 'I'.

Additional Steps

After imputation, the imputed values were examined to make sure they are reasonable. If not, they may have undergone one of two possible additional steps:

1. If **total interlibrary loans provided to other libraries** did not equal the sum of **returnable interlibrary loans provided to other libraries** and **non-returnable interlibrary loans provided to other libraries**, then **returnable interlibrary loans provided to other libraries** was set to **total interlibrary loans provided to other libraries** multiplied by the cell median ratio of **returnable interlibrary loans provided to other libraries/total interlibrary loans provided to other libraries**. **Non-returnable interlibrary loans provided to other libraries** then became the difference between **total interlibrary loans provided to other libraries** and **returnable interlibrary loans provided to other libraries**.
2. If **total interlibrary loans received from other libraries** did not equal the sum of **returnable interlibrary loans received from other libraries** and **non-returnable interlibrary loans received from other libraries**, then **returnable interlibrary loans received from other libraries** was set to **total interlibrary loans received from other libraries** multiplied by the cell median ratio of **returnable interlibrary loans received from other libraries/total interlibrary loans received from other libraries**. **Non-returnable interlibrary loans received from other libraries** then became the difference in **total interlibrary loans received from other libraries** and **returnable interlibrary loans received from other libraries**.

K. Group 9 Imputation

There were two items to impute: **general circulation transactions** and **reserve circulation transactions**.

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Imputing for Total Non-Respondents When Prior Year Data was Available

Each item was imputed with its prior year value multiplied by its cell median growth rate.

Each item status flags was set as ‘P’.

Imputing for Partial Non-Respondents When Prior Year Data was Available

If an item had a status flag of ‘N’, it was imputed with its prior year value multiplied by its cell median growth rate.

For each imputed item, its status flag was set as ‘P’.

Imputing for Total Non-Respondents When Prior Year Data was Not Available

Each item was set to its current year cell median value.

Each item status flags was set as ‘I’.

Imputing for Partial Non-Respondents When Prior Year Data was Not Available

If its status flag was ‘N’, an item was set to its current year cell median value.

For each imputed item, its status flag was set as ‘I’.

L. Group 10 Imputation

There were two items to impute: **number of presentations** and **total attendance at all presentations**.

Imputing for Total Non-Respondents When Prior Year Data was Available

Each item was imputed with its prior year value multiplied by its cell median growth rate.

Each item’s status flag was set as ‘P’.

Imputing for Partial Non-Respondents When Prior Year Data was Available

If an item had a status flag of ‘N’, it was imputed with the prior year value multiplied by its cell median growth rate. If **number of presentations** was greater than **total attendance at all presentations**, then **total attendance at all presentations** was re-imputed as **number of presentations** multiplied by the cell

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median ratio of **total attendance at all presentations** to **number of presentations**.

Each imputed item's status flag was set as 'P'.

Imputing for Total Non-Respondents When Prior Year Data was Not Available

Each item was imputed with its current year cell median value.

Each item status flag was set to 'I'.

Imputing for Partial Non-Respondents When Prior Year Data was Not Available

If an item had a status flag of 'N', it was imputed with its cell median value. If **number of presentations** was greater than **total attendance at all presentations**, then **total attendance at all presentations** was re-imputed as **number of presentations** multiplied by the cell median ratio of **total attendance at all presentations** to **number of presentations**.

Each item's status flag was set as 'I'.

M. Group 11 Imputation

There were three items to impute: **number of weekly public service hours, gate count in a typical week**, and **reference transactions in a typical week**.

Imputing for Total Non-Respondents When Prior Year Data was Available

Each item was imputed using its prior year value multiplied by its cell median growth rate.

In each case, the item status flag was set as 'P'.

Imputing for Partial Non-Respondents When Prior Year Data was Available

If an item had status flag 'N', then it was imputed using its prior year value multiplied by its cell median growth rate.

For each imputed case, item the status flag was set as 'P'.

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Imputing for Total Non-Respondents When Prior Year Data was Not Available

Each item was imputed as its current year cell median value.

In each case, the item status flag was set as 'I'.

Imputing for Partial Non-Respondents When Prior Year Data was Not Available

If an item had status flag of 'N', then it was imputed as the current year cell median value for that item.

For each imputed case, the item status flag was set as 'I'.

Additional Steps

After imputation, the imputed values were examined to make sure they are reasonable. If not, they may have undergone one of four possible additional steps:

1. If **number of weekly public service hours** was greater than 168 with status flag 'P', then we re-imputed, carrying forward just the prior year value.
2. If **number of weekly public service hours** was zero with status flag 'P', then it was re-imputed as the cell median of **gate count in a typical week** multiplied by the inverse of the cell median ratio **gate count in a typical week to number of weekly public service hours**. The status flag for **number of weekly public service hours** was changed to 'I'.
3. If **gate count in a typical week** was zero with status flag 'P', then it was re-imputed as the cell median of **number of weekly public service hours** multiplied by the cell median ratio **gate count in a typical week to number of weekly public service hours**. The status flag for **gate count in a typical week** was changed to 'I'.
4. If **reference transactions in a typical week** was zero with status flag 'P', it was re-imputed as the cell median of **number of weekly public service hours** multiplied by the cell median ratio of **reference transactions in a typical week to number of weekly public service hours**. The status flag for **reference transactions in a typical week** was changed to 'I'.

VI. Post-Imputation Steps

Before the final, imputed file left ESMPD, variable changes were made, file specifications were checked, and reports were generated for GOVS.

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A. Variables

The following changes were made after imputations:

- If the institution did not respond to data and screening questions, then the institution's **response status code** (STATUS) was changed to indicate that the institution was an imputed non-respondent (i.e., **response status code** 3 was changed to 4).
- If the institution was a non-respondent to data questions (i.e., its **response status code** was 6), then its **response status code** was changed to 4.
- If the **parent-child indicator** (CYPARCH) was 2 (i.e., the institution's data was reported by another institution) and **response status code** was 3 or 6, then **response status code** was changed to that of the parent institution.
- The **imputation date** (IMPDATE) and **NCES date** (NCESDATE) were set to the most recent date and time that the imputations were run.
- We made sure there were no institutions with **response status code** 6 on the final file. Any remaining 6's were changed to 3's.

[Note: The variable naming convention approved by the NCES was used. Quotation marks indicate a character variable. No quotation marks indicate a numeric variable.] (*For definitions, see subsection IX*)

B. Files

The imputed files that were sent to GOVS for review:

- Followed the pre-determined variable naming convention (i.e., every status flag will start with "x," every prior year item will start with "py," etc.). For an entire list of the variable names, see GOVS document "Academic Library Survey (ALS)-2004 Data Elements."
- Were sent as Access 2000 tables

C. Output

During the imputation process, we generated the following output for each imputation group:

- Group medians, median distribution ratios and median growth ratios for each imputation cell
- A list of units in the base
- A list of units excluded from the base

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- A list of units that required imputation (by imputation method)
- A list of units that required imputation (by imputation cell)
- A list of units excluded from imputation

After imputations, we generated the following tables to use to compare overall prior and current year ALS totals for survey Parts A-F (*See Appendix G*):

- Item Totals and Percentage Change From 2002 Reported to 2004 Reported
- Item Totals and Percentage Change From 2002 Imputed to 2004 Imputed
- Item Totals and Percentage Change From 2004 Reported to 2004 Imputed

VII. Problems and Recommendations

Three entirely electronic libraries reported for FY 2004. These libraries were imputed by hand for FY 2004. We anticipate more electronic libraries to open prior to the next survey cycle. We may want to develop separate imputation programs prior to the next survey cycle.

We also anticipate an increase in on-line/virtual activities among all libraries. We will continue to recommend research that addresses the reporting and imputation on-line transactions for non-entirely electronic facilities.

Since GOVS requests files formatted as an ACCESS database, ESMPD should use SAS V9 for the next survey cycle. Straightforward ACCESS database manipulation with SAS software requires Version 9 or above.

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VIII. 2004 ALS Fringe Benefit Imputation Rules

CY Y/N*	Y/N flag	CY data	Data flag	PY Y/N**	GOVS action	ESMPD impute	Comments
1(Y)	R	> 0			none	no	
1(Y)	R	0	R	Y	change Data stflg = N	yes	
1(Y)	R	0	R	N	set CY Y/N = 2[A] change data to 0[S]	no	
1(Y)	R	0 or b***	N	Y	none	yes	
1(Y)	R	0 or b	N	N	set CY Y/N = 2[A] change data to 0[S]	no	3
1(Y)	R	0 or b	N	B	set data to 0 if blank	yes	
2(N)	R	> 0			set CY Y/N = 1[A]	no	2
2(N)	R	0	R		change data to 0[S]	no	1
2(N)	R	0 or b	N	Y	change data to 0[S]	no	1
2(N)	R	0 or b	N	N	change data to 0[S]	no	1
2(N)	R	0 or b	N	B	change data to 0[S]	no	1
b	N	> 0			set CY Y/N = 1[C]	no	2
b	N	0	R		set CY Y/N = 2[C] change data to 0[S]	no	3
b	N	0 or b	N	Y	set CY Y/N = 1[C]	yes	
b	N	0 or b	N	N	set CY Y/N = 2[C] change data to 0[S]	no	3
b	N	0 or b	N	b or no unitid match	set CY Y/N = 2[C] change data to 0[S]	no	3

*Current year yes/no. 1 is yes. 2 is no. **Prior year yes/no. ***An item was left blank.

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IX. Items Included in the Criteria for Exclusion from the ‘Z’ program, Base, or Imputation

Item	Code	Definition
ACT – Status of the institution	A	Institution active and not an add
	C	Merged with another institution
	D	Institution is out of business
	H	Areas search on hold pending verification
	I	Inactive
	M	Closed during the current year
	N	Added during the current year
	O	Not within the scope of the universe
	P	Potential add
	Q	Potential restore
	R	Restored to the current universe
	S	Split into more than one institution
	U	Duplicate; UNITID previously assigned
	W	Out-of-scope, potential add
	X	Potential restore not within scope of IPEDS
Z	Universe III, out-of-scope	
CKIN – Current check-in action on the data base	01	Data received on Internet (FTP/WWW)
	02	Data received on Internet (resubmission)
	07	Data reported (parent)
	08	Data reported by parent-child (combined)
	09	Delete (closed)
	11	Not applicable (answered “No” to at least one of the screening questions)
	15	Refusal
	99	Initialization
CYPARCH – Current year parent/child indicator	1	Parent (Contains data for more than one institution)
	2	Child (Data reported on another institution’s record)
	blank	Not applicable
DEGGRANT – Degree granting status	1	Yes
	2	No
FIPS – FIPS state code		
LIBFAC – Library facilities at institution (from the IC file)	1	Have own library
	2	Do not have own library but support a shared library with other institution(s)
	3	Neither of the above

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Item	Code	Definition
MAILSEC – Sector of institution at start of survey		
OPEFLAG – OPE eligibility indicator	1	Institution participates in Title IV federal financial aid programs
	2	Branch campus of a main campus that participates in Title IV
	3	Deferment only, limited participation
	4	New participant (became eligible during the Fall collection-IPEDS)
	5	Not currently participating in Title IV, has an OPE ID number
	6	Not participating in Title IV, does not have an OPE ID number
PYPARCH – Prior year parent/child indicator	1	Parent (Contains data for more than one institution)
	2	Child (Data reported on another institution’s record)
	blank	Not applicable
PYSTATUS – Prior year response status code of institution	1	Respondent
	3	Nonrespondent to data and screening questions, not imputed
	4	Nonrespondent, imputed
	5	Nonrespondent to data (screening questions reported, out-of-scope), not imputed
	6	Nonrespondent to data (screening questions reported, in-scope), not imputed
SECTOR – Sector of institution (based on response to IC survey)	0	0-Administrative unit only (central, system, or corporate office)
	1	Public, 4+ years
	2	Private, nonprofit, 4+ years
	3	Private, for profit, 4+ years
	4	Public, 2-year
	5	Private, nonprofit, 2-year
	6	Private, for profit, 2-year
	7	Public, less than 2-year
	8	Private, nonprofit, less than 2-year
9	Private, for profit, less than 2-year	

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Item	Code	Definition
STATUS – Response status code of institution	1	Respondent
	3	Nonrespondent to data and screening questions, not imputed
	4	Nonrespondent, imputed
	5	Nonrespondent to data (screening questions reported, out-of-scope), not imputed
	6	Nonrespondent to data (screening questions reported, in-scope), not imputed
Item status flags	A	Analyst adjusted reported value
	C	Analyst corrected a cell that was blank
	I	Imputed using a method other than prior year data
	N	Not reported
	P	Imputed using prior year data
	R	Reported
	S	Used in the “Z” program as a temporary flag, changed back to ‘N’ or changed to ‘Z’ after further examination of the data
	T	Total replaced with the sum of its detail
	Z	Implied reported zero value
H	Data suppressed	

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Academic Libraries Survey (ALS) 2004

X. Imputation Groups

Group	Data Items
1	Branch and independent libraries
2	Librarians Other profession staff Total librarian and other professional FTEs Total librarian and other professional staff salaries & wages All other paid FTEs All other paid staff salaries & wages Student assistant FTEs Student assistant salaries & wages Total FTEs Total FTEs salaries & wages
3	Are employee fringe benefits paid from the library budget? Employee fringe benefits
4	Book, serial backfile and other material expenditures Current serial subscription expenditures Document delivery/interlibrary loans expenditures Preservation expenditures Other information resources expenditures Computer hardware and software expenditures Bibliographic utility, network and consortia expenditures All other operating expenditures Total expenditures
5	Electronic expenditures Audiovisual expenditures Electronic serial expenditures
6	Books, serial backfiles and other paper materials added Books, serial backfiles and other paper materials held Microforms added Microforms held Audiovisual materials added Audiovisual materials held Current serial subscriptions added Current serial subscriptions held
7	E-books added E-books held Electronic reference sources and aggregation services added Electronic reference sources and aggregation services held

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Group	Data Items
8	Returnable interlibrary loans provided to other libraries Non-returnable interlibrary loans provided to other libraries Total interlibrary loans provided to other libraries Returnable interlibrary loans received from other libraries Non-returnable interlibrary loans received from other libraries Total interlibrary loans received from other libraries Documents delivered from commercial services
9	General circulation transactions Reserve circulation transactions
10	Number of presentations Total attendance at all presentations
11	Number of weekly public service hours Gate count in a typical week Reference transactions in a typical week

Appendix F—Response Rate Tables
Academic Libraries Survey (ALS) 2004

These tables provide detailed unit response counts.

Appendix F - Response Rate Tables
Academic Libraries Survey (ALS) 2004

Table F-1. Number and percentage of responding academic libraries by level and control of institution, by item: 2004

	Total post-secondary degree granting institutions	Percent	Four-year institutions								Less than four-year		Public		Private	
			Total four-year institutions		Highest level of degree						Total responding	Percent	Total responding	Percent	Total responding	Percent
			Total responding	Percent	Doctor's		Master's		Bachelor's							
					Total responding	Percent	Total responding	Percent	Total responding	Percent	Total responding	Percent				
All institutions	3,653	100.0	2,217	100.0	597	100.0	918	100.0	668	100.0	1,436	100.0	1,581	100.0	2,072	100.0
Responding libraries	3,178	87.0	1,968	88.8	545	91.3	817	89.0	578	86.5	1,210	84.3	1,458	92.2	1,720	83.0
Part B-Library staff																
Number of FTEs																
Librarians	3,166	86.7	1,965	88.6	544	91.1	816	88.9	577	86.4	1,201	83.6	1,454	92.0	1,712	82.6
Other professional staff	3,165	86.6	1,965	88.6	544	91.1	816	88.9	577	86.4	1,200	83.6	1,453	91.9	1,712	82.6
Total librarians and other professional staff	3,165	86.6	1,965	88.6	544	91.1	816	88.9	577	86.4	1,200	83.6	1,453	91.9	1,712	82.6
All other paid staff	3,163	86.6	1,962	88.5	541	90.6	816	88.9	577	86.4	1,201	83.6	1,454	92.0	1,709	82.5
Student assistants	3,162	86.6	1,961	88.5	541	90.6	816	88.9	576	86.2	1,201	83.6	1,454	92.0	1,708	82.4
Total FTE staff	3,161	86.5	1,961	88.5	541	90.6	816	88.9	576	86.2	1,200	83.6	1,453	91.9	1,708	82.4
Salaries and Wages																
Total librarians and other professional staff	3,108	85.1	1,935	87.3	537	89.9	803	87.5	569	85.2	1,173	81.7	1,439	91.0	1,669	80.6
All other paid staff	3,123	85.5	1,937	87.4	535	89.6	804	87.6	572	85.6	1,186	82.6	1,444	91.3	1,679	81.0
Student assistants	3,077	84.2	1,919	86.6	532	89.1	797	86.8	564	84.4	1,158	80.6	1,419	89.8	1,658	80.0
Total salaries and wages	3,052	83.5	1,908	86.1	530	88.8	789	85.9	563	84.3	1,144	79.7	1,415	89.5	1,637	79.0
Employee fringe benefits	3,121	85.4	1,942	87.6	534	89.4	810	88.2	572	85.6	1,179	82.1	1,434	90.7	1,687	81.4
Part C-Library expenditures																
Total salaries and wages	3,052	83.5	1,908	86.1	530	88.8	789	85.9	563	84.3	1,144	79.7	1,415	89.5	1,637	79.0
Information resources:																
Books, serial backfiles and other materials																
Electronic	2,871	78.6	1,793	80.9	494	82.7	747	81.4	526	78.7	1,078	75.1	1,340	84.8	1,531	73.9
Audiovisual	3,002	82.2	1,858	83.8	504	84.4	782	85.2	546	81.7	1,144	79.7	1,406	88.9	1,596	77.0
Current serials	3,087	84.5	1,931	87.1	535	89.6	801	87.3	568	85.0	1,156	80.5	1,434	90.7	1,653	79.8
Electronic serials	2,952	80.8	1,855	83.7	516	86.4	779	84.9	533	79.8	1,097	76.4	1,390	87.9	1,562	75.4
Other information resources:																
Document delivery/interlibrary loan	3,095	84.7	1,933	87.2	533	89.3	804	87.6	569	85.2	1,162	80.9	1,433	90.6	1,662	80.2
Preservation	3,092	84.6	1,931	87.1	532	89.1	804	87.6	568	85.0	1,161	80.8	1,432	90.6	1,660	80.1
Other expenditures for information resources																
Operating expenditures:	3,089	84.6	1,929	87.0	531	88.9	804	87.6	567	84.9	1,160	80.8	1,429	90.4	1,660	80.1
Computer hardware and software	3,093	84.7	1,932	87.1	534	89.4	803	87.5	568	85.0	1,161	80.8	1,435	90.8	1,658	80.0
Bibliographic utilities, networks and consortia	3,095	84.7	1,934	87.2	534	89.4	803	87.5	570	85.3	1,161	80.8	1,434	90.7	1,661	80.2
All other operating expenditures	3,090	84.6	1,932	87.1	532	89.1	804	87.6	569	85.2	1,158	80.6	1,433	90.6	1,657	80.0
Total expenditures	3,010	82.4	1,889	85.2	524	87.8	781	85.1	558	83.5	1,121	78.1	1,405	88.9	1,605	77.5

See notes at end of table.

Appendix F - Response Rate Tables
Academic Libraries Survey (ALS) 2004

Table F-1. Number and percentage of responding academic libraries by level and control of institution, by item: 2004—Continued

	Total post-secondary degree granting institutions	Percent	Four-year institutions								Less than four-year		Public		Private	
			Total four-year institutions		Highest level of degree						Total res-ponding	Percent	Total res-ponding	Percent	Total res-ponding	Percent
			Total res-ponding	Percent	Doctor's		Master's		Bachelor's							
					Total res-ponding	Percent	Total res-ponding	Percent	Total res-ponding	Percent	Total res-ponding	Percent				
Part D-Library collections																
Library collection entirely electronic	3,653	100.0	2,217	100.0	597	100.0	918	100.0	668	100.0	1,436	100.0	1,581	100.0	2,072	100.0
Books, serial backfiles and other paper materials, added	3,068	84.0	1,923	86.7	535	89.6	802	87.4	559	83.7	1,145	79.7	1,425	90.1	1,643	79.3
Books, serial backfiles and other paper materials, eofy	3,073	84.1	1,924	86.8	534	89.4	801	87.3	562	84.1	1,149	80.0	1,427	90.3	1,646	79.4
E-Books, added	2,921	80.0	1,830	82.5	497	83.2	765	83.3	541	81.0	1,091	76.0	1,367	86.5	1,554	75.0
E-Books, EOFY	2,859	78.3	1,820	82.1	509	85.3	757	82.5	531	79.5	1,039	72.4	1,341	84.8	1,518	73.3
Microforms, added	2,941	80.5	1,854	83.6	517	86.6	782	85.2	528	79.0	1,087	75.7	1,382	87.4	1,559	75.2
Microforms, eofy	2,936	80.4	1,864	84.1	525	87.9	781	85.1	532	79.6	1,072	74.7	1,385	87.6	1,551	74.9
Audiovisual materials, added	3,027	82.9	1,889	85.2	521	87.3	787	85.7	554	82.9	1,138	79.2	1,415	89.5	1,612	77.8
Audiovisual materials, EOFY	3,028	82.9	1,900	85.7	527	88.3	790	86.1	557	83.4	1,128	78.6	1,410	89.2	1,618	78.1
Current serial subscriptions, added	3,029	82.9	1,893	85.4	520	87.1	790	86.1	555	83.1	1,136	79.1	1,405	88.9	1,624	78.4
Current serial subscriptions, EOFY	3,068	84.0	1,923	86.7	533	89.3	800	87.1	562	84.1	1,145	79.7	1,424	90.1	1,644	79.3
Electronic reference sources, added	2,680	73.4	1,675	75.6	437	73.2	720	78.4	496	74.3	1,005	70.0	1,242	78.6	1,438	69.4
Electronic reference sources, EOFY	2,715	74.3	1,720	77.6	469	78.6	731	79.6	498	74.6	995	69.3	1,265	80.0	1,450	70.0
Part E-Library services																
Interlibrary loans provided																
Returnable	3,008	82.3	1,875	84.6	517	86.6	780	85.0	551	82.5	1,133	78.9	1,409	89.1	1,599	77.2
Non-returnable	3,008	82.3	1,875	84.6	517	86.6	780	85.0	551	82.5	1,133	78.9	1,409	89.1	1,599	77.2
Total provided	3,046	83.4	1,912	86.2	536	89.8	794	86.5	554	82.9	1,134	79.0	1,424	90.1	1,622	78.3
Interlibrary loans received																
Returnable	3,015	82.5	1,877	84.7	515	86.3	782	85.2	553	82.8	1,138	79.2	1,411	89.2	1,604	77.4
Non-returnable	3,015	82.5	1,877	84.7	515	86.3	782	85.2	553	82.8	1,138	79.2	1,411	89.2	1,604	77.4
Total received	3,058	83.7	1,916	86.4	535	89.6	797	86.8	556	83.2	1,142	79.5	1,429	90.4	1,629	78.6
Documents delivered from																
commercial services	2,923	80.0	1,812	81.7	488	81.7	767	83.6	531	79.5	1,111	77.4	1,371	86.7	1,552	74.9
General circulation transactions	3,019	82.6	1,899	85.7	531	88.9	792	86.3	549	82.2	1,120	78.0	1,406	88.9	1,613	77.8
Reserve circulation transactions	2,899	79.4	1,808	81.6	492	82.4	761	82.9	528	79.0	1,091	76.0	1,356	85.8	1,543	74.5
Number of presentations	3,055	83.6	1,915	86.4	532	89.1	799	87.0	556	83.2	1,140	79.4	1,419	89.8	1,636	79.0
Total attendance at all presentations	3,053	83.6	1,914	86.3	532	89.1	799	87.0	555	83.1	1,139	79.3	1,418	89.7	1,635	78.9
Part F-Library services, typical week																
Hours open, typical week	3,089	84.6	1,928	87.0	535	89.6	799	87.0	566	84.7	1,161	80.8	1,435	90.8	1,654	79.8
Gate count, typical week	3,035	83.1	1,893	85.4	522	87.4	788	85.8	557	83.4	1,142	79.5	1,413	89.4	1,622	78.3
Reference transactions, typical week	3,041	83.2	1,905	85.9	525	87.9	792	86.3	560	83.8	1,136	79.1	1,408	89.1	1,633	78.8

See notes at end of table.

Appendix F - Response Rate Tables
Academic Libraries Survey (ALS) 2004

Table F-1. Number and percentage of responding academic libraries by level and control of institution, by item: 2004—Continued

	Total post-secondary degree granting institutions	Percent	Four-year institutions									Less than four-year		Public		Private	
			Total four-year institutions		Highest level of degree						Total responding	Percent	Total responding	Percent	Total responding	Percent	
			Total responding	Percent	Doctor's		Master's		Bachelor's								
					Total responding	Percent	Total responding	Percent	Total responding	Percent	Total responding	Percent					
Part G-Electronic services																	
Library services provided:																	
Documents digitized by library staff	3,099	84.8	1,934	87.2	537	89.9	803	87.5	566	84.7	1,165	81.1	1,437	90.9	1,662	80.2	
Library reference service by e-mail or Web	3,101	84.9	1,934	87.2	537	89.9	803	87.5	566	84.7	1,167	81.3	1,438	91.0	1,663	80.3	
Technology to assist patrons with disabilities	3,098	84.8	1,934	87.2	537	89.9	803	87.5	566	84.7	1,164	81.1	1,436	90.8	1,662	80.2	
Electronic theses and dissertations produced by students	3,099	84.8	1,934	87.2	537	89.9	803	87.5	566	84.7	1,165	81.1	1,437	90.9	1,662	80.2	
Consortial services:																	
State has one or more subsidized programs	3,095	84.7	1,932	87.1	537	89.9	802	87.4	565	84.6	1,163	81.0	1,436	90.8	1,659	80.1	
Participates in consortia services not funded by the state	3,095	84.7	1,934	87.2	537	89.9	803	87.5	566	84.7	1,161	80.8	1,435	90.8	1,660	80.1	
Participates in state subsidized consortia	3,097	84.8	1,934	87.2	537	89.9	803	87.5	566	84.7	1,163	81.0	1,436	90.8	1,661	80.2	
Cost of participation fully funded by the state	3,094	84.7	1,932	87.1	537	89.9	802	87.4	565	84.6	1,162	80.9	1,435	90.8	1,659	80.1	
Cost of participation partially funded by the state	3,094	84.7	1,932	87.1	537	89.9	802	87.4	565	84.6	1,162	80.9	1,435	90.8	1,659	80.1	
Part H-Information Literacy																	
Definition of information literacy or of an information literate student	3,085	84.5	1,931	87.1	534	89.4	803	87.5	566	84.7	1,154	80.4	1,430	90.4	1,655	79.9	
Incorporated information literacy in the institution's mission	3,084	84.4	1,931	87.1	534	89.4	803	87.5	566	84.7	1,153	80.3	1,429	90.4	1,655	79.9	
Incorporated information literacy in the institution's strategic plan	3,084	84.4	1,931	87.1	534	89.4	803	87.5	566	84.7	1,153	80.3	1,429	90.4	1,655	79.9	
Campus-wide committee to implement the strategic plan for information literacy	3,083	84.4	1,930	87.1	534	89.4	802	87.4	566	84.7	1,153	80.3	1,428	90.3	1,655	79.9	

NOTE: EOFY = Held at End Of Fiscal Year

SOURCE: U.S. Department of Education, National Center for Education Statistics, Academic Libraries Survey, 2004.

Appendix F - Response Rate Tables
Academic Libraries Survey (ALS) 2004

Table F-2. Number and percentage of non-responding academic libraries, by state, level and control of institution: 2004

	Total postsecondary degree-granting institutions		Four-year institutions									Less than four-year		Public		Private	
			Total four-year institutions		Highest level of degree						Number	Percent	Number	Percent	Number	Percent	
	Number	Percent	Doctor's		Master's		Bachelor's										
			Number	Percent	Number	Percent	Number	Percent	Number	Percent							
Libraries with all items imputed	475	13.0	249	11.2	52	8.7	101	11.0	90	13.5	226	15.7	123	7.8	352	17.0	
Alabama	2	3.1	1	2.6	1	8.3	0	0.0	0	0.0	1	4.0	0	0.0	2	8.3	
Alaska	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
Arizona	11	19.3	5	18.5	0	0.0	1	11.1	3	25.0	6	20.0	3	12.5	8	24.2	
Arkansas	4	8.7	1	4.5	0	0.0	0	0.0	1	11.1	3	12.5	1	3.0	3	23.1	
California	78	22.5	43	22.5	9	15.8	18	22.8	15	31.3	35	22.6	14	9.8	64	31.5	
Colorado	14	23.0	8	21.6	3	23.1	1	11.1	4	26.7	6	25.0	3	11.1	11	32.4	
Connecticut	2	4.5	1	3.6	1	10.0	0	0.0	0	0.0	1	6.3	1	4.5	1	4.5	
Delaware	2	22.2	1	16.7	0	0.0	1	33.3	0	0.0	1	33.3	2	40.0	0	0.0	
District of Columbia	1	6.7	1	6.7	0	0.0	0	0.0	0	0.0	0	0.0	1	50.0	0	0.0	
Florida	17	11.6	12	12.6	1	5.6	5	14.7	6	14.3	5	9.6	0	0.0	17	15.9	
Georgia	18	16.7	8	13.8	2	12.5	4	15.4	2	12.5	10	20.0	10	15.6	8	18.2	
Hawaii	3	16.7	1	10.0	0	0.0	1	20.0	0	0.0	2	25.0	0	0.0	3	33.3	
Idaho	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
Illinois	22	14.1	12	12.2	7	20.6	2	6.7	3	8.8	10	17.2	7	11.7	15	15.6	
Indiana	9	11.4	7	12.7	1	8.3	5	15.6	1	9.1	2	8.3	2	7.1	7	13.7	
Iowa	7	11.3	2	4.5	0	0.0	1	6.7	1	4.5	5	27.8	4	21.1	3	7.0	
Kansas	6	11.1	3	10.7	1	20.0	2	16.7	0	0.0	3	11.5	4	12.9	2	8.7	
Kentucky	6	9.7	2	5.9	1	14.3	0	0.0	1	10.0	4	14.3	2	8.3	4	10.5	
Louisiana	2	4.4	1	3.6	0	0.0	0	0.0	1	14.3	1	5.9	0	0.0	2	10.0	
Maine	2	6.7	2	10.0	1	33.3	0	0.0	1	10.0	0	0.0	0	0.0	2	13.3	
Maryland	9	17.0	7	21.2	1	9.1	6	33.3	0	0.0	2	10.0	2	6.7	7	30.4	
Massachusetts	14	11.9	12	12.9	3	10.3	8	19.0	1	5.6	2	8.0	1	3.2	13	14.9	
Michigan	7	7.0	4	6.1	1	7.1	2	6.9	1	5.0	3	8.8	3	6.8	4	7.1	
Minnesota	4	4.2	2	4.0	0	0.0	0	0.0	2	9.1	2	4.4	1	2.0	3	6.5	
Mississippi	7	18.4	5	25.0	1	16.7	1	12.5	3	50.0	2	11.1	2	8.0	5	38.5	
Missouri	26	24.8	18	24.0	3	17.6	4	14.8	11	36.7	8	26.7	3	9.1	23	31.9	
Montana	3	13.6	0	0.0	0	0.0	0	0.0	0	0.0	3	25.0	3	17.6	0	0.0	
Nebraska	5	13.5	1	4.3	0	0.0	0	0.0	1	14.3	4	28.6	2	14.3	3	13.0	
Nevada	3	21.4	0	0.0	0	0.0	0	0.0	0	0.0	3	50.0	0	0.0	3	42.9	
New Hampshire	1	4.5	0	0.0	0	0.0	0	0.0	0	0.0	1	20.0	1	14.3	0	0.0	

See notes at end of table.

Appendix F - Response Rate Tables
Academic Libraries Survey (ALS) 2004

Table F-2. Number and percentage of non-responding academic libraries, by state, level and control of institution: 2004—Continued

	Total postsecondary degree-granting institutions		Four-year institutions									Less than four-year		Public		Private	
			Total four-year institutions		Highest level of degree						Number	Percent	Number	Percent	Number	Percent	
	Number	Percent	Doctor's		Master's		Bachelor's										
			Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent			
New Jersey	7	13.2	5	15.6	1	7.7	3	18.8	1	33.3	2	9.5	3	9.4	4	19.0	
New Mexico	6	16.7	3	20.0	0	0.0	2	22.2	1	33.3	3	14.3	2	7.7	4	40.0	
New York	30	11.7	16	9.4	6	12.5	6	7.3	4	10.5	14	16.3	1	1.3	29	16.3	
North Carolina	3	2.5	2	3.5	0	0.0	1	4.5	1	5.0	1	1.5	0	0.0	3	6.4	
North Dakota	2	10.0	1	10.0	0	0.0	0	0.0	1	16.7	1	10.0	1	7.1	1	16.7	
Ohio	27	17.3	8	9.1	1	4.8	4	9.3	3	13.6	19	27.9	9	17.3	18	17.3	
Oklahoma	9	18.4	5	16.1	1	12.5	1	7.7	3	30.0	4	22.2	4	13.8	5	25.0	
Oregon	1	1.9	1	3.0	0	0.0	0	0.0	1	11.1	0	0.0	0	0.0	1	3.4	
Pennsylvania	25	13.2	8	6.7	2	5.6	5	8.9	1	3.6	17	24.6	5	13.2	20	13.2	
Rhode Island	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
South Carolina	11	18.0	6	16.7	0	0.0	2	13.3	3	21.4	5	20.0	5	15.2	6	21.4	
South Dakota	1	4.5	1	5.9	0	0.0	1	9.1	0	0.0	0	0.0	1	7.7	0	0.0	
Tennessee	11	12.9	8	13.6	1	6.7	6	27.3	1	4.8	3	11.5	0	0.0	11	17.5	
Texas	19	9.5	9	9.2	0	0.0	2	6.5	6	27.3	10	9.9	3	2.8	16	17.4	
Utah	3	13.0	1	7.7	1	25.0	0	0.0	0	0.0	2	20.0	1	9.1	2	16.7	
Vermont	2	8.7	2	9.5	0	0.0	1	8.3	1	14.3	0	0.0	0	0.0	2	11.8	
Virginia	11	12.2	4	7.0	0	0.0	2	13.3	1	4.2	7	21.2	4	10.3	7	13.7	
Washington	13	18.3	6	16.7	1	14.3	1	5.6	4	36.4	7	20.0	6	14.0	7	25.0	
West Virginia	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
Wisconsin	7	11.1	3	6.8	1	12.5	2	8.0	0	0.0	4	21.1	5	16.1	2	6.3	
Wyoming	2	22.2	0	0.0	0	0.0	0	0.0	0	0.0	2	25.0	1	12.5	1	100.0	

NOTE: Percentages are derived using table C counts.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Academic Libraries Survey, 2004.

Appendix F - Response Rate Tables
Academic Libraries Survey (ALS) 2004

Table F-3. Total number of academic libraries, by state, level, and control of institution: 2004

	Total postsecondary degree-granting institutions	Four-year institutions			Less than four-year	Public	Private	
		Total four-year institutions	Highest level of degree					
			Doctor's	Master's				Bachelor's
Libraries	3,653	2,217	597	918	668	1,436	1,581	2,072
Alabama	64	39	12	13	14	25	40	24
Alaska	7	5	1	2	2	2	5	2
Arizona	57	27	5	9	12	30	24	33
Arkansas	46	22	5	8	9	24	33	13
California	346	191	57	79	48	155	143	203
Colorado	61	37	13	9	15	24	27	34
Connecticut	44	28	10	9	8	16	22	22
Delaware	9	6	3	3	0	3	5	4
District of Columbia	15	15	6	7	1	0	2	13
Florida	147	95	18	34	42	52	40	107
Georgia	108	58	16	26	16	50	64	44
Hawaii	18	10	2	5	3	8	9	9
Idaho	13	9	3	2	4	4	7	6
Illinois	156	98	34	30	34	58	60	96
Indiana	79	55	12	32	11	24	28	51
Iowa	62	44	7	15	22	18	19	43
Kansas	54	28	5	12	11	26	31	23
Kentucky	62	34	7	17	10	28	24	38
Louisiana	45	28	10	10	7	17	25	20
Maine	30	20	3	7	10	10	15	15
Maryland	53	33	11	18	4	20	30	23
Massachusetts	118	93	29	42	18	25	31	87
Michigan	100	66	14	29	20	34	44	56
Minnesota	95	50	10	16	22	45	49	46
Mississippi	38	20	6	8	6	18	25	13
Missouri	105	75	17	27	30	30	33	72
Montana	22	10	2	5	3	12	17	5
Nebraska	37	23	4	12	7	14	14	23
Nevada	14	8	2	1	5	6	7	7
New Hampshire	22	17	4	6	7	5	7	15

See notes at end of table.

Appendix F - Response Rate Tables
Academic Libraries Survey (ALS) 2004

Table F-3. Total number of academic libraries, by state, level, and control of institution: 2004—Continued

	Total postsecondary degree-granting institutions	Four-year institutions				Less than four-year	Public	Private
		Total four-year institutions	Highest level of degree					
			Doctor's	Master's	Bachelor's			
New Jersey	53	32	13	16	3	21	32	21
New Mexico	36	15	3	9	3	21	26	10
New York	257	171	48	82	38	86	79	178
North Carolina	122	57	15	22	20	65	75	47
North Dakota	20	10	2	2	6	10	14	6
Ohio	156	88	21	43	22	68	52	104
Oklahoma	49	31	8	13	10	18	29	20
Oregon	54	33	8	16	9	21	25	29
Pennsylvania	189	120	36	56	28	69	38	151
Rhode Island	13	12	6	3	2	1	3	10
South Carolina	61	36	6	15	14	25	33	28
South Dakota	22	17	4	11	2	5	13	9
Tennessee	85	59	15	22	21	26	22	63
Texas	199	98	44	31	22	101	107	92
Utah	23	13	4	3	6	10	11	12
Vermont	23	21	2	12	7	2	6	17
Virginia	90	57	16	15	24	33	39	51
Washington	71	36	7	18	11	35	43	28
West Virginia	31	22	2	11	8	9	15	16
Wisconsin	63	44	8	25	11	19	31	32
Wyoming	9	1	1	0	0	8	8	1

SOURCE: U.S. Department of Education, National Center for Education Statistics, Academic Libraries Survey, 2004.