Documentation for the Academic Library Survey (ALS) Data File: Fiscal Year 2002

NCES

National Center for
Education Statistics

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November 2005

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ACKNOWLEDGMENTS

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I.   Introduction

The purpose of this report is to document the procedures and methodologies employed during the Academic Library Survey of 2002. This report is designed to provide guidance and documentation for users of the public-use and restricted-use data files. Information about the universe of academic libraries and how to access this information is included in this report.

A.   History of 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 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 by paper survey instrument. 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 (ALA-ORS) have provided substantial assistance and guidance for the collections 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 completing the web data collection.

B.   NCES Academic Library's Universe Survey 2002

This documentation describes the Academic Library Survey (ALS) data files for the 2002 fiscal year. The fiscal year 2002 Academic Libraries Surveys (ALS) includes data on 3,887 academic libraries that are associated with degree-granting postsecondary educational institutions

throughout the 50 states, and the District of Columbia. These libraries have the following basic characteristics:

- 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 main or 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.)

Library Universe Frame

The 2002 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 2002–03. Also included in this universe are the five US Service Schools (Army, Air Force, Navy, Coast Guard, and Merchant Marine).

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.[2] In cases where a library may be shared, ALS may contain a record for each academic institution that meets its criteria and which shares the

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[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 have providing postsecondary education as their primary purpose. The IPEDS system is built around a series of interrelated surveys to collect institution-level data in such areas as enrollments, program completions, faculty, staff, and finances throughout the United States and the outlying areas.

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

facility. It is possible that a branch institution may be defined as a "child." If defined as a "child," the branch institution will have its data reported with and stored in the designated "parent" library record. In this case, the "parent" library may be the main or central library. The ALS record for the "child" library will not contain specific information pertaining to the operation of this library. The parent/child designation is used for the sole purpose of reporting data. The reported data are aggregated to represent all libraries defined in this relationship. It is also important to note that "child" libraries may not be branch libraries. It is also possible that academic institutions that share an academic library facility may designate one institution as the parent for the purposes of reporting the ALS data.

Of a total of 3,887 postsecondary institutions within the 50 States and District of Columbia, 170 were identified as "child" institutions for which data are provided by the "parent" institution or office. An additional 149 institutions were defined as out of scope based on responses to: 1) questions regarding participation in Title IV; 2) the screening questions which indicate whether there is a library at the institution; or due to, 3) their non-response to the screening questions. Of the remaining 3,568 degree-granting Title IV receiving postsecondary education institutions in the 50 States and the District of Columbia, responses were received for 3,160 institutions, yielding a response rate of 89 percent for the academic institutions requested to report data. Data were imputed for the 408 nonresponding institutions, enabling them to be included on the information tables. The nonresponding institutions, however, are not included in the response rate tables. It should also 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.

C.   Data Confidentiality

Separate laws (see http://nces.ed.gov/statprog/confid3.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/confid5.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. These variables are suppressed for all non-child (CYPARCH NE 2) institutions where STATUS = 1 or 4 as follows:

- SWLIBPRO (Salaries and wages for librarians and other) suppressed when STLIBPRO (Total Librarians and professional staff in FTE) <= 2;
- SWOTH (Salaries and wages for All other paid staff (except students)) suppressed when STOTH (All other paid staff (except students) in FTE) <= 2;
- SWASST (Salaries and wages for Student assistants) suppressed when STASST (Student assistants in FTE) <= 2;
- SWTOT (Total salaries and wages) suppressed when STTOT (Total FTE staff) <= 2;
- EXOTH (All other operating expenditures) suppressed when STTOT (Total FTE staff) <= 2;
- FRINGE (Employee (fringe benefits)) suppressed when STLIBPRO (Total Librarians and professional staff in FTE) <= 2 or STOTH (All other paid staff (except students) in FTE) <= 2 or STASST (Student assistants in FTE) <= 2 or STTOT (Total FTE staff) <= 2

The library's Total Operating Expenditures, other expenditures (for 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.

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/confid5.asp.

D.   Information included in the Academic Library Survey data collection

The ALS data in this file are for the fiscal year completed in 2002. 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, technology assistance services, and consortia services provided by each library. 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 report focuses on information from a census of academic libraries in 2002. 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 presents the distribution of the set of unit nonrespondents by state and by level and control of institution. Table F-3 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 the practical purposes of estimating the academic quality of the institution. Some of the specific other uses of the ALS survey data are listed below.

- Evaluations 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.

B.   Coverage and response rate

For the Academic Library Survey of 2002, 3,887 postsecondary institutions within the 50 States and the District of Columbia were identified. Of these, 3,568 degree-granting postsecondary institutions in the 50 states and the District of Columbia with academic libraries in 2002 are used for the analysis. The following records are not included in the E.D. TAB publication for 2002:

- "child"[3] institutions (N = 170)
- out-of-scope institutions (N = 149)

The response rate among the 3,568 institutions was 89 percent. Of the 3,568 institutions, 408 were unit non-respondents as shown on the STATUS variable value # 4. A total of 3,160 institutions remain for analysis of response rates. Records for the nonresponding libraries (408 or 11 percent of 3,568 libraries on the data file) are included on the data file, with imputed data.

When aggregating data to state level, researchers should consider the impact of the nonresponse rate and the possible effects of imputed data on the reliability of some estimates.

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[3] See prior discussion of "child" and branch institutions.

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 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 2002 data files are named as follows.

> 1. Tab delimited ASCII (flat file) format:
> ALS_2002_R.2.A.TXT
> ALS_2002_P.2.A.TXT

> 2. MS ACCESS database:
> ALS_2002_R.2.A.MDB
> ALS_2002_P.2.A.MDB

New this year, the **file naming and versioning** convention applied for the ALS 2002 file is as follows:
> Position 1–3: Survey (ALS)
> Position 4: Underscore (_)
> Position 5–8: Year (2002)
> Position 9: Underscore (_)
> Position 10: Restricted-use or Public-use (R or P)
> Position 11: Period (.)
> Position 12: Release status (preliminary = 0, final = 1 , subset of final = 2)
> Position 13: Period (.)
> Position 14: subsequent versions, beginning with A (A – Z)

Also new this year are **SAS and SPSS program syntax files** to create a SAS and SPSS data files for analysis that are available on the same web page on which the data are available.[4] These programs contain all the format, variable, and value label information necessary for creating a complete master file of all variable 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 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.**

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[4] SAS and SPSS program syntax programs, rather than system files, are provided with a view to transcending questions related to changes in software versions and/or hardware systems.

The pertinent files are:

The SAS program to read the restricted-use file is Read_ALS_2002_R.2.A.SAS.TXT
The SAS program to read the public-use file is Read_ALS_2002_P.2.A.SAS.TXT
The SPSS program to read the restricted-use file is Read_ALS_2002_R.2.A.SPSS.TXT
The SPSS program to read the public-use file is Read_ALS_2002_P.2.A.SPSS.TXT.

Users who prefer MS ACCESS format can download the 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. Although previous ALS surveys defined UNITID as numeric, ALS 2002 defined UNITID in character format. This was done 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. 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 Flags[5]

All variables were imputed for 408 non-responding libraries of the 3,568 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 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 "R," the value for the associated variable was reported. If the value of the flag is anything other than "R" (A, C, I, P, T, Z), 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 not equal to "R" should be removed or not included for analysis. (Note: The flag variables are single character fields.) If the value of the

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[5] ALS Imputation and Suppression Codes: A = "Analyst adjusted a reported value"; C = "Analyst corrected a cell that was blank"; H = "Data suppressed"; 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," on the public-use file only.

flag is "H" (in the public-use files only), the value for the associated variable has been suppressed. (The flag "H" is not on the restricted-use files.)

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

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 77 parent institutions that have children (72 of the parents have one or more children associated with them in the ALS 2002). There are 170 child institutions associated with these parents. Five of the 77 parent institutions on the data file were shown to be parents in prior ALS data collections.

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, a '9' indicates not applicable.

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 added to the questionnaire.

Users of this data file should consult the relevant variable lists (appendix B for ALS 2002) and Survey Forms (appendix C for ALS 2002), and the Crosswalk between ALS 2002 and 2000 in appendix D before making comparisons across years.

The variable AFFIL, (institution affiliation: public, private-profit, private nonprofit religious, or private nonprofit non-religious), was not included on this data file. This variable had been merged from IPEDS in previous years, but in 2002–03 IPEDS removed all its values. The IPEDS AFFIL variable has been modified and replaced by a more complex series in later year's surveys.

If the user wishes to ascertain current IPEDS definitions of affiliation, the ALS file and the relevant IPEDS institutions and variables may be merged.

The variable FTEUSED is the full-time equivalent enrollment and used for ALS imputations. It's original source was the IPEDS fall enrollment variable FTE, since the creation of the ALS 2002 file the values have been modified. The variable in ALS has been named "FTEUSED" to avoid confusion with the IPEDS variable "FTE."

F.   Institutions participating in the survey

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

    3,887   institutions in the 50 states and DC
      170   "child" institutions (data reported by parents)
      149   institutions that are out of scope (library did not meet survey standards)
    3,568   institutions in the 50 states and DC with academic libraries
      408   non-respondent institutions

The five main military academies were separately included in the data file.[6]

Table 1. Number of Title IV institutions, by level and sector: 2002

		Level of institution	
Sector	Total	4 year and above	2 to 4 year
Total	**3,887**	**2,356**	**1,531**
US Service Schools	5	5	0
Public	1,658	625	1,033
Private Not-for-Profit	1,571	1,452	119
Private For Profit	653	274	379

NOTE: 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 and non-current participants are counted as well (OPEFLAG = 3 or 5).
SOURCE: U.S. Department of Education, National Center for Education Statistics, Academic Libraries Survey (ALS), 2002.

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[6] The check for "obereg" is needed to retain the military academies which were included on the data file. The code below is used to identify the in-scope Title IV participants included in the E.D. TABs.

       if cyparch = '2' & obereg ^= 0 then delete;
       if opeflag not in (1,2,3,4) & obereg ^= 0 then delete;
       if (status ^= '1' & status ^= '4') & obereg ^= 0 then delete

APPENDIX A—Glossary
Academic Libraries Survey (ALS) 2002

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

APPENDIX A—Glossary
Academic Libraries Survey (ALS) 2002

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) 2002

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.

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) 2002

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

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
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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) 2002

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) 2002

This tab-delimited file has the following layout and description:

File: ALS_2002_R.2.A.TXT (restricted use file)

         ALS_2002_P.2.A.TXT (public use file)

3,887 physical records, 1 record for each institution.

183 variables in each record.

Date of release: September 2005

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 - 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 Blank – Not available	IPEDS
DUNS	10	character	Dunn and Bradstreet identification number Blank - 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
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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 blank - 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
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

Appendix B—Record Layout
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Variable Name	Field Width	Field Type	Data Element Description	Source
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 2001 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 2001 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 2001 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 2001 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
MEDICAL	2	numeric	Institution grants a medical degree 1 - Yes 2 - No -3 - Not available	IPEDS

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Variable Name	Field Width	Field Type	Data Element Description	Source
TRIBAL	2	numeric	Tribal college 1- Yes 2 - No -3 - Not available	
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: 51 - Theological seminaries and other specialized faith-related institutions: These institutions primarily offer religious instruction or train members of the clergy. 52 - Medical schools and medical centers: These institutions award most of their professional degrees in medicine. In some instances,	IPEDS

Variable Name	Field Width	Field Type	Data Element Description	Source
			they include other health professions programs, such as dentistry, pharmacy, or nursing. 53 - Other separate health profession schools: These institutions award most of their degrees in such fields as chiropractic, nursing, pharmacy, or podiatry. 54 - Schools of engineering and technology: These institutions award most of their bachelor's or graduate degrees in technical fields of study. 55 - Schools of business and management: These institutions award most of their bachelor's or graduate degrees in business or business-related programs. 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. 57 - Schools of law: These institutions award most of their degrees in law. 58 - Teachers colleges: These institutions award most of their bachelor's or graduate degrees in education or education-related fields. 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. 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. NOTES ON DEFINITIONS 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. 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 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. 4. This group includes community, junior, and technical colleges. -2 - Not applicable -3 - Not available	

Appendix B—Record Layout
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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
DATSRC	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	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

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Variable Name	Field Width	Field Type	Data Element Description	Source
PARTAFLAG1	1	character	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: 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 ***partaflag1 will never be 2 because there is only one line item in this part.**	Derived
PARTBFLAG1	1	character	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: 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
PARTBFLAG2	1	character	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: 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
PARTCFLAG1	1	character	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: 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 **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.**	Derived
PARTCFLAG2	1	character	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: 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
PARTDFLAG1	1	character	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: 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

Appendix B—Record Layout
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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	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. 1 - Estimated blank - Not 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

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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 blank - nonresponse	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 CY PARCH code is equal to 2. -2 - Not applicable	Survey
LIBSHAR1	6	character	Shared library, 1st UNITID	Survey
LIBNAME1	50	character	Name of institution library is shared with	Survey
LIBSHAR2	6	character	Shared library, 2nd UNITID	Survey
LIBNAME2	50	character	Name of institution library is shared with	Survey
LIBSHAR3	6	character	Shared library, 3rd 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
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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 blank - nonresponse	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) 2002

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, 12, 15 through 20)	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
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
XILPRET	1	character	Statusflag	Survey
ILPRET	12	numeric	Returnable	Survey
XILPNON	1	character	Statusflag	Survey
ILPNON	12	numeric	Non-returnable	Survey
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

Appendix B—Record Layout
Academic Libraries Survey (ALS) 2002

Variable Name	Field Width	Field Type	Data Element Description	Source
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
THESYN	1	character	Electronic theses and dissertations produced by your students 1 - Yes 2 - No N - No response	Survey
XCNSUBYN	1	character	Statusflag	Survey

Appendix B—Record Layout
Academic Libraries Survey (ALS) 2002

Variable Name	Field Width	Field Type	Data Element Description	Source
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	Survey
XCNPARTYN	1	character	Statusflag	Survey
CNPARTYN	1	character	Does your library participate in the consortium? 1 - Yes 2 - No N - No response	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 N - No response S - Skip, no participation	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 F - Full participation N - No response S - Skip, no participation	Survey
XCNOTHRYN	1	character	Statusflag	Survey
CNOTHRYN	1	character	Does your library participate in any other consortia for access to electronic resources? 1 - Yes 2 - No N - No response	Survey

Appendix C—Survey Instrument
Academic Libraries Survey (ALS) 2002

The survey instrument includes a list of changes from the 2000 administration of ALS, detailed instructions and definitions, as well as the questionnaire itself.

04/26/02

2002 ACADEMIC LIBRARY SURVEY
Changes from the 2000 form

Part B – Library Staff, Fall 2002

- Added new column (2) "Salaries and wages"—library expenditures for staff
- previously in Part C.
- Number of full- time equivalents (FTEs) —becomes column (1).
- Contributed services staff dropped for 2002.
- Fringe benefits added to part B.

Part C – Library Expenditures, Fiscal Year 2002

- Change in the wording for the Note at top of page: "Do not report the same
- expenditures more than once" is removed. New wording: "See instructions for
- exclusions and definitions."
- Breakout of staff salaries and wages expenditures moved to Part B.
- Total salaries and wages line added to library expenditures.
- Books, serial backfiles, and other materials (one-time purchases) line 10, becomes
- a total line.
- Electronic and Audiovisual lines become subsets of the total line 10.
- Current serial subscriptions (ongoing commitments) line 13, becomes a total line.
- Electronic serials line becomes a subset of total line 13.
- Changed "Other materials" to "Other expenditures for information resources."
- Furniture and equipment line is dropped and is included in "all other operating
- expenditures," line 20.
- Fringe benefits lines moved to part B.

Part D – Collections, Fiscal Year 2002

- Paper-volumes changed to "Books, serial backfiles, and other paper materials
- (include government documents)."
- Dropped line for Paper–titles
- Added line for E-Books

- Sequence of the next two lines "Current serial subscriptions" and "Audiovisual materials" is reversed.

Part E – Library Services, Fiscal Year 2002

- Divided circulation into general and reserve by having two lines as follows:

  Line 34a - "General circulation transaction," dropped reserve collection.

  Line 34b - "Reserve circulation transactions."

Part G – Electronic Services

- Parts G1 and G2 are combined to make one Part G.
- Part G simplified by asking only for a yes/no response to one question "Does your library provide the following?"
- Dropped all but the three items listed below and added one new line:

  Documents digitized by the library staff

  Library reference service by e-mail or on the Web

  Technology to assist patrons with disabilities (e.g., TDD, specially equipped work stations)

  Electronic theses and dissertations – new line added

Part G2

- Combined with G1.

04/26/02 Revised 10/15/02

ACADEMIC LIBRARY SURVEY

Instructions

GENERAL INSTRUCTIONS -

Please respond to each item in this survey in the place provided. If the appropriate answer for an item is zero or none, use "0." If you do not collect data for an item, provide your best estimate. **PLEASE DO NOT LEAVE ANY ITEMS BLANK.** If an item is left blank, NCES will estimate a value using the average for institutions with similar characteristics. Include data for the main or central library and all branch and independent libraries that were open all or part of fiscal year 2002.

LIBRARY - An entity that provides all of the following:

1. An organized collection of printed or other materials or a combination thereof

2. A staff trained to provide and interpret such materials as required to meet the informational, cultural, recreational, or educational needs of clientele

3. An established schedule in which services of the staff are available to clientele

4. The physical facilities necessary to support such a collection, staff, and schedule.

This includes libraries that are part of learning resource centers.

PERIOD OF REPORT - Report information for the following time periods as specified in each section:

1. Fiscal year 2002 - Any 12-month period between **June 1, 2001 and September 30, 2002** which corresponds to your institution's fiscal year (for Parts A, B, C, D, and E).

2. Typical week, Fall 2002 - A typical week is one that is neither unusually busy nor unusually slow. Avoid vacation periods for key staff or days when unusual events are taking place on the campus or in the library. Choose a week in which the library is open its regular hours. Include any seven consecutive calendar days (for Part F).

3. Fall 2002 - The period during the fall of 2002 when the survey form is being completed (for Parts B, F, and G).

PART A - NUMBER OF PUBLIC SERVICE OUTLETS, FISCAL YEAR 2002

Branch and independent libraries (line 01) - Report the number of branch and independent libraries at your institution that were open all or part of fiscal year 2002. EXCLUDE THE MAIN OR CENTRAL LIBRARY. Branch and independent libraries are defined as auxiliary library

service outlets with quarters separate from the central library of an institution, which 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 the central library **or,** as in the case of some libraries (such as law, medical, etc.), through the administrative structure of other units within the university. Departmental study/reading rooms are *not included*. Include data for all branch and independent libraries on the campus. Include libraries on **branch campuses** (i.e., located in another community) if those campuses are registered under the same NCES UNITID number as the main campus.

PART B - LIBRARY STAFF, FALL 2002 AND SALARIES/WAGES, FY 2002

Column (1), Full-time equivalent (FTE) employees (lines 02-07) - Report the number of filled or temporarily vacant FTE positions during Fall 2002 paid from funds under library control. To compute FTEs of part-time employees and student assistants, take the TOTAL number of hours worked per week by part-time employees IN EACH CATEGORY and divide it by the number of hours CONSIDERED BY THE REPORTING LIBRARY TO BE A FULL-TIME WORK WEEK (e.g., 60 hours per week of part-time work divided by 40 hours per full-time week equals 1.50 FTE). Data should be reported to two decimal places.

Do NOT report contributed services staff, such as members of religious orders, whose services are valued by bookkeeping entries rather than by full cash transactions. DO NOT include volunteers.

Column (2), Salaries and wages (lines 04-07) - Report expenditures in FY 2002 for full-time and part-time salaries and wages before deductions. Exclude employee fringe benefits provided by your institution for all regular library staff that may be reported on line 08b. Include salaries and wages from all sources paid to students serving on an *hourly basis*, if available (e.g., College Work Study Program). *Exclude* maintenance and custodial staff, volunteers, and contributed services staff.

Librarians (line 02) - Report the total FTE of staff whose duties require professional education (the master's degree or its equivalent) in the theoretical and scientific aspects of librarianship.

Other professional staff (line 03) - Report the total FTE of staff whose duties require education and/or training in related fields (e.g., academic disciplines, archives, media, computing).

Total librarians and other professional staff (line 04) - Report the sum of lines 02 and 03, column 1.

All other paid staff (except student assistants) (line 05) - Report the total FTE of all other library staff who are paid annual salaries or hourly wages except students *paid hourly*, who are reported on line 06. Include technical and clerical staff, but *exclude* maintenance and custodial staff, volunteers, and contributed services staff.

Student assistants from all funding sources (line 06) - Report the total FTE of student assistants, employed on an hourly basis whose wages are paid from funds under library control or from a budget other than the library budget, including College Work Study Program. *Exclude* maintenance and custodial staff, volunteers, and contributed services staff.

Total FTE staff (line 07) - Report the sum of lines 04 through 06, columns 1 and 2.

Employee fringe benefits (line 08a) — If benefits are paid from the library budget, select "Y" and report the amount in line 08b. If benefits are not paid from the library budget, select "N" and skip to Part C, line 10.

(line 08b) - If benefits are paid from the library budget, report the amount here.

PART C – LIBRARY EXPENDITURES, FISCAL YEAR 2002

Total salaries and wages (line 09) – This line will automatically be filled in from the total Salaries and Wages Expenditures line 07, column 2, in Part B.

Expenditures on information resources and operations (lines 10-21) - Report funds expended by the library in fiscal year 2002 (regardless of when received) from its regular budget and from all other sources; e.g., research grants, special projects, gifts and endowments, and fees for services. If items in this section are not paid from the library budget but can be easily identified in other parts of the institution's budget, report them here. Expenditures should be reported for the 12-month period that corresponds to your library's fiscal year between the calendar period June 1, 2001 to September 30, 2002. All expenditures should be reported in whole dollars in the most appropriate category to provide an unduplicated count of expenditures. *Exclude* expenditures for new buildings and building renovation.

Information resources (lines 10-17) -

Books, serial backfiles, and other materials (one time purchases) (line 10) - Report expenditures for published materials in all formats except current serial subscriptions.

Electronic (line 11) - Report expenditures that are not current serials (i.e. are non-subscription, one-time, or monographic in nature) for software and machine-readable materials considered part of the collections. Examples include periodical backfiles, literature collections, one-time costs for JSTOR membership, etc. These expenditures have already been reported as part of line 10 above. Therefore, line 11 is not added into Total Expenditures on line 21.

Audiovisual (line 12) – Report expenditures for all library materials that are displayed by visual projection or magnification or through sound reproduction, or both, including graphic materials, audio materials, motion pictures, video materials, and special visual materials such as three-dimensional materials. These expenditures have already been reported as part of line 10 above. Therefore, line 12 is not added into Total Expenditures on line 21.

Current serial subscriptions (ongoing commitments) (line 13) - Report expenditures for current subscriptions to serials in all formats. These are publications issued in successive parts, usually at regular intervals, and, as a rule, intended to be continued indefinitely. Serials include periodicals, newspapers, annuals (reports, yearbooks, etc.), memoirs, proceedings, and transactions of societies.

Electronic serials (line 14) – Report subscription expenditures (or those which are expected to be ongoing commitments) for serial publications whose primary format is electronic. Examples include paid subscriptions for electronic journals and indexes/abstracts available via the Internet, CD-ROM serials, and annual access fees for resources purchased on a "one-time" basis, such as literature collections, JSTOR membership, etc. These expenditures have already been reported as part of line 13. Therefore, line 14 is not added into Total Expenditures on line 21.

Other Information Resources (lines 15-17) -

Document delivery/interlibrary loan (line 15) - Report expenditures for document delivery and

interlibrary loan services. Include fees paid for photocopies, costs of facsimile transmission, royalties and access fees paid to provide document delivery or interlibrary loan. Include fees paid to bibliographic utilities if the portion paid for interlibrary loan can be separately counted. *Do not count* expenditures related to transactions between the main or central library and any libraries reported in Part A, transactions between libraries reported in Part A, or expenditures for on campus delivery.

Preservation (line 16) - Report expenditures associated with maintaining library and archival materials for use either in their original physical form or in some other usable way. This includes but is not limited to binding and rebinding, materials conservation, deacidification, lamination, and restoration. *Do not include* staff salaries and wages.

Other expenditures for information resources (line 17) – Report any other collection expenditures not already included on lines 9, 12, 14, and 15, such as expenditures for cartographic materials and manuscripts. Include copyright fees and fees for database searches, e.g. (DIALOG, Lexis-Nexis).

Operating Expenditures (lines 18-20) -

Computer hardware and software (line 18) - Report expenditures from the library budget for computer hardware and software used to support library operations, whether purchased or leased, mainframe or microcomputer. Include expenditures for maintenance. Include the expenditure for equipment used to run information service products when that expenditure can be separated from the price of the product. *Exclude* expenditures reported on line 14.

Bibliographic utilities, networks, and consortia (line 19) - Report expenditures for services provided by national, regional, and local bibliographic utilities, networks, and consortia. *Exclude* expenditures already reported on lines 11, 14, and 15.

All other operating expenditures (line 20) - Report all other expenditures not already reported on lines 09 through 18 except employee fringe benefits that are reported on line 08b. *Exclude* expenditures for new buildings and building renovations. Include all expenditures for furniture and equipment except computer hardware, which should be reported on line 18. Include any related maintenance costs.

Total Expenditures (line 21) - Report the sum of lines 09, 10, 13, 15 through 20.

PART D - LIBRARY COLLECTIONS, FISCAL YEAR 2002

NOTE - This section of the survey collects data on selected types of material. It does not cover all materials.

Column (1), Total number added during fiscal year - Report the gross number of each category added. Do not subtract the number withdrawn.

Column (2), Total number held at end of fiscal year - Report the total number of each category held at end of fiscal year. To get this figure, take the total number held at the end of the previous fiscal year, add the number added during the fiscal year just ended and subtract the

number withdrawn during that period.

Books, serial backfiles and other paper materials (include government documents) (line 22) – Report the number of volumes using the ANSI/NISO Z39.7-1995 definition for volume, which is as follows: *A single physical unit of any printed, typewritten, handwritten, mimeographed, or processed work, distinguished from other units by a separate binding, encasement, portfolio, or other clear distinction, which has been catalogued, classified, and made ready for use, and which is typically the unit used to charge circulation transactions.*

Include duplicates and bound volumes of periodicals. For purposes of this questionnaire, unclassified bound serials arranged in alphabetical order are considered classified. Exclude microfilms, maps, nonprint materials, and uncataloged items. Include Government document volumes that are accessible through the library's catalogs regardless of whether they are separately shelved. "Classified" includes documents arranged by Superintendent of Documents, CODOC, or similar numbers. "Cataloged" includes documents for which records are provided by the library or downloaded from other sources into the library's card or online catalogs. Documents should, to the extent possible, be counted as they would if they were in bound volumes (e.g., 12 issues of an annual serial would be one or two volumes). Title and piece counts should not be considered the same as volume counts. If a volume count has not been kept, it may be estimated through sampling a representative group of title records and determining the corresponding number of volumes, then extrapolating to the rest of the collection. As an alternative, an estimate may be made using the following formulae: *52 document pieces per foot, 10 "traditional" volumes per foot.*

E-Books (line 23) – Report the number of electronic monographs that have been purchased by your library and are accessible through the library's catalog. Do not include e-books that belong to a consortium.

Microforms (line 24) – Report units of all photographic reproduction of textual, tabular, or graphic materials reduced in size so that they can be used only with magnification. Examples of microforms are roll microfilm, microcard, microfiche, and ultrafiche.

Audiovisual Materials (line 25) – Report units of all library materials that are displayed by visual projection or magnification or through sound reproduction, or both, including graphic materials, audio materials, motion pictures, video materials, and special visual materials such as three-dimensional materials.

Current serial subscriptions (line 26) – Report the total number of subscriptions in all formats. If the subscription comes in both paper and electronic form, count it twice. Count electronic subscriptions if they are received as part of the subscription to a print serial, if they are managed as independent, individual subscriptions, and if they are received as part of publisher's package (e.g., Project MUSE, Academic IDEAL). Do not count the titles included in full-text article databases such as Lexis-Nexis, ABI/INFORM. Include paper and microfilm government documents issued serially if they are accessible through the library's catalog.

PART E - LIBRARY SERVICES, FISCAL YEAR 2002

Interlibrary loans (lines 27-32) - On lines 27, 28, and 29, report the number of filled requests

for material provided to other libraries. On lines 30, 31, and 32, report the number of filled requests for material received from other libraries. *Do not include* transactions between the main or central library and any libraries reported in Part A or transactions between libraries reported in Part A.

Returnables (lines 27 and 30) - Report materials that the supplier/lending library expects to have returned. Examples of returnables include books, dissertations and theses, microfilm reels, sound recordings, and audiovisual material.

Non-returnables (lines 28 and 31) - Report materials that the supplier/lending library does not expect to have returned. Examples of non-returnables include photocopies or facsimiles, fiche-to-fiche copies, print copies from microfilm, electronic full-text documents, and gratis print copies of unpublished reports and/or departmental working papers.

Total loans (lines 30 and 33) - Sum lines 27 and 28 for line 29, and sum lines 30 and 31 for line 32.

Documents delivered from commercial services (line 33) - Report the number of documents from commercial document delivery services received by your users. Count all transactions for which the library pays even if library staff is not involved in the transaction. Include documents received by regular or express mail, by fax, or in electronic form.

General circulation transactions (line 34a) - Report the number of items lent from the general collection. Include both initial transactions and renewals.

Reserve circulation transactions (line 34b) – Report reserve transactions of all types. Include both initial transactions and renewals.

Information services to groups (lines 35 and 36) - Report the total number of presentations (line 35) and the total number of persons attending or served by those presentations (line 36). Information services to groups are presentations at which a staff member or person invited by a staff member provides information intended for a number of persons and planned in advance. These services may be either bibliographic instruction or library use presentations, or cultural, recreational, or educational presentations. Presentations both on and off the library premises should be included, as long as they are sponsored by the library. *Do not include* meetings sponsored by other groups using library meeting rooms.

PART F - LIBRARY SERVICES - TYPICAL WEEK, FALL 2002

Collect data during a typical week in the fall. A typical week is one that is neither unusually busy nor unusually slow. Avoid vacation periods for key staff or days when unusual events are taking place on the campus or in the library. Choose a week in which the library is open its regular hours. Include any seven consecutive calendar days. If waiting for a typical week in Fall 2002 will delay this form, please use typical week data from the preceding fiscal year. If you have data for the entire year, divide by the number of weeks that the library was open.

Hours open in a typical week (line 37) - Report an unduplicated count of hours open in a typical week for both main library and branches reported in Part A using the following method.

If a library is open from 9 a.m. to 5 p.m., Monday through Friday, it should report 40 hours per week. If several of its branches are also open during those hours, the figure remains 40 hours per week. Should Branch A also be open one evening from 7:00 to 9:00, the total hours during which users can find service becomes 42. If Branch B is open the same hours on the same evening, the total remains 42, but if it is open two hours on another evening, or from 5:00 to 7:00 on the evening when Branch A is open later, the total becomes 44 hours during which users can find service.

Gate count in a typical week (line 38) - Report the number of persons who physically enter library facilities in a typical week. It is understood that a single person may be counted more than once.

Reference transactions in a typical week (line 39) - Report the total number of reference transactions in a typical week. A reference transaction is an information contact that involves 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 include printed and non-printed materials, machine-readable databases (including assistance with computer searching), the Web, catalogs and other holdings records, and, through communication or referral, other libraries and institutions, and persons both inside and outside the library. Include transactions in person, by phone, by e-mail, by the Web, and count transactions that take place at the reference desk, as well as elsewhere. Include information and referral services. If a contact includes both reference and directional services, it should be reported as one reference transaction. When a staff member utilizes information gained from a previous use of information sources to answer a question, report as a reference transaction, even if the source is not consulted again during this transaction. Duration should not be an element in determining whether a transaction is a reference transaction.

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

PART G - ELECTRONIC SERVICES

This section requests information about the electronic services provided by the library. The questions require a "yes" or "no" response.

ACADEMIC LIBRARY SURVEY

SURVEY ELIGIBILITY

Please answer the following questions to determine if you need to complete this survey:

a. Do you have an organized collection of printed or other materials or a
    combination thereof?   Yes/No

b. Do you have a staff trained to provide and interpret such materials as required
    to meet the informational, cultural, recreational, or educational needs of clientele?   Yes/No

c. Do you have an established schedule in which services of the staff are available
    to clientele?   Yes/No

d. Does the library have the physical facilities necessary to support such a
    collection, staff, and schedule?   Yes/No

(This question will popup if any of the 4 questions above are answered no.)

e. Do you provide financial support to another library?   Yes/No

ACADEMIC LIBRARY SURVEY

PART A – NUMBER OF PUBLIC SERVICE OUTLETS, FY 2002

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

Appendix C—Survey Instrument
Academic Libraries Survey (ALS) 2002

PART B – LIBRARY STAFF, FALL 2002 AND SALARIES/WAGES, FY 2002

(Exclude maintenance and custodial staff, volunteers and contributed services staff)
Note: Report FTE data to two decimals.

Line No.	Staff	FALL 2002 Number of full-time equivalents (FTEs) (1)	FY 2002 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 10   _____(Yes/No)

08b Employee fringe benefits (if paid from library budget) $ _____

ACADEMIC LIBRARY SURVEY

PART C - LIBRARY EXPENDITURES, FY 2002

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 LIBRARY SURVEY

PART D – LIBRARY COLLECTIONS, FY 2002

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	_____	_____

ACADEMIC LIBRARY SURVEY

PART E – LIBRARY SERVICES, FY 2002

Note: See instructions for exclusions and definitions.

Line No.	Services	Number
	Interlibrary loans <u>provided</u> to other libraries:	
27	Returnable	_____
28	Non-returnable	_____
29	**Total provided** (sum lines 27 and 28)	_____
	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 LIBRARY SURVEY

PART F – LIBRARY SERVICES, TYPICAL WEEK, FALL 2002

Note: See instructions for exclusions and definitions.

Line No.	Services	Number in a typical week
37	Hours open in a typical week	_____
38	Gate count in a typical week	_____
39	Reference transactions in a typical week	_____

ACADEMIC LIBRARY 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.

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?	____

Appendix D—Crosswalks
Academic Libraries Survey (ALS) 2002

This section has not been included in the initial release of this document. It will be added when the ALS 2000 survey data has been released.

Appendix D—Crosswalks
Academic Libraries Survey (ALS) 2002

ALS crosswalk from 2000 to 2002, by variable order

ALS 2000 VARIABLE NAME	ALS 2000 EDTAB NAME	ALS 2002 VARIABLE NAME	ALS 2000 VARIABLE LABEL
ACT	ACT	ACT	Status of institution
ADDR	ADDR	ADDR	Street address or post office box
AFFIL	AFFIL	*No Matching Variable*	Affiliation of institution
ASSOCDEG	ASSOCDEG	*No Matching Variable*	Total # of associate deg frm Completions
ATTEND	LE40	ATTEND	Total attendance at all presentations
BACHDEG	BACHDEG	*No Matching Variable*	Total # of bachelors deg frm Completions
BRANCHES	LA1	BRANCHES	Number of branch & independent libraries
CARNEGIE	CARNEGIE	CARNEGIE	Carnegie Classification Code
CIRTRANS	LE38	*No Matching Variable*	Circulation transactions
CITY	CITY	CITY	City location of institution
CNFULLYN	LG63	CNFULLYN	Cost of participation fully funded-state
CNOTHRYN	LG65	CNOTHRYN	Participate in other consortia-elec res
CNPARTYN	LG62	CNPARTYN	Library particpates in the consortium
CNPRTLYN	LG64	CNPRTLYN	Participation partially funded by state
CNSUBYN	LG61	CNSUBYN	Subsidized consortium-access to elec res
COLAUDA	LD30_1	COLAUDA	Audiovisual materials - units added
COLAUDH	LD30_2	COLAUDH	Audiovisual materials - units held
COLBKPTA	LD27_1	*No Matching Variable*	Books - paper - titles added
COLBKPTH	LD27_2	*No Matching Variable*	Books - paper - titles held
COLBKSA	LD26_1	COLBKSA	Books - paper - volumes added
COLBKSH	LD26_2	COLBKSH	Books - paper - volumes held
COLMICRA	LD28_1	COLMICRA	Books - microform - units added
COLMICRH	LD28_2	COLMICRH	Books - microform - units held
COLSERA	LD29_1	COLSERA	Current serial subscriptions added
COLSERH	LD29_2	COLSERH	Current serial subscriptions held
COMPUTERYN	LG57	*No Matching Variable*	Computers for patron use in library
CONTROL	CONTROL	CONTROL	Control of institution
CUPAMICR	LC14	*No Matching Variable*	Exp-Current serials-paper & microforms
CYPARCH	PARCH_L	CYPARCH	Parent/child indicator
DATEFLAG	DATE_L	*No Matching Variable*	Item status flag
DATSRC	SRC_L	DATSRC	Medium used to collect data
DEGGRANT	DEGGRANT	DEGGRANT	Degree granting status of institution
DISTEDSRVYN	LG60B	*No Matching Variable*	Services to distance education students
DISTEDYN	LG60A	*No Matching Variable*	Institution has distance ed students
DOCDEL	LE37	DOCDEL	Docs delivered from commercial services
DOCDIGCMPYN	LG48_2	*No Matching Variable*	Acc elec files(not ctlg) else on cmpus
DOCDIGOCOYN	LG48_4	*No Matching Variable*	Acc elec files(not ctlg) off cmpus-oth
DOCDIGOCPYN	LG48_3	*No Matching Variable*	Acc elec files(not ctlg) off cmpus-prm
DOCDIGYN	LG48_1	DOCDIGYN	Acc elec files(not ctlg) w/in lib
DOCTDEG	DOCTDEG	*No Matching Variable*	Total # of doctors deg frm Completions
DUNS	DUNS	DUNS	Dunn & Bradstreet identification number
EDITSTATUS	EDIT_L	*No Matching Variable*	Edit status of the institution
EIN	EIN	EIN	Employer identification number
ELCATCMPYN	LG44_2	*No Matching Variable*	Access-elec catalg elsewhere on campus
ELCATOCOYN	LG44_4	*No Matching Variable*	Access-elec catalog off campus-others
ELCATOCPYN	LG44_3	*No Matching Variable*	Acc-elec catalg off campus-prmary client
ELCATYN	LG44_1	*No Matching Variable*	Access of elec catalog within library
ELCRSCMPYN	LG47_2	*No Matching Variable*	Acc elec fl txt course res else on cmp
ELCRSOCOYN	LG47_4	*No Matching Variable*	Acc elec fl txt course res off cmp-oth
ELCRSOCPYN	LG47_3	*No Matching Variable*	Acc elec fl txt course res off cmp-prm
ELCRSYN	LG47_1	*No Matching Variable*	Acc elec full text course res w/in lib
ELDOCDELCMPYN	LG54_2	*No Matching Variable*	Elec doc deliv-lib to acct else on cmp
ELDOCDELOCOYN	LG54_4	*No Matching Variable*	Elec doc deliv-lib to acct off cmp-oth
ELDOCDELOCPYN	LG54_3	*No Matching Variable*	Elec doc deliv-lib to acct off cmp-prm
ELDOCDELYN	LG54_1	*No Matching Variable*	Elec doc deliv-lib to acct w/in lib
ELGCOLL	ORGCOLL	ELGCOLL	Has organized collection of materials
ELGPHYS	PHYSFAC	ELGPHYS	Has physical facilities for collection
ELGSCHED	ESTABSCH	ELGSCHED	Institution has established schedule

Appendix D—Crosswalks
Academic Libraries Survey (ALS) 2002

ALS crosswalk from 2000 to 2002, by variable order

ALS 2000 VARIABLE NAME	ALS 2000 EDTAB NAME	ALS 2002 VARIABLE NAME	ALS 2000 VARIABLE LABEL
ELGSTAFF	TRNSTAFF	ELGSTAFF	Institution has trained staff
ELINDCMPYN	LG45_2	*No Matching Variable*	Acc elec index & ref tool else on cmp
ELINDOCOYN	LG45_4	*No Matching Variable*	Acc elec index & ref tool off cmp-oth
ELINDOCPYN	LG45_3	*No Matching Variable*	Acc elec index & ref tool off cmp-prmry
ELINDYN	LG45_1	*No Matching Variable*	Acc elec index & ref tools w/in lib
ELPERCMPYN	LG46_2	*No Matching Variable*	Acc elec full text period. else on cmp
ELPEROCOYN	LG46_4	*No Matching Variable*	Acc elec full text period. off cmp-oth
ELPEROCPYN	LG46_3	*No Matching Variable*	Acc elec full text period. off cmp-prm
ELPERYN	LG46_1	*No Matching Variable*	Acc elec full text periodical w/in lib
EXAUD	LC16	EXAUD	Expenditures for audiovisual materials
EXBIB	LC22	EXBIB	Biblio utilities, networks, consortia
EXCOMP	LC21	EXCOMP	Expend-Computer hardware and software
EXDEL	LC17	EXDEL	Expend-Document deliv/Interlibrary loan
EXELBKS	LC13	EXELBKS	Expenditures-Books-electronic
EXELSER	LC15	EXELSER	Expenditures-Current serials-electronic
EXFUREQP	LC20	*No Matching Variable*	Expenditures for furniture & equipment
EXOTHIR	LC19	EXOTHIR	Expenditures for other materials
EXOTH2000	LC23	*No Matching Variable*	All other operating expenditures
EXPRES	LC18	EXPRES	Expenditures for Preservation
EXTOT	LC24	EXTOT	Total expenditures (sum LC9-LC23)
EXTOT2000	F2B02	*No Matching Variable*	Total expenses 2000
EXTOT2000B	F3B02	*No Matching Variable*	Total expenses 2000
EXTOTE_G2000	B123	*No Matching Variable*	Total E&G expenditures 2000
FINSUPP	FINSUPRT	FINSUPP	Provides financial support to another
FIPS	FIPS	FIPS	FIPS state code
FORM	FORM_L	*No Matching Variable*	Survey form
FPOFFER	FPOFFER	FPOFFER	First-professional offering
FRINGE	LC25B	FRINGE	Expenditures-Employee fringe benefits
FRINGEYN	LC25A	FRINGEYN	Employee fringe benefits (paid fr lib)
FTGS9899	FTGRAD	*No Matching Variable*	Full-time graduate students 1998-99
FTUS9899	FTUNDER	*No Matching Variable*	Full-time undergraduate students 1998-99
GATECT	LF42	GATECT	Gate count in a typical week
GROFFER	GROFFER	GROFFER	Graduate offering
HBCU	HBCU	HBCU	Historically Black College or University
HDEGOFFR	HDEGOFFR	HDEGOFFR	Highest degree offered
HLOFFER	HLOFFER	HLOFFER	Highest level of offering
HOSPITAL	HOSPITAL	HOSPITAL	Institution has hospital
HOURS	LF41	HOURS	Hours open in a typical week
ICLEVEL	ICLEVEL	ICLEVEL	Level of institution
ILPNON	LE32	ILPNON	Interlib loans to othr lib-non-return
ILPRET	LE31	ILPRET	Interlib loans to othr lib-returnable
ILPTOT	LE33	ILPTOT	Interlib loans to othr lib-total
ILRNON	LE35	ILRNON	Interlib loans from othr lib-non-return
ILRRET	LE34	ILRRET	Interlib loans from othr lib-returnable
ILRTOT	LE36	ILRTOT	Interlib loans from othr lib-total
IMPUTE	IMPUTE_L	IMPUTE	Impute status of the institution
INETCMPYN	LG49_2	*No Matching Variable*	Internet access elsewhere on campus
INETOCOYN	LG49_4	*No Matching Variable*	Internet access off campus-other
INETOCPYN	LG49_3	*No Matching Variable*	Internet access off campus-primary
INETYN	LG49_1	*No Matching Variable*	Internet access w/in library
INSINETCMPYN	LG53_2	*No Matching Variable*	Instr by lib stf-internet else on cmp
INSINETOCOYN	LG53_4	*No Matching Variable*	Instr by lib stf-internet off cmp-oth
INSINETOCPYN	LG53_3	*No Matching Variable*	Instr by lib stf-internet off cmp-prm
INSINETYN	LG53_1	*No Matching Variable*	Instr by lib stf-internet w/in lib
INSTNM	INSTNM	INSTNM	Institution (entity) name
IRPAMICR	LC12	*No Matching Variable*	Expenditures-Books-paper and microforms
LIBNAME1	LIBNAME1	LIBNAME1	Name of shared library
LIBNAME2	LIBNAME2	LIBNAME2	Name of shared library

Appendix D—Crosswalks
Academic Libraries Survey (ALS) 2002

ALS crosswalk from 2000 to 2002, by variable order

ALS 2000 VARIABLE NAME	ALS 2000 EDTAB NAME	ALS 2002 VARIABLE NAME	ALS 2000 VARIABLE LABEL
LIBNAME3	LIBNAME3	LIBNAME3	Name of shared library
LIBREFCMPYN	LG50_2	*No Matching Variable*	Lib ref serv by email else on campus
LIBREFOCOYN	LG50_4	*No Matching Variable*	Lib ref serv by email off campus-othr
LIBREFOCPYN	LG50_3	*No Matching Variable*	Lib ref serv by email off campus-prim
LIBREFYN	LG50_1	LIBREFYN	Lib ref serv by email w/in library
LIBSHAR1	LIBSHAR1	LIBSHAR1	UNITID for shared library
LIBSHAR2	LIBSHAR2	LIBSHAR2	UNITID for shared library
LIBSHAR3	LIBSHAR3	LIBSHAR3	UNITID for shared library
LOANREQCMPYN	LG51_2	*No Matching Variable*	Interlib loan req elec else on campus
LOANREQOCOYN	LG51_4	*No Matching Variable*	Interlib loan req elec off campus-othr
LOANREQOCPYN	LG51_3	*No Matching Variable*	Interlib loan req elec off campus-prim
LOANREQYN	LG51_1	*No Matching Variable*	Interlib loan req elec w/in library
LOCALE	LOCALE	LOCALE	Degree of Urbanization
MASTDEG	MASTDEG	*No Matching Variable*	Total # of masters deg frm Completions
MEDICAL	MEDICAL	MEDICAL	Institution grants a medical degree
OBEREG	OBEREG	OBEREG	OBE Region code
OPEFLAG	OPEFLAG	OPEFLAG	OPE eligibility indicator code
OPEID	OPEID	OPEID	Office of Postsecondary Education ID
OPENPUBL	OPENPUBL	OPENPUBL	Institution open to the general public
PARTAFLAG	IMP_LA	*No Matching Variable*	Impute status of Part A
PARTBFLAG	IMP_LB	*No Matching Variable*	Impute status of Part B
PARTCFLAG	IMP_LC	*No Matching Variable*	Impute status of Part C
PARTDFLAG	IMP_LD	*No Matching Variable*	Impute status of Part D
PARTEFLAG	IMP_LE	*No Matching Variable*	Impute status of Part E
PARTFFLAG	IMP_LF	*No Matching Variable*	Impute status of Part F
PCTMIN1	PCTMIN1	PCTMIN1	Percent Black, non-Hispanic
PCTMIN2	PCTMIN2	PCTMIN2	Percent American Indian/Alaskan Native
PCTMIN3	PCTMIN3	PCTMIN3	Percent Asian/Pacific Islander
PCTMIN4	PCTMIN4	PCTMIN4	Percent Hispanic
PRESEN	LE39	PRESEN	Number of presentations
PROFDEG	PROFDEG	*No Matching Variable*	Total # of first prof deg fr Completions
PTGS9899	PTGRAD	*No Matching Variable*	Part-time graduate students 1998-99
PTUS9899	PTUNDER	*No Matching Variable*	Part-time undergraduate students 1998-99
REFTRANS	LF43	REFTRANS	Reference transactions in a typical week
REFUSAL	REFU_L	*No Matching Variable*	Refusal status of the institution
SATBRCMPYN	LG56_2	*No Matching Variable*	Satellite broadcast for lib-else on cmp
SATBROCOYN	LG56_4	*No Matching Variable*	Satellite broadcast for lib-off cmp-oth
SATBROCPYN	LG56_3	*No Matching Variable*	Satellite broadcast for lib-off cmp-prm
SATBRYN	LG56_1	*No Matching Variable*	Satellite broadcast for lib w/in lib
SCANNERYN	LG59	*No Matching Variable*	Scanning equip for patron use in library
SECTOR	SECTOR	SECTOR	Sector of institution
SOFTWAREYN	LG58	*No Matching Variable*	Computer software for patron use in lib
STABBR	STABBR	STABBR	Post Office State abbreviation code
STASST	LB7	STASST	Student assistants-all funding sources
STATUS	STAT_L	STATUS	Response status of the institution
STCONSRV	LB6	*No Matching Variable*	Contributed services staff
STLIBPRO	LB4	STLIBPRO	Total librarians & OPS (LB2+LB3)
STLIBS	LB2	STLIBS	Librarians
STOTH	LB5	STOTH	All other paid staff
STOTHPRO	LB3	STOTHPRO	Other professional staff
STTOT2000	LB8	*No Matching Variable*	Total FTE staff (SUM(LB4-LB7))
SWASST	LC11	SWASST	Expenditures for student assistants
SWLIBPRO	LC9	SWLIBPRO	Expenditures for librarians & OPS
SWOTH	LC10	SWOTH	Expenditures for all other paid staff
TECHCMPYN	LG52_2	*No Matching Variable*	Tech to asst ptrns w/disabil else on cmp
TECHOCOYN	LG52_4	*No Matching Variable*	Tech to asst ptrns w/disabil off cmp-oth
TECHOCPYN	LG52_3	*No Matching Variable*	Tech to asst ptrns w/disabil off cmp-prm
TECHYN	LG52_1	TECHYN	Tech to asst patrons w/disabil w/in lib

Appendix D—Crosswalks
Academic Libraries Survey (ALS) 2002

ALS crosswalk from 2000 to 2002, by variable order

ALS 2000 VARIABLE NAME	ALS 2000 EDTAB NAME	ALS 2002 VARIABLE NAME	ALS 2000 VARIABLE LABEL
TFTFAC11_12M	SAA304	*No Matching Variable*	Total FT faculty on 11/12 month contract
TFTFAC9_10M	SAA154	*No Matching Variable*	Total FT faculty on 9/10 month contract
TOTENR9899	ENROLL	*No Matching Variable*	Total enrollment 1998-99
TRIBAL	TRIBAL	TRIBAL	Tribal college
UGOFFER	UGOFFER	UGOFFER	Undergraduate offering
UNITID	UNITID	UNITID	Identification number
UNITIDX	IDX_L	UNITIDX	UNITID number of parent institution
VDOCONFCMPYN	LG55_2	*No Matching Variable*	Video/desktop conf for lib else on cmp
VDOCONFOCOYN	LG55_4	*No Matching Variable*	Video/desktop conf for lib off cmp-oth
VDOCONFOCPYN	LG55_3	*No Matching Variable*	Video/desktop conf for lib off cmp-prm
VDOCONFYN	LG55_1	*No Matching Variable*	Video/desktop conf for lib w/in lib
WEBADDR	WEBADDR	WEBADDR	Institution's internet website address
XATTEND	XLE40	XATTEND	Item status flag for LE40
XBRANCHES	XLA1	XBRANCHES	Item status flag for LA1
XCIRTRANS	XLE38	*No Matching Variable*	Item status flag for LE38
XCOLAUDA	XLD30_1	XCOLAUDA	Item status flag for LD30_1
XCOLAUDH	XLD30_2	XCOLAUDH	Item status flag for LD30_2
XCOLBKPTA	XLD27_1	*No Matching Variable*	Item status flag for LD27_1
XCOLBKPTH	XLD27_2	*No Matching Variable*	Item status flag for LD27_2
XCOLBKSA	XLD26_1	XCOLBKSA	Item status flag for LD26_1
XCOLBKSH	XLD26_2	XCOLBKSH	Item status flag for LD26_2
XCOLMICRA	XLD28_1	XCOLMICRA	Item status flag for LD28_1
XCOLMICRH	XLD28_2	XCOLMICRH	Item status flag for LD28_2
XCOLSERA	XLD29_1	XCOLSERA	Item status flag for LD29_1
XCOLSERH	XLD29_2	XCOLSERH	Item status flag for LD29_2
XCUPAMICR	XLC14	*No Matching Variable*	Item status flag for LC14
XDOCDEL	XLE37	XDOCDEL	Item status flag for LE37
XEXAUD	XLC16	XEXAUD	Item status flag for LC16
XEXBIB	XLC22	XEXBIB	Item status flag for LC22
XEXCOMP	XLC21	XEXCOMP	Item status flag for LC21
XEXDEL	XLC17	XEXDEL	Item status flag for LC17
XEXELBKS	XLC13	XEXELBKS	Item status flag for LC13
XEXELSER	XLC15	XEXELSER	Item status flag for LC15
XEXFUREQP	XLC20	*No Matching Variable*	Item status flag for LC20
XEXOTHIR	XLC19	XEXOTHIR	Item status flag for LC19
XEXOTH2000	XLC23	*No Matching Variable*	Item status flag for LC23
XEXPRES	XLC18	XEXPRES	Item status flag for LC18
XEXTOT	XLC24	XEXTOT	Item status flag for LC24
XEXTOT2000	XF2B02	*No Matching Variable*	Status flag for F2B02
XEXTOT2000B	XF3B02	*No Matching Variable*	Status flag for F3B02
XEXTOTE_G2000	XB123	*No Matching Variable*	Status flag for B123
XFRINGE	XLC25B	XFRINGE	Item status flag for LC25B
XGATECT	XLF42	XGATECT	Item status flag for LF42
XHOURS	XLF41	XHOURS	Item status flag for LF41
XILPNON	XLE32	XILPNON	Item status flag for LE32
XILPRET	XLE31	XILPRET	Item status flag for LE31
XILPTOT	XLE33	XILPTOT	Item status flag for LE33
XILRNON	XLE35	XILRNON	Item status flag for LE35
XILRRET	XLE34	XILRRET	Item status flag for LE34
XILRTOT	XLE36	XILRTOT	Item status flag for LE36
XIRPAMICR	XLC12	*No Matching Variable*	Item status flag for LC12
XPRESEN	XLE39	XPRESEN	Item status flag for LE39
XREFTRANS	XLF43	XREFTRANS	Item status flag for LF43
XSTASST	XLB7	XSTASST	Item status flag for LB7
XSTCONSRV	XLB6	*No Matching Variable*	Item status flag for LB6
XSTLIBPRO	XLB4	XSTLIBPRO	Item status flag for LB4
XSTLIBS	XLB2	XSTLIBS	Item status flag for LB2
XSTOTH	XLB5	XSTOTH	Item status flag for LB5

Appendix D—Crosswalks

Academic Libraries Survey (ALS) 2002

ALS crosswalk from 2000 to 2002, by variable order

ALS 2000 VARIABLE NAME	ALS 2000 EDTAB NAME	ALS 2002 VARIABLE NAME	ALS 2000 VARIABLE LABEL
XSTOTHPRO	XLB3	XSTOTHPRO	Item status flag for LB3
XSTTOT2000	XLB8	*No Matching Variable*	Item status flag for LB8
XSWASST	XLC11	XSWASST	Item status flag for LC11
XSWLIBPRO	XLC9	XSWLIBPRO	Item status flag for LC9
XSWOTH	XLC10	XSWOTH	Item status flag for LC10
XTFTFAC11_12M	XSAA304	*No Matching Variable*	Item status flag
XTFTFAC9_10M	XSAA154	*No Matching Variable*	Item status flag
ZIP	ZIP	ZIP	Zip + four

Appendix D—Crosswalks
Academic Libraries Survey (ALS) 2002

ALS crosswalk from 2000 to 2002, by file order

ALS 2000 VARIABLE NAME	ALS 2000 EDTAB NAME	ALS 2002 VARIABLE NAME	ALS 2000 VARIABLE LABEL
UNITID	UNITID	UNITID	Identification number
INSTNM	INSTNM	INSTNM	Institution (entity) name
ADDR	ADDR	ADDR	Street address or post office box
CITY	CITY	CITY	City location of institution
STABBR	STABBR	STABBR	Post Office State abbreviation code
ZIP	ZIP	ZIP	Zip + four
FIPS	FIPS	FIPS	FIPS state code
OBEREG	OBEREG	OBEREG	OBE Region code
EIN	EIN	EIN	Employer identification number
DUNS	DUNS	DUNS	Dunn & Bradstreet identification number
OPEID	OPEID	OPEID	Office of Postsecondary Education ID
OPEFLAG	OPEFLAG	OPEFLAG	OPE eligibility indicator code
WEBADDR	WEBADDR	WEBADDR	Institution's internet website address
SECTOR	SECTOR	SECTOR	Sector of institution
ICLEVEL	ICLEVEL	ICLEVEL	Level of institution
CONTROL	CONTROL	CONTROL	Control of institution
AFFIL	AFFIL	*No Matching Variable*	Affiliation of institution
HLOFFER	HLOFFER	HLOFFER	Highest level of offering
UGOFFER	UGOFFER	UGOFFER	Undergraduate offering
GROFFER	GROFFER	GROFFER	Graduate offering
FPOFFER	FPOFFER	FPOFFER	First-professional offering
HDEGOFFR	HDEGOFFR	HDEGOFFR	Highest degree offered
DEGGRANT	DEGGRANT	DEGGRANT	Degree granting status of institution
PCTMIN1	PCTMIN1	PCTMIN1	Percent Black, non-Hispanic
PCTMIN2	PCTMIN2	PCTMIN2	Percent American Indian/Alaskan Native
PCTMIN3	PCTMIN3	PCTMIN3	Percent Asian/Pacific Islander
PCTMIN4	PCTMIN4	PCTMIN4	Percent Hispanic
HBCU	HBCU	HBCU	Historically Black College or University
HOSPITAL	HOSPITAL	HOSPITAL	Institution has hospital
MEDICAL	MEDICAL	MEDICAL	Institution grants a medical degree
TRIBAL	TRIBAL	TRIBAL	Tribal college
CARNEGIE	CARNEGIE	CARNEGIE	Carnegie Classification Code
LOCALE	LOCALE	LOCALE	Degree of Urbanization
OPENPUBL	OPENPUBL	OPENPUBL	Institution open to the general public
ASSOCDEG	ASSOCDEG	*No Matching Variable*	Total # of associate deg frm Completions
BACHDEG	BACHDEG	*No Matching Variable*	Total # of bachelors deg frm Completions
MASTDEG	MASTDEG	*No Matching Variable*	Total # of masters deg frm Completions
DOCTDEG	DOCTDEG	*No Matching Variable*	Total # of doctors deg frm Completions
PROFDEG	PROFDEG	*No Matching Variable*	Total # of first prof deg fr Completions
ACT	ACT	ACT	Status of institution
FORM	FORM_L	*No Matching Variable*	Survey form
STATUS	STAT_L	STATUS	Response status of the institution
EDITSTATUS	EDIT_L	*No Matching Variable*	Edit status of the institution
IMPUTE	IMPUTE_L	IMPUTE	Impute status of the institution
DATEFLAG	DATE_L	*No Matching Variable*	Item status flag
CYPARCH	PARCH_L	CYPARCH	Parent/child indicator
UNITIDX	IDX_L	UNITIDX	UNITID number of parent institution
DATSRC	SRC_L	DATSRC	Medium used to collect data
REFUSAL	REFU_L	*No Matching Variable*	Refusal status of the institution
PARTAFLAG	IMP_LA	*No Matching Variable*	Impute status of Part A
PARTBFLAG	IMP_LB	*No Matching Variable*	Impute status of Part B
PARTCFLAG	IMP_LC	*No Matching Variable*	Impute status of Part C
PARTDFLAG	IMP_LD	*No Matching Variable*	Impute status of Part D
PARTEFLAG	IMP_LE	*No Matching Variable*	Impute status of Part E
PARTFFLAG	IMP_LF	*No Matching Variable*	Impute status of Part F
LIBSHAR1	LIBSHAR1	LIBSHAR1	UNITID for shared library
LIBNAME1	LIBNAME1	LIBNAME1	Name of shared library
LIBSHAR2	LIBSHAR2	LIBSHAR2	UNITID for shared library

Appendix D—Crosswalks
Academic Libraries Survey (ALS) 2002

ALS crosswalk from 2000 to 2002, by file order

ALS 2000 VARIABLE NAME	ALS 2000 EDTAB NAME	ALS 2002 VARIABLE NAME	ALS 2000 VARIABLE LABEL
LIBNAME2	LIBNAME2	LIBNAME2	Name of shared library
LIBSHAR3	LIBSHAR3	LIBSHAR3	UNITID for shared library
LIBNAME3	LIBNAME3	LIBNAME3	Name of shared library
ELGCOLL	ORGCOLL	ELGCOLL	Has organized collection of materials
ELGSTAFF	TRNSTAFF	ELGSTAFF	Institution has trained staff
ELGSCHED	ESTABSCH	ELGSCHED	Institution has established schedule
ELGPHYS	PHYSFAC	ELGPHYS	Has physical facilities for collection
FINSUPP	FINSUPRT	FINSUPP	Provides financial support to another
XBRANCHES	XLA1	XBRANCHES	Item status flag for LA1
BRANCHES	LA1	BRANCHES	Number of branch & independent libraries
XSTLIBS	XLB2	XSTLIBS	Item status flag for LB2
STLIBS	LB2	STLIBS	Librarians
XSTOTHPRO	XLB3	XSTOTHPRO	Item status flag for LB3
STOTHPRO	LB3	STOTHPRO	Other professional staff
XSTLIBPRO	XLB4	XSTLIBPRO	Item status flag for LB4
STLIBPRO	LB4	STLIBPRO	Total librarians & OPS (LB2+LB3)
XSTOTH	XLB5	XSTOTH	Item status flag for LB5
STOTH	LB5	STOTH	All other paid staff
XSTCONSRV	XLB6	*No Matching Variable*	Item status flag for LB6
STCONSRV	LB6	*No Matching Variable*	Contributed services staff
XSTASST	XLB7	XSTASST	Item status flag for LB7
STASST	LB7	STASST	Student assistants-all funding sources
XSTTOT2000	XLB8	*No Matching Variable*	Item status flag for LB8
STTOT2000	LB8	*No Matching Variable*	Total FTE staff (SUM(LB4-LB7))
XSWLIBPRO	XLC9	XSWLIBPRO	Item status flag for LC9
SWLIBPRO	LC9	SWLIBPRO	Expenditures for librarians & OPS
XSWOTH	XLC10	XSWOTH	Item status flag for LC10
SWOTH	LC10	SWOTH	Expenditures for all other paid staff
XSWASST	XLC11	XSWASST	Item status flag for LC11
SWASST	LC11	SWASST	Expenditures for student assistants
XIRPAMICR	XLC12	*No Matching Variable*	Item status flag for LC12
IRPAMICR	LC12	*No Matching Variable*	Expenditures-Books-paper and microforms
XEXELBKS	XLC13	XEXELBKS	Item status flag for LC13
EXELBKS	LC13	EXELBKS	Expenditures-Books-electronic
XCUPAMICR	XLC14	*No Matching Variable*	Item status flag for LC14
CUPAMICR	LC14	*No Matching Variable*	Exp-Current serials-paper & microforms
XEXELSER	XLC15	XEXELSER	Item status flag for LC15
EXELSER	LC15	EXELSER	Expenditures-Current serials-electronic
XEXAUD	XLC16	XEXAUD	Item status flag for LC16
EXAUD	LC16	EXAUD	Expenditures for audiovisual materials
XEXDEL	XLC17	XEXDEL	Item status flag for LC17
EXDEL	LC17	EXDEL	Expend-Document deliv/Interlibrary loan
XEXPRES	XLC18	XEXPRES	Item status flag for LC18
EXPRES	LC18	EXPRES	Expenditures for Preservation
XEXOTHIR	XLC19	XEXOTHIR	Item status flag for LC19
EXOTHIR	LC19	EXOTHIR	Expenditures for other materials
XEXFUREQP	XLC20	*No Matching Variable*	Item status flag for LC20
EXFUREQP	LC20	*No Matching Variable*	Expenditures for furniture & equipment
XEXCOMP	XLC21	XEXCOMP	Item status flag for LC21
EXCOMP	LC21	EXCOMP	Expend-Computer hardware and software
XEXBIB	XLC22	XEXBIB	Item status flag for LC22
EXBIB	LC22	EXBIB	Biblio utilities, networks, consortia
XEXOTH2000	XLC23	*No Matching Variable*	Item status flag for LC23
EXOTH2000	LC23	*No Matching Variable*	All other operating expenditures
XEXTOT	XLC24	XEXTOT	Item status flag for LC24
EXTOT	LC24	EXTOT	Total expenditures (sum LC9-LC23)
FRINGEYN	LC25A	FRINGEYN	Employee fringe benefits (paid fr lib)
XFRINGE	XLC25B	XFRINGE	Item status flag for LC25B

Appendix D—Crosswalks
Academic Libraries Survey (ALS) 2002

ALS crosswalk from 2000 to 2002, by file order

ALS 2000 VARIABLE NAME	ALS 2000 EDTAB NAME	ALS 2002 VARIABLE NAME	ALS 2000 VARIABLE LABEL
FRINGE	LC25B	FRINGE	Expenditures-Employee fringe benefits
XCOLBKSA	XLD26_1	XCOLBKSA	Item status flag for LD26_1
COLBKSA	LD26_1	COLBKSA	Books - paper - volumes added
XCOLBKSH	XLD26_2	XCOLBKSH	Item status flag for LD26_2
COLBKSH	LD26_2	COLBKSH	Books - paper - volumes held
XCOLBKPTA	XLD27_1	*No Matching Variable*	Item status flag for LD27_1
COLBKPTA	LD27_1	*No Matching Variable*	Books - paper - titles added
XCOLBKPTH	XLD27_2	*No Matching Variable*	Item status flag for LD27_2
COLBKPTH	LD27_2	*No Matching Variable*	Books - paper - titles held
XCOLMICRA	XLD28_1	XCOLMICRA	Item status flag for LD28_1
COLMICRA	LD28_1	COLMICRA	Books - microform - units added
XCOLMICRH	XLD28_2	XCOLMICRH	Item status flag for LD28_2
COLMICRH	LD28_2	COLMICRH	Books - microform - units held
XCOLSERA	XLD29_1	XCOLSERA	Item status flag for LD29_1
COLSERA	LD29_1	COLSERA	Current serial subscriptions added
XCOLSERH	XLD29_2	XCOLSERH	Item status flag for LD29_2
COLSERH	LD29_2	COLSERH	Current serial subscriptions held
XCOLAUDA	XLD30_1	XCOLAUDA	Item status flag for LD30_1
COLAUDA	LD30_1	COLAUDA	Audiovisual materials - units added
XCOLAUDH	XLD30_2	XCOLAUDH	Item status flag for LD30_2
COLAUDH	LD30_2	COLAUDH	Audiovisual materials - units held
XILPRET	XLE31	XILPRET	Item status flag for LE31
ILPRET	LE31	ILPRET	Interlib loans to othr lib-returnable
XILPNON	XLE32	XILPNON	Item status flag for LE32
ILPNON	LE32	ILPNON	Interlib loans to othr lib-non-return
XILPTOT	XLE33	XILPTOT	Item status flag for LE33
ILPTOT	LE33	ILPTOT	Interlib loans to othr lib-total
XILRRET	XLE34	XILRRET	Item status flag for LE34
ILRRET	LE34	ILRRET	Interlib loans from othr lib-returnable
XILRNON	XLE35	XILRNON	Item status flag for LE35
ILRNON	LE35	ILRNON	Interlib loans from othr lib-non-return
XILRTOT	XLE36	XILRTOT	Item status flag for LE36
ILRTOT	LE36	ILRTOT	Interlib loans from othr lib-total
XDOCDEL	XLE37	XDOCDEL	Item status flag for LE37
DOCDEL	LE37	DOCDEL	Docs delivered from commercial services
XCIRTRANS	XLE38	*No Matching Variable*	Item status flag for LE38
CIRTRANS	LE38	*No Matching Variable*	Circulation transactions
XPRESEN	XLE39	XPRESEN	Item status flag for LE39
PRESEN	LE39	PRESEN	Number of presentations
XATTEND	XLE40	XATTEND	Item status flag for LE40
ATTEND	LE40	ATTEND	Total attendance at all presentations
XHOURS	XLF41	XHOURS	Item status flag for LF41
HOURS	LF41	HOURS	Hours open in a typical week
XGATECT	XLF42	XGATECT	Item status flag for LF42
GATECT	LF42	GATECT	Gate count in a typical week
XREFTRANS	XLF43	XREFTRANS	Item status flag for LF43
REFTRANS	LF43	REFTRANS	Reference transactions in a typical week
ELCATYN	LG44_1	*No Matching Variable*	Access of elec catalog within library
ELCATCMPYN	LG44_2	*No Matching Variable*	Access-elec catalg elsewhere on campus
ELCATOCPYN	LG44_3	*No Matching Variable*	Acc-elec catalg off campus-prmary client
ELCATOCOYN	LG44_4	*No Matching Variable*	Access-elec catalog off campus-others
ELINDYN	LG45_1	*No Matching Variable*	Acc elec index & ref tools w/in lib
ELINDCMPYN	LG45_2	*No Matching Variable*	Acc elec index & ref tool else on cmp
ELINDOCPYN	LG45_3	*No Matching Variable*	Acc elec index & ref tool off cmp-prmry
ELINDOCOYN	LG45_4	*No Matching Variable*	Acc elec index & ref tool off cmp-oth
ELPERYN	LG46_1	*No Matching Variable*	Acc elec full text periodical w/in lib
ELPERCMPYN	LG46_2	*No Matching Variable*	Acc elec full text period. else on cmp
ELPEROCPYN	LG46_3	*No Matching Variable*	Acc elec full text period. off cmp-prm

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ALS crosswalk from 2000 to 2002, by file order

ALS 2000 VARIABLE NAME	ALS 2000 EDTAB NAME	ALS 2002 VARIABLE NAME	ALS 2000 VARIABLE LABEL
ELPEROCOYN	LG46_4	*No Matching Variable*	Acc elec full text period. off cmp-oth
ELCRSYN	LG47_1	*No Matching Variable*	Acc elec full text course res w/in lib
ELCRSCMPYN	LG47_2	*No Matching Variable*	Acc elec fl txt course res else on cmp
ELCRSOCPYN	LG47_3	*No Matching Variable*	Acc elec fl txt course res off cmp-prm
ELCRSOCOYN	LG47_4	*No Matching Variable*	Acc elec fl txt course res off cmp-oth
DOCDIGYN	LG48_1	DOCDIGYN	Acc elec files(not ctlg) w/in lib
DOCDIGCMPYN	LG48_2	*No Matching Variable*	Acc elec files(not ctlg) else on cmpus
DOCDIGOCPYN	LG48_3	*No Matching Variable*	Acc elec files(not ctlg) off cmpus-prm
DOCDIGOCOYN	LG48_4	*No Matching Variable*	Acc elec files(not ctlg) off cmpus-oth
INETYN	LG49_1	*No Matching Variable*	Internet access w/in library
INETCMPYN	LG49_2	*No Matching Variable*	Internet access elsewhere on campus
INETOCPYN	LG49_3	*No Matching Variable*	Internet access off campus-primary
INETOCOYN	LG49_4	*No Matching Variable*	Internet access off campus-other
LIBREFYN	LG50_1	LIBREFYN	Lib ref serv by email w/in library
LIBREFCMPYN	LG50_2	*No Matching Variable*	Lib ref serv by email else on campus
LIBREFOCPYN	LG50_3	*No Matching Variable*	Lib ref serv by email off campus-prim
LIBREFOCOYN	LG50_4	*No Matching Variable*	Lib ref serv by email off campus-othr
LOANREQYN	LG51_1	*No Matching Variable*	Interlib loan req elec w/in library
LOANREQCMPYN	LG51_2	*No Matching Variable*	Interlib loan req elec else on campus
LOANREQOCPYN	LG51_3	*No Matching Variable*	Interlib loan req elec off campus-prim
LOANREQOCOYN	LG51_4	*No Matching Variable*	Interlib loan req elec off campus-othr
TECHYN	LG52_1	TECHYN	Tech to asst patrons w/disabil w/in lib
TECHCMPYN	LG52_2	*No Matching Variable*	Tech to asst ptrns w/disabil else on cmp
TECHOCPYN	LG52_3	*No Matching Variable*	Tech to asst ptrns w/disabil off cmp-prm
TECHOCOYN	LG52_4	*No Matching Variable*	Tech to asst ptrns w/disabil off cmp-oth
INSINETYN	LG53_1	*No Matching Variable*	Instr by lib stf-internet w/in lib
INSINETCMPYN	LG53_2	*No Matching Variable*	Instr by lib stf-internet else on cmp
INSINETOCPYN	LG53_3	*No Matching Variable*	Instr by lib stf-internet off cmp-prm
INSINETOCOYN	LG53_4	*No Matching Variable*	Instr by lib stf-internet off cmp-oth
ELDOCDELYN	LG54_1	*No Matching Variable*	Elec doc deliv-lib to acct w/in lib
ELDOCDELCMPYN	LG54_2	*No Matching Variable*	Elec doc deliv-lib to acct else on cmp
ELDOCDELOCPYN	LG54_3	*No Matching Variable*	Elec doc deliv-lib to acct off cmp-prm
ELDOCDELOCOYN	LG54_4	*No Matching Variable*	Elec doc deliv-lib to acct off cmp-oth
VDOCONFYN	LG55_1	*No Matching Variable*	Video/desktop conf for lib w/in lib
VDOCONFCMPYN	LG55_2	*No Matching Variable*	Video/desktop conf for lib else on cmp
VDOCONFOCPYN	LG55_3	*No Matching Variable*	Video/desktop conf for lib off cmp-prm
VDOCONFOCOYN	LG55_4	*No Matching Variable*	Video/desktop conf for lib off cmp-oth
SATBRYN	LG56_1	*No Matching Variable*	Satellite broadcast for lib w/in lib
SATBRCMPYN	LG56_2	*No Matching Variable*	Satellite broadcast for lib-else on cmp
SATBROCPYN	LG56_3	*No Matching Variable*	Satellite broadcast for lib-off cmp-prm
SATBROCOYN	LG56_4	*No Matching Variable*	Satellite broadcast for lib-off cmp-oth
COMPUTERYN	LG57	*No Matching Variable*	Computers for patron use in library
SOFTWAREYN	LG58	*No Matching Variable*	Computer software for patron use in lib
SCANNERYN	LG59	*No Matching Variable*	Scanning equip for patron use in library
DISTEDYN	LG60A	*No Matching Variable*	Institution has distance ed students
DISTEDSRVYN	LG60B	*No Matching Variable*	Services to distance education students
CNSUBYN	LG61	CNSUBYN	Subsidized consortium-access to elec res
CNPARTYN	LG62	CNPARTYN	Library particpates in the consortium
CNFULLYN	LG63	CNFULLYN	Cost of participation fully funded-state
CNPRTLYN	LG64	CNPRTLYN	Participation partially funded by state
CNOTHRYN	LG65	CNOTHRYN	Participate in other consortia-elec res
FTUS9899	FTUNDER	*No Matching Variable*	Full-time undergraduate students 1998-99
FTGS9899	FTGRAD	*No Matching Variable*	Full-time graduate students 1998-99
PTUS9899	PTUNDER	*No Matching Variable*	Part-time undergraduate students 1998-99
PTGS9899	PTGRAD	*No Matching Variable*	Part-time graduate students 1998-99
TOTENR9899	ENROLL	*No Matching Variable*	Total enrollment 1998-99
XTFTFAC9_10M	XSAA154	*No Matching Variable*	Item status flag
TFTFAC9_10M	SAA154	*No Matching Variable*	Total FT faculty on 9/10 month contract

Appendix D—Crosswalks
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ALS crosswalk from 2000 to 2002, by file order

ALS 2000 VARIABLE NAME	ALS 2000 EDTAB NAME	ALS 2002 VARIABLE NAME	ALS 2000 VARIABLE LABEL
XTFTFAC11_12M	XSAA304	*No Matching Variable*	Item status flag
TFTFAC11_12M	SAA304	*No Matching Variable*	Total FT faculty on 11/12 month contract
XEXTOTE_G2000	XB123	*No Matching Variable*	Status flag for B123
EXTOTE_G2000	B123	*No Matching Variable*	Total E&G expenditures 2000
EXTOT2000	F2B02	*No Matching Variable*	Total expenses 2000
XEXTOT2000	XF2B02	*No Matching Variable*	Status flag for F2B02
EXTOT2000B	F3B02	*No Matching Variable*	Total expenses 2000
XEXTOT2000B	XF3B02	*No Matching Variable*	Status flag for F3B02

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ALS crosswalk from 2002 to 2000, by var order

ALS 2002 VARIABLE NAME	ALS 2000 VARIABLE NAME	ALS 2000 EDTAB NAME	ALS 2002 VARIABLE LABEL
ACT	ACT	ACT	Status of the Institution
ADDR	ADDR	ADDR	Institution Address
ATTEND	ATTEND	LE40	Total Attendance at Presentations
BRANCHES	BRANCHES	LA1	Number of Branch and Independent Libraries
CARNEGIE	CARNEGIE	CARNEGIE	Carnegie Classification Code
CITY	CITY	CITY	Institution City
CNFULLYN	CNFULLYN	LG63	Consortium Cost Fully Funded by State
CNOTHRYN	CNOTHRYN	LG65	Library Participate in any Other Consortia
CNPARTYN	CNPARTYN	LG62	Participate in Consortium
CNPRTLYN	CNPRTLYN	LG64	Consortium Cost Partially Funded by State
CNSUBYN	CNSUBYN	LG61	State have Subsidized Library Consortium
COLAUDA	COLAUDA	LD30_1	Collections - Audiovisual - Added
COLAUDH	COLAUDH	LD30_2	Collections - Audiovisual - Held
COLBKSA	COLBKSA	LD26_1	Collections - Books - Added
COLBKSH	COLBKSH	LD26_2	Collections - Books - Held
COLEBKSA	No Matching Variable	No Matching Variable	Collections - E Books - Added
COLEBKSH	No Matching Variable	No Matching Variable	Collections - E Books - Held
COLMICRA	COLMICRA	LD28_1	Collections - Microforms - Added
COLMICRH	COLMICRH	LD28_2	Collections - Microforms - Held
COLSERA	COLSERA	LD29_1	Collections - Serial Subscription - Added
COLSERH	COLSERH	LD29_2	Collections - Serial Subscriptions Held
CONTROL	CONTROL	CONTROL	Control of Institution
CRGEN	No Matching Variable	No Matching Variable	General Circulation Transactions
CRRSV	No Matching Variable	No Matching Variable	Reserve Circulation Transactions
CYPARCH	CYPARCH	PARCH_L	Current Year Parent/Child Indicator
DATSRC	DATSRC	SRC_L	Data Source Code - Media Source Used for Returning Data
DEGGRANT	DEGGRANT	DEGGRANT	Degree Granting Status
DOCDEL	DOCDEL	LE37	Documents Delivered from Commercial Services
DOCDIGYN	DOCDIGYN	LG48_1	Does Documents Digitized by Library Staff
DUNS	DUNS	DUNS	Dunn and Bradstreet Id Number
EDITDATE	No Matching Variable	No Matching Variable	Most Recent Edit Date
EDITST	No Matching Variable	No Matching Variable	Release Status Give to NCES
EIN	EIN	EIN	Employer Id Number
ELGCOLL	ELGCOLL	ORGCOLL	Institution has an Eligible Collection
ELGPHYS	ELGPHYS	PHYSFAC	Institution has physical Library Facility
ELGSCHED	ELGSCHED	ESTABSCH	Institution has an Established Schedule
ELGSTAFF	*ELGSTAFF*	*TRNSTAFF*	Institution has Eligible Staff
EXAUD	*EXAUD*	*LC16*	Expenditure - Audio visual
EXBIB	EXBIB	LC22	Expenditure - Bibliographic Utilities
EXBKS	*No Matching Variable*	*No Matching Variable*	Expenditure - Books
EXCOMP	*EXCOMP*	*LC21*	Expenditure - Computer Hardware Software
EXCUSER	*No Matching Variable*	*No Matching Variable*	Expenditure - Serial Subscription
EXDEL	*EXDEL*	*LC17*	Expenditure - Document Deliver
EXELBKS	*EXELBKS*	*LC13*	Expenditure - Electronic Books
EXELSER	*EXELSER*	*LC15*	Expenditure - Electronic serials
EXOTH	*No Matching Variable*	*No Matching Variable*	Expenditure - All Other Operating Expenditure
EXOTHIR	*EXOTHIR*	*LC19*	Expenditure - Other Information Resources
EXPRES	*EXPRES*	*LC18*	Expenditure - Preservation
EXTOT	*EXTOT*	*LC24*	Expenditure - Total
FINSUPP	*FINSUPP*	*FINSUPRT*	Provide Financial Support to Another Library
FIPS	*FIPS*	*FIPS*	FIPS state code
FPOFFER	*FPOFFER*	*FPOFFER*	First Professional Offering
FRINGE	*FRINGE*	*LC25B*	Fringe Benefit
FRINGEYN	*FRINGEYN*	*LC25A*	Are Fringe Benefit paid from Library Budget
FTEFLAG	No Matching Variable	No Matching Variable	Full-Time Equivalent Estimated or Not
FTEUSED	No Matching Variable	No Matching Variable	Full-time Equivalent
GATECT	GATECT	LF42	Gate Count in a Typical Week
GROFFER	GROFFER	GROFFER	Graduate Offering
HBCU	HBCU	HBCU	Historically Black College/University

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ALS crosswalk from 2002 to 2000, by var order

ALS 2002 VARIABLE NAME	ALS 2000 VARIABLE NAME	ALS 2000 EDTAB NAME	ALS 2002 VARIABLE LABEL
HDEGOFFR	HDEGOFFR	HDEGOFFR	Highest Degree Offered
HLOFFER	HLOFFER	HLOFFER	Highest Level of Education Offering
HOSPITAL	HOSPITAL	HOSPITAL	Institution has Hospital
HOURS	HOURS	LF41	Hours Open in a Typical Week
ICLEVEL	ICLEVEL	ICLEVEL	Level of Institution
ILPNON	ILPNON	LE32	Inter Library Loans Provided Non-returnable
ILPRET	ILPRET	LE31	Inter Library Loans Provided Returnable
ILPTOT	ILPTOT	LE33	Inter Library Loans Provided Total
ILRNON	ILRNON	LE35	Inter Library Loans Received Non-returnable
ILRRET	ILRRET	LE34	Inter Library Loans Received Returnable
ILRTOT	ILRTOT	LE36	Inter Library Loans Received Total
IMPDATE	No Matching Variable	No Matching Variable	Most Recent Impute Date
IMPUTE	IMPUTE	IMPUTE_L	Impute Indicator
INSTNM	INSTNM	INSTNM	Institution Name
LIBNAME1	LIBNAME1	LIBNAME1	Name of 1st Institution Library is Shared With
LIBNAME2	LIBNAME2	LIBNAME2	Name of 2nd Institution Library is Shared With
LIBNAME3	LIBNAME3	LIBNAME3	Name of 3rd Institution Library is Shared With
LIBREFYN	LIBREFYN	LG50_1	Does Library Provide Reference Service by Email or Web
LIBSHAR1	LIBSHAR1	LIBSHAR1	Shared Library, 1st Unit Id
LIBSHAR2	LIBSHAR2	LIBSHAR2	Shared Library, 2nd Unit Id
LIBSHAR3	LIBSHAR3	LIBSHAR3	Shared Library, 3rd Unit Id
LOCALE	LOCALE	LOCALE	Locale Code - Degree of Urbanization
MEDICAL	MEDICAL	MEDICAL	Institution Grants Medical Degree
NCESDATE	No Matching Variable	No Matching Variable	Date Imputations Run by ESMPD
OBEREG	OBEREG	OBEREG	OBE Region Code
OPEFLAG	OPEFLAG	OPEFLAG	OPE Eligibility Indicator
OPEID	OPEID	OPEID	Office of Post Sec Education Id Num for Title IV Participant
OPENPUBL	OPENPUBL	OPENPUBL	Institution Open to the General Public
PARTAFLAG1	*No Matching Variable*	*No Matching Variable*	Imp Flag for Line Item 1
PARTBFLAG1	*No Matching Variable*	*No Matching Variable*	Imp Flag for Line Items 2-7
PARTBFLAG2	*No Matching Variable*	*No Matching Variable*	Imp Flag for Line Items 8a,8b
PARTCFLAG1	No Matching Variable	No Matching Variable	Imp Flag for Line Items 10,13,15-21
PARTCFLAG2	No Matching Variable	No Matching Variable	Imp Flag for Line Items 11,12,14
PARTDFLAG1	No Matching Variable	No Matching Variable	Imp Flag for Line Items 22,24-26
PARTDFLAG2	*No Matching Variable*	*No Matching Variable*	Imp Flag for Line Item 23
PARTEFLAG1	*No Matching Variable*	*No Matching Variable*	Imp Flag for Line Items 27-33
PARTEFLAG2	No Matching Variable	No Matching Variable	Imp Flag for Line Items 34a,34b
PARTEFLAG3	No Matching Variable	No Matching Variable	Imp Flag for Line Items 35,36
PARTFFLAG1	No Matching Variable	No Matching Variable	Imp Flag for Line Items 37-39
PCTMIN1	PCTMIN1	PCTMIN1	Percent Black non-Hispanic 2001 Fall Enroll
PCTMIN2	*PCTMIN2*	*PCTMIN2*	Percent American Indian 2001 Fall Enroll
PCTMIN3	*PCTMIN3*	*PCTMIN3*	Percent Asian/Pacific Islander 2001 Fall Enroll
PCTMIN4	PCTMIN4	PCTMIN4	Percent Hispanic 2001 Fall Enroll
PRESEN	PRESEN	LE39	Number of Presentations
REFTRANS	REFTRANS	LF43	Reference Transactions in a Typical Week
SECTOR	SECTOR	SECTOR	Sector of Institution
STABBR	STABBR	STABBR	State Abbreviation Code
STASST	STASST	LB7	Student Assistants
STATUS	STATUS	STAT_L	Response Status Code
STLIBPRO	STLIBPRO	LB4	Staff - Total Librarians and Other Professional Staff
STLIBS	STLIBS	LB2	Staff - Librarians
STOTH	STOTH	LB5	All Other Paid Staff
STOTHPRO	STOTHPRO	LB3	Staff - Other Professional Staff
SWASST	SWASST	LC11	Salary & Wage - Student Assistant
SWLIBPRO	SWLIBPRO	LC9	Salary & Wage - Librarian and Other Professional Staff
SWOTH	SWOTH	LC10	Salary & Wage - Other Paid Staff
SWTOT	No Matching Variable	No Matching Variable	Salary & Wage - Total Full Time Equivalent
TECHYN	TECHYN	LG52_1	Technology to Assist the Disabled

Appendix D—Crosswalks
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ALS crosswalk from 2002 to 2000, by var order

ALS 2002 VARIABLE NAME	ALS 2000 VARIABLE NAME	ALS 2000 EDTAB NAME	ALS 2002 VARIABLE LABEL
THESYN	No Matching Variable	No Matching Variable	Electronic Theses Produced by Students
TRIBAL	TRIBAL	TRIBAL	Tribal College
UGOFFER	*UGOFFER*	*UGOFFER*	Undergraduate Offering
UNITID	*UNITID*	*UNITID*	Unit Id Number for the Institution
UNITIDX	UNITIDX	IDX_L	If Child, Parent Institution Unit Id
WEBADDR	WEBADDR	WEBADDR	Institutions Web Address
XATTEND	XATTEND	XLE40	Status Flag - Attendance at Presentations
XBRANCHES	XBRANCHES	XLA1	Status Flag - Branch
XCNFULLYN	No Matching Variable	No Matching Variable	Status Flag - Consortium Cost Fully Funded by State
XCNOTHRYN	No Matching Variable	No Matching Variable	Status Flag - Library Participate in Any Other Consortia
XCNPARTYN	No Matching Variable	No Matching Variable	Status Flag - Participate in Consortium
XCNPRTLYN	No Matching Variable	No Matching Variable	Status Flag - Consortium Cost Partially Funded by State
XCNSUBYN	*No Matching Variable*	*No Matching Variable*	Status Flag - State have Subsidized Library Consortium
XCOLAUDA	*XCOLAUDA*	*XLD30_1*	Status Flag - Collections Audiovisual Added
XCOLAUDH	XCOLAUDH	XLD30_2	Status Flag - Collections Audiovisual Held
XCOLBKSA	XCOLBKSA	XLD26_1	Status Flag - Collections Books Added
XCOLBKSH	XCOLBKSH	XLD26_2	Status Flag - Collections Books Held
XCOLEBKSA	No Matching Variable	No Matching Variable	Status Flag - Collections EBooks Added
XCOLEBKSH	No Matching Variable	No Matching Variable	Status Flag - Collections E Books Held
XCOLMICRA	XCOLMICRA	XLD28_1	Status Flag - Collections Microforms Added
XCOLMICRH	XCOLMICRH	XLD28_2	Status Flag - Collections Microforms Held
XCOLSERA	XCOLSERA	XLD29_1	Status Flag - Collections Serial Added
XCOLSERH	XCOLSERH	XLD29_2	Status Flag - Collections Serial Held
XCRGEN	No Matching Variable	No Matching Variable	Status Flag - Genneral Circulation Transactions
XCRRSV	No Matching Variable	No Matching Variable	Status Flag - Reserve Circulation Transactions
XDOCDEL	XDOCDEL	XLE37	Status Flag - Documents Delivered from Commercial Services
XDOCDIGYN	No Matching Variable	No Matching Variable	Status Flag - Does Documents Digitized by Library Staff
XEXAUD	XEXAUD	XLC16	Status Flag - Expenditure Audio Visual
XEXBIB	XEXBIB	XLC22	Status Flag - Expenditure Bibliograhic
XEXBKS	No Matching Variable	No Matching Variable	Status Flag - Expenditure Books
XEXCOMP	XEXCOMP	XLC21	Status Flag - Expenditure Computer
XEXCUSER	No Matching Variable	No Matching Variable	Status Flag - Expenditure Serial Subscription
XEXDEL	XEXDEL	XLC17	Status Flag - Expenditure Document Deliver
XEXELBKS	XEXELBKS	XLC13	Status Flag - Expenditure Electronic Books
XEXELSER	*XEXELSER*	*XLC15*	Status Flag - Expenditure Electronic Serials
XEXOTH	*No Matching Variable*	*No Matching Variable*	Status Flag - Expenditure All Other Operating Expenditure
XEXOTHIR	*XEXOTHIR*	*XLC19*	Status Flag - Expenditure Other Information Resources
XEXPRES	*XEXPRES*	*XLC18*	Status Flag - Expenditure Preservation
XEXTOT	XEXTOT	XLC24	Status Flag - Expenditure Total
XFRINGE	XFRINGE	XLC25B	Status Flag - Fringe Benefit
XFRINGEYN	No Matching Variable	No Matching Variable	Status Flag - Fringe Benefit Paid from Library Budget Y/N
XGATECT	XGATECT	XLF42	Status Flag - Gate Count in a Typical Week
XHOURS	XHOURS	XLF41	Status Flag - Hours Open in a Typical Week
XILPNON	XILPNON	XLE32	Status Flag - Inter Library Loans Provided Non-returnable
XILPRET	XILPRET	XLE31	Status Flag - Inter Library Loans Provided Returnable
XILPTOT	XILPTOT	XLE33	Status Flag - Inter Library Loans Provided Total
XILRNON	XILRNON	XLE35	Status Flag - Inter Library Loans Received Non-returnable
XILRRET	XILRRET	XLE34	Status Flag - Inter Library Loans Received Returnable
XILRTOT	*XILRTOT*	*XLE36*	Status Flag - Inter Library Loans Received Total
XLIBREFYN	No Matching Variable	No Matching Variable	Status Flag - Library Provide Reference Service by Email
XPRESEN	*XPRESEN*	*XLE39*	Status Flag - Number of Presentations
XREFTRANS	XREFTRANS	XLF43	Status Flag - Reference Transactions in a Typical Week
XSTASST	*XSTASST*	*XLB7*	Status Flag - Student Assistants
XSTLIBPRO	XSTLIBPRO	XLB4	Status Flag - Librarians and Other Professional Staff
XSTLIBS	*XSTLIBS*	*XLB2*	Status Flag - Librarians
XSTOTH	*XSTOTH*	*XLB5*	Status Flag - Other Paid Staff
XSTOTHPRO	*XSTOTHPRO*	*XLB3*	Status Flag - Other Professional Staff
XSWASST	XSWASST	XLC11	Status Flag - Salary Student Assistant

Appendix D—Crosswalks
Academic Libraries Survey (ALS) 2002

ALS crosswalk from 2002 to 2000, by var order

ALS 2002 VARIABLE NAME	ALS 2000 VARIABLE NAME	ALS 2000 EDTAB NAME	ALS 2002 VARIABLE LABEL
XSWLIBPRO	*XSWLIBPRO*	*XLC9*	Status Flag - Salary Librarian and Other Professional Staff
XSWOTH	XSWOTH	XLC10	Status Flag - Other Paid Staff
XSWTOT	*No Matching Variable*	*No Matching Variable*	Status Flag - Total Salary & Wage Full-Time Equivalent
XTECHYN	No Matching Variable	No Matching Variable	Status Flag - Technology to Assist the Disabled
XTHESYN	*No Matching Variable*	*No Matching Variable*	Status Flag - Electronic Theses Produced by Students
ZIP	ZIP	ZIP	Postal Zip code PLUS 4

Appendix D—Crosswalks
Academic Libraries Survey (ALS) 2002

ALS crosswalk from 2002 to 2000, by file order

ALS 2002 VARIABLE NAME	ALS 2000 VARIABLE NAME	ALS 2000 EDTAB NAME	ALS 2002 VARIABLE LABEL
UNITID	UNITID	UNITID	Unit Id Number for the Institution
INSTNM	INSTNM	INSTNM	Institution Name
ADDR	ADDR	ADDR	Institution Address
CITY	CITY	CITY	Institution City
STABBR	STABBR	STABBR	State Abbreviation Code
ZIP	ZIP	ZIP	Postal Zip code PLUS 4
FIPS	FIPS	FIPS	FIPS state code
ACT	ACT	ACT	Status of the Institution
OBEREG	OBEREG	OBEREG	OBE Region Code
EIN	EIN	EIN	Employer Id Number
DUNS	DUNS	DUNS	Dunn and Bradstreet Id Number
OPEID	OPEID	OPEID	Office of Post Sec Education Id Num for Title IV Participant
OPEFLAG	OPEFLAG	OPEFLAG	OPE Eligibility Indicator
WEBADDR	WEBADDR	WEBADDR	Institutions Web Address
SECTOR	SECTOR	SECTOR	Sector of Institution
ICLEVEL	ICLEVEL	ICLEVEL	Level of Institution
CONTROL	CONTROL	CONTROL	Control of Institution
HLOFFER	HLOFFER	HLOFFER	Highest Level of Education Offering
UGOFFER	UGOFFER	UGOFFER	Undergraduate Offering
GROFFER	GROFFER	GROFFER	Graduate Offering
FPOFFER	FPOFFER	FPOFFER	First Professional Offering
HDEGOFFR	HDEGOFFR	HDEGOFFR	Highest Degree Offered
DEGGRANT	DEGGRANT	DEGGRANT	Degree Granting Status
PCTMIN1	PCTMIN1	PCTMIN1	Percent Black non-Hispanic 2001 Fall Enroll
PCTMIN2	PCTMIN2	PCTMIN2	Percent American Indian 2001 Fall Enroll
PCTMIN3	PCTMIN3	PCTMIN3	Percent Asian/Pacific Islander 2001 Fall Enroll
PCTMIN4	PCTMIN4	PCTMIN4	Percent Hispanic 2001 Fall Enroll
HBCU	HBCU	HBCU	Historically Black College/University
HOSPITAL	HOSPITAL	HOSPITAL	Institution has Hospital
MEDICAL	MEDICAL	MEDICAL	Institution Grants Medical Degree
TRIBAL	TRIBAL	TRIBAL	Tribal College
CARNEGIE	CARNEGIE	CARNEGIE	Carnegie Classification Code
LOCALE	LOCALE	LOCALE	Locale Code - Degree of Urbanization
OPENPUBL	OPENPUBL	OPENPUBL	Institution Open to the General Public
DATSRC	DATSRC	SRC_L	Data Source Code - Media Source Used for Returning Data
STATUS	STATUS	STAT_L	Response Status Code
EDITST	*No Matching Variable*	*No Matching Variable*	Release Status Give to NCES
EDITDATE	*No Matching Variable*	*No Matching Variable*	Most Recent Edit Date
IMPUTE	IMPUTE	IMPUTE_L	Impute Indicator
IMPDATE	*No Matching Variable*	*No Matching Variable*	Most Recent Impute Date
PARTAFLAG1	*No Matching Variable*	*No Matching Variable*	Imp Flag for Line Item 1
PARTBFLAG1	*No Matching Variable*	*No Matching Variable*	Imp Flag for Line Items 2-7
PARTBFLAG2	*No Matching Variable*	*No Matching Variable*	Imp Flag for Line Items 8a,8b
PARTCFLAG1	*No Matching Variable*	*No Matching Variable*	Imp Flag for Line Items 10,13,15-21
PARTCFLAG2	*No Matching Variable*	*No Matching Variable*	Imp Flag for Line Items 11,12,14
PARTDFLAG1	*No Matching Variable*	*No Matching Variable*	Imp Flag for Line Items 22,24-26
PARTDFLAG2	*No Matching Variable*	*No Matching Variable*	Imp Flag for Line Item 23
PARTEFLAG1	*No Matching Variable*	*No Matching Variable*	Imp Flag for Line Items 27-33
PARTEFLAG2	*No Matching Variable*	*No Matching Variable*	Imp Flag for Line Items 34a,34b
PARTEFLAG3	*No Matching Variable*	*No Matching Variable*	Imp Flag for Line Items 35,36
PARTFFLAG1	*No Matching Variable*	*No Matching Variable*	Imp Flag for Line Items 37-39
NCESDATE	*No Matching Variable*	*No Matching Variable*	Date Imputations Run by ESMPD
FTEUSED	*No Matching Variable*	*No Matching Variable*	Full-time Equivalent
FTEFLAG	*No Matching Variable*	*No Matching Variable*	Full-Time Equivalent Estimated or Not
ELGCOLL	ELGCOLL	ORGCOLL	Institution has an Eligible Collection
ELGSTAFF	ELGSTAFF	TRNSTAFF	Institution has Eligible Staff
ELGSCHED	ELGSCHED	ESTABSCH	Institution has an Established Schedule
ELGPHYS	ELGPHYS	PHYSFAC	Institution has physical Library Facility
FINSUPP	FINSUPP	FINSUPRT	Provide Financial Support to Another Library

Appendix D—Crosswalks
Academic Libraries Survey (ALS) 2002

ALS crosswalk from 2002 to 2000, by file order

ALS 2002 VARIABLE NAME	ALS 2000 VARIABLE NAME	ALS 2000 EDTAB NAME	ALS 2002 VARIABLE LABEL
CYPARCH	CYPARCH	PARCH_L	Current Year Parent/Child Indicator
UNITIDX	UNITIDX	IDX_L	If Child, Parent Institution Unit Id
LIBSHAR1	LIBSHAR1	LIBSHAR1	Shared Library, 1st Unit Id
LIBNAME1	LIBNAME1	LIBNAME1	Name of 1st Institution Library is Shared With
LIBSHAR2	LIBSHAR2	LIBSHAR2	Shared Library, 2nd Unit Id
LIBNAME2	LIBNAME2	LIBNAME2	Name of 2nd Institution Library is Shared With
LIBSHAR3	LIBSHAR3	LIBSHAR3	Shared Library, 3rd Unit Id
LIBNAME3	LIBNAME3	LIBNAME3	Name of 3rd Institution Library is Shared With
XBRANCHES	XBRANCHES	XLA1	Status Flag - Branch
BRANCHES	BRANCHES	LA1	Number of Branch and Independent Libraries
XSTLIBS	XSTLIBS	XLB2	Status Flag - Librarians
STLIBS	STLIBS	LB2	Staff - Librarians
XSTOTHPRO	XSTOTHPRO	XLB3	Status Flag - Other Professional Staff
STOTHPRO	STOTHPRO	LB3	Staff - Other Professional Staff
XSTLIBPRO	XSTLIBPRO	XLB4	Status Flag - Librarians and Other Professional Staff
STLIBPRO	STLIBPRO	LB4	Staff - Total Librarians and Other Professional Staff
XSTOTH	XSTOTH	XLB5	Status Flag - Other Paid Staff
STOTH	STOTH	LB5	All Other Paid Staff
XSTASST	XSTASST	XLB7	Status Flag - Student Assistants
STASST	STASST	LB7	Student Assistants
XSWLIBPRO	XSWLIBPRO	XLC9	Status Flag - Salary Librarian and Other Professional Staff
SWLIBPRO	SWLIBPRO	LC9	Salary & Wage - Librarian and Other Professional Staff
XSWOTH	XSWOTH	XLC10	Status Flag - Other Paid Staff
SWOTH	SWOTH	LC10	Salary & Wage - Other Paid Staff
XSWASST	XSWASST	XLC11	Status Flag - Salary Student Assistant
SWASST	SWASST	LC11	Salary & Wage - Student Assistant
XSWTOT	No Matching Variable	No Matching Variable	Status Flag - Total Salary & Wage Full-Time Equivalent
SWTOT	No Matching Variable	No Matching Variable	Salary & Wage - Total Full Time Equivalent
XFRINGEYN	*No Matching Variable*	*No Matching Variable*	Status Flag - Fringe Benefit Paid from Library Budget Y/N
FRINGEYN	*FRINGEYN*	LC25A	Are Fringe Benefit paid from Library Budget
XFRINGE	*XFRINGE*	XLC25B	Status Flag - Fringe Benefit
FRINGE	FRINGE	LC25B	Fringe Benefit
XEXBKS	No Matching Variable	No Matching Variable	Status Flag - Expenditure Books
EXBKS	No Matching Variable	No Matching Variable	Expenditure - Books
XEXELBKS	*XEXELBKS*	XLC13	Status Flag - Expenditure Electronic Books
EXELBKS	*EXELBKS*	LC13	Expenditure - Electronic Books
XEXAUD	XEXAUD	XLC16	Status Flag - Expenditure Audio Visual
EXAUD	EXAUD	LC16	Expenditure - Audio visual
XEXCUSER	No Matching Variable	No Matching Variable	Status Flag - Expenditure Serial Subscription
EXCUSER	No Matching Variable	No Matching Variable	Expenditure - Serial Subscription
XEXELSER	*XEXELSER*	XLC15	Status Flag - Expenditure Electronic Serials
EXELSER	*EXELSER*	LC15	Expenditure - Electronic serials
XEXDEL	XEXDEL	XLC17	Status Flag - Expenditure Document Deliver
EXDEL	EXDEL	LC17	Expenditure - Document Deliver
XEXPRES	XEXPRES	XLC18	Status Flag - Expenditure Preservation
EXPRES	EXPRES	LC18	Expenditure - Preservation
XEXOTHIR	XEXOTHIR	XLC19	Status Flag - Expenditure Other Information Resources
EXOTHIR	EXOTHIR	LC19	Expenditure - Other Information Resources
XEXCOMP	XEXCOMP	XLC21	Status Flag - Expenditure Computer
EXCOMP	EXCOMP	LC21	Expenditure - Computer Hardware Software
XEXBIB	XEXBIB	XLC22	Status Flag - Expenditure Bibliograhic
EXBIB	EXBIB	LC22	Expenditure - Bibliographic Utilities
XEXOTH	No Matching Variable	No Matching Variable	Status Flag - Expenditure All Other Operating Expenditure
EXOTH	No Matching Variable	No Matching Variable	Expenditure - All Other Operating Expenditure
XEXTOT	XEXTOT	XLC24	Status Flag - Expenditure Total
EXTOT	EXTOT	LC24	Expenditure - Total
XCOLBKSA	XCOLBKSA	XLD26_1	Status Flag - Collections Books Added
COLBKSA	COLBKSA	LD26_1	Collections - Books - Added

Appendix D—Crosswalks
Academic Libraries Survey (ALS) 2002

ALS crosswalk from 2002 to 2000, by file order

ALS 2002 VARIABLE NAME	ALS 2000 VARIABLE NAME	ALS 2000 EDTAB NAME	ALS 2002 VARIABLE LABEL
XCOLEBKSA	No Matching Variable	No Matching Variable	Status Flag - Collections EBooks Added
COLEBKSA	No Matching Variable	No Matching Variable	Collections - E Books - Added
XCOLMICRA	*XCOLMICRA*	*XLD28_1*	Status Flag - Collections Microforms Added
COLMICRA	*COLMICRA*	*LD28_1*	Collections - Microforms - Added
XCOLAUDA	XCOLAUDA	XLD30_1	Status Flag - Collections Audiovisual Added
COLAUDA	COLAUDA	LD30_1	Collections - Audiovisual - Added
XCOLSERA	XCOLSERA	XLD29_1	Status Flag - Collections Serial Added
COLSERA	COLSERA	LD29_1	Collections - Serial Subscription - Added
XCOLBKSH	XCOLBKSH	XLD26_2	Status Flag - Collections Books Held
COLBKSH	COLBKSH	LD26_2	Collections - Books - Held
XCOLEBKSH	No Matching Variable	No Matching Variable	Status Flag - Collections E Books Held
COLEBKSH	No Matching Variable	No Matching Variable	Collections - E Books - Held
XCOLMICRH	*XCOLMICRH*	*XLD28_2*	Status Flag - Collections Microforms Held
COLMICRH	*COLMICRH*	*LD28_2*	Collections - Microforms - Held
XCOLAUDH	XCOLAUDH	XLD30_2	Status Flag - Collections Audiovisual Held
COLAUDH	COLAUDH	LD30_2	Collections - Audiovisual - Held
XCOLSERH	XCOLSERH	XLD29_2	Status Flag - Collections Serial Held
COLSERH	COLSERH	LD29_2	Collections - Serial Subscriptions Held
XILPRET	XILPRET	XLE31	Status Flag - Inter Library Loans Provided Returnable
ILPRET	ILPRET	LE31	Inter Library Loans Provided Returnable
XILPNON	XILPNON	XLE32	Status Flag - Inter Library Loans Provided Non-returnable
ILPNON	ILPNON	LE32	Inter Library Loans Provided Non-returnable
XILPTOT	XILPTOT	XLE33	Status Flag - Inter Library Loans Provided Total
ILPTOT	ILPTOT	LE33	Inter Library Loans Provided Total
XILRRET	XILRRET	XLE34	Status Flag - Inter Library Loans Received Returnable
ILRRET	ILRRET	LE34	Inter Library Loans Received Returnable
XILRNON	XILRNON	XLE35	Status Flag - Inter Library Loans Received Non-returnable
ILRNON	ILRNON	LE35	Inter Library Loans Received Non-returnable
XILRTOT	XILRTOT	XLE36	Status Flag - Inter Library Loans Received Total
ILRTOT	ILRTOT	LE36	Inter Library Loans Received Total
XDOCDEL	XDOCDEL	XLE37	Status Flag - Documents Delivered from Commercial Services
DOCDEL	DOCDEL	LE37	Documents Delivered from Commercial Services
XCRGEN	No Matching Variable	No Matching Variable	Status Flag - Genneral Circulation Transactions
CRGEN	No Matching Variable	No Matching Variable	General Circulation Transactions
XCRRSV	*No Matching Variable*	*No Matching Variable*	Status Flag - Reserve Circulation Transactions
CRRSV	*No Matching Variable*	*No Matching Variable*	Reserve Circulation Transactions
XPRESEN	*XPRESEN*	*XLE39*	Status Flag - Number of Presentations
PRESEN	*PRESEN*	*LE39*	Number of Presentations
XATTEND	XATTEND	XLE40	Status Flag - Attendance at Presentations
ATTEND	ATTEND	LE40	Total Attendance at Presentations
XHOURS	XHOURS	XLF41	Status Flag - Hours Open in a Typical Week
HOURS	HOURS	LF41	Hours Open in a Typical Week
XGATECT	XGATECT	XLF42	Status Flag - Gate Count in a Typical Week
GATECT	GATECT	LF42	Gate Count in a Typical Week
XREFTRANS	XREFTRANS	XLF43	Status Flag - Reference Transactions in a Typical Week
REFTRANS	REFTRANS	LF43	Reference Transactions in a Typical Week
XDOCDIGYN	No Matching Variable	No Matching Variable	Status Flag - Does Documents Digitized by Library Staff
DOCDIGYN	DOCDIGYN	LG48_1	Does Documents Digitized by Library Staff
XLIBREFYN	*No Matching Variable*	*No Matching Variable*	Status Flag - Library Provide Reference Service by Email
LIBREFYN	LIBREFYN	LG50_1	Does Library Provide Reference Service by Email or Web
XTECHYN	*No Matching Variable*	*No Matching Variable*	Status Flag - Technology to Assist the Disabled
TECHYN	TECHYN	LG52_1	Technology to Assist the Disabled
XTHESYN	*No Matching Variable*	*No Matching Variable*	Status Flag - Electronic Theses Produced by Students
THESYN	No Matching Variable	No Matching Variable	Electronic Theses Produced by Students
XCNSUBYN	*No Matching Variable*	*No Matching Variable*	Status Flag - State have Subsidized Library Consortium
CNSUBYN	*CNSUBYN*	*LG61*	State have Subsidized Library Consortium
XCNPARTYN	*No Matching Variable*	*No Matching Variable*	Status Flag - Participate in Consortium
CNPARTYN	CNPARTYN	LG62	Participate in Consortium

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ALS crosswalk from 2002 to 2000, by file order

ALS 2002 VARIABLE NAME	ALS 2000 VARIABLE NAME	ALS 2000 EDTAB NAME	ALS 2002 VARIABLE LABEL
XCNFULLYN	*No Matching Variable*	*No Matching Variable*	Status Flag - Consortium Cost Fully Funded by State
CNFULLYN	CNFULLYN	LG63	Consortium Cost Fully Funded by State
XCNPRTLYN	*No Matching Variable*	*No Matching Variable*	Status Flag - Consortium Cost Partially Funded by State
CNPRTLYN	CNPRTLYN	LG64	Consortium Cost Partially Funded by State
XCNOTHRYN	*No Matching Variable*	*No Matching Variable*	Status Flag - Library Participate in Any Other Consortia
CNOTHRYN	CNOTHRYN	LG65	Library Participate in any Other Consortia

Appendix D—Crosswalks
Academic Libraries Survey (ALS) 2002

ALS crosswalk from a single to multiple variables

ALS 2002 VARIABLE DESCRIPTION	ALS 2002 VARIABLE NAME	ALS 2000 VARIABLE NAME	ALS 2000 EDTAB NAME
Total full-time equivalent (FTE) staff - Col. 1	STTOT	STTOT2000-STCONSRV	LB08-LB06
Total full-time equivalent (FTE) staff - Col. 2	SWTOT	SWLIBPRO+SWOTH+SWASST	LC09+LC10+LC11
Books, serial backfiles and other materials	EXBKS	IRPAMICR+EXELBKS+EXAUD	LC12+LC13+LC16
Current serial subscriptions	EXCUSER	CUPAMICR+EXELSER	LC14+LC15
All other operating expenditures	EXOTH	EXFUREQP+EXOTH2000	LC20+LC23
General circulation / Reserve circulation	CRGEN+CRRSV	CIRTRANS	LE38

Appendix E—Edits and Imputations
Academic Libraries Survey (ALS) 2002

This appendix, which describes the edits and imputations for the Academic Libraries data file 2002, was developed by the U.S. Census Bureau. The first section describes the edits and the second section includes information on the overall imputation process, followed by a detailed description of the imputation process based on documentation provided by Joanna Fane McLaughlin, U.S. Census Bureau, dated April 8, 2004. The imputation process is described in five subsections:

I. 2002 Academic Libraries 'Z' Corrections—the adjustments made for implied zeros.
II. 2002 Academic Libraries Base Methodology—the computations of the medians and ratios used to make the imputations.
III. 2002 Academic Libraries Imputation Methodology—the imputations made using the medians and ratios derived in part II.
IV. Post-Imputation Steps—summaries and conclusions.
V. 2002 Problems and Recommendations

Appendix E—Edits and Imputations
Academic Libraries Survey (ALS) 2002

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) 2002

Imputations

After editing, missing data remains. Imputation is a process of filling missing data with reasonable values in order to have a complete data set.

For estimation, facilities were grouped into 27 imputation cells. The imputation cells were determined based on sector and full-time enrollment (FTE). The sector categories used are (1) public, 4-year or above; (2) private non-profit, 4-year or above; (3) private for profit, 4-year or above; (4) public, 2-year; (5) private non-profit, 2-year; and (6) private for profit, 2-year.

The use of FTE to determine imputation cells was not employed in the past. The procedure of using medians instead of means for imputation also represents a change from past survey cycles. While research indicates that the effect of the change in imputation procedure was not large, caution should be exercised in making comparisons with 2000 or earlier reports.

No Electronic Services items in Part G were imputed because the questions are yes/no questions.

Imputation Decision Tree

If a value was missing, and prior year (FY 2000) data were available, and the prior year value was not expected to change, then the missing value was filled with the prior year value. For example, number of reported Branches and independent libraries (Part A, line item 1) is likely to remain constant from year to year, so the prior year value was brought forward.

If a value was missing, and prior year data were available, and the current year value was expected to change from the prior year, then the missing value was filled with the prior year value multiplied by the median growth rate within the imputation cell. For example, this method was used to impute the number of Full-time librarians (Part B, line item 2, column 1).

If a value was missing, and prior year data were unavailable, then data were imputed using the current year median cell distribution ratio. For example, imputed E-books Added (Part D line item 23, column 1) using the value E-books Held (Part D, line item 23. column 2) multiplied by the media cell distribution ratio of E-books Added to E-books Held.

If current year data were missing, and prevented a current year median cell distribution ratio from being applied, then the current year cell median was applied to complete the imputation. For example, if we were unable to impute E-books Added using a current year median cell distribution ratio because E books Held was missing, then we imputed E-books Added with the current year cell median.

For Fiscal Year 2002, the items General and Reserve Circulation were reported separately, as they were in 1998, but in 2000 the items were reported combined as one item. For General and Reserve Circulation transactions in 2002 (Part E, line items 34a and 34b, respectively), if a value was missing and 1998 data were available, then the missing value was filled with the 1998 value multiplied by the median cell growth rate. If 1998 data were not available, the total circulation was determined using the prior year (2000) value multiplied by the median growth rate within the imputation cell, then the individual values were determined using the median cell distribution ratio.

Appendix E—Edits and Imputations
Academic Libraries Survey (ALS) 2002

Post Imputation Adjustments

After imputation, if the sum of the detail values did not equal the total, then the detail items were raked to the total.

After imputation, if a total was missing or known to need adjustment, then the total was readjusted to equal the sum of its detail items.

I. 2002 Academic Libraries 'Z' Corrections

This remainder of this document [1] describes the imputation steps after the data were edited. Steps conducted prior to imputation entailed setting 'Z' status flags and generating an imputation base. 'Z' status flags corrected for unreported zeros. The imputation base was generated based on qualifying respondent institutions which were used to impute for non-response. The methodology followed is described below. The statistical software used was Base SAS Version 8.2.

A. Introduction

Most respondents who completed forms, even those completing the survey correctly, left cells blank when they had no data that met the requirements to be in a cell. For all practical purposes, in most cases, these blank cells should be considered reported zeros. However, they were often reported with a value of 'N' for non-response. The 'Z' program corrected this problem. It changed the status code from 'N' to 'Z' if it was determined that the value should have been considered a reported zero. Implied zeros were determined by conducting additive checks and examining ALS 2000 imputed data.

B. Determining if an Item Should be Zero with Status Flag 'Z'

1. Records Not Processed

Institutions that reported any of the following were not checked for implied zeros in any part of the survey [the variable naming convention approved by the National Center for Education Statistics (NCES) is used here for simplicity]:
- CKIN = '08,' '09,' '10,' '11,' '15,' or '99,'
- OPEFLAG = 3, 5, or 6,
- DEGGRANT = 2, -1,
- ACT = 'O,' 'M,' 'D,' or 'C,' or
- SECTOR = 0, 7, 8, or 9.
  (Note the technical point: Quotation marks indicate a character variable. No quotation marks indicate a numeric variable.)

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[1] This report on imputations was prepared by Joanna Fane McLaughlin, U.S. Census Bureau, April 4, 2004.

Appendix E—Edits and Imputations
Academic Libraries Survey (ALS) 2002

2. Part A—Number of Public Service Outlets, Fiscal Year 2002

If branches were 0[N], where 0 is the value of the data item with its status flag given in brackets, and branches for ALS 2000 were 0[I], 0[N], or missing, then the status flag for branches was changed to 'Z.'

Definitions of items included in the criteria for exclusion from the 'Z' program, base and imputation.

Item	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

Appendix E—Edits and Imputations
Academic Libraries Survey (ALS) 2002

Item	Definition
DEGGRANT — Degree granting status	1—Yes 2—No -1—Missing
FIPS — FIPS state code	Two digit state codes assigned by National Institute of Standards and Technology (NIST)
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
MAILSEC — Sector of institution at start of survey	See Sector Codes
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

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Item	Definition
SECTOR — Sector of institution (based on response to IC survey)	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
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

3. Part B—Library Staff, Fall 2002

If total number of full-time staff did not have a status flag of 'T' and the sum of the detail equaled the total sum, then the detail items were checked. If a detail item was 0[N], then its status flag was temporarily changed to 'S.' (This was new in ALS 2002. Based on the corresponding salaries and wages data, it was determined if the 'S' should be changed to 'Z' or changed back to 'N.') The same procedure was followed for total salaries and wages and its detail items.

If neither total had a status flag of 'N' and the detail items in a given row were both assigned a status flag of 'S,' then each 'S' flag was changed to 'Z.' If neither total had a status flag of 'T' and one of the detail items in a given row was a reported zero and the other item not reported, then the not reported item was assigned a status flag of 'Z.'

When the total number of full-time staff did not have a status flag of 'T,' total librarians and other professional staff in column 1 equaled the sum of its detail and was reported or already assigned a status flag of 'Z,' and number of librarians was 0[N], then the status flag for number of librarians was changed to 'Z.' Likewise, if the number of other professional staff was 0[N] and the previous criteria were met, then its status flag 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.'

4. **Parts C & D Combined—Library Expenditures, Fiscal Year 2002 and Library Collections, Fiscal Year 2002, Respectively**

If total expenditures was 0[N], then Parts C and D did not go through implied zero checks. Otherwise, Part C and D went through the implied checks detailed below. (Parts C and D went through the checks simultaneously, because some expenditure and collection items are comparable.)

If total expenditures did not have a 'T' status flag but the total equaled the sum of the detail items, and if books, serial backfiles and other material expenditures was 0[N], then its status flag was changed to 'S.' Likewise for current serial subscription expenditures. The other detail items were also checked when total expenditures did not have a 'T' status flag if the total equaled the sum of the detail, and if any of these items was 0[N], its status flag was changed to 'Z.'

If books, serial backfiles and other materials equaled the sum of its detail items and was reported, and if electronic material expenditures was 0[N], then the status flag for electronic material expenditures was changed to 'Z.' The same steps applied to audiovisual material expenditures.

If total expenditures did not have a 'T' status flag, current serial subscription expenditures was a reported zero 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 the total expenditures status flag was changed to '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 the total expenditures status flag was changed to 'T.'

If books, serial backfiles and other materials added was 0[N] and books, serial backfiles, and other material expenditures was a reported or implied zero, 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 electronic materials added was changed to 'Z' if it was originally 0[N] and its corresponding expenditure in Part C was a reported or implied zero.

If microform materials added was 0[N], but microform materials held was a reported zero, then the added status flag was changed to 'Z.' If current serial subscription materials added was 0[N], but current serial subscription materials held was a reported zero, then the added status flag was changed to 'Z.'

For the following three sets of items, if materials added was 0[N], materials held 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 status flag was changed to 'N': 1) books, serial backfiles and other paper material expenditures, added, and held; 2) audiovisual material expenditures, added, and held; 3) e-book material expenditures, added, and held.

If books, serial backfiles and other paper material expenditures was 0[S], the sum of its detail was zero, the corresponding added or held item in Part D was a reported or an implied zero, then the expenditures status flag was changed to 'Z,' and if a detail item was 0[N], its status flag was changed to 'Z.' If books, serial backfiles and other paper material expenditures was 0[S] and its corresponding added item was greater than zero or 0[N], then the expenditure status flag 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, then corresponding added or held item in Part D was a reported or implied zero, then the expenditure status flag was changed to 'Z,' and if electronic serial subscription expenditures was 0[N], its status flag was changed to 'Z.' If current serial subscription expenditures was 0[S] and its corresponding added item was greater than zero or 0[N], then the expenditure status flag was changed back to 'N' and the total expenditures status flag was changed to 'T.'

If audiovisual material expenditures was 0[N] and audiovisual materials added or held was a reported zero, then the status flag for audiovisual material expenditures was changed to 'Z.'

Total expenditures still with a value greater than zero and a status flag of 'T' was changed to 0[T]. (The total was resummed after imputation.)

5. **Part E—Library Services, Fiscal Year 2002**

    If the total interlibrary loans provided to other libraries equaled the sum of its detail and was reported, and returnable loans provided was 0[N], then the status flag for returnable loans provided was changed to 'Z.' Likewise, if total interlibrary loans provided to other libraries equaled the sum of its detail and was reported, and non-returnable loans provided was 0[N], then the status flag for non-returnable loans provided was changed to 'Z.'

    If the total interlibrary loans received from other libraries equaled the sum of its detail and was reported, and returnable loans received was 0[N], then the status flag for returnable loans received was changed to 'Z.' Likewise, if total interlibrary loans provided to other libraries equaled the sum of its detail and was reported, and non-returnable loans received was 0[N], then the status flag for non-returnable loans received was changed to 'Z.'

    If attendance was a reported zero and number of presentations was 0[N], then the status flag for number of presentations was changed to 'Z.' If number of presentations was a reported zero and attendance was 0[N], then the status flag for attendance was changed to 'Z.'

6. **Part F—Library Services, Typical Week, Fall 2002**

    No 'Z's applied to this part for ALS 2002.

II. 2002 Academic Libraries Base Methodology

A. Introduction

Current year (2002) and prior year (2000) data were used to create medians and ratios for the data elements that were used to make the imputations. Inclusion in the base required participation in the specific sections of the survey as shown below. The survey is divided into eleven groups based on items that are similar in nature. For example, Group 11 is Part F of the survey consisting of questions 37-39 on the survey form. Questions 37-39 are about library services provided in a typical week. Imputation is performed for these groups by generating a separate imputation base for each of the groups based on cells formed for sector and FTE enrollment categories (27 cells described below). The imputation groups are as follows:

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Imputation Groups

Group 01: Part A, line item 1 [No base generated];
Group 02: Part B, line items 2-7, both columns;
Group 03: Part B, line items 8a and 8b;
Group 04: Part C, column 2, line items 10, 13, and 15-21;
Group 05: Part C, column 1, line items 11, 12, and 14;
Group 06: Part D, line items 22 and 24-26, both columns;
Group 07: Part D, line item 23, both columns;
Group 08: Part E, line items 27-33;
Group 09: Part E, line items 34a and 34b;
Group 10: Part E, line items 35 and 36; and
Group 11: Part F, line items 37-39.

(Part G of the survey does not go through imputation, and, therefore, it is not part of the list above.)

B. Generating the Base

1. Forming Imputation Cells

The survey instrument sections and questions is the basis for dividing the universe of institutions into eleven imputation groups, which may not be mutually exclusive. Institutions are aggregated into imputation cells based on full-time enrollment and institution sector. (FTE was retrieved from IPEDS data. This methodology was new for ALS 2002 imputations.) Requirements were that there were 15 respondent institutions per cell and at least a 75 percent response rate per cell. The cells are given in the table below.

Imputation Cell	Sector	Full-time enrollment (FTE)
A	1	< 5,000 and => 0
B	1	< 10,000 and => 5,000
C	1	< 15,000 and => 10,000
D	1	< 20,000 and => 15,000
E	1	=> 20,000
F	2	< 500 and => 0
G	2	< 1,000 and => 500
H	2	< 1,500 and => 1,000
I	2	< 2,000 and => 1,500
J	2	< 2,500 and => 2,000
K	2	< 3,000 and => 2,500
L	2	< 3,500 and => 3,000

Imputation Cell	Sector	Full-time enrollment (FTE)
M	2	< 5,000 and => 3,500
N	2	< 10,000 and => 5,000
O	2	=> 10,000
P	3	< 500 and => 0
Q	3	=> 500
R	4	< 1,000 and => 0
S	4	< 2,000 and => 1,000
T	4	< 3,000 and => 2,000
U	4	< 4,000 and => 3,000
V	4	< 5,000 and => 4,000
W	4	< 7,500 and => 5,000
X	4	< 10,000 and => 7,500
Y	4	=> 10,000
Z	5 or 6	< 500 and => 0
1	5 or 6	=> 500

If an institution was missing FTE data, but needed imputing, then Governments Divisions (GOVS) estimated FTE based on auxiliary data.

2. Relationship between Imputation Groups and Imputation Cells

The imputation groups are formed on the basis of survey questions relevant to a segment of library activity (e.g., Library Services), as described above in paragraph 1. When imputations are required, information derived from parallel responding institutions (based on sector and size) in the relevant imputation cells, is used for the imputations.

3. Institutions Not Eligible to be in the Base

Only in-scope institutions reporting valid values for the data elements in an imputation group were used to compute medians and ratios (the base) for that imputation group. It is possible for an institution's data to have been used in one imputation group but not another, depending on which particular items it did or did not report. Generally, 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 were excluded. Specifically, institutions were excluded from the base that met any of these conditions:
  - For a given imputation group, there was at least one status flag of "not reported" in either the current or prior year. A variable was considered

"not reported" when its status flag is 'N,''P,''I,' or 'T,'

- CKIN = '08,' '09,' '10,' '11,' '15,' or '99,'
- OPEFLAG = 3, 5, or 6,
- DEGGRANT = 2 or –1,
- ACT = 'A,' 'N,' 'P,' 'Q,' 'R,' or 'S,'
- ACT = 'O,' 'M,' 'D,' or 'C,'
- FIPS > '56,'SECTOR = 0, 7, 8, or 9,
- SECTOR= MAILSEC,
- CYPARCH = '1' or '2,'
- PYPARCH = '1' or '2,'
- STATUS = '1' or PYSTATUS = '1,' or
- STATUS = '3,' '5,' or '6.'

C. Computation of Group Medians, Group Median Growth Rates, and Group Median Distribution Ratios

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

Current year distribution ratios were calculated when the value in the denominator was not zero. If the denominator was zero, the ratio was excluded. The final ratio used for imputation was the cell median of the distribution ratios.

Medians were also generated for current and prior year items in an imputation cell, unless the item was missing. If the item was missing, it was excluded before the median was generated.

1. **Base Calculations for Imputation Group 01**
   No medians were calculated for this imputation group.

2. **Base Calculations for Imputation Group 02**
   (Note that 'column 1' refers to full-time equivalent employees, and 'column 2' refers to salaries and wages.)

   Current and prior year medians were generated for all items in this group.

   Median growth rates were generated for the following data items:
   - Librarians
   - Other professional staff
   - All other paid staff (column 1)
   - Student assistants from all funding sources (column 1)

The following **median distribution ratios** were generated:
- Librarians/Total librarians and other professional staff (column 1)
- Other professional staff/Total librarians and other professional staff (column 1)
- Total librarians and other professional staff (column 1)/Total full-time equivalent staff (column 1)
- All other paid staff (column 1)/Total full-time equivalent staff (column 1)
- Student assistants from all funding sources (column 1)/Total full-time equivalent staff (column 1)
- Total librarians and other professional staff (column 2)/Total full-time equivalent staff (column 2)
- All other paid staff (column 2)/Total full-time equivalent staff (column 2)
- Student assistants from all funding sources (column 2)/Total full-time equivalent staff (column 2)
- Total librarians and other professional staff (column 2)/Total librarians and other professional staff (column 1)
- All other paid staff (column 2)/All other paid staff (column 1)
- Student assistants from all funding sources (column 2)/Student assistants from all funding sources (column 1)

3. **Base Calculations for Imputation Group 03**
   (Note that 'column 2' refers to salaries and wages.)

   Current year medians were generated for employee fringe benefits and total full-time equivalent staff (column 2) of Imputation Group 02. If employee fringe benefits was zero, then it was excluded as a possible median value. No **median growth rates** were generated for this group.

   The following **median distribution ratio** was generated:
   - Employee fringe benefits/Total full-time equivalent staff (column 2) of Imputation Group 02

4. **Base Calculations for Imputation Group 04**

   Current and prior year medians were generated for all items in this imputation group.

   Median growth rates were generated for all the data items in this imputation group.

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

5. **Base Calculations for Imputation Group 05**

Current and prior year medians were generated for all items in this group and two current year items in Imputation Group 04:
- Books, serial backfiles and other material expenditures
- Current serial subscription expenditures

Median growth rates were generated for the data items in this group.

The following **median distribution ratios** were generated:
- Electronic material expenditures/Books, serial backfiles and other material expenditures
- Audiovisual material expenditures/Books, serial backfiles and other material expenditures
- Electronic serial subscription expenditures/Current serial subscription expenditures

6. **Base Calculations for Imputation Group 06**

Current and prior year medians were generated for the following items in this imputation group:
- 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 year medians *and no prior year medians* were generated for the following items in this imputation group:
- Current serial subscriptions added
- Current serial subscriptions held

Median growth rates were generated for the following data items:
- Books, serial backfiles and other paper materials held
- Microforms held
- Audiovisual materials 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 material expenditures
- Current serial subscriptions held/Current serial subscription expenditures

7. Base Calculations for Imputation Group 07

Current year medians were generated for the following items:
- E-Books added
- E-Books held

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

The following **median distribution ratio** was generated:
- E-Books added/E-Books held

8. Base Calculations for Imputation Group 08

Current year and prior year medians were generated for all data items in this group.

Median growth rates were generated for all the data items in this group.

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

9. Base Calculations for Imputation Group 09

Current year medians were generated for the following data items:
- General circulation transactions
- Reserve circulation transactions
- The sum of general and reserve circulation transactions

The **Prior year median** was generated for the following data item:
- The sum of general circulation transactions

1998 ALS medians were generated for the following data items:
- General circulation transactions
- Reserve circulation transactions
- The sum of general and reserve circulation transactions
  (The use of data dating back more than one survey cycle was new for the 2002 ALS. See section III for further discussion of this technique.)

The current year **median growth rate** was generated for the following data item:
- The sum of general and reserve circulation transactions

The following **median distribution ratios** were generated:
- General circulation transactions/The sum of general and reserve circulation transactions
- 1998 ALS General circulation transactions/The 1998 sum of general and reserve circulation transactions

10. Base Calculations for Imputation Group 10

Current year and prior year medians were generated for all of the data items in this group.

Median growth rates were generated for all of the data items in this group.

The following **median distribution ratio** was generated:
- Number of presentations/Total attendance at all presentations

11. Base Calculations for Imputation Group 11

Current year and prior year medians were generated for all of the data items in this group.

Median growth rates were generated for all of the data items in this group.

The following **median distribution ratio** was generated:
- Gate count in a typical week/Hours open in a typical week
- Reference transactions in a typical week/Hours open in a typical week

III. 2002 Academic Libraries Imputation Methodology

A. Imputation Procedures

An institution meeting any of the criteria listed below was excluded from the imputation procedures:
- Each data item in the group was "reported" (i.e., had status flag 'A,' 'C,' 'R,' or 'Z'),
- CKIN = '08,' '09,' '10,' or '11,'
- OPEFLAG = 3, 5, or 6,
- DEGGRANT = 2 or –1,
- ACT = 'O,' 'M,' 'D,' or 'C,'
- SECTOR = 0, 7, 8, or 9,

- FIPS > '56,'
- STATUS = '3' and PYSTATUS = '3,' '5,' or missing, and LIBFAC = 1,
- STATUS = '5,' or
- CYPARCH = '2.'

There were four methods most often used for imputation: 1) Using prior year data with a growth factor applied to impute for total non-respondents; 2) Using prior year data with a growth factor applied to impute for partial non-respondents; 3) Using group medians to impute for total non-respondents; and 4) Using group medians to impute for partial non-respondents. At times, some or all of the criteria listed below was combined if a method or methods did not apply to an imputation group.

Method 1 was employed if:
- All of the item status flags for the imputation group were 'N'
  OR
- STATUS = '3' or '6' and PYSTATUS = '1' or '4.'

Method 2 was employed if:
- STATUS = '1' *and* PYSTATUS = '1' or '4.'

Method 3 was employed if:
- All of the item status flags for the imputation group were 'N'
  OR
- STATUS = '3' *and* PYSTATUS = '3,' '5,' or was missing *and* LIBFAC = 1
  OR
- STATUS = '6' *and* PYSTATUS = '3,' '5,' or was missing.

Method 4 employed if:
- STATUS = '1' *and* PYSTATUS = '3,' '5,' or was missing.

B. Imputation Group 01

Since there is only one item (branches and independent libraries) in Imputation Group 01, the criteria for Methods 1 and 2 were combined. Methods 3 and 4 were not applicable.

1. Prior Year Data Used to Impute for Non-Respondents
If it was determined that an item needed imputing, then the prior year value was carried forward.

The item status flag was set to 'P,' the method set to '1,' and the impute flag set to '1.'

C. Imputation Group 02

The following items were in this imputation group: librarians, other professional staff, and, from column 1 (number of full-time equivalents) and column 2 (salaries and wages), total librarians and other professional staff, all other paid staff, student assistants from all funding sources, and total full-time equivalent staff.

1. **Prior Year Data Used to Impute for Total Non-Respondents**

   Column 1 items librarians, other professional staff, all other paid staff, and student assistants were each imputed using the item's prior year value multiplied by the cell median growth rate for the item. Total librarians and other professional staff was then summed to the total of librarians and other professional staff. Column 1 total full-time equivalent staff was summed to the total of column 1 items total librarians and other professional staff, all other paid staff, and student assistants from all funding sources.

   The salaries and wages items were each set to the value of the corresponding imputed column 1 item multiplied by the item's column 2/column 1 cell median ratio, except total full-time equivalent staff salaries and wages, which was set to the sum of the other column 2 imputed values.

   In each case above, the item status flag was set to 'P,' the method set to '1,' and the impute flag set to '1.'

2. **Prior Year Data Used to Impute for Partial Non-Respondents**

   The following procedure was followed for librarians and other professional staff. If the status flag was 'N,' then the item was imputed using the item's prior year value multiplied by the cell median growth rate.

   The following procedure was followed for the column 1 items all other paid staff and student assistants from all funding sources. If the item's status flag and the corresponding column 2 item's status flag was 'N,' then the column 1 item was imputed using the item's prior year value multiplied by the cell median growth rate. If the column 2 item status flag was not 'N,' then the item was imputed as the inverse of the column 2 value multiplied by the item's column 2/column 1 cell median ratio.

   If either of the column 1 totals had status flag 'N,' then the item's value was set to the sum of its detail items.

   Each salaries and wages item's status flag was checked. If it was 'N,' then it was set to the value of the corresponding column 1 item multiplied by the column 2/column 1 cell median ratio, except the salaries and wages total,

which, if it had a status flag of 'N,' was set to the sum of the other column 2 imputed values.

For each case above, the item status flag was set to 'P,' the method set to '2,' and the impute flag set to '1.'

If the total full-time equivalent staff total (either column) had a status flag of 'T,' then it was set to the sum of the detail, its status flag remained the same, the method was set to '2,' and the impute flag was set to '1.'

3. **Group Medians Used to Impute for Total Non-Respondents**

Column 1 items librarians, other professional staff, all other paid staff, and student assistants were each imputed using the item's cell median value. Total librarians and other professional staff was then summed to the total of librarians and other professional staff. Column 1 total full-time equivalent staff was summed to the total of column 1 items total librarians and other professional staff, all other paid staff, and student assistants from all funding sources.

The salaries and wages items were each set to the value of the corresponding imputed column 1 item multiplied by the item's column 2/column 1 cell median ratio, except for total salaries and wages, which was set to the sum of the column 2 imputed values.

In each case above, the item status flag was set to 'I,' the method set to '3,' and the impute flag set to '1.'

4. **Group Medians Used to Impute for Partial Non-Respondents**

The following procedure was followed for librarians and other professional staff. If the status flag was 'N,' then the item was imputed using the item's cell median value.

The following procedure was followed for the column 1 items all other paid staff and student assistants from all funding sources. If the item's status flag and the corresponding column 2 item's status flag was 'N,' then column 1was set to its cell median value. If the column 2 item status flag was not 'N,' then the item was imputed as the inverse of its column 2 value multiplied by the item's column 2/column 1 cell median ratio.

If either of the column 1 totals had status flag 'N,' then the column total was set to the sum of its detail items.

Each salaries and wages item's status flag was checked. If it was 'N,' then it was set to the value of the corresponding column 1 item multiplied by the

item's column 2/column 1 cell median ratio, except for total salaries and wages, which, if it had a status flag of 'N,' was set to the sum of the other column 2 imputed values.

For each case above, the item status flag was set to 'I,' the method set to '4,' and the impute flag set to '1.'

If the total full-time equivalent staff total (either column) had a status flag of 'T,' then it was set to the sum of the detail, its status flag remained the same, the method was set to '4,' and the impute flag was set to '1.'

5. **Additional Steps**

There were four possible additional steps:
- If the total number of full-time equivalent staff was greater than the sum of its detail items, then the detail items were raked to the total.
- If the total number of full-time equivalent staff was less than the sum of its detail items, then the total value became the sum of the details items, and its status flag was changed to 'T.'
- If the total full-time equivalent staff salaries and wages was greater than the sum of its detail items, then the detail items were raked to the total.
- If the total full-time equivalent staff salaries and wages was less than the sum of its detail items, then the total value became the sum of the details items, and its status flag was changed to 'T.'

D. **Imputation Group 03**

Employee fringe benefits amount and its corresponding 'yes'/'no' item were in Imputation Group 03. The criteria for all possible methods were combined. Prior year data was not used to impute fringe benefit items.

1. **Group Medians Used to Impute for Non-Respondents**

The employee fringe benefits amount was set to the cell median ratio of fringe benefits amount to total staff salaries and wages multiplied by total staff salaries and wages, and the 'yes'/'no' item was set to '1.' The item status flags were set to 'I,' the method was set to '3,' and the impute flag was set to '1.'

E. **Imputation Group 04**

The following expenditure items were in this imputation group: books, serial backfiles and other materials, current serial subscriptions, document delivery/interlibrary loan, preservation, other expenditures from information resources, computer hardware and software, bibliographic utilities, networks, and consortia, all other operating expenditures, and total expenditures.

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1. **Prior Year Data Used to Impute for Total Non-Respondents**

    All items except total expenditures were imputed using the item's prior year value multiplied by the cell median growth rate for the item. Total expenditures became the sum of its detail items, including full-time equivalent staff salaries and wages.

    In each case above, the item status flag was set to 'P,' the method set to '1,' and the impute flag set to '1.'

2. **Prior Year Data Used to Impute for Partial Non-Respondents**

    Every item status flag, except total expenditures' status flag, was checked, and if it was 'N,' then it was imputed as the item's prior year value multiplied by the cell median growth rate for the item. If its imputation flag was 'N,' then total expenditures became the sum of its detail items, including full-time equivalent staff salaries and wages

    In each case above, the item status flag was set to 'P,' the method set to '2,' and the impute flag set to '1.'

    If the total expenditures had status flag 'T,' then it was set to the sum of the detail, its status flag remained the same, the method was set to '2,' and the impute flag was set to '1.'

3. **Group Medians Used to Impute for Total Non-Respondents**

    All items except total expenditures were set to the cell median value. Total expenditures was then summed to the total of the other items in this imputation group, including full-time equivalent staff salaries and wages.

    In each case above, the item status flag was set to 'I,' the method set to '3,' and the impute flag set to '1.'

4. **Group Medians Used to Impute for Partial Non-Respondents**

    Every item status flag, except total expenditures' status flag, was checked, and if it was 'N,' then it was set to the cell median value. If its imputation flag was 'N,' total expenditures was then summed to the total of the other items in this imputation group, including full-time equivalent staff salaries and wages.

    In each case above, the item status flag was set to 'I,' the method set to '4,' and the impute flag set to '1.'

If the total expenditures had status flag 'T,' then it was set to the sum of the detail, its status flag remained the same, the method was set to '4,' and the impute flag was set to '1.'

5. Additional Steps

There were two possible additional steps:
- If total expenditures was greater than the sum of its detail items, then the detail items were raked to the total.
- If total expenditures was not reported and less than the sum of its detail items, then the total value became the sum of the details items, and its status flag was changed to 'T.'

F. Imputation Group 05

The following expenditure items were in this imputation group: electronic materials, audiovisual materials, and electronic serial subscriptions. In some cases, books, serial backfiles and other material expenditures was used for ratios or a comparison value, but it was not imputed with this imputation group.

1. Prior Year Data Used to Impute for Total Non-Respondents

All items were imputed using the item's prior year value multiplied by the cell median growth rate for the item. The item status flags were each set to 'P,' the method set to '1,' and the impute flag set to '1.'

If the sum of electronic and audiovisual materials was greater than the value of books, serial backfiles and other material expenditures, then electronic materials was set to the value of books, serial backfiles and other materials multiplied by the cell median ratio electronic materials/books, serial backfiles and other material expenditures, and audiovisual materials was set to the value of books, serial backfiles and other materials multiplied by the cell median ratio audiovisual materials/books, serial backfiles and other material expenditures, and the status flag for electronic materials and audiovisual materials was each changed to 'I.' If electronic serial subscriptions was greater than current serial subscriptions, then electronic serial subscriptions was set to the value of current serial subscriptions multiplied by the cell median ratio electronic serial subscriptions/current serial subscriptions, and the status flag for electronic serial subscriptions was changed to 'I.'

2. Prior Year Data Used to Impute for Partial Non-Respondents

If an item's status flag was 'N,' then the item was imputed using the item's prior year value multiplied by the cell median growth rate for the item. When an item was imputed, the item's status flags was set to 'P,' the method set to '2,' and the impute flag set to '1.'

If the sum of electronic and audiovisual materials was greater than the value of books, serial backfiles and other material expenditures, then electronic materials was set to the value of books, serial backfiles and other materials multiplied by the cell median ratio electronic materials/books, serial backfiles and other material expenditures, and audiovisual materials was set to the value of books, serial backfiles and other materials multiplied by the cell median ratio audiovisual materials/books, serial backfiles and other material expenditures. The status flag for electronic materials was set to 'I,' the status flag for audiovisual materials was set to 'I,' the method set to '2,' and the impute flag set to '1.' If electronic serial subscriptions was greater than current serial subscriptions, then electronic serial subscriptions was set to the value of current serial subscriptions multiplied by the cell median ratio electronic serial subscriptions/current serial subscriptions. The status flag for electronic serial subscriptions was set to 'I,' the method set to '2,' and the impute flag set to '1.'

3. **Group Medians Used to Impute for Total Non-Respondents**

   Electronic materials was set to the value of books, serial backfiles and other materials multiplied by the cell median ratio electronic materials/books, serial backfiles and other material expenditures. Audiovisual materials was set to the value of books, serial backfiles and other materials multiplied by the cell median ratio audiovisual materials/books, serial backfiles and other material expenditures. Electronic serial subscriptions was set to the value of current serial subscriptions multiplied by the cell median ratio electronic serial subscriptions/current serial subscriptions.

   The item status flags were each set to 'I,' the method set to '3,' and the impute flag set to '1.'

4. **Group Medians Used to Impute for Partial Non-Respondents**

   If electronic materials had status flag 'N,' then electronic materials was set to the value of books, serial backfiles and other materials multiplied by the cell median ratio electronic materials/books, serial backfiles and other material expenditures. If audiovisual materials had status flag 'N,' then audiovisual materials was set to the value of books, serial backfiles and other materials multiplied by the cell median ratio audiovisual materials/books, serial backfiles and other material expenditures. If electronic serial subscriptions had status flag 'N,' then electronic serial subscriptions was set to the value of current serial subscriptions multiplied by the cell median ratio electronic serial subscriptions/current serial subscriptions.

   When an item was imputed, the item's status flags was set to 'I,' the method set to '4,' and the impute flag set to '1.'

G. Imputation Group 06

The following collection items, added and held, were in this imputation group: books, serial backfiles and other paper materials, microforms, audiovisual materials, and current serial subscriptions. In some cases, the expenditures items books, serial backfiles and other materials, audiovisual materials, and current serial subscriptions, were used for ratios or a comparison value, but were not imputed with this imputation group.

1. Prior Year Data Used to Impute for Total Non-Respondents

Microforms held was imputed using the prior year value multiplied by the cell median growth rate. Microforms added was then imputed as the value of microforms held multiplied by the cell median ratio microforms added/microforms held.

Books, serial backfiles and other paper materials held was imputed using the prior year value multiplied by the cell median growth rate. The corresponding added item was then imputed as the value of books, serial backfiles and other paper materials held multiplied by the cell median ratio added/held.

Audiovisual materials held was imputed using the prior year value multiplied by the cell median growth rate. The corresponding added item was then imputed as the value of audiovisual materials held multiplied by the cell median ratio added/held.

The item status flags were each set to 'P,' the method set to '1,' and the impute flag set to '1.'

If current serial subscription expenditures was zero without status flag 'N,' then current serial subscriptions held was set to its cell median. Subscriptions added was then set to the imputed value of subscriptions held multiplied by the cell median subscriptions ratio added/held. Otherwise, current serial subscriptions held was set to the corresponding expenditure item multiplied by the current serial subscription cell median ratio held/expenditures. Current serial subscriptions added was then set to the corresponding value of items held multiplied by the cell median ratio subscriptions added/subscriptions held.

The item status flags for subscriptions added and held were each set to 'I,' the method set to '1,' and the impute flag set to '1.'

Appendix E—Edits and Imputations
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2. **Prior Year Data Used to Impute for Partial Non-Respondents**

If microforms held and added each had status flag 'N,' then microforms held was imputed using the prior year value multiplied by the cell median growth rate, and its status flag was set to 'P.' If microforms held had status flag 'N' and microforms added was greater than zero, then microforms held was imputed as the value of microforms added divided by the cell median ratio microforms added/microforms held, and the item status flag was set to 'I.' Otherwise, if microforms held had status flag 'N' and microforms added was zero, then microforms held was imputed as the prior year value of microforms held, and its status flag was set to 'P.'

If microforms added had status flag 'N,' then added was set to the held value multiplied by the cell median ratio of added/held and its status flag was changed to 'I.'

If books, serial backfiles and other materials held had status flag 'N,' then it was imputed as the prior year value multiplied by the cell median growth rate. Its status flag was changed to 'P.' If books, serial backfiles and other materials added had status flag 'N' then it was imputed as the corresponding items held item multiplied by the cell median ratio added/held. Its status flag was changed to 'I.'

If audiovisual materials held had status flag 'N,' then it was imputed as the prior year value multiplied by the cell median growth rate. Its status flag was changed to 'P.' If audiovisual materials added had status flag 'N' then it was imputed as the corresponding items held item multiplied by the cell median ratio added/held. Its status flag was changed to 'I.'

If current serial subscription expenditures was zero without status flag 'N,' and if current serial subscriptions held had status flag 'N,' then current serial subscriptions held was set to its cell median. If current serial subscription expenditures was zero without status flag 'N,' and if current serial subscriptions added had status flag 'N,' then subscriptions added was then set to the imputed value of subscriptions held multiplied by the cell median subscriptions ratio added/held. If expenditures was greater than zero and added was greater than zero, status flag not 'N,' and held status flag 'N,' then held was set to the value of added multiplied by the inverse of the current serial subscription cell median ratio added/held. If added was zero, status flag not 'N,' and held status flag 'N,' then current serial subscriptions was set to the value of expenditure multiplied by the cell median ratio held/expenditures. If added's status flag was 'N,' held was greater than zero with status flag not 'N,' then added was set to the corresponding value of items held multiplied by the cell median ratio subscriptions added/subscriptions held. If added's status flag was 'N,' held was zero with status flag not 'N,' then added was set to zero. If added and held both had status flag 'N,' then held was set to

expenditures multiplied by the cell median ratio held/expenditures, and added was set to the imputed value of held multiplied by the cell median ratio added/held. The status flag for current serial subscriptions held was changed to 'I,' and the status flag for current serial subscriptions added was changed to 'I.'

In each of the above cases, method was set to '2' and the impute flag was set to '1.'

3. **Group Medians Used to Impute for Total Non-Respondents**

Microforms held was imputed as the item's cell median. Microforms added was then imputed as the cell median of microforms held multiplied by the cell median ratio microforms added/microforms held.

If books, serial subscriptions and other paper material expenditures was zero, without status flag 'N,' then books, serial subscriptions and other paper materials held was set to its cell median. Books, serial subscriptions and other paper materials added was then set to the imputed value of books, serial subscriptions and other paper materials held multiplied by the cell median ratio added/held. Otherwise, books, serial subscriptions and other paper materials held was set to the corresponding expenditure item multiplied by the books, serial subscriptions and other paper materials cell median ratio held/expenditures. Books, serial subscriptions and other paper materials added was then set to the corresponding value of items held multiplied by the cell median ratio added/held.

If audiovisual material expenditures was zero without status flag 'N,' then audiovisual materials held was set to its cell median. Audiovisual materials added was then set to the imputed value of audiovisual materials held multiplied by the cell median ratio added/held. Otherwise, audiovisual materials held was set to the corresponding expenditure item multiplied by the audiovisual material cell median ratio held/expenditures. Audiovisual materials added was then set to the corresponding value of items held multiplied by the cell median ratio audiovisual materials added/audiovisual materials held.

If current serial subscription expenditures was zero without status flag 'N,' then current serial subscriptions held was set to its cell median. Subscriptions added was then set to the imputed value of subscriptions held multiplied by the cell median subscriptions ratio added/held. Otherwise, current serial subscriptions held was set to the corresponding expenditure item multiplied by the current serial subscription cell median ratio held/expenditures. Current serial subscriptions added was then set to the corresponding value of items held multiplied by the cell median ratio subscriptions added/subscriptions held.

The item status flags were each set to 'I,' the method set to '3,' and the impute flag set to '1.'

4. **Group Medians Used to Impute for Partial Non-Respondents**

If microforms held and added each had status flag 'N,' then microforms held was imputed using the current year cell median value of microforms held, and its status flag was set to 'I.' If microforms held had status flag 'N' and microforms added was greater than zero, then microforms held was imputed as the value of microforms added divided by the cell median ratio microforms added/microforms held, and its status flag was set to 'I.' Otherwise, if microforms held had status flag 'N' and microforms added was zero, then microforms held was imputed as the current year cell median value of microforms held, and its status flag was set to 'I.' If microforms added had status flag 'N,' then microforms added was imputed as the value of microforms held multiplied by the cell median ratio microforms added/microforms held, and its status flag was set to 'I.'

If books, serial subscriptions and other paper material expenditures was zero, without status flag 'N,' then books, serial subscriptions and other paper materials held was set to its cell median. Books, serial subscriptions and other paper materials added was then set to the imputed value of books, serial subscriptions and other paper materials held multiplied by the cell median ratio added/held. If expenditures was greater than zero and added was greater than zero, status flag not 'N,' and held status flag 'N,' then held was set to the value of added multiplied by the inverse of the cell median ratio added/held. If added was zero, status flag not 'N,' and held status flag 'N,' then books held was set to the value of expenditure multiplied by the cell median ratio held/expenditures. If added's status flag was 'N,' held was greater than zero with status flag not 'N,' then added was set to the corresponding value of items held multiplied by the cell median ratio added/held. If added's status flag was 'N,' held was zero with status flag not 'N,' then added was set to zero. If added and held both had status flag 'N,' then held was set to expenditures multiplied by the cell median ratio held/expenditures, and added was set to the imputed value of held multiplied by the cell median ratio added/held.

If audiovisual material expenditures was zero without status flag 'N,' then audiovisual materials held was set to its cell median. Audiovisual materials added was then set to the imputed value of audiovisual materials held multiplied by the cell median ratio added/held. If expenditures was greater than zero and added was greater than zero, status flag not 'N,' and held status flag 'N,' then held was set to the value of added multiplied by the inverse of the audiovisual materials cell median ratio added/held. If added was zero, status flag not 'N,' and held status flag 'N,' then audiovisual materials was set

to the value of expenditure multiplied by the cell median ratio held/expenditures. If added's status flag was 'N,' held was greater than zero with status flag not 'N,' then added was set to the corresponding value of items held multiplied by the cell median ratio audiovisual materials added/ audiovisual materials held. If added's status flag was 'N,' held was zero with status flag not 'N,' then added was set to zero. If added and held both had status flag 'N,' then held was set to expenditures multiplied by the cell median ratio held/expenditures, and added was set to the imputed value of held multiplied by the cell median ratio added/held.

If current serial subscription expenditures was zero without status flag 'N,' then current serial subscriptions held was set to its cell median. Subscriptions added was then set to the imputed value of subscriptions held multiplied by the cell median subscriptions ratio added/held. If expenditures was greater than zero and added was greater than zero, status flag not 'N,' and held status flag 'N,' then held was set to the value of added multiplied by the inverse of the current serial subscription cell median ratio added/held. If added was zero, status flag not 'N,' and held status flag 'N,' then current serial subscriptions was set to the value of expenditure multiplied by the cell median ratio held/expenditures. If added's status flag was 'N,' held was greater than zero with status flag not 'N,' then added was set to the corresponding value of items held multiplied by the cell median ratio subscriptions added/subscriptions held. If added's status flag was 'N,' held was zero with status flag not 'N,' then added was set to zero. If added and held both had status flag 'N,' then held was set to expenditures multiplied by the cell median ratio held/expenditures, and added was set to the imputed value of held multiplied by the cell median ratio added/held.

The item status flags were each set to 'I,' the method set to '4,' and the impute flag set to '1.'

H. Imputation Group 07

The items in this group were e-books added and held during the fiscal year. Since we did not use prior year data to impute for this group, the criteria for Methods 1 and 3 were combined.

1. Group Medians Used to Impute for Total Non-Respondents

E-books held was imputed first as the value of the cell median. E-books added was then imputed as the value of e-books held multiplied by the cell median growth rate of e-books added to e-books held.

Each item status flag was set to 'I,' the method was set to '3,' and the impute flag was set to '1.'

2. **Group Medians Used to Impute for Partial Non-Respondents**

   Method 2 was not applicable to this group, so the criteria for Methods 2 and 4 were combined.

   If its status flag was 'N,' then e-books held was imputed first as the value of the cell median. If its status flag was 'N,' e-books added was then imputed as the value of e-books held multiplied by the cell median ratio of e-books added to e-books held. If added was greater than held, e-books held was set to e-books added multiplied by the cell median ratio of held to added.

   Each imputed item's status flag was set to 'I,' the method was set to '4,' and the impute flag was set to '1.'

I. **Imputation Group 08**

   The following items were in this imputation group: 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, and documents delivered from commercial services.

   1. **Prior Year Data Used to Impute for Total Non-Respondents**

      All items except total loans provided and total loans received were imputed using the item's prior year value multiplied by the cell median growth rate for the item. Total loans provided was then set to the sum of returnable and non-returnable loans provided, and total loans received was set to the sum of returnable and non-returnable loans received.

      The item status flag was set to 'P,' the method set to '1,' and the impute flag set to '1.'

   2. **Prior Year Data Used to Impute for Partial Non-Respondents**

      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. (It was checked in the Additional Steps that the sum of the detail equaled the total.)

      If an item was imputed, then its status flags was set to 'P,' the method set to '2,' and the impute flag set to '1.'

3. **Group Medians Used to Impute for Total Non-Respondents**

All items except total loans provided and total loans received were imputed using the item's cell median value. Total loans provided was set to the sum of returnable and non-returnable loans provided, and total loans received was set to the sum of returnable and non-returnable loans received.

The item status flag was set to 'I,' the method set to '3,' and the impute flag set to '1.'

4. **Group Medians Used to Impute for Partial Non-Respondents**

If an item status flag was 'N,' that item was imputed using the item's cell median value. (It was checked in the Additional Steps that the sum of the detail equaled the total.)

If an item was imputed, then its status flags was set to 'I,' the method set to '4,' and the impute flag set to '1.'

5. **Additional Steps**

There were two possible additional steps:

- If total loans provided was not equal to the sum of returnable and non-returnable loans provided, then returnable loans provided was set to the value of total loans provided multiplied by the cell median ratio returnable loans provided/total loans provided. Non-returnable loans provided was then set to the difference in total loans provided and returnable loans provided.
- If total loans received was not equal to the sum of returnable and non-returnable loans received, then returnable loans received was set to the value of total loans received multiplied by the cell median ratio returnable loans received/total loans received. Non-returnable loans received was then set to the difference in total loans received and returnable loans received.

J. **Imputation Group 09**

Items in this imputation group were general and reserve circulation transactions.

1. **Prior Year Data Used to Impute for Total Non-Respondents**

If the prior year circulation transactions had status flag 'R,' 'C,' 'A,' 'Z,' or 'P,' the 1998 general circulation transactions had status flag 'R,' 'C,' 'A,' or 'Z' and 1998 reserve circulation transactions had status flag 'R,' 'C,' 'A,' or 'Z,' then the temporary item total circulation transactions was set to the prior

year value multiplied by the cell median growth rate of the total circulation transactions, general circulation was set to the 1998 cell median ratio (defined in the section Base Calculations for Imputation Group 09) multiplied by total transactions, and reserve circulation was set to quantity one minus the 1998 cell median ratio multiplied by total transactions. The status flag of general and reserve circulation was each changed to 'P.'

If the prior year circulation transactions had status flag 'R,' 'C,' 'A,' 'Z,' or 'P,' the 1998 general circulation transactions did not have one of the status flags 'R,' 'C,' 'A,' or 'Z' and 1998 reserve circulation transactions did not have one of the status flags 'R,' 'C,' 'A,' or 'Z,' then the temporary item total circulation transactions was set to the prior year value multiplied by the cell median growth rate of the total circulation transactions, general circulation was set to the current year cell median ratio multiplied by total transactions, and reserve circulation was set to quantity one minus the current year cell median ratio multiplied by total transactions. The status flag of general and reserve circulation was each change to 'P.'

If the prior year circulation transactions had status flag 'I,' the 1998 general circulation transactions had status flag 'R,' 'C,' 'A,' or 'Z' and 1998 reserve circulation transactions had status flag 'R,' 'C,' 'A,' or 'Z,' then general circulation was set to the 1998 value multiplied by the cell median growth rate, and reserve circulation was set to the 1998 value multiplied by the cell median growth rate. The status flag of general and reserve circulation was each changed to 'P.'

If the prior year circulation transactions had status flag 'I,' the 1998 general circulation transactions did not have status flag 'R,' 'C,' 'A,' or 'Z' and 1998 reserve circulation transactions did not have status flag 'R,' 'C,' 'A,' or 'Z,' then general circulation was set to the cell median value, and reserve circulation was set to the cell median value. The status flag of general and reserve circulation was each changed to 'I.'

The method was set to '1' and the impute flag was set to '1.'

2. **Prior Year Data Used to Impute for Partial Non-Respondents**

If the prior year total circulation transactions had status flag 'R,' 'C,' 'A,' 'Z,' or 'P,' the 1998 general circulation transactions had status flag 'R,' 'C,' 'A,' or 'Z' and 1998 reserve circulation transactions had status flag 'R,' 'C,' 'A,' or 'Z,' then the temporary variable *totalcirc* was set to the prior year value of total circulation transactions multiplied by the cell median growth rate of the total circulation transactions. If general circulation transactions had status flag 'N,' then general circulation transactions was set to the 1998 cell median ratio multiplied by *totalcirc*, and its status flag was changed to 'P.' If reserve circulation transactions had status flag 'N,' then reserve circulation

transactions was set to the quantity one minus the 1998 cell median ratio multiplied by *totalcirc*, and its status flag was changed to 'P.'

If prior year total circulation transactions had status flag 'R,' 'C,' 'A,' 'Z,' or 'P,' the 1998 general circulation transactions did not have one of the status flags 'R,' 'C,' 'A,' or 'Z' and 1998 reserve circulation transactions did not have one of the status flags 'R,' 'C,' 'A,' or 'Z,' then the temporary variable *totalcirc* was set to the prior year value multiplied by the cell median growth rate of the total circulation transactions. If general circulation transactions had status flag 'N,' then general circulation transactions was set to the current year cell median ratio multiplied by *totalcirc*, and its status flag was changed to 'P.' If reserve circulation transactions had status flag 'N,' the reserve circulation transactions was set to the quantity one minus the current year cell median ratio multiplied by *totalcirc,* and its status flag was changed to 'P.'

If prior year total circulation transactions had status flag 'I,' the 1998 general circulation transactions had status flag 'R,' 'C,' 'A,' or 'Z' and 1998 reserve circulation transactions had status flag 'R,' 'C,' 'A,' or 'Z,' then, if general circulation transactions had status flag 'N,' then general circulation transactions was set to the 1998 value multiplied by the cell median growth rate, and its status flag was changed to 'P.' Likewise, if reserve circulation transactions had status flag 'N,' then reserve circulation transactions was set to the 1998 value multiplied by the cell median growth rate, and its status flag was changed to 'P.'

If prior year total circulation transactions had status flag 'I,' the 1998 general circulation transactions did not have status flag 'R,' 'C,' 'A,' or 'Z' and 1998 reserve circulation transactions did not have status flag 'R,' 'C,' 'A,' or 'Z,' then, if general circulation transactions had status flag 'N,' then general circulation was set to the cell median value, and its status flag was changed to 'I.' Likewise, if reserve circulation transactions had status flag 'N,' then reserve circulation transactions was set to the cell median value, and its status flag was changed to 'I.'

The method was set to '2' and the impute flag was set to '1.'

3. **Group Medians Used to Impute for Total Non-Respondents**

General circulation transactions was set to the current year cell median value.

Reserve circulation transactions was set to the current year cell median value.

The item status flags were each set to 'I,' the method set to '3,' and the impute flag set to '1.'

4. **Group Medians Used to Impute for Partial Non-Respondents**

If its status flag was 'N,' then general circulation transactions was set to the current year cell median value.

If its status flag was 'N,' then reserve circulation transactions was set to the current year cell median value.

The item status flag for each imputed item was set to 'I,' the method set to '4,' and the impute flag set to '1.'

K. Imputation Group 10

The same procedure was followed for both data items (number of presentations and total attendance at all presentations) in this group.

1. **Prior Year Data Used to Impute for Total Non-Respondents**

An item was imputed as its prior year value multiplied by its cell median growth rate.

An item's status flag was set to 'P,' the method set to '1,' and the impute flag set to '1.'

2. **Prior Year Data Used to Impute for Partial Non-Respondents**

If an item had a status flag of 'N,' then it was imputed as its prior year value multiplied by its median growth rate. If number of presentations was greater than attendance, then attendance was set to the value of presentations multiplied by the cell median ratio of attendance to presentations.

If an item was imputed, then its status flag was set to 'P,' the method set to '2,' and the impute flag set to '1.'

3. **Group Medians Used to Impute for Total Non-Respondents**

The same procedure was followed for both data items. An item was set to the current year cell median value.

The item's status flag was set to 'I,' the method set to '3,' and the impute flag set to '1.'

4. **Group Medians Used to Impute for Partial Non-Respondents**

If an item had a status flag of 'N,' then it was imputed as the cell median value. If number of presentations was greater than attendance, then attendance

was set to the value of presentations multiplied by the cell median ratio of attendance to presentations.

If an item was imputed, then its status flag was set to 'I,' the method set to '2,' and the impute flag set to '1.'

L. Imputation Group 11

The same procedure was followed for all three data items (hours open, gate count, and reference transactions in a typical week) in this group.

1. Prior Year Data Used to Impute for Total Non-Respondents

An item was imputed as its prior year value multiplied by its cell median growth rate.

Item status flags were set to 'P,' the method set to '1,' and the impute flag set to '1.'

2. Prior Year Data Used to Impute for Partial Non-Respondents

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

If an item was imputed, then its status flag was set to 'P,' the method set to '2,' and the impute flag set to '1.'

3. Group Medians Used to Impute for Total Non-Respondents

The same procedure was followed for all three data items. An item was set to the current year cell median value.

The item status flag was set to 'I,' the method set to '3,' and the impute flag set to '1.'

4. Group Medians Used to Impute for Partial Non-Respondents

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

If an item was imputed, then its status flag was set to 'I,' the method set to '4,' and the impute flag set to 'I.'

5. **Additional Steps**

There were four possible additional steps:
- If the imputed value (the prior year value times a growth factor) of hours open in a typical week was greater than 168 with status flag 'P,' then we re-imputed, this time carrying forward the prior year value of hours open without applying a growth factor.
- If the imputed value of hours open in a typical week was 0[P], then we re-imputed. This time hours was set to the cell median of gate count in a typical week multiplied by the inverse of the cell median ratio of gate count to hours open, and the status flag for gate count was changed to 'I.'
- If the imputed value of gate count in a typical week was 0[P], then we re-imputed. This time gate count was set to the cell median of hours open in a typical week multiplied by the cell median ratio of gate count to hours open, and the status flag for gate count was changed to 'I.'
- If the imputed value of reference transactions in a typical week was 0[P], then we re-imputed. This time reference transactions was set to the cell median of hours open multiplied by the cell median ratio of reference transactions to hours open, and the status flag for reference transactions was changed to 'I.'

IV. Post-Imputation Steps

A. STATUS, IMPDATE and NCESDATE

The following changes were made after imputations:
- For all imputed cases, if STATUS was 3, then STATUS was changed to 4 [i.e., If the institution did not respond to data and screening questions, and was not imputed, then the institution's status was changed to indicate that the institution was an imputed nonrespondent.];
- If PARCH was 2 and STATUS was 3, then STATUS was set to the UNITIDX STATUS [i.e., If the institution's data were reported on another institution's record, the institution did not respond to data and screening questions, and was not imputed, then the institution's status was changed to the status of the institution where the data were reported.]; and
- IMPDATE and NCESDATE were set to the date and time that the imputations were run. [i.e., The imputation date was set for two variables before leaving ESMPD.];

B. Generated Output

During the imputation process, the following output was generated:
- Group medians, median distribution ratios and median growth ratios for each imputation cell;
- A list of units in each imputation base; and
- A list of units in each imputation group.

After imputations, the following tables were generated (*see appendix G, tables 1-3*):
- Item Totals and Percentage Change From 2002 File Total Before Imputation to 2002 File Total After Imputation;
- Item Totals and Percentage Change From 2000 File Total After Imputation to 2002 File Total After Imputation; and
- Item Totals and Percentage Change From 2000 File Total Before Imputation to 2002 File Total Before Imputation.

The tables can be used to compare overall prior and current year ALS totals for survey Parts A-F.

C. Data Files

Six files were required for ALS 2002 imputations:
- The current year master file;
- The current year, edited data file;
- The prior year master file;
- The prior year, imputed data file; and
- The ALS 1998 imputed file with just unitid's and the items general and reserve circulation transactions.

An additional file was required when the tables were generated:
- The prior year, unimputed data file.

After imputations, the Economic Statistical Methods and Programming Division (ESMPD) returned the current year, imputed data and the updated current year master file to GOVS in Access 2000 database format. The files were formatted the same as they were originally received by ESMPD.

V. 2002 Problems and Recommendations

As on-line/virtual libraries become more common, research needs to take place that addresses the imputation of on-line transactions.

Appendix F— Response Rate Tables
Academic Libraries Survey (ALS) 2002

These tables provide detailed unit response counts.

Table F-1. Number and percentage of academic libraries responding to each survey item, by level and control of institution: 2002

	Total post-secondary degree granting institutions	Percent	Four-year institutions										Less than four-year		Public		Private	
			Total four-year institutions		Highest level of degree													
					Doctor's		Master's		Bachelor's									
			Total res-ponding	Percent	Total res-ponding	Percent	Total res-ponding	Percent	Total res-ponding	Percent	Total res-ponding	Percent	Total res-ponding	Percent	Total res-ponding	Percent		
All institutions	3,568	100.0	2,183	100.0	580	100.0	912	100.0	657	100.0	1,385	100.0	1,601	100.0	1,967	100.0		
Responding libraries	3,160	88.6	1,960	89.8	528	91.0	817	89.6	588	89.5	1,200	86.6	1,495	93.4	1,665	84.6		
Part B-Library staff																		
Number of FTEs																		
Librarians	3,154	88.4	1,959	89.7	528	91.0	817	89.6	587	89.3	1,195	86.3	1,494	93.3	1,660	84.4		
Other professional staff	3,154	88.4	1,959	89.7	528	91.0	817	89.6	587	89.3	1,195	86.3	1,494	93.3	1,660	84.4		
Total librarians and																		
other professional staff	3,154	88.4	1,959	89.7	528	91.0	817	89.6	587	89.3	1,195	86.3	1,494	93.3	1,660	84.4		
All other paid staff	3,152	88.3	1,958	89.7	528	91.0	816	89.5	587	89.3	1,194	86.2	1,493	93.3	1,659	84.3		
Student assistants	3,150	88.3	1,958	89.7	527	90.9	817	89.6	587	89.3	1,192	86.1	1,491	93.1	1,659	84.3		
Total FTE staff	3,148	88.2	1,957	89.6	527	90.9	816	89.5	587	89.3	1,191	86.0	1,490	93.1	1,658	84.3		
Salaries and Wages																		
Total librarians and																		
other professional staff	3,112	87.2	1,934	88.6	526	90.7	804	88.2	577	87.8	1,178	85.1	1,483	92.6	1,629	82.8		
All other paid staff	3,113	87.2	1,931	88.5	526	90.7	799	87.6	579	88.1	1,182	85.3	1,484	92.7	1,629	82.8		
Student assistants	3,057	85.7	1,906	87.3	517	89.1	791	86.7	571	86.9	1,151	83.1	1,451	90.6	1,606	81.6		
Total salaries and wages	3,028	84.9	1,887	86.4	516	89.0	779	85.4	565	86.0	1,141	82.4	1,447	90.4	1,581	80.4		
Employee fringe benefits	3,121	87.5	1,936	88.7	523	90.2	804	88.2	582	88.6	1,185	85.6	1,475	92.1	1,646	83.7		
Part C-Library expenditures																		
Total salaries and wages	3,028	84.9	1,887	86.4	516	89.0	779	85.4	565	86.0	1,141	82.4	1,447	90.4	1,581	80.4		
Information resources:																		
Books, serial backfiles and																		
other materials	3,096	86.8	1,929	88.4	521	89.8	809	88.7	572	87.1	1,167	84.3	1,478	92.3	1,618	82.3		
SOURCE: U.S. Department of Ed	2,851	79.9	1,763	80.8	475	81.9	744	81.6	518	78.8	1,088	78.6	1,360	84.9	1,491	75.8		
Audiovisual	2,894	81.1	1,772	81.2	468	80.7	740	81.1	538	81.9	1,122	81.0	1,388	86.7	1,506	76.6		
Current serials	3,091	86.6	1,926	88.2	521	89.8	806	88.4	572	87.1	1,165	84.1	1,476	92.2	1,615	82.1		
Electronic serials	2,931	82.1	1,823	83.5	491	84.7	770	84.4	535	81.4	1,108	80.0	1,428	89.2	1,503	76.4		
Other information resources:																		
Document delivery/interlibrary loan	3,083	86.4	1,916	87.8	516	89.0	803	88.0	570	86.8	1,167	84.3	1,471	91.9	1,612	82.0		
Preservation	3,091	86.6	1,923	88.1	517	89.1	807	88.5	572	87.1	1,168	84.3	1,476	92.2	1,615	82.1		
information resources	3,087	86.5	1,921	88.0	519	89.5	804	88.2	571	86.9	1,166	84.2	1,475	92.1	1,612	82.0		
Operating expenditures:																		
Computer hardware and software	3,089	86.6	1,919	87.9	518	89.3	804	88.2	570	86.8	1,170	84.5	1,473	92.0	1,616	82.2		
Bibliographic utilities, networks																		
and consortia	3,090	86.6	1,921	88.0	516	89.0	804	88.2	574	87.4	1,169	84.4	1,473	92.0	1,617	82.2		
All other operating expenditures	3,095	86.7	1,926	88.2	519	89.5	807	88.5	573	87.2	1,169	84.4	1,476	92.2	1,619	82.3		
Total expenditures	2,955	82.8	1,844	84.5	504	86.9	769	84.3	544	82.8	1,111	80.2	1,429	89.3	1,526	77.6		

See notes at end of table.

Table F-1. Number and percentage of academic libraries responding to each survey item, by level and control of institution: 2002—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											
					Doctor's		Master's		Bachelor's							
			Total responding	Percent	Total responding	Percent	Total responding	Percent	Total responding	Percent	Total responding	Percent	Total responding	Percent	Total responding	Percent
Part D-Library collections																
Books, serial backfiles and other paper materials, added	3,038	85.1	1,894	86.8	515	88.8	793	87.0	559	85.1	1,144	82.6	1,454	90.8	1,584	80.5
Books, serial backfiles and other paper materials, eofy	3,063	85.8	1,912	87.6	519	89.5	800	87.7	566	86.1	1,151	83.1	1,467	91.6	1,596	81.1
E-Books, added	2,780	77.9	1,719	78.7	447	77.1	727	79.7	521	79.3	1,061	76.6	1,329	83.0	1,451	73.8
E-Books, eofy[1]	2,047	57.4	1,267	58.0	351	60.5	535	58.7	363	55.3	780	56.3	1,017	63.5	1,030	52.4
Microforms, added	2,935	82.3	1,847	84.6	502	86.6	780	85.5	539	82.0	1,088	78.6	1,419	88.6	1,516	77.1
Microforms, eofy	2,933	82.2	1,850	84.7	508	87.6	782	85.7	534	81.3	1,083	78.2	1,429	89.3	1,504	76.5
Audiovisual materials, added	3,000	84.1	1,862	85.3	497	85.7	784	86.0	555	84.5	1,138	82.2	1,438	89.8	1,562	79.4
Audiovisual materials, eofy	3,025	84.8	1,879	86.1	507	87.4	785	86.1	561	85.4	1,146	82.7	1,452	90.7	1,573	80.0
Current serial subscriptions, added	2,955	82.8	1,832	83.9	494	85.2	773	84.8	543	82.6	1,123	81.1	1,419	88.6	1,536	78.1
Current serial subscriptions, eofy	2,998	84.0	1,869	85.6	514	88.6	778	85.3	551	83.9	1,129	81.5	1,445	90.3	1,553	79.0
Part E-Library services																
Interlibrary loans provided																
Returnable	3,000	84.1	1,857	85.1	493	85.0	781	85.6	558	84.9	1,143	82.5	1,437	89.8	1,563	79.5
Non-returnable	3,000	84.1	1,857	85.1	493	85.0	781	85.6	558	84.9	1,143	82.5	1,437	89.8	1,563	79.5
Total provided	3,062	85.8	1,911	87.5	521	89.8	800	87.7	563	85.7	1,151	83.1	1,468	91.7	1,594	81.0
Interlibrary loans received																
Returnable	3,005	84.2	1,856	85.0	493	85.0	783	85.9	555	84.5	1,149	83.0	1,438	89.8	1,567	79.7
Non-returnable	3,005	84.2	1,856	85.0	493	85.0	783	85.9	555	84.5	1,149	83.0	1,438	89.8	1,567	79.7
Total received	3,071	86.1	1,911	87.5	522	90.0	802	87.9	560	85.2	1,160	83.8	1,471	91.9	1,600	81.3
Documents delivered from commercial services	2,924	82.0	1,801	82.5	469	80.9	770	84.4	537	81.7	1,123	81.1	1,404	87.7	1,520	77.3
SOURCE: U.S. Department of Education,	2,612	73.2	1,680	77.0	469	80.9	713	78.2	477	72.6	932	67.3	1,283	80.1	1,329	67.6
Reserve circulation transactions[1]	2,595	72.7	1,671	76.5	467	80.5	712	78.1	471	71.7	924	66.7	1,279	79.9	1,316	66.9
Number of presentations	3,055	85.6	1,900	87.0	511	88.1	800	87.7	564	85.8	1,155	83.4	1,464	91.4	1,591	80.9
Total attendance at all presentations	3,056	85.7	1,901	87.1	512	88.3	800	87.7	564	85.8	1,155	83.4	1,466	91.6	1,590	80.8
Part F-Library services, typical week																
Hours open, typical week	3,134	87.8	1,946	89.1	524	90.3	815	89.4	580	88.3	1,188	85.8	1,489	93.0	1,645	83.6
	3,009	84.3	1,855	85.0	501	86.4	770	84.4	558	84.9	1,154	83.3	1,443	90.1	1,566	79.6
Reference transactions, typical week	3,055	85.6	1,901	87.1	516	89.0	793	87.0	565	86.0	1,154	83.3	1,461	91.3	1,594	81.0

See notes at end of table.

Table F-1. Number and percentage of academic libraries responding to each survey item, by level and control of institution: 2002—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													
					Doctor's		Master's		Bachelor's									
			Total res-ponding	Percent	Total res-ponding	Percent	Total res-ponding	Percent	Total res-ponding	Percent	Total res-ponding	Percent	Total res-ponding	Percent	Total res-ponding	Percent
Part G-Electronic services																		
Library services provided:																		
Documents digitized by																		
library staff	3,120	87.4	1,937	88.7	523	90.2	811	88.9	576	87.7	1,183	85.4	1,481	92.5	1,639	83.3
Library reference service by																		
e-mail or Web	3,122	87.5	1,939	88.8	524	90.3	811	88.9	577	87.8	1,183	85.4	1,481	92.5	1,641	83.4
Technology to assist patrons																		
with disabilities	3,122	87.5	1,939	88.8	524	90.3	811	88.9	577	87.8	1,183	85.4	1,481	92.5	1,641	83.4
Electronic theses and dissertations																		
produced by students	3,106	87.1	1,929	88.4	520	89.7	809	88.7	573	87.2	1,177	85.0	1,477	92.3	1,629	82.8
Consortial services:																		
State has one or more																		
subsidized programs	3,121	87.5	1,938	88.8	523	90.2	811	88.9	577	87.8	1,183	85.4	1,482	92.6	1,639	83.3
Participates in consortia services																		
not funded by the state	3,121	87.5	1,938	88.8	524	90.3	811	88.9	576	87.7	1,183	85.4	1,481	92.5	1,640	83.4
Participates in state																		
subsidized consortia	2,667	100.0	1,671	99.9	458	100.0	710	100.0	481	99.8	996	100.0	1,364	100.0	1,303	99.9
Cost of participation fully funded																		
by the state	2,384	100.0	1,469	100.0	409	100.0	642	100.0	402	100.0	915	99.9	1,327	99.9	1,057	100.0
Cost of participation partially																		
funded by the state	1,545	99.9	1,023	99.9	277	100.0	463	99.8	274	100.0	522	100.0	775	99.9	770	100.0

[1] For data where the item response rate is below 70 percent in "E-books, eofy," for total and all categories of level and control; and in "General circulation transactions" and "Reserve circulation transactions," for "Less than 4-year" and "Private" institutions, see tables 1B, 5A and 5B for the data. Missing data are estimated using imputations as described in the Methodology.

NOTE: Caution should be exercised when using data at a level of detail where the response rate was less than 70 percent.   EOFY = held at End Of Fiscal Year.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Academic Libraries Survey (ALS), 2002.

Table F-2. Number and percentage of non-responding academic libraries, by state, level, and control of institution: 2002

	Total postsecondary degree-granting institutions	Percent	Four-year institutions										Less than four-year		Public		Private	
			Total four-year institutions		Highest level of degree													
					Doctor's		Master's		Bachelor's									
			Number	Percent	Number	Percent	Number	Percent	Number	Percent			Number	Percent	Number	Percent	Number	Percent
Libraries with all items imputed	408	11.4	223	10.2	52	9.0	95	10.4	69	10.5			185	13.4	106	6.6	302	15.4
Alabama	2	3.0	1	2.6	0	0.0	0	0.0	1	6.7			1	3.7	1	2.4	1	4.2
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	7	13.5	2	8.0	1	16.7	1	12.5	0	0.0			5	18.5	4	16.7	3	10.7
Arkansas	1	2.2	1	4.8	0	0.0	0	0.0	1	12.5			0	0.0	0	0.0	1	7.7
California	67	20.0	44	24.3	10	16.7	18	25.0	15	34.9			23	14.9	6	4.3	61	31.3
Colorado	13	21.3	8	21.6	1	7.7	1	14.3	6	35.3			5	20.8	1	3.7	12	35.3
Connecticut	3	6.8	1	3.6	0	0.0	0	0.0	1	20.0			2	12.5	0	0.0	3	13.6
Delaware	2	20.0	2	33.3	1	33.3	1	33.3	0	0.0			0	0.0	2	40.0	0	0.0
District of Columbia	2	13.3	2	13.3	0	0.0	0	0.0	1	50.0			0	0.0	1	50.0	1	7.7
Florida	12	9.2	4	4.8	0	0.0	2	6.5	2	5.7			8	17.0	0	0.0	12	13.2
Georgia	24	22.0	10	17.9	2	13.3	6	21.4	2	15.4			14	26.4	14	20.9	10	23.8
Hawaii	2	11.1	0	0.0	0	0.0	0	0.0	0	0.0			2	25.0	0	0.0	2	22.2
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	19	12.1	11	11.6	8	25.0	2	6.3	0	0.0			8	12.9	6	10.0	13	13.4
Indiana	9	11.1	7	12.5	1	8.3	3	10.3	3	20.0			2	8.0	0	0.0	9	17.3
Iowa	10	16.1	7	15.9	0	0.0	2	13.3	5	21.7			3	16.7	2	11.1	8	18.2
Kansas	5	9.1	3	10.7	1	20.0	2	16.7	0	0.0			2	7.4	3	9.4	2	8.7
Kentucky	5	8.1	1	3.0	0	0.0	0	0.0	1	10.0			4	13.8	3	11.5	2	5.6
Louisiana	2	5.0	1	3.8	0	0.0	0	0.0	1	16.7			1	7.1	0	0.0	2	10.0
Maine	3	10.0	1	5.6	1	33.3	0	0.0	0	0.0			2	16.7	2	13.3	1	6.7
Maryland	5	9.3	4	12.1	1	9.1	3	16.7	0	0.0			1	4.8	1	3.3	4	16.7
Massachusetts	9	8.0	9	10.0	1	3.4	6	15.8	1	5.3			0	0.0	0	0.0	9	11.1
Michigan	10	10.1	8	11.9	2	14.3	5	18.5	1	4.2			2	6.3	2	4.5	8	14.5
Minnesota	1	1.1	0	0.0	0	0.0	0	0.0	0	0.0			1	2.3	1	2.0	0	0.0
Mississippi	8	21.1	6	30.0	1	16.7	1	12.5	4	66.7			2	11.1	2	8.0	6	46.2
Missouri	11	11.1	7	9.7	3	20.0	2	7.1	2	7.1			4	14.8	0	0.0	11	16.4
Montana	1	4.5	0	0.0	0	0.0	0	0.0	0	0.0			1	8.3	1	5.9	0	0.0
Nebraska	6	16.7	3	13.6	0	0.0	2	16.7	1	16.7			3	21.4	3	20.0	3	14.3
Nevada	1	9.1	0	0.0	0	0.0	0	0.0	0	0.0			1	20.0	0	0.0	1	20.0
New Hampshire	5	22.7	4	23.5	2	50.0	1	16.7	1	14.3			1	20.0	1	14.3	4	26.7

See notes at end of table.

Table F-2. Number and percentage of non-responding academic libraries, by state, level, and control of institution: 2002—Continued

	Total postsecondary degree-granting institutions	Percent	Four-year institutions										Less than four-year		Public		Private	
			Total four-year institutions		Highest level of degree													
					Doctor's		Master's		Bachelor's									
			Number	Percent	Number	Percent	Number	Percent	Number	Percent			Number	Percent	Number	Percent	Number	Percent
New Jersey	1	2.0	1	3.2	0	0.0	0	0.0	1	33.3			0	0.0	0	0.0	1	5.3
New Mexico	5	13.9	4	25.0	0	0.0	3	30.0	1	33.3			1	5.0	1	3.8	4	40.0
New York	24	9.4	13	7.6	3	6.4	7	8.8	2	5.0			11	13.1	1	1.2	23	13.1
North Carolina	1	0.8	0	0.0	0	0.0	0	0.0	0	0.0			1	1.6	0	0.0	1	2.3
North Dakota	2	10.5	0	0.0	0	0.0	0	0.0	0	0.0			2	25.0	2	14.3	0	0.0
Ohio	32	21.8	11	12.8	3	14.3	8	18.6	0	0.0			21	34.4	9	17.3	23	24.2
Oklahoma	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0			0	0.0	0	0.0	0	0.0
Oregon	1	1.9	1	3.0	0	0.0	1	5.6	0	0.0			0	0.0	1	4.0	0	0.0
Pennsylvania	28	13.7	15	10.7	6	17.1	5	7.9	4	9.8			13	20.0	3	5.1	25	17.1
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	10	16.4	6	16.2	1	16.7	3	20.0	2	13.3			4	16.7	5	15.2	5	17.9
South Dakota	2	8.7	1	5.6	0	0.0	0	0.0	1	25.0			1	20.0	1	7.7	1	10.0
Tennessee	4	4.9	3	5.2	1	6.3	2	9.5	0	0.0			1	4.2	1	4.5	3	5.0
Texas	16	8.8	8	8.5	0	0.0	2	6.1	4	23.5			8	9.1	4	3.8	12	15.6
Utah	1	4.5	0	0.0	0	0.0	0	0.0	0	0.0			1	10.0	1	10.0	0	0.0
Vermont	5	21.7	3	14.3	0	0.0	2	16.7	1	14.3			2	100.0	3	50.0	2	11.8
Virginia	8	9.4	1	1.8	0	0.0	1	5.9	0	0.0			7	23.3	4	10.3	4	8.7
Washington	8	11.3	4	11.1	1	14.3	2	9.5	1	12.5			4	11.4	5	11.1	3	11.5
West Virginia	5	17.9	2	9.1	0	0.0	0	0.0	2	18.2			3	50.0	2	13.3	3	23.1
Wisconsin	10	16.1	3	6.8	1	14.3	1	3.8	1	9.1			7	38.9	7	22.6	3	9.7
Wyoming	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0			0	0.0	0	0.0	0	0.0

NOTE: Percentages are derived using table F-3 counts.
SOURCE: U.S. Department of Education, National Center for Education Statistics, Academic Libraries Survey (ALS), 2002.

Table F-3. Total number of academic libraries, by state, level, and control of institution: 2002

	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	3,568	2,183	580	912	657	1,385	1,601	1,967
Alabama	66	39	11	13	15	27	42	24
Alaska	6	5	1	2	2	1	4	2
Arizona	52	25	6	8	10	27	24	28
Arkansas	46	21	5	8	8	25	33	13
California	335	181	60	72	43	154	140	195
Colorado	61	37	13	7	17	24	27	34
Connecticut	44	28	8	14	5	16	22	22
Delaware	10	6	3	3	0	4	5	5
District of Columbia	15	15	6	6	2	0	2	13
Florida	131	84	17	31	35	47	40	91
Georgia	109	56	15	28	13	53	67	42
Hawaii	18	10	3	4	3	8	9	9
Idaho	13	9	3	2	4	4	7	6
Illinois	157	95	32	32	30	62	60	97
Indiana	81	56	12	29	15	25	29	52
Iowa	62	44	6	15	23	18	18	44
Kansas	55	28	5	12	11	27	32	23
Kentucky	62	33	7	16	10	29	26	36
Louisiana	40	26	9	11	6	14	20	20
Maine	30	18	3	6	9	12	15	15
Maryland	54	33	11	18	4	21	30	24
Massachusetts	112	90	29	38	19	22	31	81
Michigan	99	67	14	27	24	32	44	55
Minnesota	89	46	10	16	18	43	49	40
Mississippi	38	20	6	8	6	18	25	13
Missouri	99	72	15	28	28	27	32	67
Montana	22	10	2	4	4	12	17	5
Nebraska	36	22	4	12	6	14	15	21
Nevada	11	6	2	1	3	5	6	5
New Hampshire	22	17	4	6	7	5	7	15

See notes at end of table.

Table F-3. Total number of academic libraries, by state, level, and control of institution: 2002—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	51	31	13	15	3	20	32	19
New Mexico	36	16	3	10	3	20	26	10
New York	256	172	47	80	40	84	81	175
North Carolina	119	56	14	20	22	63	75	44
North Dakota	19	11	2	2	7	8	14	5
Ohio	147	86	21	43	20	61	52	95
Oklahoma	46	29	7	14	8	17	29	17
Oregon	53	33	7	18	8	20	25	28
Pennsylvania	205	140	35	63	42	65	59	146
Rhode Island	13	12	5	4	2	1	3	10
South Carolina	61	37	6	15	15	24	33	28
South Dakota	23	18	4	10	4	5	13	10
Tennessee	82	58	16	21	20	24	22	60
Texas	182	94	41	33	18	88	105	77
Utah	22	12	3	3	6	10	10	12
Vermont	23	21	2	12	7	2	6	17
Virginia	85	55	15	17	22	30	39	46
Washington	71	36	7	21	8	35	45	26
West Virginia	28	22	2	8	11	6	15	13
Wisconsin	62	44	7	26	11	18	31	31
Wyoming	9	1	1	0	0	8	8	1

SOURCE: U.S. Department of Education, National Center for Education Statistics, Academic Libraries Survey (ALS), 2002.

Appendix G— Comparison of Reported and Imputed Values
Academic Libraries Survey (ALS) 2002

This appendix was provided by the U.S. Census Bureau. The tables in this appendix compare the final, imputed data with the reported data and the data from the 2000 survey.

Appendix G— Comparison of Reported and Imputed Values
Academic Libraries Survey (ALS) 2002

Table G-1. Item totals and percentage change from 2002 Reported to 2002 Imputed

Current year variable	2002 Reported	2002 Imputed	Percentage change
Records	3,568.00	3,568.00	0.00
BRANCHES	2,728.00	2,949.00	8.10
STLIBS	24,377.13	25,656.51	5.25
STOTHPRO	5,972.94	6,395.85	7.08
STLIBPRO	30,350.07	32,052.36	5.61
SWLIBPRO	1,421,639,488.00	1,504,194,901.00	5.81
STOTH	35,787.13	37,472.50	4.71
SWOTH	961,163,618.00	1,006,741,479.00	4.74
STASST	23,888.72	25,304.55	5.93
SWASST	226,312,092.00	242,467,600.00	7.14
STTOT	90,025.92	94,829.41	5.34
SWTOT	2,610,719,072.00	2,753,403,980.00	5.47
FRINGE	322,588,000.00	341,924,554.00	5.99
EXBKS	608,816,767.00	644,527,449.00	5.87
EXELBKS	41,683,901.00	44,791,711.00	7.46
EXAUD	33,579,962.00	37,040,848.00	10.31
EXCUSER	1,172,264,573.00	1,223,818,397.00	4.40
EXELSER	283,986,388.00	297,657,197.00	4.81
EXDEL	21,868,277.00	22,907,407.00	4.75

See notes at end of table.

Appendix G— Comparison of Reported and Imputed Values
Academic Libraries Survey (ALS) 2002

Table G-1.   Item totals and percentage change from 2002 Reported to 2002 Imputed—Continued

Current year variable	2002 Reported	2002 Imputed	Percentage change
EXPRES	44,062,244.00	46,498,898.00	5.53
EXOTHIR	52,316,024.00	52,975,553.00	1.26
EXCOMP	141,818,838.00	155,568,495.00	9.70
EXBIB	85,768,441.00	92,214,189.00	7.52
EXOTH	402,496,977.00	429,478,285.00	6.70
EXTOT	5,140,135,290.00	5,421,392,653.00	5.47
COLBKSA	23,270,961.00	24,575,696.00	5.61
COLBKSH	905,048,104.00	954,182,359.00	5.43
COLEBKSA	4,167,182.00	6,520,991.00	56.48
COLEBKSH	18,110,309.00	19,499,199.00	7.67
COLMICRA	22,824,923.00	24,443,241.00	7.09
COLMICRH	1,091,329,492.00	1,144,564,739.50	4.88
COLAUDA	3,049,943.00	3,609,605.00	18.35
COLAUDH	78,099,943.00	88,196,516.00	12.93
COLSERA	625,932.00	642,350.00	2.62
COLSERH	7,791,894.00	9,855,958.00	26.49
ILPRET	4,278,657.00	4,891,033.00	14.31
ILPNON	4,354,954.00	4,937,179.00	13.37
ILPTOT	9,273,940.00	9,828,212.00	5.98
ILRRET	3,356,857.00	3,745,535.00	11.58
ILRNON	3,649,904.00	4,098,114.00	12.28
ILRTOT	7,489,271.00	7,843,649.00	4.73
DOCDEL	887,247.00	1,080,450.00	21.78
CRGEN	139,997,458.00	149,225,105.00	6.59
CRRSV	35,320,624.00	39,375,903.00	11.48
PRESEN	414,953.00	452,023.00	8.93
ATTEND	7,353,459.00	7,965,351.00	8.32
HOURS	242,695.00	272,975.00	12.48
GATECT	15,155,081.00	16,926,698.00	11.69
REFTRANS	1,383,600.00	1,508,471.00	9.03

SOURCE: U.S. Department of Education, National Center for Education Statistics, Academic Libraries Survey (ALS), 2002.

Appendix G— Comparison of Reported and Imputed Values
Academic Libraries Survey (ALS) 2002

Table G-2. Item totals and percentage change from 2000 Imputed to 2002 Imputed

Current year variable	2000 Imputed	2002 Imputed	Percentage change
Records	3,451.00	3,568.00	3.39
BRANCHES	2,849.00	2,949.00	3.51
STLIBS	24,842.73	25,656.51	3.28
STOTHPRO	5,722.00	6,395.85	11.78
STLIBPRO	30,564.73	32,052.36	4.87
SWLIBPRO	1,319,957,530.00	1,504,194,901.00	13.96
STOTH	37,484.62	37,472.50	-0.03
SWOTH	939,879,822.00	1,006,741,479.00	7.11
STASST	26,291.59	25,304.55	-3.75
SWASST	227,833,975.00	242,467,600.00	6.42
STTOT	94,340.94	94,829.41	0.52
SWTOT	2,487,671,327.00	2,753,403,980.00	10.68
FRINGE	307,994,532.00	341,924,554.00	11.02
EXBKS	610,381,810.00	644,527,449.00	5.59
EXELBKS	33,576,053.00	44,791,711.00	33.40
EXAUD	31,874,164.00	37,040,848.00	16.21
EXCUSER	1,139,664,620.00	1,223,818,397.00	7.38
EXELSER	201,377,265.00	297,657,197.00	47.81
EXDEL	20,404,013.00	22,907,407.00	12.27
EXPRES	43,239,266.00	46,498,898.00	7.54
EXOTHIR	33,559,956.00	52,975,553.00	57.85
EXCOMP	156,691,197.00	155,568,495.00	-0.72
EXBIB	89,393,422.00	92,214,189.00	3.16
EXOTH	387,165,936.00	429,478,285.00	10.93
EXTOT	4,968,171,547.00	5,421,392,653.00	9.12
COLBKSA	24,157,311.00	24,575,696.00	1.73
COLBKSH	902,581,258.00	954,182,359.00	5.72
COLMICRA	34,223,837.00	24,443,241.00	-28.58
COLMICRH	1,100,049,462.00	1,144,564,739.50	4.05
COLAUDA	2,800,624.00	3,609,605.00	28.89
COLAUDH	86,796,546.00	88,196,516.00	1.61

See notes at end of table.

Table G-2.   Item totals and percentage change from 2000 Imputed to 2002
             Imputed—Continued

Current year variable	2000 Imputed	2002 Imputed	Percentage change
ILPRET	4,572,633.00	4,891,033.00	6.96
ILPNON	4,841,783.00	4,937,179.00	1.97
ILPTOT	9,414,416.00	9,828,212.00	4.40
ILRRET	3,515,501.00	3,745,535.00	6.54
ILRNON	4,143,050.00	4,098,114.00	-1.08
ILRTOT	7,658,551.00	7,843,649.00	2.42
DOCDEL	1,224,778.00	1,080,450.00	-11.78
CRGENRSV	191,645,720.00	188,601,008.00	-1.59
PRESEN	428,245.00	452,023.00	5.55
ATTEND	7,431,924.00	7,965,351.00	7.18
HOURS	265,190.00	272,975.00	2.94
GATECT	16346061.00	16,926,698.00	3.55
REFTRANS	1,568,893.00	1,508,471.00	-3.85
COLEBKSA	—	6,520,991.00	—
COLEBKSH	—	19,499,199.00	—
COLSERA	—	642,350.00	—
COLSERH	—	9,855,958.00	—

— Not available.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Academic Libraries Survey (ALS), 2002.

Appendix G— Comparison of Reported and Imputed Values
Academic Libraries Survey (ALS) 2002

Table G-3. Item totals and percentage change from 2000 Reported to 2002 Reported

Current year variable	2000 Reported	2002 Reported	Percentage change
Records	3,451.00	3,568.00	3.39
BRANCHES	2,535.00	2,728.00	7.61
STLIBS	22,838.00	24,377.13	6.74
STOTHPRO	5,242.00	5,972.94	13.94
STLIBPRO	28,171.00	30,350.07	7.74
SWLIBPRO	1,229,700,988.00	1,421,639,488.00	15.61
STOTH	34,742.00	35,787.13	3.01
SWOTH	884,359,382.00	961,163,618.00	8.68
STASST	23,553.00	23,888.72	1.43
SWASST	211,348,074.00	226,312,092.00	7.08
STTOT	87,495.00	90,025.92	2.89
SWTOT	2,325,408,444.00	2,610,719,072.00	12.27
FRINGE	284,733,149.00	322,588,000.00	13.29
EXBKS	561,266,940.00	608,816,767.00	8.47
EXELBKS	30,745,486.00	41,683,901.00	35.58
EXAUD	29,726,158.00	33,579,962.00	12.96
EXCUSER	1070337153.00	1,172,264,573.00	9.52
EXELSER	192,192,333.00	283,986,388.00	47.76
EXDEL	19,078,019.00	21,868,277.00	14.63
EXPRES	41,422,476.00	44,062,244.00	6.37
EXOTHIR	30,716,751.00	52,316,024.00	70.32
EXCOMP	144,852,179.00	141,818,838.00	-2.09
EXBIB	83,822,574.00	85,768,441.00	2.32
EXOTH	340,800,845.00	402,496,977.00	18.10
EXTOT	4,631,794,662.0	5,140,135,290.0	10.98
COLBKSA	22,429,247.00	23,270,961.00	3.75
COLBKSH	848,985,944.00	905,048,104.00	6.60
COLMICRA	31,007,267.00	22824923.00	-26.39
COLMICRH	1,023,909,231.00	1,091,329,492.00	6.58
COLAUDA	2,322,051.00	3,049,943.00	31.35

See notes at end of table.

Appendix G— Comparison of Reported and Imputed Values
Academic Libraries Survey (ALS) 2002

Table G-3. Item totals and percentage change from 2000 Reported to 2002
Reported—Continued

Current year variable	2000 Reported	2002 Reported	Percentage change
COLAUDH	78,674,894.00	78,099,943.00	-0.73
ILPRET	3,853,986.00	4,278,657.00	11.02
ILPNON	4,113,269.00	4,354,954.00	5.88
ILPTOT	8,731,764.00	9,273,940.00	6.21
ILRRET	3,047,397.00	3,356,857.00	10.15
ILRNON	3,589,987.00	3,649,904.00	1.67
ILRTOT	7,102,419.00	7,489,271.00	5.45
DOCDEL	979,948.00	887,247.00	-9.46
CRGENRSV	177,355,363.00	175,318,082.00	-1.15
PRESEN	385,808.00	414,953.00	7.55
ATTEND	6,735,903.00	7,353,459.00	9.17
HOURS	233,455.00	242,695.00	3.96
GATECT	13,473,325.00	15,155,081.00	12.48
REFTRANS	1,385,422.00	1,383,600.00	-0.13
COLEBKSA	—	4,167,182.00	—
COLEBKSH	—	181,10,309.00	—
COLSERA	—	625,932.00	—
COLSERH	—	7,791,894.00	—

— Not available.
SOURCE: U.S. Department of Education, National Center for Education Statistics,
Academic Libraries Survey (ALS), 2002.

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002

This appendix provides frequency counts for categorical variables and descriptions of continuous variables.

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Public-use

```
ALS_2002_P.2.A variable frequencies
14:37 Tuesday, August 9, 2005
The FREQ Procedure
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Status of the Institution

ACT	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Active - Institution active and not an add	3887	100.00	3887	100.00

Institution Address

ADDR	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Blank value	84	2.16	84	2.16
Valid value	3803	97.84	3887	100.00

Total Attendance at Presentations

ATTEND	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value	3887	100.00	3887	100.00

Number of Branch and Independent Libraries

BRANCHES	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value	3887	100.00	3887	100.00

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Public-use

Carnegie Classification Code

CARNEGIE	Frequency	Percent	Cumulative Frequency	Cumulative Percent
-3 Not available	420	10.81	420	10.81
15 Doctoral/Research universities - Extensive	150	3.86	570	14.66
16 Doctoral/Research universities - Intensive	106	2.73	676	17.39
21 Master's Colleges and Universities I	483	12.43	1159	29.82
22 Master's (comprehensive) Colleges and Universities II	110	2.83	1269	32.65
31 Baccalaureate Colleges - Liberal Arts	216	5.56	1485	38.20
32 Baccalaureate Colleges - General	304	7.82	1789	46.03
33 Baccalaureate/Associate's Colleges	50	1.29	1839	47.31
40 Associate's Colleges	1433	36.87	3272	84.18
51 Theological seminaries and other specialized faith-related institutions	203	5.22	3475	89.40
52 Medical schools and medical centers	45	1.16	3520	90.56
53 Other separate health profession schools	86	2.21	3606	92.77
54 Schools of engineering and technology	55	1.41	3661	94.19
55 Schools of business and management	34	0.87	3695	95.06
56 Schools of art, music, and design	80	2.06	3775	97.12
57 Schools of law	21	0.54	3796	97.66
58 Teachers colleges	6	0.15	3802	97.81
59 Other specialized institutions	56	1.44	3858	99.25
60 Tribal Colleges and Universities	29	0.75	3887	100.00

Institution City

CITY	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value	3887	100.00	3887	100.00

Consortium Cost Fully Funded by State

CNFULLYN	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 Yes	839	21.58	839	21.58
2 No	1546	39.77	2385	61.36
N No response	1218	31.34	3603	92.69
S Skip, no participation	284	7.31	3887	100.00

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Public-use

Library Participate in any Other Consortia

CNOTHRYN	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 Yes	2099	54.00	2099	54.00
2 No	1022	26.29	3121	80.29
N No response	766	19.71	3887	100.00

Participate in Consortium

CNPARTYN	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 Yes	2385	61.36	2385	61.36
2 No	284	7.31	2669	68.66
N No response	1218	31.34	3887	100.00

Consortium Cost Partially Funded by State

CNPRTLYN	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 Yes	1179	30.33	1179	30.33
2 No	366	9.42	1545	39.75
F Full participation	839	21.58	2384	61.33
N No response	1219	31.36	3603	92.69
S Skip, no participation	284	7.31	3887	100.00

State have Subsidized Library Consortium

CNSUBYN	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 Yes	2668	68.64	2668	68.64
2 No	453	11.65	3121	80.29
N No response	766	19.71	3887	100.00

Collections - Audiovisual - Added

COLAUDA	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value	3887	100.00	3887	100.00

```
                  Collections - Audiovisual - Held

                                            Cumulative   Cumulative
            COLAUDH    Frequency    Percent   Frequency      Percent
-----------------------------------------------------------------------
Valid value                3887     100.00        3887       100.00


                  Collections - Books - Added

                                            Cumulative   Cumulative
            COLBKSA    Frequency    Percent   Frequency      Percent
-----------------------------------------------------------------------
Valid value                3887     100.00        3887       100.00


                  Collections - Books - Held

                                            Cumulative   Cumulative
            COLBKSH    Frequency    Percent   Frequency      Percent
-----------------------------------------------------------------------
Valid value                3887     100.00        3887       100.00


                  Collections - E Books - Added

                                            Cumulative   Cumulative
            COLEBKSA   Frequency    Percent   Frequency      Percent
-----------------------------------------------------------------------
Valid value                3887     100.00        3887       100.00



                  Collections - E Books - Held

                                            Cumulative   Cumulative
            COLEBKSH   Frequency    Percent   Frequency      Percent
-----------------------------------------------------------------------
Valid value                3887     100.00        3887       100.00


                  Collections - Microforms - Added

                                            Cumulative   Cumulative
            COLMICRA   Frequency    Percent   Frequency      Percent
-----------------------------------------------------------------------
Valid value                3887     100.00        3887       100.00
```

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Public-use

Collections - Microforms - Held

COLMICRH	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value	3887	100.00	3887	100.00

Collections - Serial Subscription - Added

COLSERA	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value	3887	100.00	3887	100.00

Collections - Serial Subscriptions Held

COLSERH	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value	3887	100.00	3887	100.00

Control of Institution

CONTROL	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 Public	1663	42.78	1663	42.78
2 Private, nonprofit	1571	40.42	3234	83.20
3 Private, for profit	653	16.80	3887	100.00

General Circulation Transactions

CRGEN	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value	3887	100.00	3887	100.00

Reserve Circulation Transactions

CRRSV	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value	3887	100.00	3887	100.00

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Public-use

Current Year Parent/Child Indicator

CYPARCH	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 Parent	77	1.98	77	1.98
2 Child	170	4.37	247	6.35
N No response	3640	93.65	3887	100.00

Data Source Code - Media Source Used for Returning Data

DATSRC	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 Internet/Web	3847	98.97	3847	98.97
N Not returned	40	1.03	3887	100.00

Degree Granting Status

DEGGRANT	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 Yes	3887	100.00	3887	100.00

Documents Delivered from Commercial Services

DOCDEL	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value	3887	100.00	3887	100.00

Does Documents Digitized by Library Staff

DOCDIGYN	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 Yes	893	22.97	893	22.97
2 No	2227	57.29	3120	80.27
N No response	767	19.73	3887	100.00

```
                     Dunn and Bradstreet Id Number

                                          Cumulative   Cumulative
DUNS                 Frequency   Percent   Frequency     Percent
-----------------------------------------------------------------
Blank value              145       3.73         145        3.73
Valid value             3742      96.27        3887      100.00


                      Most Recent Edit Date

                                          Cumulative   Cumulative
EDITDATE             Frequency   Percent   Frequency     Percent
-----------------------------------------------------------------
Blank value              727      18.70         727       18.70
Valid value             3160      81.30        3887      100.00


                    Release Status Give to NCES

                                                             Cumulative   Cumulative
EDITST                                           Frequency   Percent   Frequency     Percent
-------------------------------------------------------------------------------------------
0 Not edited                                         727      18.70         727       18.70
1 Record edited with no edit or critical flags       287       7.38        1014       26.09
2 Record edited with critical edit flags, analyst accept  2873  73.91      3887      100.00


                      Employer Id Number

                                          Cumulative   Cumulative
EIN                  Frequency   Percent   Frequency     Percent
-----------------------------------------------------------------
Blank value               77       1.98          77        1.98
-1 Not reported          305       7.85         382        9.83
-2 Not applicable          6       0.15         388        9.98
Valid value             3499      90.02        3887      100.00


                Institution has an Eligible Collection

                                          Cumulative   Cumulative
ELGCOLL              Frequency   Percent   Frequency     Percent
-----------------------------------------------------------------
1 Yes                   3246      83.51        3246       83.51
2 No                      53       1.36        3299       84.87
N No response            588      15.13        3887      100.00
```

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Public-use

Institution has physical Library Facility

ELGPHYS	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 Yes	3215	82.71	3215	82.71
2 No	84	2.16	3299	84.87
N No response	588	15.13	3887	100.00

Institution has an Established Schedule

ELGSCHED	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 Yes	3195	82.20	3195	82.20
2 No	104	2.68	3299	84.87
N No response	588	15.13	3887	100.00

Institution has Eligible Staff

ELGSTAFF	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 Yes	3187	81.99	3187	81.99
2 No	112	2.88	3299	84.87
N No response	588	15.13	3887	100.00

Expenditure - Audio visual

EXAUD	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value	3887	100.00	3887	100.00

Expenditure - Bibliographic Utilities

EXBIB	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value	3887	100.00	3887	100.00

```
                     Expenditure - Books

                                           Cumulative   Cumulative
              EXBKS     Frequency    Percent    Frequency      Percent
-------------------------------------------------------------------------
Valid value               3887      100.00        3887       100.00


             Expenditure - Computer Hardware Software

                                           Cumulative   Cumulative
             EXCOMP     Frequency    Percent    Frequency      Percent
-------------------------------------------------------------------------
Valid value               3887      100.00        3887       100.00


                 Expenditure - Serial Subscription

                                           Cumulative   Cumulative
             EXCUSER    Frequency    Percent    Frequency      Percent
-------------------------------------------------------------------------
Valid value               3887      100.00        3887       100.00


                  Expenditure - Document Deliver

                                           Cumulative   Cumulative
              EXDEL     Frequency    Percent    Frequency      Percent
-------------------------------------------------------------------------
Valid value               3887      100.00        3887       100.00


                   Expenditure - Electronic Books

                                           Cumulative   Cumulative
             EXELBKS    Frequency    Percent    Frequency      Percent
-------------------------------------------------------------------------
Valid value               3887      100.00        3887       100.00


                  Expenditure - Electronic serials

                                           Cumulative   Cumulative
             EXELSER    Frequency    Percent    Frequency      Percent
-------------------------------------------------------------------------
Valid value               3887      100.00        3887       100.00
```

Expenditure - All Other Operating Expenditure

EXOTH	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Missing numeric value	1169	30.07	1169	30.07
Valid value	2718	69.93	3887	100.00

Expenditure - Other Information Resources

EXOTHIR	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value	3887	100.00	3887	100.00

Expenditure - Preservation

EXPRES	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value	3887	100.00	3887	100.00

Expenditure - Total

EXTOT	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value	3887	100.00	3887	100.00

Provide Financial Support to Another Library

FINSUPP	Frequency	Percent	Cumulative Frequency	Cumulative Percent
2 No	3887	100.00	3887	100.00

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Public-use

```
FIPS state code


                                            Cumulative   Cumulative
FIPS                   Frequency   Percent   Frequency     Percent
-----------------------------------------------------------------------
01 Alabama                   75      1.93          75        1.93
02 Alaska                     6      0.15          81        2.08
04 Arizona                   63      1.62         144        3.70
05 Arkansas                  46      1.18         190        4.89
06 California               379      9.75         569       14.64
08 Colorado                  70      1.80         639       16.44
09 Connecticut               45      1.16         684       17.60
10 Delaware                  10      0.26         694       17.85
11 District of Columbia      16      0.41         710       18.27
12 Florida                  150      3.86         860       22.13
13 Georgia                  122      3.14         982       25.26
15 Hawaii                    20      0.51        1002       25.78
16 Idaho                     13      0.33        1015       26.11
17 Illinois                 168      4.32        1183       30.43
18 Indiana                   88      2.26        1271       32.70
19 Iowa                      62      1.60        1333       34.29
20 Kansas                    60      1.54        1393       35.84
21 Kentucky                  74      1.90        1467       37.74
22 Louisiana                 46      1.18        1513       38.92
23 Maine                     32      0.82        1545       39.75
24 Maryland                  63      1.62        1608       41.37
25 Massachusetts            114      2.93        1722       44.30
26 Michigan                 104      2.68        1826       46.98
27 Minnesota                111      2.86        1937       49.83
28 Mississippi               40      1.03        1977       50.86
29 Missouri                 109      2.80        2086       53.67
30 Montana                   23      0.59        2109       54.26
31 Nebraska                  38      0.98        2147       55.24
32 Nevada                    13      0.33        2160       55.57
33 New Hampshire             25      0.64        2185       56.21
34 New Jersey                53      1.36        2238       57.58
35 New Mexico                42      1.08        2280       58.66
36 New York                 264      6.79        2544       65.45
37 North Carolina           120      3.09        2664       68.54
38 North Dakota              20      0.51        2684       69.05
39 Ohio                     160      4.12        2844       73.17
40 Oklahoma                  52      1.34        2896       74.50
41 Oregon                    56      1.44        2952       75.95
42 Pennsylvania             234      6.02        3186       81.97
44 Rhode Island             13      0.33        3199       82.30
45 South Carolina            62      1.60        3261       83.90
46 South Dakota              26      0.67        3287       84.56
47 Tennessee                 86      2.21        3373       86.78
48 Texas                    188      4.84        3561       91.61
49 Utah                      24      0.62        3585       92.23
50 Vermont                   27      0.69        3612       92.93
```

FIPS state code—Continued

FIPS	Frequency	Percent	Cumulative Frequency	Cumulative Percent
51 Virginia	95	2.44	3707	95.37
53 Washington	76	1.96	3783	97.32
54 West Virginia	31	0.80	3814	98.12
55 Wisconsin	64	1.65	3878	99.77
56 Wyoming	9	0.23	3887	100.00

First Professional Offering

FPOFFER	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 First professional degree or first professional certificate (Post-degree)	515	13.25	515	13.25
2 No first professional offering	3372	86.75	3887	100.00

Fringe Benefit

FRINGE	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Missing numeric value	2171	55.85	2171	55.85
Valid value	1716	44.15	3887	100.00

Are Fringe Benefit paid from Library Budget

FRINGEYN	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 Yes	1730	44.51	1730	44.51
2 No	2157	55.49	3887	100.00

IPEDS Fall Full-Time Equivalent Enrollment - Imputation used

FTEUSED	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Missing numeric value	54	1.39	54	1.39
Valid value	3833	98.61	3887	100.00

```
                        Full-Time Equivalent Estimated or Not

                                           Cumulative   Cumulative
FTEFLAG            Frequency      Percent    Frequency      Percent
-----------------------------------------------------------------
0 Not estimated        3837        98.71         3837        98.71
1 Estimated              50         1.29         3887       100.00


                        Gate Count in a Typical Week

                                           Cumulative   Cumulative
       GATECT      Frequency      Percent    Frequency      Percent
-----------------------------------------------------------------
Valid value            3887       100.00         3887       100.00


                            Graduate Offering

                                                Cumulative   Cumulative
             GROFFER      Frequency      Percent   Frequency      Percent
------------------------------------------------------------------------
1 Graduate degree or certificate offered      1645    42.32      1645        42.32
2 No graduate offering                        2242    57.68      3887       100.00


                    Historically Black College/University

                                           Cumulative   Cumulative
     HBCU      Frequency      Percent    Frequency      Percent
-----------------------------------------------------------------
-3 Not available         38         0.98           38         0.98
1 Yes                   101         2.60          139         3.58
2 No                   3748        96.42         3887       100.00


                            Highest Degree Offered

                                                Cumulative   Cumulative
             HDEGOFFR      Frequency      Percent   Frequency      Percent
------------------------------------------------------------------------
1 First professional degrees only        35     0.90        35         0.90
10 Doctoral                             281     7.23       316         8.13
11 Doctoral and First professional      350     9.00       666        17.13
20 Master's                             868    22.33      1534        39.46
21 Master's and First professional      114     2.93      1648        42.40
30 Bachelors                            692    17.80      2340        60.20
31 Bachelors and First professional      15     0.39      2355        60.59
40 Associates                          1532    39.41      3887       100.00
```

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Public-use

Highest Level of Education Offering

HLOFFER	Frequency	Percent	Cumulative Frequency	Cumulative Percent
-2 Not applicable, first professional only	33	0.85	33	0.85
1 Postsecondary award, certificate or diploma of less than one academic year	1	0.03	34	0.87
3 Associate degree	1140	29.33	1174	30.20
4 Postsecondary award, certificate or diploma of at least two but less than four academic years	391	10.06	1565	40.26
5 Bachelor's degree	677	17.42	2242	57.68
6 Post baccalaureate certificate	32	0.82	2274	58.50
7 Master's degree	775	19.94	3049	78.44
8 Post master's certificate	207	5.33	3256	83.77
9 Doctoral degree	631	16.23	3887	100.00

Institution has Hospital

HOSPITAL	Frequency	Percent	Cumulative Frequency	Cumulative Percent
-3 Not available	38	0.98	38	0.98
1 Yes	88	2.26	126	3.24
2 No	3761	96.76	3887	100.00

Hours Open in a Typical Week

HOURS	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value	3887	100.00	3887	100.00

Level of Institution

ICLEVEL	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 Four or more years (Baccalaureate or higher degree)	2356	60.61	2356	60.61
2 At least 2 but less than 4 years (below the Baccalaureate)	1531	39.39	3887	100.00

Inter Library Loans Provided Non-returnable

ILPNON	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value	3887	100.00	3887	100.00

```
            Inter Library Loans Provided Returnable

                                          Cumulative    Cumulative
             ILPRET     Frequency    Percent    Frequency     Percent
-----------------------------------------------------------------
Valid value               3887      100.00        3887      100.00


            Inter Library Loans Provided Total

                                          Cumulative    Cumulative
             ILPTOT     Frequency    Percent    Frequency     Percent
-----------------------------------------------------------------
Valid value               3887      100.00        3887      100.00


            Inter Library Loans Received Non-returnable

                                          Cumulative    Cumulative
             ILRNON     Frequency    Percent    Frequency     Percent
-----------------------------------------------------------------
Valid value               3887      100.00        3887      100.00


            Inter Library Loans Received Returnable

                                          Cumulative    Cumulative
             ILRRET     Frequency    Percent    Frequency     Percent
-----------------------------------------------------------------
Valid value               3887      100.00        3887      100.00


            Inter Library Loans Received Total

                                          Cumulative    Cumulative
             ILRTOT     Frequency    Percent    Frequency     Percent
-----------------------------------------------------------------
Valid value               3887      100.00        3887      100.00


          Most Recent Impute Date

                                    Cumulative    Cumulative
IMPDATE          Frequency    Percent    Frequency     Percent
-----------------------------------------------------------------
Blank value           974      25.06         974       25.06
Valid value          2913      74.94        3887      100.00
```

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Public-use

Impute Indicator

IMPUTE	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0 Not imputed	974	25.06	974	25.06
1 At least one part is imputed	2913	74.94	3887	100.00

Institution Name

INSTNM	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value	3887	100.00	3887	100.00

Name of 1st Institution Library is Shared With

LIBNAME1	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Blank value	3887	100.00	3887	100.00

Name of 2nd Institution Library is Shared With

LIBNAME2	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Blank value	3887	100.00	3887	100.00

Name of 3rd Institution Library is Shared With

LIBNAME3	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Blank value	3887	100.00	3887	100.00

Does Library Provide Reference Service by Email or Web

LIBREFYN	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 Yes	2424	62.36	2424	62.36
2 No	698	17.96	3122	80.32
N No response	765	19.68	3887	100.00

```
                  Shared Library, 1st Unit Id

                                    Cumulative   Cumulative
LIBSHAR1          Frequency    Percent   Frequency    Percent
--------------------------------------------------------------
Blank value           3887     100.00        3887     100.00


                  Shared Library, 2nd Unit Id

                                    Cumulative   Cumulative
LIBSHAR2          Frequency    Percent   Frequency    Percent
--------------------------------------------------------------
Blank value           3887     100.00        3887     100.00


                  Shared Library, 3rd Unit Id

                                    Cumulative   Cumulative
LIBSHAR3          Frequency    Percent   Frequency    Percent
--------------------------------------------------------------
Blank value           3887     100.00        3887     100.00


              Locale Code - Degree of Urbanization

                                            Cumulative   Cumulative
                  LOCALE   Frequency    Percent   Frequency    Percent
-----------------------------------------------------------------------
-3 Not available              112       2.88        112       2.88
1 Large city                  870      22.38        982      25.26
2 Mid-size city               991      25.50       1973      50.76
3 Urban fringe of large city  728      18.73       2701      69.49
4 Urban fringe of mid-size city 244     6.28       2945      75.77
5 Large town                  131       3.37       3076      79.14
6 Small town                  598      15.38       3674      94.52
7 Rural                       204       5.25       3878      99.77
9 Not assigned                  9       0.23       3887     100.00


              Institution Grants Medical Degree

                                    Cumulative   Cumulative
         MEDICAL  Frequency    Percent   Frequency    Percent
--------------------------------------------------------------
-3 Not available      133       3.42        133       3.42
1 Yes                 159       4.09        292       7.51
2 No                 3595      92.49       3887     100.00
```

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Public-use

Date Imputations Run by ESMPD

NCESDATE	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Blank value	974	25.06	974	25.06
Valid value	2913	74.94	3887	100.00

OBE Region Code

OBEREG	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0 US Service Schools	5	0.13	5	0.13
1 New England - CT ME MA NH RI VT	255	6.56	260	6.69
2 Mid East - DE DC MD NJ NY PA	637	16.39	897	23.08
3 Great Lakes - IL IN MI OH WI	584	15.02	1481	38.10
4 Plains - IA KS MN MO NE ND SD	426	10.96	1907	49.06
5 Southeast - AL AR FL GA KY LA MS NC SC TN VA WV	947	24.36	2854	73.42
6 Southwest - AZ NM OK TX	345	8.88	3199	82.30
7 Rocky Mountains - CO ID MT UT WY	138	3.55	3337	85.85
8 Far West - AK CA HI NV OR WA	550	14.15	3887	100.00

OPE Eligibility Indicator

OPEFLAG	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 Institution participates in Title IV federal financial aid programs	3871	99.59	3871	99.59
2 Branch campus of a main campus that participates in Title IV	12	0.31	3883	99.90
3 Deferment only - limited participation	3	0.08	3886	99.97
5 Not currently participating in Title IV, has an OPE ID number	1	0.03	3887	100.00

Office of Post Sec Education Id Num for Title IV Participant

OPEID	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value	3887	100.00	3887	100.00

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Public-use

Institution Open to the General Public

OPENPUBL	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 Yes	3887	100.00	3887	100.00

Imp Flag for Line Item 1

PARTAFLAG1	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0 Nothing imputed for this part/total respondent for this part	3556	91.48	3556	91.48
1 Total non-respondent for this part	331	8.52	3887	100.00

Imp Flag for Line Items 2-7

PARTBFLAG1	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0 Nothing imputed for this part/total respondent for this part	3342	85.98	3342	85.98
1 Total non-respondent for this part	408	10.50	3750	96.48
2 Partial non-respondent for this part	137	3.52	3887	100.00

Imp Flag for Line Items 8a,8b

PARTBFLAG2	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0 Nothing imputed for this part/total respondent for this part	3700	95.19	3700	95.19
1 Total non-respondent for this part	187	4.81	3887	100.00

Imp Flag for Line Items 10,13,15-21

PARTCFLAG1	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0 Nothing imputed for this part/total respondent for this part	3277	84.31	3277	84.31
1 Total non-respondent for this part	423	10.88	3700	95.19
2 Partial non-respondent for this part	187	4.81	3887	100.00

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Public-use

Imp Flag for Line Items 11,12,14

PARTCFLAG2	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0 Nothing imputed for this part/total respondent for this part	2937	75.56	2937	75.56
1 Total non-respondent for this part	483	12.43	3420	87.99
2 Partial non-respondent for this part	467	12.01	3887	100.00

Imp Flag for Line Items 22,24-26

PARTDFLAG1	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0 Nothing imputed for this part/total respondent for this part	2996	77.08	2996	77.08
1 Total non-respondent for this part	462	11.89	3458	88.96
2 Partial non-respondent for this part	429	11.04	3887	100.00

Imp Flag for Line Item 23

PARTDFLAG2	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0 Nothing imputed for this part/total respondent for this part	2321	59.71	2321	59.71
1 Total non-respondent for this part	744	19.14	3065	78.85
2 Partial non-respondent for this part	822	21.15	3887	100.00

Imp Flag for Line Items 27-33

PARTEFLAG1	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0 Nothing imputed for this part/total respondent for this part	3182	81.86	3182	81.86
1 Total non-respondent for this part	481	12.37	3663	94.24
2 Partial non-respondent for this part	224	5.76	3887	100.00

Imp Flag for Line Items 34a,34b

PARTEFLAG2	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0 Nothing imputed for this part/total respondent for this part	2914	74.97	2914	74.97
1 Total non-respondent for this part	442	11.37	3356	86.34
2 Partial non-respondent for this part	531	13.66	3887	100.00

Imp Flag for Line Items 35,36

PARTEFLAG3	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0 Nothing imputed for this part/total respondent for this part	3372	86.75	3372	86.75
1 Total non-respondent for this part	510	13.12	3882	99.87
2 Partial non-respondent for this part	5	0.13	3887	100.00

Imp Flag for Line Items 37-39

PARTFFLAG1	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0 Nothing imputed for this part/total respondent for this part	3306	85.05	3306	85.05
1 Total non-respondent for this part	434	11.17	3740	96.22
2 Partial non-respondent for this part	147	3.78	3887	100.00

Percent Black non-Hispanic 2001 Fall Enroll

PCTMIN1	Frequency	Percent	Cumulative Frequency	Cumulative Percent
-3 Not available	82	2.11	82	2.11
-1 Not reported	97	2.50	179	4.61
Valid value	3708	95.39	3887	100.00

Percent American Indian 2001 Fall Enroll

PCTMIN2	Frequency	Percent	Cumulative Frequency	Cumulative Percent
-3 Not available	82	2.11	82	2.11
-1 Not reported	97	2.50	179	4.61
Valid value	3708	95.39	3887	100.00

Percent Asian/Pacific Islander 2001 Fall Enroll

PCTMIN3	Frequency	Percent	Cumulative Frequency	Cumulative Percent
-3 Not available	82	2.11	82	2.11
-1 Not reported	97	2.50	179	4.61
Valid value	3708	95.39	3887	100.00

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Public-use

Percent Hispanic 2001 Fall Enroll

PCTMIN4	Frequency	Percent	Cumulative Frequency	Cumulative Percent
-3 Not available	82	2.11	82	2.11
-1 Not reported	97	2.50	179	4.61
Valid value	3708	95.39	3887	100.00

Number of Presentations

PRESEN	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value	3887	100.00	3887	100.00

Reference Transactions in a Typical Week

REFTRANS	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value	3887	100.00	3887	100.00

Sector of Institution

SECTOR	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 Public, 4-year or above	630	16.21	630	16.21
2 Private nonprofit, 4-year and above	1452	37.36	2082	53.56
3 Private for profit, 4-year and above	274	7.05	2356	60.61
4 Public, 2-year	1033	26.58	3389	87.19
5 Private nonprofit, 2-year	119	3.06	3508	90.25
6 Private for profit, 2-year	379	9.75	3887	100.00

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Public-use

State Abbreviation Code

STABBR	Frequency	Percent	Cumulative Frequency	Cumulative Percent
AK Alaska	6	0.15	6	0.15
AL Alabama	75	1.93	81	2.08
AR Arkansas	46	1.18	127	3.27
AZ Arizona	63	1.62	190	4.89
CA California	379	9.75	569	14.64
CO Colorado	70	1.80	639	16.44
CT Connecticut	45	1.16	684	17.60
DC District of Columbia	16	0.41	700	18.01
DE Delaware	10	0.26	710	18.27
FL Florida	150	3.86	860	22.13
GA Georgia	122	3.14	982	25.26
HI Hawaii	20	0.51	1002	25.78
IA Iowa	62	1.60	1064	27.37
ID Idaho	13	0.33	1077	27.71
IL Illinois	168	4.32	1245	32.03
IN Indiana	88	2.26	1333	34.29
KS Kansas	60	1.54	1393	35.84
KY Kentucky	74	1.90	1467	37.74
LA Louisiana	46	1.18	1513	38.92
MA Massachusetts	114	2.93	1627	41.86
MD Maryland	63	1.62	1690	43.48
ME Maine	32	0.82	1722	44.30
MI Michigan	104	2.68	1826	46.98
MN Minnesota	111	2.86	1937	49.83
MO Missouri	109	2.80	2046	52.64
MS Mississippi	40	1.03	2086	53.67
MT Montana	23	0.59	2109	54.26
NC North Carolina	120	3.09	2229	57.34
ND North Dakota	20	0.51	2249	57.86
NE Nebraska	38	0.98	2287	58.84
NH New Hampshire	25	0.64	2312	59.48
NJ New Jersey	53	1.36	2365	60.84
NM New Mexico	42	1.08	2407	61.92
NV Nevada	13	0.33	2420	62.26
NY New York	264	6.79	2684	69.05
OH Ohio	160	4.12	2844	73.17
OK Oklahoma	52	1.34	2896	74.50
OR Oregon	56	1.44	2952	75.95
PA Pennsylvania	234	6.02	3186	81.97
RI Rhode Island	13	0.33	3199	82.30
SC South Carolina	62	1.60	3261	83.90
SD South Dakota	26	0.67	3287	84.56
TN Tennessee	86	2.21	3373	86.78
TX Texas	188	4.84	3561	91.61
UT Utah	24	0.62	3585	92.23
VA Virginia	95	2.44	3680	94.67

State Abbreviation Code—Continued

STABBR	Frequency	Percent	Cumulative Frequency	Cumulative Percent
VT Vermont	27	0.69	3707	95.37
WA Washington	76	1.96	3783	97.32
WI Wisconsin	64	1.65	3847	98.97
WV West Virginia	31	0.80	3878	99.77
WY Wyoming	9	0.23	3887	100.00

Student Assistants

STASST	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value	3887	100.00	3887	100.00

Response Status Code

STATUS	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 Respondent	3313	85.23	3313	85.23
3 Nonrespondent to data and screening questions, not imputed	8	0.21	3321	85.44
4 Nonrespondent, imputed	425	10.93	3746	96.37
5 Nonrespondent to data (screening questions reported, out-of-scope), not imputed	141	3.63	3887	100.00

Staff - Total Librarians and Other Professional Staff

STLIBPRO	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value	3887	100.00	3887	100.00

Staff - Librarians

STLIBS	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value	3887	100.00	3887	100.00

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Public-use

```
                  All Other Paid Staff

                                          Cumulative   Cumulative
             STOTH    Frequency    Percent  Frequency     Percent
-------------------------------------------------------------------
Valid value               3887     100.00       3887      100.00


              Staff - Other Professional Staff

                                          Cumulative   Cumulative
          STOTHPRO    Frequency    Percent  Frequency     Percent
-------------------------------------------------------------------
Valid value               3887     100.00       3887      100.00


              Total Full Time Equivalent Staff


                                          Cumulative   Cumulative
             STTOT    Frequency    Percent  Frequency     Percent
-------------------------------------------------------------------
Valid value               3887     100.00       3887      100.00


              Salary & Wage - Student Assistant

                                          Cumulative   Cumulative
            SWASST    Frequency    Percent  Frequency     Percent
-------------------------------------------------------------------
Missing numeric value     1704      43.84       1704       43.84
Valid value               2183      56.16       3887      100.00


      Salary & Wage - Librarian and Other Professional Staff

                                          Cumulative   Cumulative
          SWLIBPRO    Frequency    Percent  Frequency     Percent
-------------------------------------------------------------------
Missing numeric value     1240      31.90       1240       31.90
Valid value               2647      68.10       3887      100.00


              Salary & Wage - Other Paid Staff

                                          Cumulative   Cumulative
            SWOTH    Frequency    Percent  Frequency     Percent
-------------------------------------------------------------------
Missing numeric value     1515      38.98       1515       38.98
Valid value               2372      61.02       3887      100.00
```

Salary & Wage - Total Full Time Equivalent

SWTOT	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Missing numeric value	1169	30.07	1169	30.07
Valid value	2718	69.93	3887	100.00

Technology to Assist the Disabled

TECHYN	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 Yes	1726	44.40	1726	44.40
2 No	1396	35.91	3122	80.32
N No response	765	19.68	3887	100.00

Electronic Theses Produced by Students

THESYN	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 Yes	214	5.51	214	5.51
2 No	2892	74.40	3106	79.91
N No response	781	20.09	3887	100.00

Tribal College

TRIBAL	Frequency	Percent	Cumulative Frequency	Cumulative Percent
-3 Not available	38	0.98	38	0.98
1 Yes	29	0.75	67	1.72
2 No	3820	98.28	3887	100.00

Undergraduate Offering

UGOFFER	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 Undergraduate degree or certificate offered	3647	93.83	3647	93.83
2 No undergraduate offering	240	6.17	3887	100.00

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Public-use

Unit Id Number for the Institution

UNITID	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value	3887	100.00	3887	100.00

If Child, Parent Institution Unit Id

UNITIDX	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Blank value	3640	93.65	3640	93.65
Valid value	247	6.35	3887	100.00

Institutions Web Address

WEBADDR	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Blank value	63	1.62	63	1.62
Valid value	3824	98.38	3887	100.00

Status Flag - Attendance at Presentations

XATTEND	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	5	0.13	5	0.13
C Analyst corrected a cell that was blank	5	0.13	10	0.26
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	72	1.85	82	2.11
N Original data field was blank	319	8.21	401	10.32
P Imputation for a cell that previously was a nonresponse, using prior year data	440	11.32	841	21.64
R Original data value was reported	3046	78.36	3887	100.00

Status Flag - Branch

XBRANCHES	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	19	0.49	19	0.49
C Analyst corrected a cell that was blank	6	0.15	25	0.64
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	1	0.03	26	0.67
N Original data field was blank	56	1.44	82	2.11
P Imputation for a cell that previously was a nonresponse, using prior year data	331	8.52	413	10.63
R Original data value was reported	3135	80.65	3548	91.28
Z Implied reported zero value	339	8.72	3887	100.00

Status Flag - Consortium Cost Fully Funded by State

XCNFULLYN	Frequency	Percent	Cumulative Frequency	Cumulative Percent
C Analyst corrected a cell that was blank	3	0.08	3	0.08
N Original data field was blank	765	19.68	768	19.76
R Original data value was reported	2382	61.28	3150	81.04
S Not applicable, not imputed	737	18.96	3887	100.00

Status Flag - Library Participate in Any Other Consortia

XCNOTHRYN	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	1	0.03	1	0.03
C Analyst corrected a cell that was blank	17	0.44	18	0.46
N Original data field was blank	766	19.71	784	20.17
R Original data value was reported	3103	79.83	3887	100.00

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Public-use

Status Flag - Participate in Consortium

XCNPARTYN	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	1	0.03	1	0.03
C Analyst corrected a cell that was blank	12	0.31	13	0.33
N Original data field was blank	765	19.68	778	20.02
R Original data value was reported	2656	68.33	3434	88.35
S Not applicable, not imputed	453	11.65	3887	100.00

Status Flag - Consortium Cost Partially Funded by State

XCNPRTLYN	Frequency	Percent	Cumulative Frequency	Cumulative Percent
C Analyst corrected a cell that was blank	3	0.08	3	0.08
N Original data field was blank	766	19.71	769	19.78
R Original data value was reported	1542	39.67	2311	59.45
S Not applicable, not imputed	1576	40.55	3887	100.00

Status Flag - State have Subsidized Library Consortium

XCNSUBYN	Frequency	Percent	Cumulative Frequency	Cumulative Percent
C Analyst corrected a cell that was blank	17	0.44	17	0.44
N Original data field was blank	766	19.71	783	20.14
R Original data value was reported	3104	79.86	3887	100.00

Status Flag - Collections Audiovisual Added

XCOLAUDA	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	4	0.10	4	0.10
C Analyst corrected a cell that was blank	10	0.26	14	0.36
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	174	4.48	188	4.84
N Original data field was blank	319	8.21	507	13.04
P Imputation for a cell that previously was a nonresponse, using prior year data	394	10.14	901	23.18
R Original data value was reported	2971	76.43	3872	99.61
Z Implied reported zero value	15	0.39	3887	100.00

Status Flag - Collections Audiovisual Held

XCOLAUDH	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	7	0.18	7	0.18
C Analyst corrected a cell that was blank	14	0.36	21	0.54
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	81	2.08	102	2.62
N Original data field was blank	319	8.21	421	10.83
P Imputation for a cell that previously was a nonresponse, using prior year data	462	11.89	883	22.72
R Original data value was reported	3004	77.28	3887	100.00

Status Flag - Collections Books Added

XCOLBKSA	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	3	0.08	3	0.08
C Analyst corrected a cell that was blank	4	0.10	7	0.18
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	136	3.50	143	3.68
N Original data field was blank	319	8.21	462	11.89
P Imputation for a cell that previously was a nonresponse, using prior year data	394	10.14	856	22.02
R Original data value was reported	3031	77.98	3887	100.00

Status Flag - Collections Books Held

XCOLBKSH	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	7	0.18	7	0.18
C Analyst corrected a cell that was blank	10	0.26	17	0.44
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	81	2.08	98	2.52
N Original data field was blank	319	8.21	417	10.73
P Imputation for a cell that previously was a nonresponse, using prior year data	424	10.91	841	21.64
R Original data value was reported	3046	78.36	3887	100.00

Status Flag - Collections EBooks Added

XCOLEBKSA	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	5	0.13	5	0.13
C Analyst corrected a cell that was blank	5	0.13	10	0.26
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	788	20.27	798	20.53
N Original data field was blank	319	8.21	1117	28.74
R Original data value was reported	2669	68.66	3786	97.40
Z Implied reported zero value	101	2.60	3887	100.00

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Public-use

Status Flag - Collections E Books Held

XCOLEBKSH	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	12	0.31	12	0.31
C Analyst corrected a cell that was blank	19	0.49	31	0.80
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	1521	39.13	1552	39.93
N Original data field was blank	319	8.21	1871	48.13
R Original data value was reported	2016	51.87	3887	100.00

Status Flag - Collections Microforms Added

XCOLMICRA	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	1	0.03	1	0.03
C Analyst corrected a cell that was blank	3	0.08	4	0.10
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	239	6.15	243	6.25
N Original data field was blank	319	8.21	562	14.46
P Imputation for a cell that previously was a nonresponse, using prior year data	394	10.14	956	24.59
R Original data value was reported	2929	75.35	3885	99.95
Z Implied reported zero value	2	0.05	3887	100.00

Status Flag - Collections Microforms Held

XCOLMICRH	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	3	0.08	3	0.08
C Analyst corrected a cell that was blank	6	0.15	9	0.23
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	94	2.42	103	2.65
N Original data field was blank	319	8.21	422	10.86
P Imputation for a cell that previously was a nonresponse, using prior year data	541	13.92	963	24.77
R Original data value was reported	2924	75.23	3887	100.00

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Public-use

Status Flag - Collections Serial Added

XCOLSERA	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	22	0.57	22	0.57
C Analyst corrected a cell that was blank	8	0.21	30	0.77
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	613	15.77	643	16.54
N Original data field was blank	319	8.21	962	24.75
R Original data value was reported	2925	75.25	3887	100.00

Status Flag - Collections Serial Held

XCOLSERH	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	6	0.15	6	0.15
C Analyst corrected a cell that was blank	74	1.90	80	2.06
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	570	14.66	650	16.72
N Original data field was blank	319	8.21	969	24.93
R Original data value was reported	2918	75.07	3887	100.00

Status Flag - General Circulation Transactions

XCRGEN	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	31	0.80	31	0.80
C Analyst corrected a cell that was blank	52	1.34	83	2.14
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	128	3.29	211	5.43
N Original data field was blank	319	8.21	530	13.64
P Imputation for a cell that previously was a nonresponse, using prior year data	828	21.30	1358	34.94
R Original data value was reported	2529	65.06	3887	100.00

Status Flag - Reserve Circulation Transactions

XCRRSV	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	52	1.34	52	1.34
C Analyst corrected a cell that was blank	42	1.08	94	2.42
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	145	3.73	239	6.15
N Original data field was blank	319	8.21	558	14.36
P Imputation for a cell that previously was a nonresponse, using prior year data	828	21.30	1386	35.66
R Original data value was reported	2501	64.34	3887	100.00

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Public-use

Status Flag - Documents Delivered from Commercial Services

XDOCDEL	Frequency	Percent	Cumulative Frequency	Cumulative Percent
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	80	2.06	80	2.06
N Original data field was blank	319	8.21	399	10.26
P Imputation for a cell that previously was a nonresponse, using prior year data	564	14.51	963	24.77
R Original data value was reported	2924	75.23	3887	100.00

Status Flag - Does Documents Digitized by Library Staff

XDOCDIGYN	Frequency	Percent	Cumulative Frequency	Cumulative Percent
C Analyst corrected a cell that was blank	18	0.46	18	0.46
N Original data field was blank	767	19.73	785	20.20
R Original data value was reported	3102	79.80	3887	100.00

Status Flag - Expenditure Audio Visual

XEXAUD	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	5	0.13	5	0.13
C Analyst corrected a cell that was blank	9	0.23	14	0.36
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	87	2.24	101	2.60
N Original data field was blank	319	8.21	420	10.81
P Imputation for a cell that previously was a nonresponse, using prior year data	587	15.10	1007	25.91
R Original data value was reported	2851	73.35	3858	99.25
Z Implied reported zero value	29	0.75	3887	100.00

Status Flag - Expenditure Bibliographic

XEXBIB	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	1	0.03	1	0.03
C Analyst corrected a cell that was blank	4	0.10	5	0.13
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	73	1.88	78	2.01
N Original data field was blank	319	8.21	397	10.21
P Imputation for a cell that previously was a nonresponse, using prior year data	405	10.42	802	20.63
R Original data value was reported	3058	78.67	3860	99.31
Z Implied reported zero value	27	0.69	3887	100.00

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Public-use

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                                Status Flag - Expenditure Books


                                                                        Cumulative   Cumulative
XEXBKS                                                Frequency  Percent  Frequency    Percent
---------------------------------------------------------------------------------------------------
A Analyst adjusted a reported value                      22       0.57       22         0.57
C Analyst corrected a cell that was blank                 2       0.05       24         0.62
I Imputation for a cell that previously was a nonresponse, using a method other than prior year   70   1.80   94   2.42
N Original data field was blank                         319       8.21      413        10.63
P Imputation for a cell that previously was a nonresponse, using prior year data   402   10.34   815   20.97
R Original data value was reported                     3071      79.01     3886        99.97
Z Implied reported zero value                             1       0.03     3887       100.00



                                Status Flag - Expenditure Computer


                                                                        Cumulative   Cumulative
XEXCOMP                                               Frequency  Percent  Frequency    Percent
---------------------------------------------------------------------------------------------------
C Analyst corrected a cell that was blank                 4       0.10        4         0.10
I Imputation for a cell that previously was a nonresponse, using a method other than prior year   71   1.83   75   1.93
N Original data field was blank                         319       8.21      394        10.14
P Imputation for a cell that previously was a nonresponse, using prior year data   408   10.50   802   20.63
R Original data value was reported                     3054      78.57     3856        99.20
Z Implied reported zero value                            31       0.80     3887       100.00



                                Status Flag - Expenditure Serial Subscription


                                                                        Cumulative   Cumulative
XEXCUSER                                              Frequency  Percent  Frequency    Percent
---------------------------------------------------------------------------------------------------
A Analyst adjusted a reported value                      19       0.49       19         0.49
C Analyst corrected a cell that was blank                 4       0.10       23         0.59
I Imputation for a cell that previously was a nonresponse, using a method other than prior year   74   1.90   97   2.50
N Original data field was blank                         319       8.21      416        10.70

P Imputation for a cell that previously was a nonresponse, using prior year data   403   10.37   819   21.07
R Original data value was reported                     3068      78.93     3887       100.00
```

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Public-use

Status Flag - Expenditure Document Deliver

XEXDEL	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	2	0.05	2	0.05
C Analyst corrected a cell that was blank	2	0.05	4	0.10
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	75	1.93	79	2.03
N Original data field was blank	319	8.21	398	10.24
P Imputation for a cell that previously was a nonresponse, using prior year data	410	10.55	808	20.79
R Original data value was reported	3058	78.67	3866	99.46
Z Implied reported zero value	21	0.54	3887	100.00

Status Flag - Expenditure Electronic Books

XEXELBKS	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	7	0.18	7	0.18
C Analyst corrected a cell that was blank	4	0.10	11	0.28
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	96	2.47	107	2.75
N Original data field was blank	319	8.21	426	10.96
P Imputation for a cell that previously was a nonresponse, using prior year data	621	15.98	1047	26.94
R Original data value was reported	2835	72.94	3882	99.87
Z Implied reported zero value	5	0.13	3887	100.00

Status Flag - Expenditure Electronic Serials

XEXELSER	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	12	0.31	12	0.31
C Analyst corrected a cell that was blank	8	0.21	20	0.51
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	108	2.78	128	3.29
N Original data field was blank	319	8.21	447	11.50
P Imputation for a cell that previously was a nonresponse, using prior year data	529	13.61	976	25.11
R Original data value was reported	2910	74.86	3886	99.97
Z Implied reported zero value	1	0.03	3887	100.00

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Public-use

Status Flag - Expenditure Other

XEXOTH	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	8	0.21	8	0.21
C Analyst corrected a cell that was blank	2	0.05	10	0.26
H Data suppressed	1169	30.07	1179	30.33
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	35	0.90	1214	31.23
N Original data field was blank	319	8.21	1533	39.44
P Imputation for a cell that previously was a nonresponse, using prior year data	261	6.71	1794	46.15
R Original data value was reported	2080	53.51	3874	99.67
Z Implied reported zero value	13	0.33	3887	100.00

Status Flag - Expenditure Other Information Resources

XEXOTHIR	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	6	0.15	6	0.15
C Analyst corrected a cell that was blank	2	0.05	8	0.21
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	74	1.90	82	2.11
N Original data field was blank	319	8.21	401	10.32
P Imputation for a cell that previously was a nonresponse, using prior year data	407	10.47	808	20.79
R Original data value was reported	2983	76.74	3791	97.53
Z Implied reported zero value	96	2.47	3887	100.00

Status Flag - Expenditure Preservation

XEXPRES	Frequency	Percent	Cumulative Frequency	Cumulative Percent
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	74	1.90	74	1.90
N Original data field was blank	319	8.21	393	10.11
P Imputation for a cell that previously was a nonresponse, using prior year data	403	10.37	796	20.48
R Original data value was reported	3048	78.42	3844	98.89
Z Implied reported zero value	43	1.11	3887	100.00

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Public-use

Status Flag - Expenditure Total

XEXTOT	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	595	15.31	595	15.31
C Analyst corrected a cell that was blank	18	0.46	613	15.77
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	60	1.54	673	17.31
N Original data field was blank	319	8.21	992	25.52
P Imputation for a cell that previously was a nonresponse, using prior year data	366	9.42	1358	34.94
R Original data value was reported	2342	60.25	3700	95.19
T Total replaced with sum of detail during imputation	187	4.81	3887	100.00

Status Flag - Fringe Benefit

XFRINGE	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	1	0.03	1	0.03
C Analyst corrected a cell that was blank	3	0.08	4	0.10
H Data suppressed	2171	55.85	2175	55.96
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	50	1.29	2225	57.24
N Original data field was blank	15	0.39	2240	57.63
R Original data value was reported	710	18.27	2950	75.89
S Not applicable, not imputed	937	24.11	3887	100.00

Status Flag - Fringe Benefit Paid from Library Budget Y/N

XFRINGEYN	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	17	0.44	17	0.44
C Analyst corrected a cell that was blank	562	14.46	579	14.90
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	187	4.81	766	19.71
R Original data value was reported	3121	80.29	3887	100.00

Status Flag - Gate Count in a Typical Week

XGATECT	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	17	0.44	17	0.44
C Analyst corrected a cell that was blank	7	0.18	24	0.62
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	70	1.80	94	2.42
N Original data field was blank	319	8.21	413	10.63
P Imputation for a cell that previously was a nonresponse, using prior year data	489	12.58	902	23.21
R Original data value was reported	2985	76.79	3887	100.00

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Public-use

Status Flag - Hours Open in a Typical Week

XHOURS	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	1	0.03	1	0.03
C Analyst corrected a cell that was blank	30	0.77	31	0.80
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	66	1.70	97	2.50
N Original data field was blank	319	8.21	416	10.70
P Imputation for a cell that previously was a nonresponse, using prior year data	368	9.47	784	20.17
R Original data value was reported	3103	79.83	3887	100.00

Status Flag - Inter Library Loans Provided Non-returnable

XILPNON	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	1	0.03	1	0.03
C Analyst corrected a cell that was blank	7	0.18	8	0.21
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	75	1.93	83	2.14
N Original data field was blank	319	8.21	402	10.34
P Imputation for a cell that previously was a nonresponse, using prior year data	493	12.68	895	23.03
R Original data value was reported	2959	76.13	3854	99.15
Z Implied reported zero value	33	0.85	3887	100.00

Status Flag - Inter Library Loans Provided Returnable

XILPRET	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	1	0.03	1	0.03
C Analyst corrected a cell that was blank	7	0.18	8	0.21
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	75	1.93	83	2.14
N Original data field was blank	319	8.21	402	10.34
P Imputation for a cell that previously was a nonresponse, using prior year data	493	12.68	895	23.03
R Original data value was reported	2982	76.72	3877	99.74
Z Implied reported zero value	10	0.26	3887	100.00

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Public-use

Status Flag - Inter Library Loans Provided Total

XILPTOT	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	4	0.10	4	0.10
C Analyst corrected a cell that was blank	2	0.05	6	0.15
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	75	1.93	81	2.08
N Original data field was blank	319	8.21	400	10.29
P Imputation for a cell that previously was a nonresponse, using prior year data	431	11.09	831	21.38
R Original data value was reported	3056	78.62	3887	100.00

Status Flag - Inter Library Loans Received Non-returnable

XILRNON	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	1	0.03	1	0.03
C Analyst corrected a cell that was blank	8	0.21	9	0.23
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	74	1.90	83	2.14
N Original data field was blank	319	8.21	402	10.34
P Imputation for a cell that previously was a nonresponse, using prior year data	489	12.58	891	22.92
R Original data value was reported	2969	76.38	3860	99.31
Z Implied reported zero value	27	0.69	3887	100.00

Status Flag - Inter Library Loans Received Returnable

XILRRET	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	1	0.03	1	0.03
C Analyst corrected a cell that was blank	8	0.21	9	0.23
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	74	1.90	83	2.14
N Original data field was blank	319	8.21	402	10.34
P Imputation for a cell that previously was a nonresponse, using prior year data	489	12.58	891	22.92
R Original data value was reported	2990	76.92	3881	99.85
Z Implied reported zero value	6	0.15	3887	100.00

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Public-use

Status Flag - Inter Library Loans Received Total

XILRTOT	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	6	0.15	6	0.15
C Analyst corrected a cell that was blank	2	0.05	8	0.21
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	73	1.88	81	2.08
N Original data field was blank	319	8.21	400	10.29
P Imputation for a cell that previously was a nonresponse, using prior year data	424	10.91	824	21.20
R Original data value was reported	3063	78.80	3887	100.00

Status Flag - Library Provide Reference Service by Email

XLIBREFYN	Frequency	Percent	Cumulative Frequency	Cumulative Percent
C Analyst corrected a cell that was blank	17	0.44	17	0.44
N Original data field was blank	765	19.68	782	20.12
R Original data value was reported	3105	79.88	3887	100.00

Status Flag - Number of Presentations

XPRESEN	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	1	0.03	1	0.03
C Analyst corrected a cell that was blank	4	0.10	5	0.13
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	71	1.83	76	1.96
N Original data field was blank	319	8.21	395	10.16
P Imputation for a cell that previously was a nonresponse, using prior year data	442	11.37	837	21.53
R Original data value was reported	3050	78.47	3887	100.00

Status Flag - Reference Transactions in a Typical Week

XREFTRANS	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	3	0.08	3	0.08
C Analyst corrected a cell that was blank	5	0.13	8	0.21
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	70	1.80	78	2.01
N Original data field was blank	319	8.21	397	10.21
P Imputation for a cell that previously was a nonresponse, using prior year data	443	11.40	840	21.61
R Original data value was reported	3047	78.39	3887	100.00

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Public-use

Status Flag - Student Assistants

XSTASST	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	32	0.82	32	0.82
C Analyst corrected a cell that was blank	6	0.15	38	0.98
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	61	1.57	99	2.55
N Original data field was blank	319	8.21	418	10.75
P Imputation for a cell that previously was a nonresponse, using prior year data	357	9.18	775	19.94
R Original data value was reported	3112	80.06	3887	100.00

Status Flag - Librarians and Other Professional Staff

XSTLIBPRO	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	90	2.32	90	2.32
C Analyst corrected a cell that was blank	4	0.10	94	2.42
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	61	1.57	155	3.99
N Original data field was blank	319	8.21	474	12.19
P Imputation for a cell that previously was a nonresponse, using prior year data	353	9.08	827	21.28
R Original data value was reported	3060	78.72	3887	100.00

Status Flag - Librarians

XSTLIBS	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	30	0.77	30	0.77
C Analyst corrected a cell that was blank	5	0.13	35	0.90
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	61	1.57	96	2.47
N Original data field was blank	319	8.21	415	10.68
P Imputation for a cell that previously was a nonresponse, using prior year data	353	9.08	768	19.76
R Original data value was reported	3119	80.24	3887	100.00

Status Flag - Other Paid Staff

XSTOTH	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	10	0.26	10	0.26
C Analyst corrected a cell that was blank	6	0.15	16	0.41
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	61	1.57	77	1.98
N Original data field was blank	319	8.21	396	10.19
P Imputation for a cell that previously was a nonresponse, using prior year data	355	9.13	751	19.32
R Original data value was reported	3136	80.68	3887	100.00

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Public-use

Status Flag - Other Professional Staff

XSTOTHPRO	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	3	0.08	3	0.08
C Analyst corrected a cell that was blank	3	0.08	6	0.15
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	61	1.57	67	1.72
N Original data field was blank	319	8.21	386	9.93
P Imputation for a cell that previously was a nonresponse, using prior year data	353	9.08	739	19.01
R Original data value was reported	3148	80.99	3887	100.00

Status Flag - Total Full-Time Equivalent Staff

XSTTOT	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	258	6.64	258	6.64
C Analyst corrected a cell that was blank	7	0.18	265	6.82
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	60	1.54	325	8.36
N Original data field was blank	319	8.21	644	16.57
P Imputation for a cell that previously was a nonresponse, using prior year data	348	8.95	992	25.52
R Original data value was reported	2883	74.17	3875	99.69
T Total replaced with sum of detail during imputation	12	0.31	3887	100.00

Status Flag - Salary Student Assistant

XSWASST	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	6	0.15	6	0.15
C Analyst corrected a cell that was blank	7	0.18	13	0.33
H Data suppressed	1704	43.84	1717	44.17
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	8	0.21	1725	44.38
N Original data field was blank	319	8.21	2044	52.59
P Imputation for a cell that previously was a nonresponse, using prior year data	191	4.91	2235	57.50
R Original data value was reported	1652	42.50	3887	100.00

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Public-use

Status Flag - Salary Librarian and Other Professional Staff

XSWLIBPRO	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	7	0.18	7	0.18
C Analyst corrected a cell that was blank	8	0.21	15	0.39
H Data suppressed	1240	31.90	1255	32.29
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	10	0.26	1265	32.54
N Original data field was blank	319	8.21	1584	40.75
P Imputation for a cell that previously was a nonresponse, using prior year data	220	5.66	1804	46.41
R Original data value was reported	2083	53.59	3887	100.00

Status Flag - Other Paid Staff

XSWOTH	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	2	0.05	2	0.05
C Analyst corrected a cell that was blank	7	0.18	9	0.23
H Data suppressed	1515	38.98	1524	39.21
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	11	0.28	1535	39.49
N Original data field was blank	319	8.21	1854	47.70
P Imputation for a cell that previously was a nonresponse, using prior year data	159	4.09	2013	51.79
R Original data value was reported	1874	48.21	3887	100.00

Status Flag - Total Salary & Wage Full-Time Equivalent

XSWTOT	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	362	9.31	362	9.31
C Analyst corrected a cell that was blank	2	0.05	364	9.36
H Data suppressed	1169	30.07	1533	39.44
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	30	0.77	1563	40.21
N Original data field was blank	319	8.21	1882	48.42
P Imputation for a cell that previously was a nonresponse, using prior year data	224	5.76	2106	54.18
R Original data value was reported	1706	43.89	3812	98.07
T Total replaced with sum of detail during imputation	75	1.93	3887	100.00

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Public-use

Status Flag - Technology to Assist the Disabled

XTECHYN	Frequency	Percent	Cumulative Frequency	Cumulative Percent
C Analyst corrected a cell that was blank	16	0.41	16	0.41
N Original data field was blank	765	19.68	781	20.09
R Original data value was reported	3106	79.91	3887	100.00

Status Flag - Electronic Theses Produced by Students

XTHESYN	Frequency	Percent	Cumulative Frequency	Cumulative Percent
C Analyst corrected a cell that was blank	3	0.08	3	0.08
N Original data field was blank	781	20.09	784	20.17
R Original data value was reported	3103	79.83	3887	100.00

Postal Zip code PLUS 4

ZIP	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value	3887	100.00	3887	100.00

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Public-use

ALS:2002 Public-use file continuous variable statistics

VARIABLE	VARIABLE LABEL	N	MEAN	STD DEV	MINIMUM	MAXIMUM
ATTEND	Total Attendance at Presentations	3,887	2049.28	5468.25	0	249006.00
BRANCHES	Number of Branch and Independent Libraries	3,887	0.76	2.75	0	120.00
COLAUDA	Collections - Audiovisual - Added	3,887	928.64	10192.44	0	432563.00
COLAUDH	Collections - Audiovisual - Held	3,887	22690.75	169733.98	0	4649891.00
COLBKSA	Collections - Books - Added	3,887	6322.54	17692.08	0	302896.00
COLBKSH	Collections - Books - Held	3,887	245480.41	737423.77	0	14615391.00
COLEBKSA	Collections - E Books - Added	3,887	1228.64	5014.37	0	132465.00
COLEBKSH	Collections - E Books - Held	3,887	2654.53	11368.74	0	510421.00
COLMICRA	Collections - Microforms - Added	3,887	6288.46	21663.58	0	424418.00
COLMICRH	Collections - Microforms - Held	3,887	294244.40	859047.03	0	9185620.00
COLSERA	Collections - Serial Subscription - Added	3,887	165.26	809.48	0	16000.00
COLSERH	Collections - Serial Subscriptions - Held	3,887	2535.62	13188.81	0	536983.00
CRGEN	General Circulation Transactions	3,887	38550.84	124788.32	0	2127977.00
CRRSV	Reserve Circulation Transactions	3,887	10136.64	42184.90	0	1411052.00
DOCDEL	Documents Delivered from Commercial Services	3,887	277.97	4029.78	0	205073.00
EXAUD	Expenditure - Audio visual	3,887	9529.42	38486.15	0	1708170.00
EXBIB	Expenditure - Bibliographic Utilities	3,887	23730.99	57494.15	0	730625.00
EXBKS	Expenditure - Books	3,887	165896.54	553561.69	0	16103841.00
EXCOMP	Expenditure - Computer Hardware Software	3,887	40080.10	155370.01	0	4296707.00
EXCUSER	Expenditure - Serial Subscription	3,887	314834.62	948858.77	0	11033976.00
EXDEL	Expenditure - Document Deliver	3,887	5894.66	24669.26	0	469697.00
EXELBKS	Expenditure - Electronic Books	3,887	11523.47	62777.00	0	1882781.00
EXELSER	Expenditure - Electronic serials	3,887	76577.62	250338.79	0	3800785.00
EXOTH	Expenditure - All Other Operating Expenditure	2,718	144893.34	651875.50	0	19723710.00
EXOTHIR	Expenditure - Other Information Resources	3,887	13628.90	108268.66	0	2634275.00
EXPRES	Expenditure - Preservation	3,887	11962.67	52314.64	0	966946.00
EXTOT	Expenditure - Total	3,887	1393546.77	4104042.25	0	96453699.00
FRINGE	Fringe Benefit	1,716	171040.59	553797.84	0	13266428.00
FTEUSED	IPEDS Fall Full-Time Equivalent Enrollment - Imputation used	3,833	2927.86	4733.59	2	46503.00
GATECT	Gate Count in a Typical Week	3,887	4354.69	8316.01	0	110114.00
HOURS	Hours Open in a Typical Week	3,887	70.23	28.79	0	168.00
ILPNON	Inter Library Loans Provided Non-returnable	3,887	1270.18	5305.39	0	165714.00
ILPRET	Inter Library Loans Provided Returnable	3,887	1258.31	3647.40	0	65534.00
ILPTOT	Inter Library Loans Provided Total	3,887	2528.48	8126.69	0	214465.00
ILRNON	Inter Library Loans Received Non-returnable	3,887	1054.31	3085.49	0	57277.00
ILRRET	Inter Library Loans Received Returnable	3,887	963.61	2774.30	0	43794.00
ILRTOT	Inter Library Loans Received Total	3,887	2017.92	5380.57	0	91494.00

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Public-use

VARIABLE	VARIABLE LABEL	N	MEAN	STD DEV	MINIMUM	MAXIMUM
PRESEN	Number of Presentations	3,887	116.29	264.88	0	9431.00
PCTMIN1	Percent Black non-Hispanic 2001 Fall Enroll	3,708	13.17	18.45	0	100.00
PCTMIN2	Percent American Indian 2001 Fall Enroll	3,708	1.54	8.01	0	100.00
PCTMIN3	Percent Asian/Pacific Islander 2001 Fall Enroll	3,708	4.00	7.23	0	80.00
PCTMIN4	Percent Hispanic 2001 Fall Enroll	3,708	6.87	11.50	0	94.00
REFTRANS	Reference Transactions in a Typical Week	3,887	388.08	1705.61	0	75049.00
STASST	Student Assistants	3,887	6.51	14.32	0	193.97
STLIBPRO	Staff - Total Librarians and Other Professional Staff	3,887	8.25	20.76	0	528.00
STLIBS	Staff - Librarians	3,887	6.60	15.11	0	420.00
STOTHPRO	Staff - Other Professional Staff	3,887	1.65	8.05	0	281.00
STOTH	All Other Paid Staff	3,887	9.64	27.29	0	657.00
STTOT	Total Full Time Equivalent Staff	3,887	24.40	58.53	0	1307.00
SWASST	Salary & Wage - Student Assistant	2,183	105451.20	233494.21	0	3337206.00
SWLIBPRO	Salary & Wage - Librarian and Other Professional Staff	2,647	545927.88	1255468.00	0	31180373.00
SWOTH	Salary & Wage - Other Paid Staff	2,372	414246.85	996871.75	0	19101792.00
SWTOT	Salary & Wage - Total Full Time Equivalent	2,718	892068.01	2268663.46	0	51702053.00

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Restricted-use

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ALS_2002_R.2.A variable frequencies
The FREQ Procedure
```

Status of the Institution

ACT	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Active - Institution active and not an add	3887	100.00	3887	100.00

Institution Address

ADDR	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Blank value	84	2.16	84	2.16
Valid value	3803	97.84	3887	100.00

Total Attendance at Presentations

ATTEND	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value	3887	100.00	3887	100.00

Number of Branch and Independent Libraries

BRANCHES	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value	3887	100.00	3887	100.00

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Restricted-use

```
                                 Carnegie Classification Code

                                                                          Cumulative    Cumulative
                                         CARNEGIE      Frequency  Percent   Frequency     Percent
-----------------------------------------------------------------------------------------------------
-3 Not available                                          420     10.81        420        10.81
15 Doctoral/Research universities - Extensive             150      3.86        570        14.66
16 Doctoral/Research universities - Intensive             106      2.73        676        17.39
21 Master's Colleges and Universities I                   483     12.43       1159        29.82
22 Master's (comprehensive) Colleges and Universities II  110      2.83       1269        32.65
31 Baccalaureate Colleges - Liberal Arts                  216      5.56       1485        38.20
32 Baccalaureate Colleges - General                       304      7.82       1789        46.03
33 Baccalaureate/Associate's Colleges                      50      1.29       1839        47.31
40 Associate's Colleges                                  1433     36.87       3272        84.18
51 Theological seminaries and other specialized faith-related institutions  203   5.22   3475   89.40
52 Medical schools and medical centers                     45      1.16       3520        90.56
53 Other separate health profession schools               86      2.21       3606        92.77
54 Schools of engineering and technology                   55      1.41       3661        94.19
55 Schools of business and management                      34      0.87       3695        95.06
56 Schools of art, music, and design                       80      2.06       3775        97.12
57 Schools of law                                          21      0.54       3796        97.66
58 Teachers colleges                                        6      0.15       3802        97.81
59 Other specialized institutions                          56      1.44       3858        99.25
60 Tribal Colleges and Universities                        29      0.75       3887       100.00


                           Institution City

                                          Cumulative   Cumulative
CITY               Frequency    Percent    Frequency     Percent
----------------------------------------------------------------
Valid value            3887     100.00        3887      100.00


                    Consortium Cost Fully Funded by State

                                         Cumulative   Cumulative
CNFULLYN              Frequency  Percent   Frequency     Percent
----------------------------------------------------------------
1 Yes                     839     21.58        839       21.58
2 No                     1546     39.77       2385       61.36
N No response            1218     31.34       3603       92.69
S Skip, no participation  284      7.31       3887      100.00
```

Library Participate in any Other Consortia

CNOTHRYN	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 Yes	2099	54.00	2099	54.00
2 No	1022	26.29	3121	80.29
N No response	766	19.71	3887	100.00

Participate in Consortium

CNPARTYN	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 Yes	2385	61.36	2385	61.36
2 No	284	7.31	2669	68.66
N No response	1218	31.34	3887	100.00

Consortium Cost Partially Funded by State

CNPRTLYN	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 Yes	1179	30.33	1179	30.33
2 No	366	9.42	1545	39.75
F Full participation	839	21.58	2384	61.33
N No response	1219	31.36	3603	92.69
S Skip, no participation	284	7.31	3887	100.00

State have Subsidized Library Consortium

CNSUBYN	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 Yes	2668	68.64	2668	68.64
2 No	453	11.65	3121	80.29
N No response	766	19.71	3887	100.00

Collections - Audiovisual - Added

COLAUDA	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value	3887	100.00	3887	100.00

```
                Collections - Audiovisual - Held

                                        Cumulative   Cumulative
          COLAUDH    Frequency   Percent  Frequency     Percent
------------------------------------------------------------------
Valid value            3887      100.00      3887      100.00


                Collections - Books - Added

                                        Cumulative   Cumulative
          COLBKSA    Frequency   Percent  Frequency     Percent
------------------------------------------------------------------
Valid value            3887      100.00      3887      100.00


                Collections - Books - Held

                                        Cumulative   Cumulative
          COLBKSH    Frequency   Percent  Frequency     Percent
------------------------------------------------------------------
Valid value            3887      100.00      3887      100.00


                Collections - E Books - Added

                                        Cumulative   Cumulative
          COLEBKSA   Frequency   Percent  Frequency     Percent
------------------------------------------------------------------
Valid value            3887      100.00      3887      100.00


                Collections - E Books - Held

                                        Cumulative   Cumulative
          COLEBKSH   Frequency   Percent  Frequency     Percent
------------------------------------------------------------------
Valid value            3887      100.00      3887      100.00


                Collections - Microforms - Added

                                        Cumulative   Cumulative
          COLMICRA   Frequency   Percent  Frequency     Percent
------------------------------------------------------------------
Valid value            3887      100.00      3887      100.00
```

```
                Collections - Microforms - Held

                                          Cumulative  Cumulative
            COLMICRH    Frequency   Percent  Frequency    Percent
------------------------------------------------------------------
Valid value               3887     100.00      3887     100.00


              Collections - Serial Subscription - Added

                                          Cumulative  Cumulative
             COLSERA    Frequency   Percent  Frequency    Percent
------------------------------------------------------------------
Valid value               3887     100.00      3887     100.00


              Collections - Serial Subscriptions Held

                                          Cumulative  Cumulative
             COLSERH    Frequency   Percent  Frequency    Percent
------------------------------------------------------------------
Valid value               3887     100.00      3887     100.00


                   Control of Institution

                                          Cumulative  Cumulative
             CONTROL    Frequency   Percent  Frequency    Percent
------------------------------------------------------------------
1 Public                  1663      42.78      1663      42.78
2 Private, nonprofit      1571      40.42      3234      83.20
3 Private, for profit      653      16.80      3887     100.00


                General Circulation Transactions

                                          Cumulative  Cumulative
              CRGEN     Frequency   Percent  Frequency    Percent
------------------------------------------------------------------
Valid value               3887     100.00      3887     100.00


                Reserve Circulation Transactions

                                          Cumulative  Cumulative
              CRRSV     Frequency   Percent  Frequency    Percent
------------------------------------------------------------------
Valid value               3887     100.00      3887     100.00
```

Current Year Parent/Child Indicator

CYPARCH	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 Parent	77	1.98	77	1.98
2 Child	170	4.37	247	6.35
N No response	3640	93.65	3887	100.00

Data Source Code - Media Source Used for Returning Data

DATSRC	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 Internet/Web	3847	98.97	3847	98.97
N Not returned	40	1.03	3887	100.00

Degree Granting Status

DEGGRANT	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 Yes	3887	100.00	3887	100.00

Documents Delivered from Commercial Services

DOCDEL	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value	3887	100.00	3887	100.00

Does Documents Digitized by Library Staff

DOCDIGYN	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 Yes	893	22.97	893	22.97
2 No	2227	57.29	3120	80.27
N No response	767	19.73	3887	100.00

Dunn and Bradstreet Id Number

DUNS	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Blank value	145	3.73	145	3.73
Valid value	3742	96.27	3887	100.00

Most Recent Edit Date

EDITDATE	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Blank value	727	18.70	727	18.70
Valid value	3160	81.30	3887	100.00

Release Status Give to NCES

EDITST	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0 Not edited	727	18.70	727	18.70
1 Record edited with no edit or critical flags	287	7.38	1014	26.09
2 Record edited with critical edit flags, analyst accept	2873	73.91	3887	100.00

Employer Id Number

EIN	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Blank value	77	1.98	77	1.98
-1 Not reported	305	7.85	382	9.83
-2 Not applicable	6	0.15	388	9.98
Valid value	3499	90.02	3887	100.00

Institution has an Eligible Collection

ELGCOLL	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 Yes	3246	83.51	3246	83.51
2 No	53	1.36	3299	84.87
N No response	588	15.13	3887	100.00

Institution has physical Library Facility

ELGPHYS	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 Yes	3215	82.71	3215	82.71
2 No	84	2.16	3299	84.87
N No response	588	15.13	3887	100.00

Institution has an Established Schedule

ELGSCHED	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 Yes	3195	82.20	3195	82.20
2 No	104	2.68	3299	84.87
N No response	588	15.13	3887	100.00

Institution has Eligible Staff

ELGSTAFF	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 Yes	3187	81.99	3187	81.99
2 No	112	2.88	3299	84.87
N No response	588	15.13	3887	100.00

Expenditure - Audio visual

	EXAUD	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value		3887	100.00	3887	100.00

Expenditure - Bibliographic Utilities

	EXBIB	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value		3887	100.00	3887	100.00

```
                    Expenditure - Books

                                           Cumulative   Cumulative
             EXBKS     Frequency   Percent   Frequency     Percent
-------------------------------------------------------------------
Valid value               3887    100.00        3887      100.00


              Expenditure - Computer Hardware Software

                                           Cumulative   Cumulative
             EXCOMP    Frequency   Percent   Frequency     Percent
-------------------------------------------------------------------
Valid value               3887    100.00        3887      100.00


                 Expenditure - Serial Subscription

                                           Cumulative   Cumulative
             EXCUSER   Frequency   Percent   Frequency     Percent
-------------------------------------------------------------------
Valid value               3887    100.00        3887      100.00


                  Expenditure - Document Deliver

                                           Cumulative   Cumulative
             EXDEL     Frequency   Percent   Frequency     Percent
-------------------------------------------------------------------
Valid value               3887    100.00        3887      100.00



Expenditure - Electronic Books

                                           Cumulative   Cumulative
             EXELBKS   Frequency   Percent   Frequency     Percent
-------------------------------------------------------------------
Valid value               3887    100.00        3887      100.00


                  Expenditure - Electronic serials

                                           Cumulative   Cumulative
             EXELSER   Frequency   Percent   Frequency     Percent
-------------------------------------------------------------------
Valid value               3887    100.00        3887      100.00
```

```
          Expenditure - All Other Operating Expenditure


                                              Cumulative   Cumulative
            EXOTH     Frequency     Percent    Frequency      Percent
-----------------------------------------------------------------------
Valid value              3887      100.00         3887       100.00



          Expenditure - Other Information Resources


                                              Cumulative   Cumulative
            EXOTHIR   Frequency     Percent    Frequency      Percent
-----------------------------------------------------------------------
Valid value              3887      100.00         3887       100.00



          Expenditure - Preservation


                                              Cumulative   Cumulative
            EXPRES    Frequency     Percent    Frequency      Percent
-----------------------------------------------------------------------
Valid value              3887      100.00         3887       100.00



          Expenditure - Total


                                              Cumulative   Cumulative
            EXTOT     Frequency     Percent    Frequency      Percent
-----------------------------------------------------------------------
Valid value              3887      100.00         3887       100.00



          Provide Financial Support to Another Library

                                        Cumulative   Cumulative
FINSUPP       Frequency     Percent      Frequency      Percent
-------------------------------------------------------------------
2 No               3887      100.00         3887       100.00
```

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Restricted-use

```
FIPS state code
```

FIPS	Frequency	Percent	Cumulative Frequency	Cumulative Percent
01 Alabama	75	1.93	75	1.93
02 Alaska	6	0.15	81	2.08
04 Arizona	63	1.62	144	3.70
05 Arkansas	46	1.18	190	4.89
06 California	379	9.75	569	14.64
08 Colorado	70	1.80	639	16.44
09 Connecticut	45	1.16	684	17.60
10 Delaware	10	0.26	694	17.85
11 District of Columbia	16	0.41	710	18.27
12 Florida	150	3.86	860	22.13
13 Georgia	122	3.14	982	25.26
15 Hawaii	20	0.51	1002	25.78
16 Idaho	13	0.33	1015	26.11
17 Illinois	168	4.32	1183	30.43
18 Indiana	88	2.26	1271	32.70
19 Iowa	62	1.60	1333	34.29
20 Kansas	60	1.54	1393	35.84
21 Kentucky	74	1.90	1467	37.74
22 Louisiana	46	1.18	1513	38.92
23 Maine	32	0.82	1545	39.75
24 Maryland	63	1.62	1608	41.37
25 Massachusetts	114	2.93	1722	44.30
26 Michigan	104	2.68	1826	46.98
27 Minnesota	111	2.86	1937	49.83
28 Mississippi	40	1.03	1977	50.86
29 Missouri	109	2.80	2086	53.67
30 Montana	23	0.59	2109	54.26
31 Nebraska	38	0.98	2147	55.24
32 Nevada	13	0.33	2160	55.57
33 New Hampshire	25	0.64	2185	56.21
34 New Jersey	53	1.36	2238	57.58
35 New Mexico	42	1.08	2280	58.66
36 New York	264	6.79	2544	65.45
37 North Carolina	120	3.09	2664	68.54
38 North Dakota	20	0.51	2684	69.05
39 Ohio	160	4.12	2844	73.17
40 Oklahoma	52	1.34	2896	74.50
41 Oregon	56	1.44	2952	75.95
42 Pennsylvania	234	6.02	3186	81.97
44 Rhode Island	13	0.33	3199	82.30
45 South Carolina	62	1.60	3261	83.90
46 South Dakota	26	0.67	3287	84.56
47 Tennessee	86	2.21	3373	86.78
48 Texas	188	4.84	3561	91.61
49 Utah	24	0.62	3585	92.23

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Restricted-use

FIPS state code—Continued

FIPS	Frequency	Percent	Cumulative Frequency	Cumulative Percent
50 Vermont	27	0.69	3612	92.93
51 Virginia	95	2.44	3707	95.37
53 Washington	76	1.96	3783	97.32
54 West Virginia	31	0.80	3814	98.12
55 Wisconsin	64	1.65	3878	99.77
56 Wyoming	9	0.23	3887	100.00

First Professional Offering

FPOFFER	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 First professional degree or first professional certificate (Post-degree)	515	13.25	515	13.25
2 No first professional offering	3372	86.75	3887	100.00

Fringe Benefit

FRINGE	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value	3887	100.00	3887	100.00

Are Fringe Benefit paid from Library Budget

FRINGEYN	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 Yes	1730	44.51	1730	44.51
2 No	2157	55.49	3887	100.00

IPEDS Fall Full-Time Equivalent Enrollment - Imputation used

FTEUSED	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Missing numeric value	54	1.39	54	1.39
Valid value	3833	98.61	3887	100.00

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Restricted-use

Full-Time Equivalent Estimated or Not

FTEFLAG	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0 Not estimated	3837	98.71	3837	98.71
1 Estimated	50	1.29	3887	100.00

Gate Count in a Typical Week

GATECT	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value	3887	100.00	3887	100.00

Graduate Offering

GROFFER	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 Graduate degree or certificate offered	1645	42.32	1645	42.32
2 No graduate offering	2242	57.68	3887	100.00

Historically Black College/University

HBCU	Frequency	Percent	Cumulative Frequency	Cumulative Percent
-3 Not available	38	0.98	38	0.98
1 Yes	101	2.60	139	3.58
2 No	3748	96.42	3887	100.00

Highest Degree Offered

HDEGOFFR	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 First professional degrees only	35	0.90	35	0.90
10 Doctoral	281	7.23	316	8.13
11 Doctoral and First professional	350	9.00	666	17.13
20 Master's	868	22.33	1534	39.46
21 Master's and First professional	114	2.93	1648	42.40
30 Bachelors	692	17.80	2340	60.20
31 Bachelors and First professional	15	0.39	2355	60.59
40 Associates	1532	39.41	3887	100.00

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Restricted-use

Highest Level of Education Offering

HLOFFER	Frequency	Percent	Cumulative Frequency	Cumulative Percent
-2 Not applicable, first professional only	33	0.85	33	0.85
1 Postsecondary award, certificate or diploma of less than one academic year	1	0.03	34	0.87
3 Associate degree	1140	29.33	1174	30.20
4 Postsecondary award, certificate or diploma of at least two but less than four academic years	391	10.06	1565	40.26
5 Bachelor's degree	677	17.42	2242	57.68
6 Post baccalaureate certificate	32	0.82	2274	58.50
7 Master's degree	775	19.94	3049	78.44
8 Post master's certificate	207	5.33	3256	83.77
9 Doctoral degree	631	16.23	3887	100.00

Institution has Hospital

HOSPITAL	Frequency	Percent	Cumulative Frequency	Cumulative Percent
-3 Not available	38	0.98	38	0.98
1 Yes	88	2.26	126	3.24
2 No	3761	96.76	3887	100.00

Hours Open in a Typical Week

HOURS	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value	3887	100.00	3887	100.00

Level of Institution

ICLEVEL	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 Four or more years (Baccalaureate or higher degree)	2356	60.61	2356	60.61
2 At least 2 but less than 4 years (below the Baccalaureate)	1531	39.39	3887	100.00

Inter Library Loans Provided Non-returnable

ILPNON	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value	3887	100.00	3887	100.00

Inter Library Loans Provided Returnable

ILPRET	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value	3887	100.00	3887	100.00

Inter Library Loans Provided Total

ILPTOT	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value	3887	100.00	3887	100.00

Inter Library Loans Received Non-returnable

ILRNON	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value	3887	100.00	3887	100.00

Inter Library Loans Received Returnable

ILRRET	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value	3887	100.00	3887	100.00

Inter Library Loans Received Total

ILRTOT	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value	3887	100.00	3887	100.00

Most Recent Impute Date

IMPDATE	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Blank value	974	25.06	974	25.06
Valid value	2913	74.94	3887	100.00

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Restricted-use

Impute Indicator

IMPUTE	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0 Not imputed	974	25.06	974	25.06
1 At least one part is imputed	2913	74.94	3887	100.00

Institution Name

INSTNM	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value	3887	100.00	3887	100.00

Name of 1st Institution Library is Shared With

LIBNAME1	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Blank value	3887	100.00	3887	100.00

Name of 2nd Institution Library is Shared With

LIBNAME2	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Blank value	3887	100.00	3887	100.00

Name of 3rd Institution Library is Shared With

LIBNAME3	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Blank value	3887	100.00	3887	100.00

Does Library Provide Reference Service by Email or Web

LIBREFYN	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 Yes	2424	62.36	2424	62.36
2 No	698	17.96	3122	80.32
N No response	765	19.68	3887	100.00

Shared Library, 1st Unit Id

LIBSHAR1	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Blank value	3887	100.00	3887	100.00

Shared Library, 2nd Unit Id

LIBSHAR2	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Blank value	3887	100.00	3887	100.00

Shared Library, 3rd Unit Id

LIBSHAR3	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Blank value	3887	100.00	3887	100.00

Locale Code - Degree of Urbanization

LOCALE	Frequency	Percent	Cumulative Frequency	Cumulative Percent
-3 Not available	112	2.88	112	2.88
1 Large city	870	22.38	982	25.26
2 Mid-size city	991	25.50	1973	50.76
3 Urban fringe of large city	728	18.73	2701	69.49
4 Urban fringe of mid-size city	244	6.28	2945	75.77
5 Large town	131	3.37	3076	79.14
6 Small town	598	15.38	3674	94.52
7 Rural	204	5.25	3878	99.77
9 Not assigned	9	0.23	3887	100.00

Institution Grants Medical Degree

MEDICAL	Frequency	Percent	Cumulative Frequency	Cumulative Percent
-3 Not available	133	3.42	133	3.42
1 Yes	159	4.09	292	7.51
2 No	3595	92.49	3887	100.00

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Restricted-use

Date Imputations Run by ESMPD

NCESDATE	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Blank value	974	25.06	974	25.06
Valid value	2913	74.94	3887	100.00

OBE Region Code

OBEREG	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0 US Service Schools	5	0.13	5	0.13
1 New England - CT ME MA NH RI VT	255	6.56	260	6.69
2 Mid East - DE DC MD NJ NY PA	637	16.39	897	23.08
3 Great Lakes - IL IN MI OH WI	584	15.02	1481	38.10
4 Plains - IA KS MN MO NE ND SD	426	10.96	1907	49.06
5 Southeast - AL AR FL GA KY LA MS NC SC TN VA WV	947	24.36	2854	73.42
6 Southwest - AZ NM OK TX	345	8.88	3199	82.30
7 Rocky Mountains - CO ID MT UT WY	138	3.55	3337	85.85
8 Far West - AK CA HI NV OR WA	550	14.15	3887	100.00

OPE Eligibility Indicator

OPEFLAG	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 Institution participates in Title IV federal financial aid programs	3871	99.59	3871	99.59
2 Branch campus of a main campus that participates in Title IV	12	0.31	3883	99.90
3 Deferment only - limited participation	3	0.08	3886	99.97
5 Not currently participating in Title IV, has an OPE ID number	1	0.03	3887	100.00

Office of Post Sec Education Id Num for Title IV Participant

OPEID	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value	3887	100.00	3887	100.00

Institution Open to the General Public

OPENPUBL	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 Yes	3887	100.00	3887	100.00

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Restricted-use

Imp Flag for Line Item 1

PARTAFLAG1	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0 Nothing imputed for this part/total respondent for this part	3556	91.48	3556	91.48
1 Total non-respondent for this part	331	8.52	3887	100.00

Imp Flag for Line Items 2-7

PARTBFLAG1	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0 Nothing imputed for this part/total respondent for this part	3342	85.98	3342	85.98
1 Total non-respondent for this part	408	10.50	3750	96.48
2 Partial non-respondent for this part	137	3.52	3887	100.00

Imp Flag for Line Items 8a,8b

PARTBFLAG2	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0 Nothing imputed for this part/total respondent for this part	3700	95.19	3700	95.19
1 Total non-respondent for this part	187	4.81	3887	100.00

Imp Flag for Line Items 10,13,15-21

PARTCFLAG1	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0 Nothing imputed for this part/total respondent for this part	3277	84.31	3277	84.31
1 Total non-respondent for this part	423	10.88	3700	95.19
2 Partial non-respondent for this part	187	4.81	3887	100.00

Imp Flag for Line Items 11,12,14

PARTCFLAG2	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0 Nothing imputed for this part/total respondent for this part	2937	75.56	2937	75.56
1 Total non-respondent for this part	483	12.43	3420	87.99
2 Partial non-respondent for this part	467	12.01	3887	100.00

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Restricted-use

Imp Flag for Line Items 22,24-26

PARTDFLAG1	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0 Nothing imputed for this part/total respondent for this part	2996	77.08	2996	77.08
1 Total non-respondent for this part	462	11.89	3458	88.96
2 Partial non-respondent for this part	429	11.04	3887	100.00

Imp Flag for Line Item 23

PARTDFLAG2	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0 Nothing imputed for this part/total respondent for this part	2321	59.71	2321	59.71
1 Total non-respondent for this part	744	19.14	3065	78.85
2 Partial non-respondent for this part	822	21.15	3887	100.00

Imp Flag for Line Items 27-33

PARTEFLAG1	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0 Nothing imputed for this part/total respondent for this part	3182	81.86	3182	81.86
1 Total non-respondent for this part	481	12.37	3663	94.24
2 Partial non-respondent for this part	224	5.76	3887	100.00

Imp Flag for Line Items 34a,34b

PARTEFLAG2	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0 Nothing imputed for this part/total respondent for this part	2914	74.97	2914	74.97
1 Total non-respondent for this part	442	11.37	3356	86.34
2 Partial non-respondent for this part	531	13.66	3887	100.00

Imp Flag for Line Items 35,36

PARTEFLAG3	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0 Nothing imputed for this part/total respondent for this part	3372	86.75	3372	86.75
1 Total non-respondent for this part	510	13.12	3882	99.87
2 Partial non-respondent for this part	5	0.13	3887	100.00

Imp Flag for Line Items 37-39

PARTFFLAG1	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0 Nothing imputed for this part/total respondent for this part	3306	85.05	3306	85.05
1 Total non-respondent for this part	434	11.17	3740	96.22
2 Partial non-respondent for this part	147	3.78	3887	100.00

Percent Black non-Hispanic 2001 Fall Enroll

PCTMIN1	Frequency	Percent	Cumulative Frequency	Cumulative Percent
-3 Not available	82	2.11	82	2.11
-1 Not reported	97	2.50	179	4.61
Valid value	3708	95.39	3887	100.00

Percent American Indian 2001 Fall Enroll

PCTMIN2	Frequency	Percent	Cumulative Frequency	Cumulative Percent
-3 Not available	82	2.11	82	2.11
-1 Not reported	97	2.50	179	4.61
Valid value	3708	95.39	3887	100.00

Percent Asian/Pacific Islander 2001 Fall Enroll

PCTMIN3	Frequency	Percent	Cumulative Frequency	Cumulative Percent
-3 Not available	82	2.11	82	2.11
-1 Not reported	97	2.50	179	4.61
Valid value	3708	95.39	3887	100.00

Percent Hispanic 2001 Fall Enroll

PCTMIN4	Frequency	Percent	Cumulative Frequency	Cumulative Percent
-3 Not available	82	2.11	82	2.11
-1 Not reported	97	2.50	179	4.61
Valid value	3708	95.39	3887	100.00

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Restricted-use

```
                  Number of Presentations

                                     Cumulative   Cumulative
           PRESEN    Frequency   Percent   Frequency    Percent
------------------------------------------------------------------
Valid value              3887    100.00        3887     100.00


             Reference Transactions in a Typical Week

                                     Cumulative   Cumulative
           REFTRANS   Frequency   Percent   Frequency    Percent
------------------------------------------------------------------
Valid value              3887    100.00        3887     100.00


                     Sector of Institution

                                              Cumulative   Cumulative
                   SECTOR   Frequency   Percent   Frequency    Percent
-------------------------------------------------------------------------------
1 Public, 4-year or above              630    16.21        630      16.21
2 Private nonprofit, 4-year and above 1452    37.36       2082      53.56
3 Private for profit, 4-year and above 274     7.05       2356      60.61
4 Public, 2-year                      1033    26.58       3389      87.19
5 Private nonprofit, 2-year            119     3.06       3508      90.25
6 Private for profit, 2-year           379     9.75       3887     100.00
```

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Restricted-use

State Abbreviation Code

STABBR	Frequency	Percent	Cumulative Frequency	Cumulative Percent
AK Alaska	6	0.15	6	0.15
AL Alabama	75	1.93	81	2.08
AR Arkansas	46	1.18	127	3.27
AZ Arizona	63	1.62	190	4.89
CA California	379	9.75	569	14.64
CO Colorado	70	1.80	639	16.44
CT Connecticut	45	1.16	684	17.60
DC District of Columbia	16	0.41	700	18.01
DE Delaware	10	0.26	710	18.27
FL Florida	150	3.86	860	22.13
GA Georgia	122	3.14	982	25.26
HI Hawaii	20	0.51	1002	25.78
IA Iowa	62	1.60	1064	27.37
ID Idaho	13	0.33	1077	27.71
IL Illinois	168	4.32	1245	32.03
IN Indiana	88	2.26	1333	34.29
KS Kansas	60	1.54	1393	35.84
KY Kentucky	74	1.90	1467	37.74
LA Louisiana	46	1.18	1513	38.92
MA Massachusetts	114	2.93	1627	41.86
MD Maryland	63	1.62	1690	43.48
ME Maine	32	0.82	1722	44.30
MI Michigan	104	2.68	1826	46.98
MN Minnesota	111	2.86	1937	49.83
MO Missouri	109	2.80	2046	52.64
MS Mississippi	40	1.03	2086	53.67
MT Montana	23	0.59	2109	54.26
NC North Carolina	120	3.09	2229	57.34
ND North Dakota	20	0.51	2249	57.86
NE Nebraska	38	0.98	2287	58.84
NH New Hampshire	25	0.64	2312	59.48
NJ New Jersey	53	1.36	2365	60.84
NM New Mexico	42	1.08	2407	61.92
NV Nevada	13	0.33	2420	62.26
NY New York	264	6.79	2684	69.05
OH Ohio	160	4.12	2844	73.17
OK Oklahoma	52	1.34	2896	74.50
OR Oregon	56	1.44	2952	75.95
PA Pennsylvania	234	6.02	3186	81.97
RI Rhode Island	13	0.33	3199	82.30
SC South Carolina	62	1.60	3261	83.90
SD South Dakota	26	0.67	3287	84.56
TN Tennessee	86	2.21	3373	86.78
TX Texas	188	4.84	3561	91.61
UT Utah	24	0.62	3585	92.23

State Abbreviation Code—Continued

STABBR	Frequency	Percent	Cumulative Frequency	Cumulative Percent
VA Virginia	95	2.44	3680	94.67
VT Vermont	27	0.69	3707	95.37
WA Washington	76	1.96	3783	97.32
WI Wisconsin	64	1.65	3847	98.97
WV West Virginia	31	0.80	3878	99.77
WY Wyoming	9	0.23	3887	100.00

Student Assistants

STASST	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value	3887	100.00	3887	100.00

Response Status Code

STATUS	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 Respondent	3313	85.23	3313	85.23
3 Nonrespondent to data and screening questions, not imputed	8	0.21	3321	85.44
4 Nonrespondent, imputed	425	10.93	3746	96.37
5 Nonrespondent to data (screening questions reported, out-of-scope), not imputed	141	3.63	3887	100.00

Staff - Total Librarians and Other Professional Staff

STLIBPRO	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value	3887	100.00	3887	100.00

Staff - Librarians

STLIBS	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value	3887	100.00	3887	100.00

All Other Paid Staff

STOTH	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value	3887	100.00	3887	100.00

Staff - Other Professional Staff

STOTHPRO	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value	3887	100.00	3887	100.00

Total Full Time Equivalent Staff

STTOT	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value	3887	100.00	3887	100.00

Salary & Wage - Student Assistant

SWASST	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value	3887	100.00	3887	100.00

Salary & Wage - Librarian and Other Professional Staff

SWLIBPRO	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value	3887	100.00	3887	100.00

Salary & Wage - Other Paid Staff

SWOTH	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value	3887	100.00	3887	100.00

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Restricted-use

Salary & Wage - Total Full Time Equivalent

SWTOT	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value	3887	100.00	3887	100.00

Technology to Assist the Disabled

TECHYN	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 Yes	1726	44.40	1726	44.40
2 No	1396	35.91	3122	80.32
N No response	765	19.68	3887	100.00

Electronic Theses Produced by Students

THESYN	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 Yes	214	5.51	214	5.51
2 No	2892	74.40	3106	79.91
N No response	781	20.09	3887	100.00

Tribal College

TRIBAL	Frequency	Percent	Cumulative Frequency	Cumulative Percent
-3 Not available	38	0.98	38	0.98
1 Yes	29	0.75	67	1.72
2 No	3820	98.28	3887	100.00

Undergraduate Offering

UGOFFER	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 Undergraduate degree or certificate offered	3647	93.83	3647	93.83
2 No undergraduate offering	240	6.17	3887	100.00

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Restricted-use

Unit Id Number for the Institution

```
                                    Cumulative    Cumulative
UNITID            Frequency    Percent    Frequency       Percent
-------------------------------------------------------------------
Valid value            3887     100.00         3887        100.00
```

If Child, Parent Institution Unit Id

```
                                    Cumulative    Cumulative
UNITIDX           Frequency    Percent    Frequency       Percent
-------------------------------------------------------------------
Blank value            3640      93.65         3640         93.65
Valid value             247       6.35         3887        100.00
```

Institutions Web Address

```
                                    Cumulative    Cumulative
WEBADDR           Frequency    Percent    Frequency       Percent
-------------------------------------------------------------------
Blank value              63       1.62           63          1.62
Valid value            3824      98.38         3887        100.00
```

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Restricted-use

Status Flag - Attendance at Presentations

XATTEND	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	5	0.13	5	0.13
C Analyst corrected a cell that was blank	5	0.13	10	0.26
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	72	1.85	82	2.11
N Original data field was blank	319	8.21	401	10.32
P Imputation for a cell that previously was a nonresponse, using prior year data	440	11.32	841	21.64
R Original data value was reported	3046	78.36	3887	100.00

Status Flag - Branch

XBRANCHES	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	19	0.49	19	0.49
C Analyst corrected a cell that was blank	6	0.15	25	0.64
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	1	0.03	26	0.67
N Original data field was blank	56	1.44	82	2.11
P Imputation for a cell that previously was a nonresponse, using prior year data	331	8.52	413	10.63
R Original data value was reported	3135	80.65	3548	91.28
Z Implied reported zero value	339	8.72	3887	100.00

Status Flag - Consortium Cost Fully Funded by State

XCNFULLYN	Frequency	Percent	Cumulative Frequency	Cumulative Percent
C Analyst corrected a cell that was blank	3	0.08	3	0.08
N Original data field was blank	765	19.68	768	19.76
R Original data value was reported	2382	61.28	3150	81.04
S Not applicable, not imputed	737	18.96	3887	100.00

Status Flag - Library Participate in Any Other Consortia

XCNOTHRYN	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	1	0.03	1	0.03
C Analyst corrected a cell that was blank	17	0.44	18	0.46
N Original data field was blank	766	19.71	784	20.17
R Original data value was reported	3103	79.83	3887	100.00

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Restricted-use

```
                              Status Flag - Participate in Consortium

                                                                    Cumulative   Cumulative
XCNPARTYN                                          Frequency   Percent   Frequency    Percent
-------------------------------------------------------------------------------------------------
A Analyst adjusted a reported value                     1       0.03          1        0.03
C Analyst corrected a cell that was blank              12       0.31         13        0.33
N Original data field was blank                       765      19.68        778       20.02
R Original data value was reported                   2656      68.33       3434       88.35
S Not applicable, not imputed                         453      11.65       3887      100.00


                        Status Flag - Consortium Cost Partially Funded by State

                                                                    Cumulative   Cumulative
XCNPRTLYN                                          Frequency   Percent   Frequency    Percent
-------------------------------------------------------------------------------------------------
C Analyst corrected a cell that was blank               3       0.08          3        0.08
N Original data field was blank                       766      19.71        769       19.78
R Original data value was reported                   1542      39.67       2311       59.45
S Not applicable, not imputed                        1576      40.55       3887      100.00


                       Status Flag - State have Subsidized Library Consortium

                                                                    Cumulative   Cumulative
XCNSUBYN                                           Frequency   Percent   Frequency    Percent
-------------------------------------------------------------------------------------------------
C Analyst corrected a cell that was blank              17       0.44         17        0.44
N Original data field was blank                       766      19.71        783       20.14
R Original data value was reported                   3104      79.86       3887      100.00


                           Status Flag - Collections Audiovisual Added

                                                                    Cumulative   Cumulative
XCOLAUDA                                           Frequency   Percent   Frequency    Percent
-------------------------------------------------------------------------------------------------
A Analyst adjusted a reported value                     4       0.10          4        0.10
C Analyst corrected a cell that was blank              10       0.26         14        0.36
I Imputation for a cell that previously was a nonresponse, using a method other than prior year    174       4.48        188        4.84
N Original data field was blank                       319       8.21        507       13.04
P Imputation for a cell that previously was a nonresponse, using prior year data    394      10.14        901       23.18
R Original data value was reported                   2971      76.43       3872       99.61
Z Implied reported zero value                          15       0.39       3887      100.00
```

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Restricted-use

Status Flag - Collections Audiovisual Held

XCOLAUDH	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	7	0.18	7	0.18
C Analyst corrected a cell that was blank	14	0.36	21	0.54
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	81	2.08	102	2.62
N Original data field was blank	319	8.21	421	10.83
P Imputation for a cell that previously was a nonresponse, using prior year data	462	11.89	883	22.72
R Original data value was reported	3004	77.28	3887	100.00

Status Flag - Collections Books Added

XCOLBKSA	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	3	0.08	3	0.08
C Analyst corrected a cell that was blank	4	0.10	7	0.18
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	136	3.50	143	3.68
N Original data field was blank	319	8.21	462	11.89
P Imputation for a cell that previously was a nonresponse, using prior year data	394	10.14	856	22.02
R Original data value was reported	3031	77.98	3887	100.00

Status Flag - Collections Books Held

XCOLBKSH	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	7	0.18	7	0.18
C Analyst corrected a cell that was blank	10	0.26	17	0.44
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	81	2.08	98	2.52
N Original data field was blank	319	8.21	417	10.73
P Imputation for a cell that previously was a nonresponse, using prior year data	424	10.91	841	21.64
R Original data value was reported	3046	78.36	3887	100.00

Status Flag - Collections EBooks Added

XCOLEBKSA	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	5	0.13	5	0.13
C Analyst corrected a cell that was blank	5	0.13	10	0.26
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	788	20.27	798	20.53
N Original data field was blank	319	8.21	1117	28.74
R Original data value was reported	2669	68.66	3786	97.40
Z Implied reported zero value	101	2.60	3887	100.00

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Restricted-use

Status Flag - Collections E Books Held

XCOLEBKSH	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	12	0.31	12	0.31
C Analyst corrected a cell that was blank	19	0.49	31	0.80
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	1521	39.13	1552	39.93
N Original data field was blank	319	8.21	1871	48.13
R Original data value was reported	2016	51.87	3887	100.00

Status Flag - Collections Microforms Added

XCOLMICRA	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	1	0.03	1	0.03
C Analyst corrected a cell that was blank	3	0.08	4	0.10
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	239	6.15	243	6.25
N Original data field was blank	319	8.21	562	14.46
P Imputation for a cell that previously was a nonresponse, using prior year data	394	10.14	956	24.59
R Original data value was reported	2929	75.35	3885	99.95
Z Implied reported zero value	2	0.05	3887	100.00

Status Flag - Collections Microforms Held

XCOLMICRH	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	3	0.08	3	0.08
C Analyst corrected a cell that was blank	6	0.15	9	0.23
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	94	2.42	103	2.65
N Original data field was blank	319	8.21	422	10.86
P Imputation for a cell that previously was a nonresponse, using prior year data	541	13.92	963	24.77
R Original data value was reported	2924	75.23	3887	100.00

Status Flag - Collections Serial Added

XCOLSERA	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	22	0.57	22	0.57
C Analyst corrected a cell that was blank	8	0.21	30	0.77
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	613	15.77	643	16.54
N Original data field was blank	319	8.21	962	24.75
R Original data value was reported	2925	75.25	3887	100.00

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Restricted-use

Status Flag - Collections Serial Held

XCOLSERH	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	6	0.15	6	0.15
C Analyst corrected a cell that was blank	74	1.90	80	2.06
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	570	14.66	650	16.72
N Original data field was blank	319	8.21	969	24.93
R Original data value was reported	2918	75.07	3887	100.00

Status Flag - General Circulation Transactions

XCRGEN	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	31	0.80	31	0.80
C Analyst corrected a cell that was blank	52	1.34	83	2.14
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	128	3.29	211	5.43
N Original data field was blank	319	8.21	530	13.64
P Imputation for a cell that previously was a nonresponse, using prior year data	828	21.30	1358	34.94
R Original data value was reported	2529	65.06	3887	100.00

Status Flag - Reserve Circulation Transactions

XCRRSV	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	52	1.34	52	1.34
C Analyst corrected a cell that was blank	42	1.08	94	2.42
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	145	3.73	239	6.15
N Original data field was blank	319	8.21	558	14.36
P Imputation for a cell that previously was a nonresponse, using prior year data	828	21.30	1386	35.66
R Original data value was reported	2501	64.34	3887	100.00

Status Flag - Documents Delivered from Commercial Services

XDOCDEL	Frequency	Percent	Cumulative Frequency	Cumulative Percent
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	80	2.06	80	2.06
N Original data field was blank	319	8.21	399	10.26
P Imputation for a cell that previously was a nonresponse, using prior year data	564	14.51	963	24.77
R Original data value was reported	2924	75.23	3887	100.00

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Restricted-use

Status Flag - Does Documents Digitized by Library Staff

XDOCDIGYN	Frequency	Percent	Cumulative Frequency	Cumulative Percent
C Analyst corrected a cell that was blank	18	0.46	18	0.46
N Original data field was blank	767	19.73	785	20.20
R Original data value was reported	3102	79.80	3887	100.00

Status Flag - Expenditure Audio Visual

XEXAUD	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	5	0.13	5	0.13
C Analyst corrected a cell that was blank	9	0.23	14	0.36
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	87	2.24	101	2.60
N Original data field was blank	319	8.21	420	10.81
P Imputation for a cell that previously was a nonresponse, using prior year data	587	15.10	1007	25.91
R Original data value was reported	2851	73.35	3858	99.25
Z Implied reported zero value	29	0.75	3887	100.00

Status Flag - Expenditure Bibliographic

XEXBIB	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	1	0.03	1	0.03
C Analyst corrected a cell that was blank	4	0.10	5	0.13
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	73	1.88	78	2.01
N Original data field was blank	319	8.21	397	10.21
P Imputation for a cell that previously was a nonresponse, using prior year data	405	10.42	802	20.63
R Original data value was reported	3058	78.67	3860	99.31
Z Implied reported zero value	27	0.69	3887	100.00

Status Flag - Expenditure Books

XEXBKS	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	22	0.57	22	0.57
C Analyst corrected a cell that was blank	2	0.05	24	0.62
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	70	1.80	94	2.42
N Original data field was blank	319	8.21	413	10.63
P Imputation for a cell that previously was a nonresponse, using prior year data	402	10.34	815	20.97
R Original data value was reported	3071	79.01	3886	99.97
Z Implied reported zero value	1	0.03	3887	100.00

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Restricted-use

Status Flag - Expenditure Computer

XEXCOMP	Frequency	Percent	Cumulative Frequency	Cumulative Percent
C Analyst corrected a cell that was blank	4	0.10	4	0.10
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	71	1.83	75	1.93
N Original data field was blank	319	8.21	394	10.14
P Imputation for a cell that previously was a nonresponse, using prior year data	408	10.50	802	20.63
R Original data value was reported	3054	78.57	3856	99.20
Z Implied reported zero value	31	0.80	3887	100.00

Status Flag - Expenditure Serial Subscription

XEXCUSER	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	19	0.49	19	0.49
C Analyst corrected a cell that was blank	4	0.10	23	0.59
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	74	1.90	97	2.50
N Original data field was blank	319	8.21	416	10.70
P Imputation for a cell that previously was a nonresponse, using prior year data	403	10.37	819	21.07
R Original data value was reported	3068	78.93	3887	100.00

Status Flag - Expenditure Document Deliver

XEXDEL	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	2	0.05	2	0.05
C Analyst corrected a cell that was blank	2	0.05	4	0.10
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	75	1.93	79	2.03
N Original data field was blank	319	8.21	398	10.24
P Imputation for a cell that previously was a nonresponse, using prior year data	410	10.55	808	20.79
R Original data value was reported	3058	78.67	3866	99.46
Z Implied reported zero value	21	0.54	3887	100.00

Status Flag - Expenditure Electronic Books

XEXELBKS	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	7	0.18	7	0.18
C Analyst corrected a cell that was blank	4	0.10	11	0.28
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	96	2.47	107	2.75
N Original data field was blank	319	8.21	426	10.96
P Imputation for a cell that previously was a nonresponse, using prior year data	621	15.98	1047	26.94
R Original data value was reported	2835	72.94	3882	99.87
Z Implied reported zero value	5	0.13	3887	100.00

Status Flag - Expenditure Electronic Serials

XEXELSER	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	12	0.31	12	0.31
C Analyst corrected a cell that was blank	8	0.21	20	0.51
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	108	2.78	128	3.29
N Original data field was blank	319	8.21	447	11.50
P Imputation for a cell that previously was a nonresponse, using prior year data	529	13.61	976	25.11
R Original data value was reported	2910	74.86	3886	99.97
Z Implied reported zero value	1	0.03	3887	100.00

Status Flag - Expenditure Other

XEXOTH	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	8	0.21	8	0.21
C Analyst corrected a cell that was blank	3	0.08	11	0.28
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	72	1.85	83	2.14
N Original data field was blank	319	8.21	402	10.34
P Imputation for a cell that previously was a nonresponse, using prior year data	401	10.32	803	20.66
R Original data value was reported	3067	78.90	3870	99.56
Z Implied reported zero value	17	0.44	3887	100.00

Status Flag - Expenditure Other Information Resources

XEXOTHIR	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	6	0.15	6	0.15
C Analyst corrected a cell that was blank	2	0.05	8	0.21
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	74	1.90	82	2.11
N Original data field was blank	319	8.21	401	10.32
P Imputation for a cell that previously was a nonresponse, using prior year data	407	10.47	808	20.79
R Original data value was reported	2983	76.74	3791	97.53
Z Implied reported zero value	96	2.47	3887	100.00

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Restricted-use

Status Flag - Expenditure Preservation

XEXPRES	Frequency	Percent	Cumulative Frequency	Cumulative Percent
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	74	1.90	74	1.90
N Original data field was blank	319	8.21	393	10.11
P Imputation for a cell that previously was a nonresponse, using prior year data	403	10.37	796	20.48
R Original data value was reported	3048	78.42	3844	98.89
Z Implied reported zero value	43	1.11	3887	100.00

Status Flag - Expenditure Total

XEXTOT	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	595	15.31	595	15.31
C Analyst corrected a cell that was blank	18	0.46	613	15.77
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	60	1.54	673	17.31
N Original data field was blank	319	8.21	992	25.52
P Imputation for a cell that previously was a nonresponse, using prior year data	366	9.42	1358	34.94
R Original data value was reported	2342	60.25	3700	95.19
T Total replaced with sum of detail during imputation	187	4.81	3887	100.00

Status Flag - Fringe Benefit

XFRINGE	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	1	0.03	1	0.03
C Analyst corrected a cell that was blank	13	0.33	14	0.36
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	187	4.81	201	5.17
N Original data field was blank	15	0.39	216	5.56
R Original data value was reported	1514	38.95	1730	44.51
S Not applicable, not imputed	2157	55.49	3887	100.00

Status Flag - Fringe Benefit Paid from Library Budget Y/N

XFRINGEYN	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	17	0.44	17	0.44
C Analyst corrected a cell that was blank	562	14.46	579	14.90
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	187	4.81	766	19.71
R Original data value was reported	3121	80.29	3887	100.00

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Restricted-use

Status Flag - Gate Count in a Typical Week

XGATECT	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	17	0.44	17	0.44
C Analyst corrected a cell that was blank	7	0.18	24	0.62
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	70	1.80	94	2.42
N Original data field was blank	319	8.21	413	10.63
P Imputation for a cell that previously was a nonresponse, using prior year data	489	12.58	902	23.21
R Original data value was reported	2985	76.79	3887	100.00

Status Flag - Hours Open in a Typical Week

XHOURS	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	1	0.03	1	0.03
C Analyst corrected a cell that was blank	30	0.77	31	0.80
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	66	1.70	97	2.50
N Original data field was blank	319	8.21	416	10.70
P Imputation for a cell that previously was a nonresponse, using prior year data	368	9.47	784	20.17
R Original data value was reported	3103	79.83	3887	100.00

Status Flag - Inter Library Loans Provided Non-returnable

XILPNON	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	1	0.03	1	0.03
C Analyst corrected a cell that was blank	7	0.18	8	0.21
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	75	1.93	83	2.14
N Original data field was blank	319	8.21	402	10.34
P Imputation for a cell that previously was a nonresponse, using prior year data	493	12.68	895	23.03
R Original data value was reported	2959	76.13	3854	99.15
Z Implied reported zero value	33	0.85	3887	100.00

Status Flag - Inter Library Loans Provided Returnable

XILPRET	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	1	0.03	1	0.03
C Analyst corrected a cell that was blank	7	0.18	8	0.21
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	75	1.93	83	2.14
N Original data field was blank	319	8.21	402	10.34
P Imputation for a cell that previously was a nonresponse, using prior year data	493	12.68	895	23.03
R Original data value was reported	2982	76.72	3877	99.74
Z Implied reported zero value	10	0.26	3887	100.00

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Restricted-use

Status Flag - Inter Library Loans Provided Total

XILPTOT	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	4	0.10	4	0.10
C Analyst corrected a cell that was blank	2	0.05	6	0.15
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	75	1.93	81	2.08
N Original data field was blank	319	8.21	400	10.29
P Imputation for a cell that previously was a nonresponse, using prior year data	431	11.09	831	21.38
R Original data value was reported	3056	78.62	3887	100.00

Status Flag - Inter Library Loans Received Non-returnable

XILRNON	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	1	0.03	1	0.03
C Analyst corrected a cell that was blank	8	0.21	9	0.23
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	74	1.90	83	2.14
N Original data field was blank	319	8.21	402	10.34
P Imputation for a cell that previously was a nonresponse, using prior year data	489	12.58	891	22.92
R Original data value was reported	2969	76.38	3860	99.31
Z Implied reported zero value	27	0.69	3887	100.00

Status Flag - Inter Library Loans Received Returnable

XILRRET	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	1	0.03	1	0.03
C Analyst corrected a cell that was blank	8	0.21	9	0.23
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	74	1.90	83	2.14
N Original data field was blank	319	8.21	402	10.34
P Imputation for a cell that previously was a nonresponse, using prior year data	489	12.58	891	22.92
R Original data value was reported	2990	76.92	3881	99.85
Z Implied reported zero value	6	0.15	3887	100.00

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Restricted-use

Status Flag - Inter Library Loans Received Total

XILRTOT	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	6	0.15	6	0.15
C Analyst corrected a cell that was blank	2	0.05	8	0.21
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	73	1.88	81	2.08
N Original data field was blank	319	8.21	400	10.29
P Imputation for a cell that previously was a nonresponse, using prior year data	424	10.91	824	21.20
R Original data value was reported	3063	78.80	3887	100.00

Status Flag - Library Provide Reference Service by Email

XLIBREFYN	Frequency	Percent	Cumulative Frequency	Cumulative Percent
C Analyst corrected a cell that was blank	17	0.44	17	0.44
N Original data field was blank	765	19.68	782	20.12
R Original data value was reported	3105	79.88	3887	100.00

Status Flag - Number of Presentations

XPRESEN	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	1	0.03	1	0.03
C Analyst corrected a cell that was blank	4	0.10	5	0.13
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	71	1.83	76	1.96
N Original data field was blank	319	8.21	395	10.16
P Imputation for a cell that previously was a nonresponse, using prior year data	442	11.37	837	21.53
R Original data value was reported	3050	78.47	3887	100.00

Status Flag - Reference Transactions in a Typical Week

XREFTRANS	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	3	0.08	3	0.08
C Analyst corrected a cell that was blank	5	0.13	8	0.21
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	70	1.80	78	2.01
N Original data field was blank	319	8.21	397	10.21
P Imputation for a cell that previously was a nonresponse, using prior year data	443	11.40	840	21.61
R Original data value was reported	3047	78.39	3887	100.00

Appendix H—Frequency and Continuous Variable Statistics
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Status Flag - Student Assistants

XSTASST	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	32	0.82	32	0.82
C Analyst corrected a cell that was blank	6	0.15	38	0.98
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	61	1.57	99	2.55
N Original data field was blank	319	8.21	418	10.75
P Imputation for a cell that previously was a nonresponse, using prior year data	357	9.18	775	19.94
R Original data value was reported	3112	80.06	3887	100.00

Status Flag - Librarians and Other Professional Staff

XSTLIBPRO	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	90	2.32	90	2.32
C Analyst corrected a cell that was blank	4	0.10	94	2.42
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	61	1.57	155	3.99
N Original data field was blank	319	8.21	474	12.19
P Imputation for a cell that previously was a nonresponse, using prior year data	353	9.08	827	21.28
R Original data value was reported	3060	78.72	3887	100.00

Status Flag - Librarians

XSTLIBS	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	30	0.77	30	0.77
C Analyst corrected a cell that was blank	5	0.13	35	0.90
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	61	1.57	96	2.47
N Original data field was blank	319	8.21	415	10.68
P Imputation for a cell that previously was a nonresponse, using prior year data	353	9.08	768	19.76
R Original data value was reported	3119	80.24	3887	100.00

Status Flag - Other Paid Staff

XSTOTH	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	10	0.26	10	0.26
C Analyst corrected a cell that was blank	6	0.15	16	0.41
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	61	1.57	77	1.98
N Original data field was blank	319	8.21	396	10.19
P Imputation for a cell that previously was a nonresponse, using prior year data	355	9.13	751	19.32
R Original data value was reported	3136	80.68	3887	100.00

Status Flag - Other Professional Staff

XSTOTHPRO	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	3	0.08	3	0.08
C Analyst corrected a cell that was blank	3	0.08	6	0.15
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	61	1.57	67	1.72
N Original data field was blank	319	8.21	386	9.93
P Imputation for a cell that previously was a nonresponse, using prior year data	353	9.08	739	19.01
R Original data value was reported	3148	80.99	3887	100.00

Status Flag - Total Full-Time Equivalent Staff

XSTTOT	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	258	6.64	258	6.64
C Analyst corrected a cell that was blank	7	0.18	265	6.82
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	60	1.54	325	8.36
N Original data field was blank	319	8.21	644	16.57
P Imputation for a cell that previously was a nonresponse, using prior year data	348	8.95	992	25.52
R Original data value was reported	2883	74.17	3875	99.69
T Total replaced with sum of detail during imputation	12	0.31	3887	100.00

Status Flag - Salary Student Assistant

XSWASST	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	10	0.26	10	0.26
C Analyst corrected a cell that was blank	15	0.39	25	0.64
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	69	1.78	94	2.42
N Original data field was blank	319	8.21	413	10.63
P Imputation for a cell that previously was a nonresponse, using prior year data	442	11.37	855	22.00
R Original data value was reported	3032	78.00	3887	100.00

Status Flag - Salary Librarian and Other Professional Staff

XSWLIBPRO	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	12	0.31	12	0.31
C Analyst corrected a cell that was blank	16	0.41	28	0.72
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	64	1.65	92	2.37
N Original data field was blank	319	8.21	411	10.57
P Imputation for a cell that previously was a nonresponse, using prior year data	392	10.08	803	20.66
R Original data value was reported	3084	79.34	3887	100.00

Status Flag - Other Paid Staff

XSWOTH	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	5	0.13	5	0.13
C Analyst corrected a cell that was blank	14	0.36	19	0.49
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	62	1.60	81	2.08
N Original data field was blank	319	8.21	400	10.29
P Imputation for a cell that previously was a nonresponse, using prior year data	393	10.11	793	20.40
R Original data value was reported	3093	79.57	3886	99.97
Z Implied reported zero value	1	0.03	3887	100.00

Status Flag - Total Salary & Wage Full-Time Equivalent

XSWTOT	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A Analyst adjusted a reported value	493	12.68	493	12.68
C Analyst corrected a cell that was blank	6	0.15	499	12.84
I Imputation for a cell that previously was a nonresponse, using a method other than prior year	60	1.54	559	14.38
N Original data field was blank	319	8.21	878	22.59
P Imputation for a cell that previously was a nonresponse, using prior year data	348	8.95	1226	31.54
R Original data value was reported	2529	65.06	3755	96.60
T Total replaced with sum of detail during imputation	132	3.40	3887	100.00

Status Flag - Technology to Assist the Disabled

XTECHYN	Frequency	Percent	Cumulative Frequency	Cumulative Percent
C Analyst corrected a cell that was blank	16	0.41	16	0.41
N Original data field was blank	765	19.68	781	20.09
R Original data value was reported	3106	79.91	3887	100.00

Status Flag - Electronic Theses Produced by Students

XTHESYN	Frequency	Percent	Cumulative Frequency	Cumulative Percent
C Analyst corrected a cell that was blank	3	0.08	3	0.08
N Original data field was blank	781	20.09	784	20.17
R Original data value was reported	3103	79.83	3887	100.00

Postal Zip code PLUS 4

ZIP	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Valid value	3887	100.00	3887	100.00

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Restricted-use

ALS:2002 Restricted-use file continuous variable statistics

VARIABLE	VARIABLE LABEL	N	MEAN	STD DEV	MINIMUM	MAXIMUM
ATTEND	Total Attendance at Presentations	3,887	2,049.28	5,468.25	0	249,006.00
BRANCHES	Number of Branch and Independent Libraries	3,887	0.76	2.75	0	120
COLAUDA	Collections - Audiovisual - Added	3,887	928.64	10,192.44	0	432,563.00
COLAUDH	Collections - Audiovisual - Held	3,887	22,690.75	169,733.98	0	4,649,891.00
COLBKSA	Collections - Books - Added	3,887	6,322.54	17,692.08	0	302,896.00
COLBKSH	Collections - Books - Held	3,887	245,480.41	737,423.77	0	14,615,391.00
COLEBKSA	Collections - E Books - Added	3,887	1,228.64	5,014.37	0	132,465.00
COLEBKSH	Collections - E Books - Held	3,887	2,654.53	11,368.74	0	510,421.00
COLMICRA	Collections - Microforms - Added	3,887	6,288.46	21,663.58	0	424,418.00
COLMICRH	Collections - Microforms - Held	3,887	294,244.40	859,047.03	0	9,185,620.00
COLSERA	Collections - Serial Subscription - Added	3,887	165.26	809.48	0	16,000.00
COLSERH	Collections - Serial Subscriptions Held	3,887	2,535.62	13,188.81	0	536,983.00
CRGEN	General Circulation Transactions	3,887	38,550.84	124,788.32	0	2,127,977.00
CRRSV	Reserve Circulation Transactions	3,887	10,136.64	42,184.90	0	1,411,052.00
DOCDEL	Documents Delivered from Commercial Services	3,887	277.97	4,029.78	0	205,073.00
EXAUD	Expenditure - Audio visual	3,887	9,529.42	38,486.15	0	1,708,170.00
EXBIB	Expenditure - Bibliographic Utilities	3,887	23,730.99	57,494.15	0	730,625.00
EXBKS	Expenditure - Books	3,887	165,896.54	553,561.69	0	16,103,841.00
EXCOMP	Expenditure - Computer Hardware Software	3,887	40,080.10	155,370.01	0	4,296,707.00
EXCUSER	Expenditure - Serial Subscription	3,887	314,834.62	948,858.77	0	11,033,976.00
EXDEL	Expenditure - Document Deliver	3,887	5,894.66	24,669.26	0	469,697.00
EXELBKS	Expenditure - Electronic Books	3,887	11,523.47	62,777.00	0	1,882,781.00
EXELSER	Expenditure - Electronic serials	3,887	76,577.62	250,338.79	0	3,800,785.00
EXOTH	Expenditure - All Other Operating Expenditure	3,887	109,156.07	549,055.35	0	19,723,710.00
EXOTHIR	Expenditure - Other Information Resources	3,887	13,628.90	108,268.66	0	2,634,275.00
EXPRES	Expenditure - Preservation	3,887	11,962.67	52,314.64	0	966,946.00
EXTOT	Expenditure - Total	3,887	1,393,546.77	4,104,042.25	0	96,453,699.00
FRINGE	Fringe Benefit	3,887	87,966.18	377,174.11	0	13,266,428.00
FTEUSED	IPEDS Fall Full-Time Equivalent Enrollment - Imputation used	3,833	2,927.86	4,733.59	2	46,503.00
GATECT	Gate Count in a Typical Week	3,887	4,354.69	8,316.01	0	110,114.00
HOURS	Hours Open in a Typical Week	3,887	70.23	28.79	0	168
ILPNON	Inter Library Loans Provided Non-returnable	3,887	1,270.18	5,305.39	0	165,714.00
ILPRET	Inter Library Loans Provided Returnable	3,887	1,258.31	3,647.40	0	65,534.00
ILPTOT	Inter Library Loans Provided Total	3,887	2,528.48	8,126.69	0	214,465.00
ILRNON	Inter Library Loans Received Non-returnable	3,887	1,054.31	3,085.49	0	57,277.00
ILRRET	Inter Library Loans Received Returnable	3,887	963.61	2,774.30	0	43,794.00
ILRTOT	Inter Library Loans Received Total	3,887	2,017.92	5,380.57	0	91,494.00

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Restricted-use

VARIABLE	VARIABLE LABEL	N	MEAN	STD DEV	MINIMUM	MAXIMUM
PRESEN	Number of Presentations	3,887	116.29	264.88	0	9,431.00
PCTMIN1	Percent Black non-Hispanic 2001 Fall Enroll	3,708	13.17	18.45	0	100
PCTMIN2	Percent American Indian 2001 Fall Enroll	3,708	1.54	8.01	0	100
PCTMIN3	Percent Asian/Pacific Islander 2001 Fall Enroll	3,708	4	7.23	0	80
PCTMIN4	Percent Hispanic 2001 Fall Enroll	3,708	6.87	11.5	0	94
REFTRANS	Reference Transactions in a Typical Week	3,887	388.08	1,705.61	0	75,049.00
STASST	Student Assistants	3,887	6.51	14.32	0	193.97
STLIBPRO	Staff - Total Librarians and Other Professional Staff	3,887	8.25	20.76	0	528
STLIBS	Staff - Librarians	3,887	6.6	15.11	0	420
STOTHPRO	Staff - Other Professional Staff	3,887	1.65	8.05	0	281
STOTH	All Other Paid Staff	3,887	9.64	27.29	0	657
STTOT	Total Full Time Equivalent Staff	3,887	24.4	58.53	0	1,307.00
SWASST	Salary & Wage - Student Assistant	3,887	62,379.11	181,713	0	3,337,206.00
SWLIBPRO	Salary & Wage - Librarian and Other Professional Staff	3,887	386,980.94	1,061,808.97	0	31,180,373.00
SWOTH	Salary & Wage - Other Paid Staff	3,887	259,002.18	802,636.73	0	19,101,792.00
SWTOT	Salary & Wage - Total Full Time Equivalent	3,887	708,362.23	1,963,019.21	0	51,702,053.00

Appendix H—Frequency and Continuous Variable Statistics
Academic Libraries Survey (ALS) 2002—Restricted-use

Appendix I—Planning Document
Academic Libraries Survey (ALS) 2002

Appendix I—Planning Document
Academic Libraries Survey (ALS) 2002

Summary of the 2002 Academic Libraries Planning Document and Subsequent Change Order Forms

With numerous changes to the survey, it has been difficult to control the imputation process. When the 2000 process came to an end, we began using Project Management techniques for 2002 ALS planning. From May 2002–January 2003, Census staff from Governments Division (GOVS) and the Economic Statistical Methods and Programming Division (ESMPD) met on a weekly basis to discuss 2002 survey issues. This is a summary of the decisions affecting imputation procedures that are not already described in the documentation, but were made during the planning process.

1. **Data Items**
   Data item decisions that affect imputation include a revised naming convention, determining non-zero items, line item equivalences, and survey part comparability.

   a. **Variable Naming Convention**
   NCES, GOVS and ESMPD will be using the same variable naming convention for all forthcoming ALS work. Every variable status flag will start with an 'x.' The prefix 'py' will be added to a prior year variable when it is referred to in the documentation. The following variable name changes have been made:

FY 2000 (old name)	FY 2002 (new name)
ic_libfac	libfac
l_edit	edit
lckin	ckin
limpdat	impdate
lncesdat	ncesdate
l_impute	impute

   b. **Non-Zero Items**
   In FY 2002, the following variables should not have zero values before or after imputations (approval was received from Mary Jo Lynch of the American Library Association):

Variable	Survey Part, Line No., Column No.*
Total Staff	B, 07, 1
Total Salaries	B, 07, 2
Total Expenditures	C, 21
Collection Total	D, sum of 22 thru 26, 2
Hours Open	F, 37
Gate Count	F, 38
Reference Transactions	F, 39

   *Column number is included where applicable.

    c.   **Line Item Equivalences**
        NCES approved the following line item equivalences:
- Line 13 (*excuser*) is equivalent to prior year line 14 plus prior year line 15.
- Line 15 (*exdel*) is equivalent to prior year line 17 (*pyexdel*).
- Line 17 (*exothir*) is equivalent to prior year line 19 (*pyexothir*).
- Line 20 (*exoth*) is equivalent to prior year line 23 plus prior year line 20.

    d.   **Part C and Part D Item Comparability**
        The following lines Part C and D lines are comparable:
- Lines 10 (*exbks*) and 22 (*colbksa & colbksh*)
- Lines 12 (*exaud*) and 25 (*colauda & colaudh*)
- Lines 13 (*excuser*) and 26 (*colsera & colserh*)
- Line 23 (*colebksa & colebksh*) is NOT directly comparable to line 11 (*exelbks*)
- Line 24 (*colmicra & colmicrh*) is NOT directly comparable to Part C since microforms are only a small part of lines 10 (*exbks*) and 13 (*excuser*) and are gradually going out of existence

2.   **"Z" Program: Using the 'S' status flag**
If the column detail equals the sum, then change any 0[N]'s to 0[S]'s. Check the row and if both values in the row are zero, then both values should be changed to 0[Z], or, if the other value in the row is 0[R], then the value gets changed to 0[Z]. Otherwise, the 0[S]'s should be changed back to 0[N]'s so that the variable will be imputed.

3.   **Generating the Imputation Base**
Base decisions that affect imputation include revising the list of items used to determine facilities included in the imputation base, no longer removing "outliers" from the base, the use of Enrollment data to define imputation cells, and defining the growth rate.

    a.   **Records Removed**
        The following is criteria for records which should be deleted from imputation base in FY 2002:
- Records where *edit* is '4,' '5,' or blank. There should be no records with these values for *edit* when ESMPD receives the file from GOVS.
- The check for records that have the current year form (*frm*) not equal to the prior year form (*pyfrm*) can be deleted. Since all libraries will receive the same form, these variables will not be on the file.

    b.   **Additional Criteria**
        The following item should be in the imputation base exclusion criteria for FY 2002: Records where at least one of the status flags is 'not reported' for either the current year or the prior year. (A status flag of 'N,' 'P,' or 'I' is considered 'not reported.' The status flags of 'Q' and 'X' have been removed since these flags have not been used for a while and will not be used for FY 2002.)

    c.   **Outliers**

Outliers will not be removed from the base since we will be generating the base for medians instead of means. (Change Order Form 9)

    d.   **Enrollment Data to Define Cells**

Instead of using Completions data, Enrollment data is used to define the imputation cells. We will still use *sector* to define imputation cells. (Change Order Form 10).

    e.   **Defining the Growth Rate**

The growth rate for an item that was zero in the current and prior year will be defined as 1. (Change Order Form 13)

4.   **Imputations**

Other decisions that affect imputation include the use of cell medians, imputation rules, cases where 0[R] is changed to 0[N], items that we may impute using 1998 ALS data.

    a.   **Cell Medians**

We will impute using cell medians instead of using cell means like was used in the past.

b. **Rules**
The final imputation rules are outlined in the following table.

Status	*pystatus*	Other criteria	Method
1	1 or 4		py data
1	3 or 5		group medians
1		no py unitid	group medians
3	1 or 4		py data
3	3 or 5	*libfac* = 1	group medians
3	3 or 5	*libfac* ne 1	impute exclusion*
3		no py unitid and *libfac* = 1	group medians
3		no py unitid and *libfac* ne 1	impute exclusion*
5			impute exclusion*
6	1 or 4		py data
6	3 or 5		group medians
6		no py unitid	group medians

**Records that meet this criteria will not be imputed or included in the
imputation base.*

c. **Changing 0[R]'s to 0[N]'s**
Any of the seven variables (total staff, total salaries and wages, total expenditures,
the collection total of items held at the end of the fiscal year, hours open, gate
count, or reference transactions) that should not be 0[R] in the current year will be
changed to 0[N]. If prior year data is reported and not zero, then it will be used to
impute. Otherwise, we will not use prior year data to impute.

d. **Using Fiscal Year 1998 Data**

The following table illustrates when to use FY 1998 data to impute General and Reserve Circulation Transactions.

FY 2002 data	FY 2000 data	FY 1998 data	Imputation method
Not reported	Reported	Reported	Use FY 2000 data times a growth factor to get the imputed total and the FY 1998 distribution ratio to get the imputed detail
Not reported	Impute flag 'P'	Reported	Use FY 2000 data times a growth factor to get the imputed total and the FY 1998 distribution ratio to get the imputed detail
Not reported	Reported	Not reported	Use FY 2000 data times a growth factor to get the imputed total and the CY cell distribution ratio to get the imputed detail
Not reported	Impute flag 'P'	Not reported	Use FY 2000 data times a growth factor to get the imputed total and the CY cell distribution ratio to get the imputed detail
Not reported	Impute flag 'I'	Reported	Use FY 1998 data with a growth factor applied to get the imputed value
Not reported	Impute flag 'I'	Not reported	Use the cell median to get the imputed value

5. **Imputation Flags**
Decisions include the distinction between three flags, flags by survey part, status flag rules, and status flag values.

a. **Distinctions**
There are three types of flags:

1) A flag that indicates if **ANY** item within a record was imputed associated with the *impute* variable.
2) Flags that indicate partial or total imputation for a given survey part. Possible values are 1 or 2, or the item is left blank (where 1 = total non-respondent for that section, 2 = partial non-respondent for that section, and blank = nothing imputed for that section/total respondent for that section).
3) Individual item status flags which represent the method of imputation.

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Academic Libraries Survey (ALS) 2002

b.   Flags by Survey Part
The following flags are those that indicate partial or total imputation for a given survey part:

Survey part	Flag
A	*partaflag1*
B	*partbflag1*
	partbflag2
C	*partcflag1*
	partcflag2
D	*partdflag1*
	partdflag2
E	*parteflag1*
	parteflag2
	parteflag3
F	*partfflag1*

c.   Status Flag Rules
The following status flag rules apply:
- 1 is considered a respondent on the unimputed file
- 3, 5, and 6 is considered a non-respondent on the unimputed file
- The edited, unimputed file will have status flags 1, 3, 5, and 6
- On the final, unimputed file, some 3's will be imputed, NO 5's will be imputed, and all 6's will be imputed
- After imputation, some 3's and all 6's will be changed to 4's, where a 4 implies an item was imputed
- Status flags on the imputed file will be 1, 3, 4, and 5

d.   Status Flag Values

The following table includes a list of status flag value descriptions.

STATUS FLAG DESCRIPTIONS		
	Unimputed	**Imputed file**
1	Respondent	Respondent
3	Non-respondent to data and screening questions	Non-respondent to data and screening questions, NOT imputed
4	N/A	Imputed non-respondent
5	Non-respondent to data (screening questions reported, out-of-scope)	Non-respondent to data (screening questions reported, out-of-scope), NOT imputed
6	Non-respondent to data (screening questions reported, in-scope)	N/A

This material was provided by the U.S. Census Bureau. It documents the decision making that preceded the data collection. It is provided here to assist planners of future administrations of the ALS.