

**Recent College Graduates Survey, 1983–1984:
[United States]**

United States Department of Education
National Center for Education Statistics

ICPSR 6379

RECENT COLLEGE GRADUATES SURVEY, 1983-1984: [UNITED STATES]

(ICPSR 6379)

Principal Investigator

United States Department of Education
National Center for Education Statistics

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DATA COLLECTION DESCRIPTION

United States Department of Education. National Center for Education Statistics

RECENT COLLEGE GRADUATES SURVEY, 1983-1984: [UNITED STATES]
(ICPSR 6379)

SUMMARY: The Recent College Graduates (RCG) survey estimates the potential supply of newly qualified teachers in the United States and explores the immediate post-degree employment and education experiences of individuals obtaining bachelor's or master's degrees from American colleges and universities. The RCG survey, which focuses heavily, but not exclusively, on those graduates qualified to teach at the elementary and secondary levels, is designed to meet the following objectives: (1) to determine how many graduates become eligible or qualified to teach for the first time and how many are employed as teachers in the year following graduation, by teaching field; (2) to examine the relationship between courses taken, student achievement, and occupational outcomes; and (3) to monitor unemployment rates and average salaries of graduates by field of study. The RCG survey collects information on education and employment of all graduates (date of graduation, field of study, whether newly qualified to teach, further enrollment, financial aid, employment status, and teacher employment characteristics), as well as standard demographic characteristics such as earnings, age, marital status, sex, and race/ethnicity.

UNIVERSE: Students within one year of attaining a bachelor's or a master's degree from an American college or university.

SAMPLING: A two-stage stratified sampling approach was employed. The first stage consisted of drawing a sample of bachelor's and master's degree-granting institutions from Higher Education General Information Survey (HEGIS)/Integrated Postsecondary Education Data System (IPEDS) completions files. Institutions were stratified by control (public or private), by region, and by the proportion of degrees awarded in the field of education (over or under a specified number). Within each of these strata, institutions were selected according to size (size being measured by the sum of bachelor's and master's degrees awarded that year). The second stage consisted of the selection of a core sample of graduates (bachelor's and master's degree recipients) who received their degrees from the sampled institutions during the 1983-1984 academic year. Sampling rates of graduates differed by major field of study (degree, special education, vocational education, other education, and noneducation). The sample consisted of 400 institutions and 18,000 graduates. Data are representative at the national level.

NOTE: The codebook and data collection instrument are provided by ICPSR as a Portable Document Format (PDF) file. The PDF file format was developed by Adobe Systems Incorporated and can be accessed using PDF reader software, such as the Adobe Acrobat Reader. Information on how to obtain a copy of the Acrobat Reader is provided on the ICPSR Web site.

EXTENT OF COLLECTION: 1 data file + machine-readable documentation (PDF)
+ SAS data definition statements + SPSS data definition statements

EXTENT OF PROCESSING: MDATA.PR/ CONCHK.PR/ CONCHK.ICPSR/ UNDOCCHK.PR/
UNDOCCHK.ICPSR/ DDEF.ICPSR/ REFORM.DOC/ SCAN

DATA FORMAT: Logical Record Length with SAS and SPSS data definition
statements

File Structure: rectangular

Cases: 10,311

Variables: 286

Record Length: 624

Records Per Case: 1

PROCESSING NOTE

Users ought to be aware of the fact that the following variables in the data set have wild codes:

Q8B (col.loc. 44-45) WHAT 2ND LANGUAGE DO YOU SPEAK FLUENTLY
codes 21 and 23

Q10L8 (col.loc.61) OTHER FEDERAL GRANT, SCHOLARSHIP
code 3

Q10L11 (col.loc. 64) STATE FELLOWSHIP, SCHOLARSHIP OR GRANT
code 3

Q20 (col.loc. 110) DESCRIPTION OF THE PRINCIPAL JOB
code 7

Q25A13 (col. loc. 175-176) PHYSICAL SCIENCES
code 14

Q32BPK (col. loc. 216-217) PREKINDERGARTEN
code 1

Q32BKK (col. loc. 218- 219) KINDERGARTEN
code 1

Q32B12 (col. loc. 242-243) TWELFTH
code 1

Q32BUG (col. loc. 244-245) UNGRADED
code 1

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DATA BASE DOCUMENTATION
(Authority: Public Law 93-302, Section 552)

PART I - SURVEY SUMMARY

A. TITLE

1985 Survey of 1983-84 College Graduates

B. DESCRIPTION

This survey collects data about students graduating during the 1983-84 academic year from colleges and universities in the continental U.S. Particular emphasis is placed on these students "newly qualified to teach." The sample of schools was chosen from the 1981-82 HEGIS tape. Graduates were sampled from lists supplied by the participating schools.

C. SURVEY METHODOLOGY

1. UNIVERSE OR SAMPLE

Sample = 404 schools
18,000 graduates

2. RESPONDENTS

Students who have received a bachelors or masters degree during 1983-84 academic year.

3. DATE OF COVERAGE

1983-84 academic year.

4. FREQUENCY OF SURVEY

Biennial

5. RESPONSE RATE

Schools 98
Graduates 78

E. HIGHLIGHTS

National estimates of graduates educational and occupational background are provided

D. RELATED STUDIES

1. SURVEYS

- 1976 Survey of 1974-75 graduates
- 1978 Survey of 1976-77 graduates
- 1981 Survey of 1979-80 graduates

2. PUBLICATIONS

SPONSORING AGENCY IS NOT NCES (Spelling)

DATA BASE DOCUMENTATION*(Reserve)***PART II —FILE DESCRIPTION****A. TITLE**

1985 Survey of 1983-84 College Graduates

B. FILE NAME

XEERTC. RCG85. A83-84. SAS

C. TAPE SERIAL NUMBER

E03116

D. TAPE STATUS

Final

E. STANDARD TAPE SPECIFICATIONS

1. NUMBER OF TRACKS 9 - Track	2. DENSITY 6250 BPI
3. PARITY ODD	4. LABEL(S) Standard Labels, 1
5. CODE CONVENTION	

SAS System Specifications

F. FILE DIMENSIONS

1. RECORD LENGTH NA	2. RECORD FORMAT Variable Block
3. BLOCKING FACTOR NA	4. MAXIMUM BLOCK SIZE 32,736
5. RECORD COUNT 10,311	

G. SEQUENCE

FICEID

(Reservc)

DATA BASE DOCUMENTATION

PART II —FILE DESCRIPTION

A. TITLE

1985 Survey of 1983-84 College Graduates

B. FILE NAME

XEERTC. RCG85. A83-84. DATA

C. TAPE SERIAL NUMBER

E03116

D. TAPE STATUS

Final

E. STANDARD TAPE SPECIFICATIONS

1. NUMBER OF TRACKS	2. DENSITY
9-Track	6250 BPI
3. PARITY	4. LABEL(S)
ODD	
Standard Labels, 2	

5. CODE CONVENTION

EBCDIC

F. FILE DIMENSIONS

1. RECORD LENGTH	2. RECORD FORMAT
624	Fixed Block
3. BLOCKING FACTOR	4. MAXIMUM BLOCK SIZE
10	6240

5. RECORD COUNT

10,311

G. SEQUENCE

FICEID (Record positions 6-13)

I. INTRODUCTION

In October, 1984 Lawrence Johnson & Associates, Inc. (LJA) was awarded a contract by the National Center for Education Statistics (NCES) to undertake a survey of the 1983-84 college graduating class. The purpose of the survey was to examine a nationally representative sample of bachelor and master graduates in order to determine the employment and educational experience of persons graduating during the period July 1, 1983, through June 30, 1984. One of the primary purposes of the survey was to produce national estimates of new additions to the supply of teachers. The survey had three major objectives:

1. To find how many 1983-84 graduates became eligible or certified to teach for the first time, how many applied for teaching jobs, and how many were employed as teachers in 1985, by field of specialization;
2. To find the 1985 employment, enrollment and labor force status of all 1983-84 college graduates, by major fields of study; and
3. To find out how much change there has been since 1979-80 in the number of bachelor's degree recipients newly qualified to teach and in the percent who are teaching full time.

The study is designed to investigate the following:

- o The number of 1983-84 graduating who are newly qualified to teach in the fields of special education, mathematics, and science.
- o The number of 1983-84 graduates who received financial aid in the last year of their education.
- o The relationship between teaching specialty and employment.
- o The numbers and characteristics of 1979-80 graduates who are employed as teachers, but not as first-year teachers.
- o The kinds of jobs that recent college graduates are entering and the salaries that they receive.

Further questions that may be addressed utilizing the data assembled through this survey are:

- o How many graduates are unemployed? How many are not in the labor force? For what fields of study are unemployment rates high or labor force participation rates low?
- o What is the relation between Federal educational assistance and major field of study; between Federal or other educational assistance and success in the job market?

Questions of a similar nature have been investigated previously by NCES.

In 1972 the Bureau of the Census conducted a study for NCES entitled, "Employment Status in October 1972 of Persons Who Received College Degrees Between July 1971 and June 1972." The Bureau of the Census conducted this survey through its Current Population Survey (CPS), a monthly survey of households. Since this study sample comprised many groups, only 900 college graduates turned up as respondents during the course of the study. Since then, the Recent College Graduates Survey has been conducted three times:

1. A survey of 1974-75 graduates was conducted by Westat, Inc., under an NCES contract,
2. A survey of 1976-77 graduates was conducted by the National Opinion Research Center (NORC) of Chicago, Illinois, also under an NCES contract, and
3. A survey of 1979-80 graduates was conducted by Westat, Inc., under an NCES contract.

The present survey constitutes the fourth in this continuing series.

This report documents the methodological approaches used by Lawrence Johnson & Associates, Inc. (LJA) to carry out the 1985 survey.

The 1985 survey began on time and was implemented with a relatively high response rate. Lists were provided from nearly all of the sampled colleges and universities (98% of the 404 institutions cooperated), and the response

rate among graduates was about 78 percent, a rate comparable to the previous survey. Because of the high mobility of recent college graduates it is felt that this response rate is quite high for a mail survey.

A response rate of this calibre requires a high level of mailing and follow-up activities. These activities are described in detail in Chapter V.

The sample size required for this survey was 18,000 graduates. Nearly 90% of the graduates were expected to be bachelor's degree recipients, and about 10% were to have been master's recipients. The actual sample was somewhat larger, or 18,738 of which 17,122 were recipients of bachelor's degrees and 1,616 were master's degree recipients. Of the 404 colleges and universities in the sample, 395 cooperated (97.8%).

The initial mailing, two follow-up mailings, and a Western Union mailgram resulted in 11,775 responses that could be utilized for input on file. When responses slowed, a one-third sample of non-respondents was drawn for telephone follow-up. This effort resulted in 1,425 additional questionnaire completions.

Using population estimates of graduates from the Higher Education General Information Survey (HEGIS), responses were weighted for graduates in the following ten categories:

Business	Letters
Computer Science	Mathematics
Education	Physical Science
Engineering	Social Service
Health	All others

The report is divided into Chapters II through VIII, and contains information related to questionnaire design and comparability, sample design, data collection, survey response, data processing, weights and variances, and recommendations for future survey.

II. QUESTIONNAIRE DESIGN

The questionnaire which was developed for and used in this survey was based on the preceding questionnaires used in the 1976, 1978 and 1981 surveys. During the course of the development of the 1985 questionnaire (see Appendix C), many questions were changed and improvements were made where it was possible to do so without affecting comparability.

From January 1985 to May 1985, a number of drafts were prepared and circulated within CS and LJA, as well as among outside agencies. To the fullest extent possible, Comments and suggestions for the various sources were taken into account in constructing the final draft of the questionnaire.

Before submitting the questionnaire to FEDAC/OMB, a pretest was conducted. Because the questionnaire was had undergone some change the three previous questionnaires for 1974-75, 1976-77, 1979-80 graduates, a larger formal pretest was thought to be necessary.

Introduction

The purpose of the pretest was to refine procedures for the 1985 Survey. Data from the pretest respondents were collected to:

- o determine whether the pretest questionnaire items possessed the desired qualities of measurement, consistency and conceptual clarity; and
- o identify problems in the data collection and analysis plans that could be corrected before implementation of the final survey.

Therefore, in addition to summary tabulations on the results of the pretest, LJA provided recommendations for modifying the questionnaire for its final format.

The results of pretest data collection will be discussed as follows:

- A. Initial Mailout of Survey Forms
- B. Implementation of Receipt Control System
- C. Follow-Up of Non-Respondents
- D. Implementation of Editing Procedures
- E. Validity Check of Survey Forms for Clarity
- F. Analyzing Responses to Survey Items

A. Initial Mailout of Survey Forms

The initial mailout consisted of a CS cover letter explaining the survey and its purpose, the survey form itself with appropriate instructions for completion, and a first-class postage-paid envelope preaddressed to LJA's data receipt office.

Because clearance for the pretest questionnaire was to expire on December 31, 1984, we were obliged to complete the initial mailout of survey forms just before the holidays. Because of this, there may be major differences between the results of this mailout as opposed to one implemented later in the year. The mailout took place on December 21, 1984, and the response rate over time is indicated below:

<u>Event</u>	<u>Completion Date</u>	<u>Forms Received</u>	
Initial Mailout of 300 Forms-----	12/21/84		
First Mail Follow-Up (192 Forms)-----	01/15/85	129	40%
First Telephone Follow-Up-----	01/23	133	44%
Second Telephone Follow-Up (Validity Check)-----	02/25	180	60%
Clean Data Tape-----	02/25		
Draft Report-----	02/28		

Of the 173 forms that were received, 168 had been completed and 5 were returned as undeliverable.

The response rate tended to vary according to institution. As of February 25, 1985, we had received forms from 180 institutions, but response rates varied from 73 percent at Nazareth College to only 45 percent at the University of the District of Columbia. Response rates are shown below.

<u>Institution</u>	<u>Received</u>	<u>Expected</u>	<u>Percent Received</u>
Nazareth College	90	124	73%
NH College	15	23	65%
Univ. Baltimore	10	16	63%
MD Inst. College of Art	10	16	63%
UDC	55	121	45%

As is evident, we received the largest returns from the two colleges farthest from the point of mailout. This pattern continued as we began telephone follow-up. We were unable to locate telephone numbers for a large proportion of UDC graduates. Efforts to locate updated telephone numbers from the UDC administration and alumni associations were unsuccessful.

B. Implementation of Receipt Control System

Initially, each potential respondent in the pretest sample was assigned a study identification number. This number, affixed to the respective questionnaires and mailing labels, served to assure appropriate linkages for the construction of the pretest sample data file.

After the initial mailout, mailroom staff provided receipt control unit personnel with these identification numbers and the dates of mailings for each of the 300 persons in the pretest sample.

The identification number served to link the following events:

- c date of initial mailout
- o date of first mail follow-up

- o date of telephone follow-ups
- o date of returned pretest questionnaire
- o change of address information
- o re-mailing information
- o data processing and analysis

For ease in training, LJA developed a Data Entry and Inquiry Procedures Manual. This manual, shown in Appendix A, provided the user with comprehensive instructions on data entry and inquiry procedures. Recording specific dates in the receipt control file allowed the evaluation of time lags between initial mailout and follow-up activities, permitting the Project Director to generate daily return rates for the pretest questionnaire. These cumulative percentages of returned questionnaires provided checks for the data collection process and allowed the evaluation of the effectiveness of follow-up activities.

C. Follow-Up of Non-Respondents

Follow-up procedures, intended to assure a high response rate for the pretest questionnaire, consisted of a second mailing plus a telephone call to all nonrespondents. This two-step follow-up procedure appeared to function well in areas in which telephone numbers were available for nonrespondents.

1. First Mail Follow-Up

The second mailing was completed on January 15 to a total of 192 persons from whom forms had not been received. The second mailing included a cover letter thanking the respondent if a completed questionnaire had already been mailed and urging prompt participation if not. To spur the latter, second copies of the survey questionnaire and the postage-paid preaddressed envelope were also included under the presumption that the original materials may have been misplaced.

2. Telephone Follow-Up

If a completed questionnaire was not received two weeks after the first mail follow-up, staff contacted the non-respondents by telephone. A log was maintained of attempts to contact the non-respondents to which they were assigned, including the outcomes of these contacts--that is, wrong number, obtained commitment, disinterested respondent, and so forth. Using the appropriate status codes, these outcomes were then recorded in the receipt control file as described in Appendix A.

Calls had to be placed at varying hours during both weekdays and weekends to increase the likelihood of contacting respondents employed during the daytime.

D. Implementation of Editing Procedures

The receipt control staff logged the date of receipt and prepared batches of returned pretest questionnaires for editing procedures. The editing staff implemented a two-step procedure of pre-machine and machine edits.

Pre-machine editing procedures assured that two critical objectives were fulfilled:

- (1) All questionnaires were mechanically acceptable (i.e., properly identified); and
- (2) All questionnaires were substantively acceptable (i.e., data consistency).

These procedures entailed reading each of the completed questionnaires to look for missing answers, apparent errors or logical inconsistencies, and illegible or uninterpretable entries.

Machine editing was used during two separate phases of data processing: during data entry and after creation of the sample file. During the first phase, edit specifications were built into the input program such that the

hard-copy data collection form was identical to the machine-readable version. During the ensuing phase, machine editing involved consistency checks, as defined in decision logic tables and translated into a machine-readable edit specification file, range checks, logic checks, and scanning for appropriate utilization of skip patterns.

Together, these pre-machine and machine editing procedures ensured the proper formatting and resolution of errors such that the sample file could be both created and maintained. The input process was designed so as to be as friendly as possible to data entry operators.

E. Validity Check of Survey Forms for Clarity

For the purpose of ascertaining conceptual clarity of the pretest questionnaire, LJA conducted a telephone survey of 100 respondents. Fifteen (15) survey items were selected by NCES for validation. Because of differences in the persons completing the forms, a total of seven (7) sets of 15 items each was developed. These telephone inquiries sought to validate those 15 items with respect to clarity of comprehension for the respondents.

The validation calls began on February 20. By February 25, the status of the 100 calls was as follows:

Calls Completed	23
No Telephone Listing	23
No Answer or Not at Home	54
	100

The emphasis of the pretest phase was determine whether the 15 questions provided information (responses) such that variance in the responses reflected individual differences instead of random errors. Thus, problems of formatting

(both for questions and for answers), content consistency, reliability and validity of responses (and variability thereof), and missing data were to be evaluated.

All contacts were recorded carefully so as to note any problems respondents had encountered with the 15 items. The validation calls completed showed no apparent trend in problems with any particular item. Further follow-up telephone interviews were conducted either to inquire about missing data or to clarify any ambiguous responses.

F. Analyzing Responses to Survey Items

The telephone validation study was designed to flag any response patterns that indicate problems with the clarity of the respective questions, such as nonresponse, multiple responses, "other" answers, response qualifications, and direct comments from respondents regarding specific question wording or format. Problems with questionnaire format will be indicated by missing answers attributable to errors in wording or inappropriate skip patterns. Finally, the pretest analysis will examine the internal validity of questionnaire items designed to be empirically related (or unrelated).

In addition to the above, other modifications for the final survey questionnaire will include any changes that may improve the efficiency of coding and data management. These include:

- o actual problems incurred in coding the completed pretest questionnaires;
- o attending to the organization of the coding procedures for open-ended question responses;
- o pretesting data transfer (hard-copy to tape) and editing (e.g., data cleaning) procedures; and
- o organizing data for appropriate utilization within specific computer programming packages.

On a broader level, the analysis of the pretest data will be germane for corrective actions pertaining to the coordination of the various phases of the study--receipt control system, pre-machine and machine editing, coding and keypunching, data cleaning and transfer, and data file manipulations.

III. SAMPLE DESIGN

A. Plan for List Conversion

Institutional data were received from the school in three distinct forms:

- o Computer Tapes
- o Lists (computer generated or typed)
- o Commencement programs

To check and prepare these different lists for drawing a sample of graduates will require careful preparation and somewhat different approaches.

1. Computer Tapes

When a computer tape was received from a school the receipt control clerk made the appropriate entry in the receipt control log. The only check the receipt control clerk can perform is to make sure that written documentation is included with the tapes. After that the tape will be turned over the programming department where it will be checked for readability and content. The content check included the following:

- o Does it contain all the requested data?
- o Was the data on the tape for the correct period (7/1/83-6/30/84)?
- o The total number of bachelors and masters recipients were noted on the tape and compared to a previously determined number from a previous HEGIS. If the total was within the tolerance limits determined by CS the tape was accepted. If not, the tape was returned to the operations manager who initiated follow-up procedures.
- o After CS decided to oversample graduates with Hispanic surnames, a matching program was run with the census tape of Hispanic surnames and all matches on the school were marked.
- o Once all the above conditions were satisfied, the programmer declared the tape ready for sampling. An entry to this effect was made in the receipt control log and the survey operations manager was notified.

2. Lists (computer generated or typed)

It is expected that about 50 percent of the schools will provide lists rather than computer tapes. In previous cycles of this project, lists arrived in many different grades of quality and needed to be very carefully checked before they were declared ready for sampling. The checks to be performed were essentially the same ones as for a magnetic tape, except that all checks were performed by hand. Determining the Hispanic surnames involved a large effort. Instructions were written so that not every name on the list needed to be checked against the list of Hispanic surnames. We assumed, for example, that names like Brown, Smith, Jones, etc. did not need to be checked.

If no followup was necessary, the lists were marked ready for sampling and the survey operations manager was notified.

3. Commencement Programs

In discussing the project with the registrars commencement programs were our last choice, after tapes and lists. The reasons for this are that these programs generally are the least accurate and complete. Since they are printed well in advance of graduation, they often contain names of students who actually did not graduate at the indicated time, and conversely they also often do not contain names of students who did graduate on time. In addition, home addresses are almost never contained in commencement programs, and the major field of study is also not usually listed in these programs. Very often, graduates are listed as having received a BA or BS, but the specific major is not listed.

In order to overcome these difficulties several procedures were necessary.

- o When a registrar insisted that the school could only provide a commencement program, our telephone interviewer tried to make arrangements for the program to be edited before it was sent to our subcontractor. Names of students that did not actually graduate were crossed out and names of additional graduates were added by hand.

- o When majors were not provided in the program, we oversampled from the listings of BA's and BS's and sent the lists of names back to the school with a request to supply majors and addresses.

Leaving aside the above exceptions, procedures for checking commencement programs were the same as for lists.

Once each list was found to be acceptable, the sampling process began. It was necessary to sample, with different rates, for ten groups of bachelors and one group of masters. Because it was decided to oversample for Hispanics, each group had to be sampled once more for this group. For schools which provided magnetic tapes this process was not difficult, but for schools providing lists or commencement programs, it was a cumbersome process. For each group a random starting point was determined and sampling proceeded from there. The name, address and major of each sampled graduate was transferred to a coding sheet. Once the sample for a specific school was drawn, all the entries were key punched and assembled on a tape designed to contain the complete sample. The sample was drawn in such a way as to make oversampling, and therefore a reduction of the sample, unnecessary.

B. Sampling

1. Overview

The 1985 Recent College Graduate Survey was primarily concerned with the estimation of the occupational and educational status of persons graduating during the 1983-84 academic year with a Bachelor's or Master's degree. In previous surveys the main goal was to provide estimates of the number of new teachers added and of the labor force and experience of persons trained to be teachers. The 1985 survey placed a greater emphasis on

estimating these characteristics for all graduates and was designed to provide reliable estimates of these items for Black and Hispanic graduates and for other graduates with specific majors.

A two-stage sample was implemented for this survey. The first stage was the sampling of institutions which grant Bachelor's and Master's degrees. This sampling was done by CS. The second stage consisted of sampling graduates from the selected institutions.

In order to accomplish the objectives of the survey, differing sampling rates were applied to various classes of graduates in order to obtain the desired number of sample graduates for these groups. The sample sizes for some of the groups would otherwise be too small for meaningful analysis. (If the only objective was to obtain estimates of the characteristics of all graduates then a uniform sampling rate across all categories of graduates would be more efficient.) The effect of using differing rates is to increase the precision for estimates of those graduates who are oversampled but to decrease the precision for estimates of all graduates. Since statistics on all graduates are based on a large sample, a reduction in precision will not interfere with the ability to make detailed analyses of the data. The types of graduates who were oversampled for the 1984 survey are: Black, Hispanic, and those who majored in computer science, education, letters, mathematics or the physical sciences.

2. Sampling of Institutions

The sample of institutions was carried out by NCES using the 1981-82 HEGIS file as the sampling frame. The schools were stratified and a measure of size was assigned to each institution which granted a Bachelor's or Master's degree. The sample of institutions were then drawn using probabilities proportional to the institution's measure of size.

The measure of size used was the sum of the number of Bachelor's and Master's degrees awarded in 1981-82, except for the traditionally Black institutions (TBI's), where the measure of size was three times the number of degrees awarded. The purpose for increasing the measure of size for TBI's was to increase the number of Black graduates in the sample. Special procedures, described in the next section, were also required for the within institution sampling plan in order to realize the increase in Black graduates in the sample.

A total of 395 institutions (97.8%) sent in useable lists, tapes or commencement programs which were used in the sampling process. Nine institutions (2.2%) either refused or did not supply lists in time for inclusion into the sample.

All available lists, tapes and commencement programs were sampled, keypunched and transferred to tape. The tape contains records from only 394 schools instead of 395 because two entries for Cornell University were included as follows:

02711	Cornell University Endowed College
11693	Cornell University Statutory College

The Registrar of Cornell University sent us a combined list for the above two sample members. Since there was no way to properly separate the list into two and since the probability of selection was the same (certainty) for both sample members we proceeded to sample from the combined list. Selected names were entered under FICE code 02711 and FICE 11693 is not included in the list of sampled institutions. Thus although there appear to be only 394 institutions on the sample list, 395 institutions are actually represented.

Further breakdown of the sample shows the following:

Total Sample	<u>404 Institutions</u>
Lists received	323
Tapes received	37
Commencement	
Programs Received	<u>35</u>
Refusals	
Totals Sample	<u>395 (97.8%)</u>
	<u>9 (2.2%)</u>
	<u>404 (100.0%)</u>

3. Sampling of Graduates Within Institution

The first step in sampling the graduates was to obtain a list which contained the name and major of all persons who were awarded a Bachelor's or Master's degree from the school in the academic year 1983-84. The two-stage design eliminates the need to acquire a listing of graduates from all but the sampled institutions.

Sampling rates were established for every group of graduates. The sampling rate for Black, Hispanic and graduates with certain majors was higher than for all other graduates. The method for applying the higher rate is different for each of the three groups. We will first describe the plan for all other graduates.

Sampling variances for most items were minimized with use of a uniform sampling rate for all graduates (except those oversampled) applied across all institutions. This was done by sampling at a rate of r/P_i in the i^{th} school, where r is the desired sampling rate and P_i is the probability of selection of the school. If there were no groups of graduates that had to be oversampled, one effect of using this procedure would be to make the number of graduates selected per sample institution approximately a constant. This is advantageous because it equalized the workload across schools as well as minimizing sampling errors.

For Master's degree graduates, a uniform rate was used. The sampling rate is simply the sample size (2,000) divided by the number of Masters degrees awarded (295,546). This is approximately .0068. The rest of this discussion pertains only to Bachelor's degree recipients.

If a constant sampling rate had been used for all graduates, the number of graduates for the sample that had certain majors would have been too small for meaningful analysis. To make these estimates precise enough for analysis, we used a higher sampling rate for graduates with certain degrees. Graduates with majors in computer science and mathematics were sampled at a rate of 3r, those with degrees in education and letters were sampled at a rate of 2r, and graduates with degrees in the physical sciences were sampled at a rate of 1.5r. The effect of using these sampling rates was to increase the sample size for the specific majors that were oversampled. Table 1 shows the sample sizes that result from applying these rates.

CS
+
P...?
?

The sampling rate was confounded because of the oversampling of TBI's and graduates with Spanish surnames. The basic sampling rate applied to graduates of non-TBI's, without Spanish surnames and without an oversampled major is 0.0130. This number is subject to change based upon later estimates of the universe of graduates. All other sampling rates can be found by applying the oversampling factor to the basic rate.

For graduates from TBI's the sampling rate was adjusted to realize the additional number of black graduates in the sample. The method of sampling from within the TBI's as if they had been selected with a measure of size equal to their enrollment (as opposed to three times the enrollment) was utilized to produce the required number of graduates. This had the effect of making the sample size per school for TBI's approximately equal to that for the non-TBI's.

Table 1. Approximate sample sizes for Bachelor's graduates by major, 1984
Recent College Graduates

Major	Number of Graduates*	Approximate sample size
Computer Science	20,267	836
Education	101,113	2,779
Letters	34,334	944
Mathematics	11,599	478
Physical Sciences	24,052	496
All Others	761,633	10,467
Total	952,998	16,000

* Source: 1984 Condition of Education, Table 2.12, 1981-82 Bachelor's.

The ideal method of sampling in this survey is to apply the same sampling rate to all graduates in the subgroup of interest. The procedure we proposed does not give every Black graduate the same probability of being selected because Black graduates could not be identified from the institution's lists. The result was that the full reduction expected in the standard error of the estimate of Black graduates could not be realized. In other words, the sample size increase does not decrease the standard error as much as if we could apply the same rate for all Black graduates.

We estimated the sample size of Black graduates by looking at the expected sampling size of Blacks from non-TBI's and the expected sample size from the TBI's. Approximately 6.5 percent of all graduates are Black. With no oversampling we would have expected 1,170 Black graduates in the sample ($.065 \times 18,000 = 1,170$). Since about 30 percent of the Blacks are graduates of TBI's we partitioned the 1,170 Black graduates in the sample into 350 from TBI's and 820 from non-TBI's. We oversampled graduates from TBI's by a factor of three. Thus, we expected three times as many Black graduates in the sample

from the TBI's. Therefore, the total number of Black graduates we expected in the sample was 1,870; this consists of the 820 Black graduates from non-TBI's and 1,050 from TBI's (3×350). We estimated that the variance of the estimates for Black graduates would decrease by about 20 percent as a result of this increase in sample size.

The third group of graduates to be oversampled was Hispanic graduates. The procedure for Black graduates was not feasible for Hispanics because institutions with a high proportion of Hispanic graduates (corresponding to TBI's) do not contain a high proportion of all Hispanic graduates. The method for sampling Hispanics, therefore, had to be different.

We oversampled Hispanic graduates by first identifying Hispanic surnames on the lists provided by the sampling institutions. This was accomplished by matching the names of the graduates against a list of the most common Hispanic surnames compiled by the Census Bureau. The graduates with Hispanic surnames were then sampled at a rate of five times the ordinary sampling rate. Note that the oversampling was done by Spanish surname so that some non-Hispanics were expected to be oversampled by this procedure.

It was expected that only about two thirds of the Hispanic graduates were likely to have Spanish surnames. Therefore, the reduction in the sampling error was not expected to be as great as if all Hispanics could be oversampled at the same rate. The argument was the same as for the Black sampling plan.

We estimated the number of Hispanic graduates in a manner similar to the procedure used for Black graduates. The Hispanics constituted about 2.3 percent of all graduates, hence with no oversampling we would expect 414 sample Hispanics ($.023 \times 18,000 = 414$). Of the 414 sample Hispanics, approximately 276 would have Spanish surnames and 138 would not have Spanish surnames. We oversampled Spanish surnames by a factor of five. This would

tend to increase our sample of Spanish surname graduates from 276 to 1,380 ($25 \times 276 = 1,380$). The total Hispanic sample size we expected was 1,518, where 1,380 would have Spanish surnames and 138 would not have Spanish surnames. We expected the variance of estimates for Hispanics to be reduced by about 53 percent as a result of the oversampling.

The sampling approach employed produced the following results: A total of 18,738 names and addresses were keypunched and stored on tape. Further breakdown of this number shows:

Bachelors Degree Recipients	17,122
Masters Degree Recipients	<u>1,616</u>
	18,738

Of the 17,122 bachelors, 1,446 (8.4%) were bachelors with Hispanic surnames.

The remaining 15,676 bachelors can be broken down by major as follows:

	<u>-%</u>
Computer Sciences	1,534
Education	2,456
Letters	1,040
Mathematics	481
Physical Sciences	474
Others	<u>9,691</u>
	<u>15,676</u>
	9.8
	15.7
	6.6
	3.1
	3.0
	61.8
	100.0%

From TBI Schools we were able to obtain 1,272 bachelors and 23 masters.

IV. DATA COLLECTION

Introduction

In addition to using the most productive and cost effective procedures, as identified in the pretest, the final plan for data collection was coordinated with the receipt of lists from colleges and universities and the selection of the sample. Both the list collection and sample selection proceeded as expected, and the generation of labels for envelopes and questionnaires was carried out as planned during April and May of 1985. The initial mailout was scheduled for early May of 1985, but due to a later OMB approval than anticipated, it did not occur until June 14.

A. Initial Mailout of Survey Forms

During this phase, the emphasis was be on the most efficient process for organizing the work flow for the assembly and delivery of materials such that:

- (a) labels on the questionnaires matched labels on the outgoing envelopes (i.e., the same identification numbers);
- (b) a cover letter, survey form, and preaddressed return envelope were included in each outgoing packet;
- (c) allocation of tasks for the mailing-piece assembly was optimal; and
- (d) each respondent receives a complete packet.

The initial mailout included a cover letter on NCES letterhead explaining the survey and its purpose, the survey form itself with appropriate instructions for completion, and a first-class postage-paid envelope preaddressed to LJA's data receipt office.

LJA delivered all mailings to the Ben Franklin substation on Pennsylvania Avenue, NW, in Washington, DC. Located approximately three minutes from LJA's Dupont Circle office, and having the equipment and personnel to accept large volume mailings, LJA experienced no difficulties with the staff from this post office.

For each mailing, LJA utilized a process designed to assemble the mail packet, label questionnaires and envelopes, and get the completed packages to the post office within five days of the commencement of each of the mailings.

During the mailing process we used quality control procedures to ensure that labels on the questionnaires matched labels on the outgoing envelopes and that receipt control staff were provided mailout records for input onto our Receipt Control System (RCS). The RCS was updated on a daily basis so that status was always available to management.

In order to guarantee that packets were forwarded to the addressee, LJA stamped each envelope "Forwarding and Address Correction Requested."

B. Receipt Control System

Although the compliance of LJA with NCES requirements for the receipt control system (RCS) is specified more thoroughly elsewhere (see Chapter II), the implications of the system for data collection and analysis are discussed in this section. In general, the RCS was designed to provide information about the status of work flow, quality control and follow-up procedures.

As in the pretest, each potential respondent in the sample was assigned a study identification number. This number was affixed to the respective questionnaires and mailing labels discussed earlier. Its purpose was to assure appropriate linkages for the construction of the sample data file.

After the initial mailout, mail staff provided receipt control unit personnel with the dates of mailings for each of the 18,000 persons in the sample. The Project Director coordinated mailing and receipt control activities, was advised of any resulting problems, and tested possible solutions.

Throughout the survey, the identification number served to link the following events:

- o date of initial mailout
- o date of first mail follow-up
- o mailgram mailout date
- o second mail follow-up date
- o date of first telephone follow-up
- o date of returned questionnaire
- o change of address information
- o re-mailing information
- o data processing and analysis

Recording specific dates in the receipt control file allowed the evaluation of time lags between initial mailout and follow-up activities. This process enabled the Project Director to accurately project time and labor allocations for all phases of the survey.

In addition, the Project Director generated a return rate graph at key phases of the survey. Such cumulative percentages of returned questionnaires provide checks for the data collection process itself and an evaluation of the effectiveness of follow-up activities. More importantly, however, an analysis of questionnaires returned at varying lag times provided estimates of response bias (delays) according to respondent characteristics (e.g., grade-point averages, college major, or race/ethnicity).

V. SURVEY RESPONSE AND FOLLOW-UP PROCEDURES

A. Follow-Up of Non-Respondents

All follow-up procedures were intended to ensure a final 85 percent response rate for the questionnaire (i.e., 15,300 respondents).

1. First Mail Follow-Up

A second mailing of 12,747 questionnaires was sent to all persons for whom a questionnaire had not been received by the receipt control system on July 26, 1985. This second mailing included a cover letter thanking the respondent if a completed questionnaire had already been mailed and urging prompt participation if not. To spur the latter, second copies of the survey questionnaire and the postage-paid preaddressed envelope were included under the presumption that the original materials were misplaced.

The nonrespondents also included those for whom initial mailings were not delivered due to incorrect or changed address information. Before this first follow-up mailout was implemented, staff were instructed to once again check address labels to be sure that they matched those on lists provided by cooperating colleges and universities. The first mail follow-up increased the response rate by an additional 14 percent (at the end of August, 1985, 8,531 completed questionnaires had been received).

At this point in the survey 975 questionnaires were categorized as undeliverable. This amount (5% of the total) was considered small and was due to a special telephone follow-up activity in June and July aimed at finding correct addresses for packages returned to us by the Post Office.

2. Second Follow-Up Mailout

To emphasize the importance of a response, we mailed an additional cover letter, questionnaire and postage-paid envelope at the end of August to the 10,207 nonrespondents as of that date. We also included a one page summary of the results of previous surveys in an attempt to encourage participation.

3. Mailgram Mailout

Two weeks after the second follow-up mailing, mailgrams were sent to the remaining nonrespondents. We anticipated that this method would increase the response rate by another 5 to 10 percent of the sample. The mailgram emphasized the importance of the study and was worded so as to strongly urge a quick response.

4. Recontact Colleges and Universities for Addresses and Telephone Numbers

LJA contacted institutions for assistance in locating new addresses for all nonrespondents which remained after the follow-up procedures described above.

Results varied greatly using this approach, but most of the institutions were able to provide assistance in locating nonrespondents.

We used the following procedures to enlist the cooperation of registrars' offices. First, a list of nonrespondents was generated by our Receipt Control System by institution, and a follow-up call was made to registrars.

5. Telephone Subsample of Nonrespondents

A final method utilized was that of contacting the nonrespondents by telephone. Telephone staff maintained a log of attempts to contact the nonrespondents to which they were assigned, including the outcomes of these

contacts--that is, wrong number, obtained commitment, disinterested respondent, and so forth. Using the appropriate status codes, these outcomes were also recorded in the receipt control file.

The Project Director ensured that these calls were placed at varying hours during both weekdays and weekends to increase the likelihood of contacting respondents who were employed.

B. Implementation of Editing Procedures

The receipt control staff logged the receipt, documented the event sequence, and prepared the batches of returned questionnaires for editing procedures. On receipt thereof, the editing staff implemented a two-step procedure of pre-machine and machine edits.

Pre-machine editing procedures assured that two critical objectives were fulfilled:

- (1) All questionnaires were mechanically acceptable (i.e., properly identified); and
- (2) All questionnaires were substantively acceptable (i.e., data were consistent).

These procedures entailed checking each of the completed questionnaires to look for missing answers, apparent errors or logical inconsistencies, and illegible or uninterpretable entries.

The pre-machine, or manual editing process, designed to decrease machine editing costs, was documented in a manual produced for use by editors and coders. This manual clearly delineated all checks to be carried out manually. The most important of the checks were designed to ensure that respondents actually received their degrees during the 1983-84 year. Other manual checks included comparisons of answers to questions soliciting similar information. Examples from the 1985 survey were the need to compare whether

or not the respondent was employed (Question 15), answered the occupation section (Question 14), and correctly responded to the question regarding whether or not he or she was employed as a teacher (Question 28).

Machine editing was used during two separate phases of data processing: during data entry and after creation of the sample file. During the first phase, the edit specifications were designed so that the hard-copy data collection form was identical to the machine-readable version. During the ensuing phase, machine editing involved consistency checks (i.e., as defined in decision logic tables and translated into a machine-readable edit specification file), range checks, logic checks, and scanning for appropriate utilization of skip patterns. Appendix E and F outline the specifications for both levels of machine editing.

C. Analyzing Responses to Survey Items

Problems with questionnaire format, such as missing answers attributable to errors in wording or inappropriate skip patterns, were monitored continuously. We also checked regularly to ensure that any necessary changes were quickly implemented. These included:

- o actual problems incurred in coding the completed questionnaires such as coder errors;
- o attending to the organization of the coding procedures for open-ended question responses;
- o data transfer (hard-copy to tape) and editing (e.g., data cleaning) procedures; and
- o continuous testing of data for appropriate utilization within specific computer programming packages.

VI. DATA PROCESSING

A. Introduction

This chapter provides information on the data processing, computer hardware, and software that was utilized in support the 1985 Survey of 1983-84 College Graduates.

The plan is organized into sections on system, program, and data base specifications. The guidelines used in developing this plan include Federal Information Processing Standards Publication 38 and the Education Department's ADP Standards Manual.

Because human error is inherent in data collection activities, data processing systems are designed under the assumption that errors will occur with frequency. Both manual and machine edit procedures were required to identify and correct errors before data were made part of the files. The following sections describe how we identified errors both manually and by machine edit and validation procedures.

B. System Specifications

This section is divided into four parts which describe the requirements of each subsystem. Subsystems developed for the 1985 file were designed for receipt control, questionnaire edit/update, statistical tables, and data security.

1. Receipt Control Subsystem.

This subsystem processed data for all completed questionnaires in order to:

- o Maintain the date(s) of the following events:
 - initial or follow-up questionnaire sent
 - reminder letter(s) or mailgram(s) sent
 - questionnaire received
 - survey completed over the phone
 - questionnaire encoding/manual editing completed
 - machine editing completed
 - questionnaire data added to master file
 - telephone calls made as part of data error resolution procedures.
- o Provide reports of nonrespondents and the status of those questionnaires.
- o Generate reports on overall response rate and response rate by selected categories (such as major, college, state, or sex).

The receipt control subsystem was automated using an IBM PC/XT with PFS File and Report software.

The five subtasks involved in the development of the receipt control system were:

- a. Assign FICE Code and identification number to each record.
- b. Set up receipt control file.
- c. Write receipt control system data entry and inquiry procedures.
- d. Program report on nonrespondents.
- e. Program response rate reports.

2. Questionnaire Edit/Update Subsystem.

This subsystem processed approximately 500 characters of data for each questionnaire and was designed to carry out the following functions.

- o Convert encoded/manually edited questionnaires to survey records (i.e., data entry).
- o Perform data field range edits and logical cross-edits, identifying erroneous fields.
- o Insert error-free survey records into the master file.
- o Allow for the correction and re-editing of survey records found to contain erroneous data values.

- o Provide for a statistical evaluation of survey data.
- o Provide a mechanism for changing data values on the master file (e.g., assigning fields imputed values), or for deleting survey records from the master file.
- o Perform range and logical cross edits when data values are being changed, identifying erroneous changes.
- o Produce edit and update reports for auditing purposes.

All survey data was be entered on-line via TSO, machine edited, and added to the master file via batch SAS programs.

The specific subtasks involved in the development of the Edit/Update Subsystem were as follows:

- a. Revise proposed master record layout according to CS comments and any other plans for statistical analysis.
- b. Design pretest input data records.
- c. Develop data entry procedures.
- d. Code and test CLISTS or utility programs designed to streamline procedures.
- e. Design change transaction records.
- f. Write specifications, code and test edit program for pretest.
- g. Write specifications, code, and test update program.
- h. Upon approval by CS, design and program on-line data entry, edit, and update subsystem.
- i. Code and test SAS programs to analyze survey data.
- j. Mailout of pretest survey data.
- k. Enter and analyze pretest data.
- l. Change survey data values by inserting imputed values.
- m. NCES approval of final editing specifications.
- n. Finalize master record layout.
- o. Modify edit/update programs according to final edit specifications.

- p. Document final survey record layout, valid data values and meanings, and variable names.
- q. Mailout of 18,000 survey forms.
- r. Entry and analysis of survey data.
- s. Make changes to survey data in the form of corrections or imputed values.

The Edit/Update subsystem consisted of two stages of machine editing, a process which can be credited for a relatively low level of errors. Machine editing began with a set of CLISTS which checked data as they were entered by key operators. Out of scope data or data found to be out of range were automatically rejected at the time of entry. A full screen CRT program displayed all questions and provided a fixed format for data entry. Operators entered data for all questions directly from the questionnaire. The data entry operators were continuously monitored to assure that data were entered properly. Monitoring took place unannounced on a daily basis by the Project Director and the Survey Operations Supervisor.

Because it was found that online operations were quite slow during the daytime hours, operators were scheduled for evening and weekend hours in order to assure timely entry of all data.

The customized full-screen data entry system used for the first stages of edit and file update also automatically stored daily files for each operator. In addition to providing a record of each operator's performance, these procedures also made for a smoother file update procedure. The master file was updated about once a week, and a more comprehensive edit and validation program was produced using SAS.

The SAS edit program became the final mechanism for validating the answers to a number of key questions. The most important of these checks were those that were carried out to assure that questions 13, 14, 24, and 28 appeared consistent with each other.

3. Statistical Tables Subsystem.

This subsystem used the survey master file to produce 20 tables of data as specified by CS, in rough draft and camera-ready form. A set of SAS programs was used to generate the tables, with the tables printed on an impact or laser printer. Two sets of these tables were produced, one showing the unweighted values, the other the weighted values for each of the required variables.

4. Data Security Subsystem.

The functions of this subsystem were to:

- o Provide for the integrity of the survey data.
- o Provide for the recovery or recreation of survey data files and program software.

Security software at EDS was used to allow the updating of survey data only by designated batch jobs (or by authorized logon ID's). All other access to the master file was read-only.

Tape backups of the master file were created after each update cycle. Transaction files were not deleted until the correctness of each update cycle had been verified.

Periodic backups of the program software, JCL procedures, and production parameter files were also created. All intermediate backups were deleted at the end of the project.

VII. WEIGHTS AND VARIANCES

A. Weighting Procedures

The weighting procedures for the 1985 Recent College Graduates Survey used the ratio estimation method. First, a simple unbiased estimator was developed by creating a weight that is the inverse of the probability of selection of the graduate. This weight is the inverse of the product of the probability of selecting the institution, the probability of selecting a graduate from within the institution, and the probability of subsampling the graduate for intensive followup. The probability of selecting the graduate from the institution varied by the degree, major, and Hispanic surname of the graduates in the institution. The third factor, the probability of subsampling the graduate, accounts for the one-third subsample of nonrespondents that was chosen to help mitigate the effect of nonresponse.

The second step in forming the ratio estimator was the development of the ratio adjustment factors based upon the 1982-83 HEGIS graduate totals. The unbiased estimates by degree, sex, and selected majors were compared to the HEGIS totals and ratio adjustment factors were prepared. These factors account for the graduate nonresponse and will reduce the variance of many estimates. Since the deceased and foreign students are considered out of the scope of this survey the HEGIS totals were reduced by sample estimates of these graduates before the ratios were developed. The tables of HEGIS totals and the resultant ratio adjustment factors are attached.

The ratio estimator was then formed by simply multiplying the unbiased weight by the appropriate ratio adjustment factor. This weight is called "finalwgt" on the computer file. It is the weighting factor that should be used in preparing estimates from this survey.

Table 1

Number of Graduates from 1982-83 HEGIS by Degree, Sex, and Major

<u>Major</u>	<u>Bachelor</u>		<u>Master</u>	
	<u>Male</u>	<u>Female</u>	<u>Male</u>	<u>Female</u>
Business	131,675	95,170	46,457	18,862
Computer Science	15,603	8,903	3,813	1,508
Education	23,670	74,321	23,232	61,621
Engineering	78,423	11,065	17,553	1,797
Health	10,204	54,410	4,232	12,836
Letters	15,537	23,689	2,681	4,177
Mathematics	6,995	5,458	1,858	979
Physical Sciences	16,884	6,350	4,146	1,131
Social Sciences	52,708	42,380	6,916	4,196
All Other	127,437	168,624	33,809	38,117

Table 2

Ratio Adjustment Factors used in 1985 Recent College Graduate Survey

<u>Major</u>	<u>Bachelor</u>		<u>Master</u>	
	<u>Male</u>	<u>Female</u>	<u>Male</u>	<u>Female</u>
Business	1.876	1.432	1.925	1.265
Computer Science	1.822*	1.765*	1.805*	1.959*
Education	2.090	1.613	1.888	1.878
Engineering	1.664	1.303	1.805*	1.959*
Health	2.036	1.482	1.805*	1.959*
Letters	2.020	1.541	1.805*	1.959*
Mathematics	1.643	1.354	1.805*	1.959*
Physical Sciences	1.636	1.362	1.805*	1.959*
Social Sciences	1.958	1.523	1.805*	1.959*
All Other	1.822*	1.765*	1.805*	1.959*

* Indicates that these degree, majors and sex graduates were combined to form ratio adjustment

B. Imputation Procedures

Imputation is a process of assigning values for those questions left blank that should have been answered by a respondent. The method used in the Survey of Recent College Graduates was hot-deck imputation. When this procedure failed to provide an appropriate match, deductive imputation was employed. Another potential problem with the hot-deck procedure is multiple use of donors. We were able to use unique donors for all but three individual imputations. In those cases donor use was limited to one repetition.

Six basic variables were used as matching variables: major, occupation, FICE (institution identification code), sex, race and age. Bachelors and masters were separated into two files. Various sorts on all or some of these variables were used in order to find item-appropriate donors. All imputed values were flagged.

Item nonresponse occurred for four of the basic variables: race, age, major and occupation. The one record with no response for major was assigned the major listed on that graduate's questionnaire label. The values for any of the remaining three basic variables were imputed using a sort order of FICE, major and sex.

Questions from the General Information section (Q9a, Q9b, and Q12) which were left blank were imputed using a sort order of FICE, major, race, sex, age and occupation. In two instances recipients were matched with donors from a different imputation class because of differing FICE codes. Unreasonable imputed responses occurred which were re-imputed using a more appropriate donor from the recipient's imputation class.

Questions from the Job Information section were imputed using a sort order which was the reverse of that used in the previous section, i.e., occupation, age, sex, race, major and FICE. The questions for which a missing response

was to be imputed included Q15, Q16a, Q16b, Q17, Q18, Q20, Q21a, Q21b, Q21c, Q23a, and Q23b. With the exception of Q17, questions in this section with multiple parts (Q16, Q21, and Q12) had been left blank in all parts when nonresponse occurred. Thus, all parts of these questions were imputed together. Some graduates indicated a time period for pay rate (Q17) but did not provide a dollar amount. If the dollar amount was missing, both dollars and time period were imputed together, overwriting the respondent's indication of time period if necessary. Unreasonable imputed responses occurred once for Q17 and once for Q20 because of change in occupation between donor and recipient. Re-imputation using a more compatible donor was performed.

Questions in the Job Information section were filled in only by the employed. It was determined that a more accurate estimate of graduates who were newly qualified to teach (NQT) could be made by imputing responses to Q23a and Q23b for those unemployed but licensed or eligible to teach during the week of April 29, 1985 (Q24a = 1). To accomplish this imputation, the files were sorted by age, sex, major and race. Six potential donors were identified for each recipient. After selecting the most compatible donor with Q24a = 1, both Q23a and b were imputed together.

Imputations for questions from the Preparation to Teach section (Q24b, Q24c, Q26, Q29a, Q29b, Q31, Q32 and Q38) were accomplished using the same sort order as that used for the General Information section, i.e., FICE, major, race, sex, age, and occupation. Responses to Q24b, Q24c, and Q26 were computed only if Q24 = 1. Q29a and Q29b were imputed only if Q28 = 3 and Q30 was blank. One bachelor record requiring imputations for Q29a and Q29b was completed manually as this was the first record in the file and thus no donor was identified.

Responses for missing answers to Q31, Q32, and Q38 were imputed when Q28 = 1. In imputing Q32, respondents and donors were also matched on their response to Q31. Similarly, donors and respondents were matched on their response to Q36 in imputing answers to Q38.

The journal of imputations records the imputations that were performed. Included are the computed values and the number of times a record has been used as the donor for that variable. Additionally, any relevant responses to other questions for both recipient (listed first) and donor are provided. Finally, the level at which the sort was broken between donor and recipient is indicated in each instance.

C. Variance Estimation

The variances for the 1985 Recent College Graduates Survey (RCGS) were estimated using the technique known as balanced repeated replications (BRR). This method was applied to the survey by setting up half samples which mirrored the full sample as closely as possible and estimating the variance of the statistics from the full sample by the deviations in the half sample estimates.

The half samples were created by first pairing non-certainty institutions according to the sampling plan. Since a systematic sample within stratum was chosen, the pairs of non-certainty institutions were constructed by putting together the sample institutions in the order of sample selection. The certainty institutions (those chosen with probability equal to unity) were considered to be a stratum and the graduates with the institution were paired by the student identification number assigned at the time of sampling.

Half samples were then created using an orthogonal 32x32 matrix which chooses one of the pairs in each of the 32 psuedostrata to be in that half sample. This method of choosing half samples (where the term balanced comes from) has some nice statistical properties for linear estimators.

The estimation procedure used for the full sample was then applied to each of the 32 half samples. The only difference was that the modification in the HEGIS totals for deceased and foreign students was considered to be fixed and did not vary by half sample. The 32 replicate weights were then appended to each respondent's record so that the half sample estimates could be computed.

The SAS procedure called PROC NASSVAR can be used to compute estimates of the variability of the estimates. Other similar packages could also be used, such as PROC BRRVAR, which is simply a modification of the other procedure. Attached is an example of the computation of the sampling errors for the estimated number of graduates who were newly qualified to teach, the number of those graduates who did not apply to teach, and the percent of those who did not apply to teach.

User Notes

The following notes describe some items or codes not covered in Part IV of this document:

1. The code "0" was coded to mean "not applicable" or "legitimate skip" for all items on pages 3 thru 42 of part IV. If a field is 2 positions then a "00" was coded. If a field was an amount field (ex. \$\$\$) a "0" was coded and right justified. The term "not applicable" or "legitimate skip" apply to respondents who do not have to answer certain questions. For example a respondent who answered "2" not employed to question 13 does not answer questions 14 thru 23 and thus will have zeros coded.
2. For all questions of the type "circle or check all that apply" a "0" or "00" is coded to mean "NO". For example question 8c data field name q8c1 on page 7, a "0" would mean "no, not a home language". Question 24c, 25, 31, 35a, 35d, and 38 are of the same type.
3. On pages 43 thru 49 are the imputation flag variables. A "1" is coded to mean record was imputed for this item and a "blank" means this item was not imputed.
4. On page 49 data element ptft85 = "0" means "not working".
5. To get the salary of a record use the computed salary found on page 50 and "do not use" question 17 items q17pr and q17dd to compute salary.

DATA BASE DOCUMENTATION

LEGEND
DATA ELEMENT TYPE STANDARDS

1 Reserved

AN - Alphanumeric, left justified, space filled

N - Numeric display, right justified, leading zeros

PART IV - DATA ELEMENT DESCRIPTION

TITLE

1985 Survey of 1983-84 College Graduates

FILE NAME
XEERSY.NCES85.RCG83-84.DATA

DATA FIELD NAME <i>(a)</i>	DATA ELEMENT TYPE <i>(b)</i>	RECORD POSITION <i>(from-to)</i> <i>(c)</i>	NUMBER OF POSITIONS <i>(d)</i>	SOURCE LOCATION <i>(e)</i>	DESCRIPTION <i>(f)</i>	
FICE	N	001-005	5	Quex.	Unique Institutional ID number	
FICEID	N	006-013	8	Quex.	Student ID number within FICE code	
LDEG	N	014	1	Survey Control File	Degree respondent was sampled for 1 = Bachelors 2 = Masters	
LMAJOR	N	015-018	4	Survey Control File	Major field respondent was sampled for (see attachment 2)	
HISP	N	019	1	Survey Control File	Hispanic respondent 1 = Yes 2 = No	

DATA BASE DOCUMENTATION

LEGEND
DATA ELEMENT TYPE STANDARDS

Reservel

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PART IV - DATA ELEMENT DESCRIPTION

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TBI	N	020	1	Survey Control File	Traditionally Black Institution respondent 1 = Yes 2 = No
LCHG	N	021	1	Quex.	Label information corrections 1 = Label correct 2 = Label changed
OLDDEG	N	022	1	Quex.	Original Degree 1 = Bachelors 2 = Masters
OLDFICE	N	023-027	5	Survey Control File	Original Institution (FICE code) for one third sample

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					<i>(f)</i>
Q1BYN	N	028	1	Quex.	Did you obtain degree between 7/1/83 and 6/30/84 1 = Yes 2 = No
Q1BMO	N	029-030	2	Quex.	Month degree received 01-02 = Month
Q1BYR	N	031-032	2	Quex.	Year degree received 83-84 = year
Q2MAJ	N	033-036	4	Quex.	Major field of study (see attachment 2)

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1985 Survey of 1983-84 College Graduates						XEERSY.NCES85.RCG83-84.DATA
Q3SEX	N	037		1	Quex.	Sex type 1 = Male 2 = Female
Q4	N	038		1	Quex.	Marital status 1 = Married, living with spouse 2 = Other 9 = No response
Q5RACE	N	039		1	Quex.	Race/Ethnic Group 1 = White, not of Hispanic origin 2 = Black, not of Hispanic origin 3 = Hispanic 4 = Asian or Pacific Islander 5 = American Indian or Alaskan 9 = No response

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Q6AGE	N	040-041	2	Quex.	What was your age on your last birthday?	01-99
Q7	N	042	1	Quex.	Does your father or mother have a college degree?	<p>1 = Yes 2 = No 3 = Don't know 9 = No response</p>
Q8A	N	043	1	Quex.	Do you speak any language fluently other than English?	<p>1 = Yes 2 = No 9 = No response</p>

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Q8B	N	044-045	2	Quex.	<p>What language other than English do you speak?</p> <ul style="list-style-type: none"> 01 = Arabic 02 = Chinese 03 = Dutch 04 = French 05 = German 06 = Hindustani 07 = Hungarian 08 = Italian 09 = Japanese 10 = Javanese 11 = Korean 12 = Polish 13 = Portuguese 14 = Russian 15 = Sinhalese 16 = Spanish 17 = Swahili 18 = Swedish 19 = Vietnamese 20 = Other

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					Q8C:	How did you learn the language indicated in Q8b?
Q8C1	N	046	1	Quex.	Q8C1	= 1 = home language
Q8C2	N	047	1	Quex.	Q8C2	= 2 = learned it from friends
Q8C3	N	048	1	Quex.	Q8C3	= 3 = studied it in high school or college in this country
Q8C4	N	049	1	Quex.	Q8C4	= 4 = learned it in high school or college where it is spoken
Q8C5	N	050	1	Quex.	Q8C5	= 5 = learned it during residence in country where it is spoken

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DATA FIELD NAME	DATA ELEMENT TYPE	RECORD POSITION (from 1 to)	NUMBER OF POSITIONS	SOURCE LOCATION	DESCRIPTION
(a)	(b)	(c)	(d)	(e)	(f)
Q8C6	N	051	1	Quex.	<p>Q8C6 = 6 = Other</p> <p>1 = Yes (full-time) 2 = Yes (part-time) 3 = No 9 = No response</p>
Q9A	N	052	1	Quex.	<p>Were you enrolled in a college or university during the period of January - February 1985?</p> <p>1 = Yes (full-time) 2 = Yes (part-time) 3 = No 9 = No response</p>
Q9B	N	053	1	Quex.	<p>During this enrollment, were you working toward another degree?</p> <p>1 = Yes 2 = No 9 = No response</p>

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<i>(I)</i>	<i>(II)</i>	<i>(III)</i>	<i>(IV)</i>	<i>(V)</i>	<i>(VI)</i>
					Q10: Financial aid received for the last year of education for the degree
Q10L1	N	054	1	Quex.	Veterans administration war orphans 1 = Yes 2 = No 9 = No response
Q10L2	N	055	1	Quex.	V.A. Direct Benefit (G.I. Bill) 1 = Yes 2 = No 9 = No response
Q10L3	N	056	1	Quex.	Pell Grants 1 = Yes 2 = No 3 = No response

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<i>(a)</i>	<i>(b)</i>	<i>(c)</i>	<i>(d)</i>	<i>(e)</i>	<i>(f)</i>
Q10L4	N	057	1	Quex.	Supplemental Education Opportunity Grant 1 = Yes 2 = No 9 = No response
Q10L5	N	058	1	Quex.	R.O.T.C. scholarship or stipend 1 = Yes 2 = No 9 = No response
Q10L6	N	059	1	Quex.	Federal Work Study program 1 = Yes 2 = No 9 = No response

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					<i>(f)</i>	<i>(g)</i>
Q10L7	N	060	1	Quex.	Bilingual Education Grant	 1 = Yes 2 = No 9 = No response
Q10L8	N	061	1	Quex.	Other Federal Grant	 1 = Yes 2 = No 9 = No response
Q10L9	N	062	1	Quex.	College or University Grant	 1 = Yes 2 = No 9 = No response

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					<i>(iii)</i>
Q1OL10	N	063	1	Quex.	<p>Assistantship</p> <p>1 = Yes 2 = No 9 = No response</p>
Q1OL11	N	064	1	Quex.	<p>State Grant</p> <p>1 = Yes 2 = No 9 = No response</p>
Q1OL12	N	065	1	Quex.	<p>Other Fellowship or Grant</p> <p>1 = Yes 2 = No 9 = No response</p>

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Q10L13	N	066	1	Quex.	<p>National Direct Student Loan</p> <p>1 = Yes 2 = No 9 = No response</p>
Q10L14	N	067	1	Quex.	<p>Guaranteed Student Loan (FLSL)</p> <p>1 = Yes 2 = No 9 = No response</p>
Q10L15	N	068	1	Quex.	<p>Bilingual Education Loan</p> <p>1 = Yes 2 = No 9 = No response</p>

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Q1OL16	N	069	1	Quex.	Other Federal Loan	
					1 = Yes	
					2 = No	
					9 = No response	
Q1OL17	N	070	1	Quex.	College or University Loan	
					1 = Yes	
					2 = No	
					9 = No response	
Q1OL18	N	071	1	Quex.	State Loan	
					1 = Yes	
					2 = No	
					9 = No response	

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	(I)	(II)	(III)	(IV)	(V)	(VI)
1985 Survey of 1983-84 College Graduates						XEERSY.NCES85.RCG83-84.DATA
Q10L19	N	072	1	Quex.	Regular Bank Loan 1 = Yes 2 = No 9 = No response	
Q10L20	N	073	1	Quex.	Relatives or Friends 1 = Yes 2 = No 9 = No response	
Q10L21	N	074	1	Quex.	Other Loan 1 = Yes 2 = No 9 = No response	

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Q11YN	N	075	1	Quex.	Did you have any debt directly related to your education?	 1 = Yes 2 = No 9 = No response
Q11DD	N	076-081	6	Quex.	1-999999 = Amount Owed 999999 = No response	
Q12	N	082	1	Quex.	Grades of the undergraduates work	 1 = Mostly A 2 = Half A, Half B 3 = Mostly B 4 = Half B, Half C 5 = Mostly C 6 = Half C, Half D 7 = Mostly D or below 8 = Have not taken course for which grades were given 9 = No response

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Q13	N	083	1	Quex.	Were you employed for pay during the week of April 29, 1985?	<p>1 = Yes 2 = No 9 = No response</p>
Q14A	N	084-087	4	Quex.	Industry classification (see attachment 3)	
Q14B	N	088-091	4	Quex.	Job classification (see attachment 4)	155-159
Q14C	N	092-095	4	Quex.	Job activities (see attachment 4)	

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PART IV - DATA ELEMENT DESCRIPTION

TITLE					FILE NAME
DATA FIELD NAME	DATA ELEMENT TYPE	RECORD POSITION (lmm-mm)	NUMBER OF POSITIONS	SOURCE LOCATION	DESCRIPTION
#	(b)	(c)	(d)	(e)	(f)
Q15	N	096	1	Quex.	Type of firms 1 = Private company 2 = Federal Gov't. employee 3 = State Gov't employee 4 = Local Gov't. employee 5 = Own business, not incorporated 6 = Own business, incorporated 7 = Other 9 = No response
Q16A	N	097-098	2	Quex.	01-98 = Hours per week 99 = No response
Q16B	N	099	1	Quex.	Full-time? 1 = Yes 2 = No, but wanted full time work 3 = No, did not want full time work 9 = No response

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<i>m</i>	<i>l</i>	<i>k</i>	<i>l</i>	<i>m</i>	<i>n</i>	<i>n</i>
Q17PR	N	100	1	Quex.	Pay rate classification	<p>1 = Per year 2 = Per month 3 = Per week 4 = Per day 5 = Per hour 9 = No response</p>
Q17DD	N	101-106	6	Quex.	1-999998 = Pay dollar amount 999999 = No response	
Q18	N	107	1	Quex.	Degree required to obtain job?	<p>1 = Yes 2 = No 3 = Don't know 9 = No response</p>

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<i>(I)</i>	<i>(II)</i>	<i>(III)</i>	<i>(IV)</i>	<i>(V)</i>	<i>(VI)</i>
Q19A	N	108	1	Quex.	<p>Work related to major?</p> <p>1 = Closely related 2 = Somewhat related 3 = Not related 9 = No response</p>
Q19B	N	109	1	Quex.	<p>Reason took a job not related to major field?</p> <p>1 = Could not find job in my field 2 = Pay is better than job in my field 3 = Better opportunity for advancement than in my field 4 = Wanted to see if I liked this kind of work 5 = Opportunity to help people or be useful to society 6 = Wanted to work in manual occupation 7 = Other 9 = No response</p>

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	(I)	(II)	(III)	(IV)	(V)	(VI)
Q20	N	110	1	Quex.	How job regarded? 1 = Job with possible career potential 2 = Job with definite career potential 3 = Temporary job until a better one could be found 4 = Temporary job while waiting to report to a new job 5 = Temporary job to earn money to do something else 6 = Job to earn money while deciding what kind of work I wanted 9 = No response	
Q21A	N	111	1	Quex.	Did you work for pay at a second job during the week of April 29, 1985? 1 = Yes 2 = No 9 = No response	

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(I)	(II)	(III)	(IV)	(V)	(VI)
Q21B	N	112	1	Quex.	Was this second job that of a teacher? 1 = Yes 2 = No 9 = No response
Q21C	N	113	1	Quex.	Was the second job teaching in a public or private school? 1 = Public 2 = Private 3 = Both 9 = No response
Q22YN	N	114	1	Quex.	Full-time work experience prior to receiving degree? 1 = Yes 2 = No 9 = No response

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<i>(I)</i>	<i>(II)</i>	<i>(III)</i>	<i>(IV)</i>	<i>(V)</i>	<i>(VI)</i>
Q22YR	N	115-116	2	Quex.	01-98 = Number of years 99 = No response
Q23A	N	117	1	Quex.	Employed as a teacher prior to degree? 1 = Yes 2 = No 9 = No response
Q23B	N	118	1	Quex.	Was this teaching full-time or part-time? 1 = Full-time 2 = Part-time 3 = Don't know 9 = No response

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	<i>(a)</i>	<i>(b)</i>	<i>(c)</i>	<i>(d)</i>	<i>(e)</i>	<i>(f)</i>
Q24A	N	119	1	Quex.	Certificate/License/Eligible 1 = Yes 2 = No 3 = Don't know 9 = No response	
Q24B	N	120	1	Quex.	When did you first become eligible? 1 = Before July 1, 1983 2 = July 1, 1983 thru June 30, 1984 3 = After June, 1984 9 = No response	

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Q24C	N	121-122	2	Quex.	Q24C: Grades that you are eligible or certified to teach	
Q24CPK	N	123-124	2	Quex.	Q24CPK = PK = Prekindergarten	
Q24CKK	N	125-126	2	Quex.	Q24CKK = KK = Kindergarten	
Q24C01	N	127-128	2	Quex.	Q24C01 = 01 = First	
Q24C02	N	129-130	2	Quex.	Q24C02 = 02 = Second	
Q24C03	N	131-132	2	Quex.	Q24C03 = 03 = Third	
Q24C04	N	133-134	2	Quex.	Q24C04 = 04 = Fourth	
Q24C05	N	135-136	2	Quex.	Q24C05 = 05 = Fifth	
Q24C06	N	137-138	2	Quex.	Q24C06 = 06 = Sixth	
Q24C07	N	139-140	2	Quex.	Q24C07 = 07 = Seventh	
Q24C08	N	141-142	2	Quex.	Q24C08 = 08 = Eight	
Q24C09	N	143-144	2	Quex.	Q24C09 = 09 = Ninth	
Q24C10	N				Q24C10 = 10 = Tenth	

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					DESCRIPTION	
Q24C11	N	145-146	2	Quex.	Q24C11 = 11 = Eleventh	
Q24C12	N	147-148	2	Quex.	Q24C12 = 12 = Twelfth	
Q24CUG	N	149-150	2	Quex.	Q24CUG = UG = Ungraded	
					Q25A: Fields of eligibility or certification to teach	
Q25A01	N	151-152	2	Quex.	Q25A01 = 01 = General certificate	
Q25A02	N	153-154	2	Quex.	Q25A02 = 02 = Art	
Q25A03	N	155-156	2	Quex.	Q25A03 = 03 = Bilingual Education	
Q25A04	N	157-158	2	Quex.	Q25A04 = 04 = Biological Sciences	
Q25A05	N	159-160	2	Quex.	Q25A05 = 05 = Business	
Q25A06	N	161-162	2	Quex.	Q25A06 = 06 = English Language Arts	
Q25A07	N	163-164	2	Quex.	Q25A07 = 07 = Foreign Languages	
Q25A08	N	165-166	2	Quex.	Q25A08 = 08 = Health	
Q25A09	N	167-168	2	Quex.	Q25A09 = 09 = Home Economics	

AN - Alphanumeric, left justified, space filled

N - Numeric display, right justified, leading zeros

TITLE

PART IV - DATA ELEMENT DESCRIPTION

DATA FIELD NAME #	DATA ELEMENT TYPE #	RECORD POSITION (from-to) #	NUMBER OF POSITIONS #	SOURCE LOCATION #	FILE NAME XEERSY.NCES85.RCG83-84.DATA	DESCRIPTION #
					FILE NAME XEERSY.NCES85.RCG83-84.DATA	
Q25A10	N	169-170	2	Quex.	Q25A10 = 10 = Industrial Arts	
Q25A11	N	171-172	2	Quex.	Q25A11 = 11 = Mathematics	
Q25A12	N	173-174	2	Quex.	Q25A12 = 12 = Music	
Q25A13	N	175-176	2	Quex.	Q25A13 = 13 = Physical Sciences	
Q25A14	N	177-178	2	Quex.	Q25A14 = 14 = Physical Education	
Q25A15	N	179-180	2	Quex.	Q25A15 = 15 = Pre-Elementary Education	
Q25A16	N	181-182	2	Quex.	Q25A16 = 16 = Reading	
Q25A17	N	183-184	2	Quex.	Q25A17 = 17 = Social Science/Social Studies	
Q25A18	N	185-186	2	Quex.	Q25A18 = 18 = Mentally Retarded	
Q25A19	N	187-188	2	Quex.	Q25A19 = 19 = Hearing Impaired	
Q25A20	N	189-190	2	Quex.	Q25A20 = 20 = Speech Impaired	
Q25A21	N	191-192	2	Quex.	Q25A21 = 21 = Seriously Emotionally Disturbed	
Q25A22	N	193-194	2	Quex.	Q25A22 = 22 = Specific Learning Disability	
Q25A23	N	195-196	2	Quex.	Q25A23 = 23 = General Certificate	

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N - Numeric display, right justified, leading zeros

TITLE

PART IV - DATA ELEMENT DESCRIPTION

1985 Survey of 1983-84 College Graduates

FILE NAME
XEERSY.NCES85.RCG83-84.DATA

DATA FIELD NAME <i>(#)</i>	DATA ELEMENT TYPE <i>(A)</i>	RECORD POSITION <i>(l/mn/r)</i>	NUMBER OF POSITIONS <i>(n)</i>	SOURCE LOCATION <i>(r)</i>	DESCRIPTION <i>(#)</i>	
					DESCRIPTION	DEFINITION
Q25A24	N	197-198	2	Quex.	Q25A24 = 24 = Other Specification Education	
Q25A25	N	199-200	2	Quex.	Q25A25 = 25 = Vocational Education	
Q25A26	N	201-202	2	Quex.	Q25A26 = 26 = Other	
Q25BYN	N	203	1	Quex.	Eligible or certified to teach in more than one field?	
					1 = Yes	
					2 = No	
					9 = No response	
Q25BFL	N	204-205	2	Quex.	Specify best field of Q25A	
Q26	N	206	1	Quex.	Taught prior to receiving degree	
					1 = Applied only, did not teach	
					2 = Taught	
					3 = Did not apply	
					9 = No response	

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PART IV - DATA ELEMENT DESCRIPTION

TITLE						FILE NAME
	DATA FIELD NAME	DATA ELEMENT TYPE	RECORD POSITION (from-to)	NUMBER OF POSITIONS	SOURCE LOCATION	
#	(#)	(#)	(#)	(#)	(#)	(#)
Q27	N	207	1	Quex.	Why not apply job? 1 = I needed another degree 2 = I wasn't ready to apply for a job 3 = Teaching jobs were hard to get 4 = Practice teaching discourage me 5 = Received a better job offer 6 = Didn't like pay and teaching condition 7 = Was never interested in teaching 8 = Other 9 = No response	
Q28	N	208	1	Quex.	Teaching job during week of April 29, 1985? 1 = Yes 2 = No 3 = Not working during week of April 29, 1985 9 = No response	

DATA BASE DOCUMENTATION

LEGEND
DATA ELEMENT TYPE STANDARDS

1 Recd

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N - Numeric display, right justified, leading zeros

TITLE

PART IV - DATA ELEMENT DESCRIPTION

1985 Survey of 1983-84 College Graduates

FILE NAME
XEERSY.NCES85.RCG83-84.DATA

DATA FIELD NAME <i>(a)</i>	DATA ELEMENT TYPE <i>(b)</i>	RECORD POSITION <i>(from-to)</i> <i>(c)</i>	NUMBER OF POSITIONS <i>(d)</i>	SOURCE LOCATION <i>(e)</i>	DESCRIPTION <i>(f)</i>
Q29A	N	209	1	Quex.	<p>Did you look for work between April 8, 1985 and May 3, 1985?</p> <p>1 = Yes 2 = No 9 = No response</p>
Q29B	N	210	1	Quex.	<p>Were you available for work during the week of April 29, 1985?</p> <p>1 = Yes 2 = No 9 = No response</p>
Q30	N	211	1	Quex.	<p>Reason not working during the week of April 29, 1985?</p> <p>1 = Going to school 2 = Had family responsibilities 3 = Could not find job I wanted 4 = Did not want to work 5 = New Job 6 = Laid off 7 = Other 9 = No response</p>

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PART IV - DATA ELEMENT DESCRIPTION

TITLE

1985 Survey of 1983-84 College Graduates

FILE NAME
XEERSY.NCES85.RCG83-84.DATA

DATA FIELD NAME <i>(I)</i>	DATA ELEMENT TYPE <i>(H)</i>	RECORD POSITION <i>(from-to)</i> <i>(L)</i>	NUMBER OF POSITIONS <i>(D)</i>	SOURCE LOCATION <i>(R)</i>	DESCRIPTION <i>(P)</i>	
					Q31A1	Q31A2
Q31A1	N	212	1	Quex.	Q31: Type of school Q31A1 = 1 = Public school (operated by a local school district)	Q31A2
Q31A2	N	213	1	Quex.	Q31A2 = 2 = Public school (operated by a State or Federal Agency)	
Q31A3	N	214	1	Quex.	Q31A3 = 3 = Private school (religiously affiliated school)	
Q31A4	N	215	1	Quex.	Q31A4 = 4 = Private school (non-religious affiliated school)	

DATA BASE DOCUMENTATION

LEGEND
DATA ELEMENT TYPE STANDARDS

1 Reserve

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PART IV - DATA ELEMENT DESCRIPTION

TITLE						FILE NAME
	1985 Survey of 1983-84 College Graduates					
DATA FIELD NAME	DATA ELEMENT TYPE	RECORD POSITION <i>(from-to)</i>	NUMBER OF POSITIONS	SOURCE LOCATION	DESCRIPTION	
<i>(a)</i>	<i>(b)</i>	<i>(c)</i>	<i>(d)</i>	<i>(e)</i>	<i>(f)</i>	<i>(g)</i>
					Q32: Grades that you were actually teaching during the week of April 29, 1985?	
Q32BPK	N	216-217	2	Quex.	Q32BPK = PK = Prekindergarten	
Q32BKK	N	218-219	2	Quex.	Q32BKK = KK = Kindergarten	
Q32B01	N	220-221	2	Quex.	Q32B01 = 01 = First	
Q32B02	N	222-223	2	Quex.	Q32B02 = 02 = Second	
Q32B03	N	224-225	2	Quex.	Q32B03 = 03 = Third	
Q32B04	N	226-227	2	Quex.	Q32B04 = 04 = Fourth	
Q32B05	N	228-229	2	Quex.	Q32B05 = 05 = Fifth	
Q32B06	N	230-231	2	Quex.	Q32B06 = 06 = Sixth	

DATA BASE DOCUMENTATION

LEGEND
DATA ELEMENT TYPE STANDARDS

(Reserve)

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PART IV - DATA ELEMENT DESCRIPTION

TITLE

1985 Survey of 1983-84 College Graduates

FILE NAME
XEERSY.NCES85.RCG83-84.DATA

DATA FIELD NAME <i>(a)</i>	DATA ELEMENT TYPE <i>(b)</i>	RECORD POSITION <i>(from-to)</i> <i>(c)</i>	NUMBER OF POSITIONS <i>(d)</i>	SOURCE LOCATION <i>(e)</i>	DESCRIPTION <i>(f)</i>	
Q32B07	N	232-233	2	Quex.	Q32B07 = 07 = Seventh	
Q32B08	N	234-235	2	Quex.	Q32B08 = 08 = Eight	
Q32B09	N	236-237	2	Quex.	Q32B09 = 09 = Ninth	
Q32B10	N	238-239	2	Quex.	Q32B10 = 10 = Tenth	
Q32B11	N	240-241	2	Quex.	Q32B11 = 11 = Eleventh	
Q32B12	N	242-243	2	Quex.	Q32B12 = 12 = Twelfth	
Q32BUG	N	244-245	2	Quex.	Q32BUG = UG = Ungraded	

DATA BASE DOCUMENTATION

LEGEND
DATA ELEMENT TYPE STANDARDS
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(Reserv)

PART IV - DATA ELEMENT DESCRIPTION

TITLE						FILE NAME
	DATA FIELD NAME	DATA ELEMENT TYPE	RECORD POSITION (from to)	NUMBER OF POSITIONS	SOURCE LOCATION	DESCRIPTION
(I)	(II)	(III)	(IV)	(V)	(VI)	(VII)
Q33	N	246	1	Quex.	Which statement best describes your decision to become a teacher? 1 = Have always wanted to be a teacher 2 = Like to work with children 3 = Like job security offered by teaching 4 = Get satisfaction from teaching 5 = Feel the salary from teaching is good 6 = Couldn't find any other job 7 = Other 9 = No response	

DATA BASE DOCUMENTATION

LEGEND
DATA ELEMENT TYPE STANDARDS*(Reserve)*

AN - Alphanumeric, left justified, space filled

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TITLE

PART IV - DATA ELEMENT DESCRIPTION

1985 Survey of 1983-84 College Graduates

FILE NAME
XEERSY.NCES85.RCG83-84.DATA

DATA FIELD NAME <i>(I)</i>	DATA ELEMENT TYPE <i>(II)</i>	RECORD POSITION <i>(from-to)</i> <i>(III)</i>	NUMBER OF POSITIONS <i>(IV)</i>	SOURCE LOCATION <i>(V)</i>	DESCRIPTION <i>(VI)</i>
Q34	N	247	1	Quex.	Are you a self-contained class teacher? 1 = Yes 2 = No 3 = No response
Q35A01	N	248-249	2	Quex.	Q35A01 = 01 = General Certificate
Q35A02	N	250-251	2	Quex.	Q35A02 = 02 = Art
Q35A03	N	252-253	2	Quex.	Q35A03 = 03 = Bilingual Education
Q35A04	N	254-255	2	Quex.	Q35A04 = 04 = Biological Sciences
Q35A05	N	256-257	2	Quex.	Q35A05 = 05 = Business
Q35A06	N	258-259	2	Quex.	Q35A06 = 06 = English Language Arts
Q35A07	N	260-261	2	Quex.	Q35A07 = 07 = Foreign Languages
Q35A08	N	262-263	2	Quex.	Q35A08 = 08 = Health

DATA BASE DOCUMENTATION**LEGEND
DATA ELEMENT TYPE STANDARDS***(Reserv)*

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PART IV - DATA ELEMENT DESCRIPTION

TITLE 1985 Survey of 1983-84 College Graduates					FILE NAME XEERSY.NCES85.RCG83-84.DATA
DATA FIELD NAME <i>(I)</i>	DATA ELEMENT TYPE <i>(II)</i>	RECORD POSITION (From-To) <i>(III)</i>	NUMBER OF POSITIONS <i>(IV)</i>	SOURCE LOCATION <i>(V)</i>	DESCRIPTION <i>(VI)</i>
Q35A09	N	264-265	2	Quex.	Q35A09 = 09 = Home Economics
Q35A10	N	266-267	2	Quex.	Q35A10 = 10 = Industrial Arts
Q35A11	N	268-269	2	Quex.	Q35A11 = 11 = Mathematics
Q35A12	N	270-271	2	Quex.	Q35A12 = 12 = Music
Q35A13	N	272-273	2	Quex.	Q35A13 = 13 = Physical Sciences
Q35A14	N	274-275	2	Quex.	Q35A14 = 14 = Physical Education
Q35A15	N	276-277	2	Quex.	Q35A15 = 15 = Pre-Elementary Education
Q35A16	N	278-279	2	Quex.	Q35A16 = 16 = Reading
Q35A17	N	280-281	2	Quex.	Q35A17 = 17 = Social Sciences/Social Studies
Q35A18	N	282-283	2	Quex.	Q35A18 = 18 = Mentally Retarded
Q35A19	N	284-285	2	Quex.	Q35A19 = 19 = Hearing Impaired
Q35A20	N	286-287	2	Quex.	Q35A20 = 20 = Speech Impaired

DATA BASE DOCUMENTATION

LEGEND
DATA ELEMENT TYPE STANDARDS

1 Reserved

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PART IV - DATA ELEMENT DESCRIPTION

TITLE						FILE NAME
	DATA FIELD NAME	DATA ELEMENT TYPE	RECORD POSITION (from-to)	NUMBER OF POSITIONS	SOURCE LOCATION	
	(b)	(c)	(d)	(e)	(f)	(g)
Q35A21	N	288-289	2	Quex.	Q35A21 = 21 = Seriously Emotionally Disturbed	
Q35A22	N	290-291	2	Quex.	Q35A22 = 22 = Specific Learning Disability	
Q35A23	N	292-293	2	Quex.	Q35A23 = 23 = General Certificate	
Q35A24	N	294-295	2	Quex.	Q35A24 = 24 = Other Special Education	
Q35A25	N	296-297	2	Quex.	Q35A25 = 25 = Vocational Education	
Q35A26	N	298-299	2	Quex.	Q35A26 = 26 = Other Field	
Q35BYN	N	300	1	Quex.	Are you teaching in more than one field? 1 = Yes 2 = No 9 = No response	
Q35BFL	N	301-302	2	Quex.	01-26 = Field taught most of the time	

DATA BASE DOCUMENTATION

LEGEND
DATA ELEMENT TYPE STANDARDS
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(Reserve)

PART IV - DATA ELEMENT DESCRIPTION

TITLE

1985 Survey of 1983-84 College Graduates

FILE NAME

XEERSY.NCES85.RCG83-84.DATA

DATA FIELD NAME <i>(a)</i>	DATA ELEMENT TYPE <i>(b)</i>	RECORD POSITION <i>(from-to)</i> <i>(c)</i>	NUMBER OF POSITIONS <i>(d)</i>	SOURCE LOCATION <i>(e)</i>	DESCRIPTION <i>(f)</i>	
Q35CYN	N	303	1	Quex.	Do you teach any of the fields listed in Q35A in a language other than English?	<p>1 = Yes 2 = No 9 = No response</p>
Q35CFL	N	304-305	2	Quex.	01-26 = What field (Q35A)	

DATA BASE DOCUMENTATION

LEGEND
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1 Reserved

PART IV - DATA ELEMENT DESCRIPTION

TITLE						FILE NAME
	DATA FIELD NAME	DATA ELEMENT TYPE	RECORD POSITION <i>(from-to)</i>	NUMBER OF POSITIONS	SOURCE LOCATION	DESCRIPTION
<i>(a)</i>	<i>(b)</i>	<i>(c)</i>	<i>(d)</i>	<i>(e)</i>	<i>(f)</i>	<i>(f)</i>
Q35CLN	N	306-307	2	Quex.	What language = 01-20? 01 = Arabic 02 = Chinese 03 = Dutch 04 = French 05 = German 06 = Hindustani 07 = Hungarian 08 = Italian 09 = Japanese 10 = Javanese 11 = Korean 12 = Polish 13 = Portuguese 14 = Russian 15 = Sinhalese 16 = Spanish 17 = Swahili 18 = Swedish 19 = Vietnamese	

DATA BASE DOCUMENTATION

LEGEND
DATA ELEMENT TYPE STANDARDS
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(Reserv)

PART IV - DATA ELEMENT DESCRIPTION

TITLE						FILE NAME XEERSY.NCES85.RCG83-84.DATA
	DATA FIELD NAME	DATA ELEMENT TYPE	RECORD POSITION <i>(from 1 to n)</i>	NUMBER OF POSITIONS	SOURCE LOCATION	
<i>(a)</i>	<i>(b)</i>	<i>(c)</i>	<i>(d)</i>	<i>(e)</i>	<i>(f)</i>	<i>(g)</i>
						Q35D: How did you use your ability to teach the language indicated in Q35C?
Q35D1	N	308	1	Quex.	Q35D1 = 1 = Use it for instruction	
Q35D2	N	309	1	Quex.	Q35D2 = 2 = Teach the language arts	
Q35D3	N	310	1	Quex.	Q35D3 = 3 = Teach it as a foreign language	
Q35D4	N	311	1	Quex.	Q35D4 = 4 = Use in informal situations	
Q35D5	N	312	1	Quex.	Q35D5 = 5 = Other	
Q36	N	313	1	Quex.	Do you teach in the field of special education for handicapped students? 1 = Yes 2 = No 9 = No response	

DATA BASE DOCUMENTATION

LEGEND
DATA ELEMENT TYPE STANDARDS

(Reserv)

AN - Alphanumeric, left justified, space filled

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PART IV - DATA ELEMENT DESCRIPTION

TITLE

1985 Survey of 1983-84 College Graduates

FILE NAME

XEERSY.NCES85.RCG83-84.DATA

DATA FIELD NAME <i>(a)</i>	DATA ELEMENT TYPE <i>(b)</i>	RECORD POSITION <i>(from-to)</i> <i>(c)</i>	NUMBER OF POSITIONS <i>(d)</i>	SOURCE LOCATION <i>(e)</i>	DESCRIPTION <i>(f)</i>
Q37A	N	314	1	Quex.	<p>Are you teaching in any class(es) in addition to teaching in a program of special education for handicapped student than in your other class(es)?</p> <p>1 = Yes 2 = No 9 = No response</p>
Q37B	N	315	1	Quex.	<p>Do you spend more of your time teaching in a program of special education for handicapped students than in your other class(es)?</p> <p>1 = Yes 2 = No 9 = No response</p>

DATA BASE DOCUMENTATION

LEGEND
DATA ELEMENT TYPE STANDARDS

(Reserve)

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PART IV - DATA ELEMENT DESCRIPTION

TITLE					FILE NAME
1985 Survey of 1983-84 College Graduates					XEERSY.NCES85.RCG83-84.DATA
DATA FIELD NAME	DATA ELEMENT TYPE	RECORD POSITION (from left)	NUMBER OF POSITIONS	SOURCE LOCATION	DESCRIPTION
(a)	(b)	(c)	(d)	(e)	(f)
					Q38: During the week of April 29, 1985, what was your preparation for teaching handicapped students?
Q38A1	N	316	1	Quex.	Q38A1 = 1 = Formal education
Q38A2	N	317	1	Quex.	Q38A2 = 2 = Other education
Q38A3	N	318	1	Quex.	Q38A3 = 3 = None
Q39	N	319	1	Quex.	How many months per year did you work under your teaching contract for this job? 1 = 9 months 2 = 10 months 3 = 11 months 4 = 12 months 5 = Other 6 = No contract 9 = No response

DATA BASE DOCUMENTATION

LEGEND
DATA ELEMENT TYPE STANDARDS
AN - Alphanumeric, left justified, space filled
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1 Reserved

PART IV - DATA ELEMENT DESCRIPTION

TITLE					FILE NAME
DATA FIELD NAME	DATA ELEMENT TYPE	RECORD POSITION <i>(from-to)</i>	NUMBER OF POSITIONS	SOURCE LOCATION	DESCRIPTION
<i>(a)</i>	<i>(b)</i>	<i>(c)</i>	<i>(d)</i>	<i>(e)</i>	<i>(f)</i>
Imputation flag IQ5RACE	N	320	1	Quex.	1 = This record was imputed for this question
Imputation flag IQ6AGE	N	321	1	Quex.	1 = This record was imputed for this question
Imputation flag IQ9A	N	322	1	Quex.	1 = This record was imputed for this question
Imputation flag IQ9B	N	323	1	Quex.	1 = This record was imputed for this question
Imputation flag IQ12	N	324	1	Quex.	1 = This record was imputed for this question
Imputation flag IQ14B	N	325	1	Quex.	1 = This record was imputed for this question
Imputation flag IQ15	N	326	1	Quex.	1 = This record was imputed for this question
Imputation flag IQ16A	N	327	1	Quex.	1 = This record was imputed for this question
Imputation flag IQ16B	N	328	1	Quex.	1 = This record was imputed for this question

DATA BASE DOCUMENTATION

LEGEND
DATA ELEMENT TYPE STANDARDS
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(Reserve)

PART IV - DATA ELEMENT DESCRIPTION

TITLE

1985 Survey of 1983-84 College Graduates

FILE NAME

XEERSY.NCES85.RCG83-84.DATA

DATA FIELD NAME <i>(a)</i>	DATA ELEMENT TYPE <i>(b)</i>	RECORD POSITION <i>(from-to)</i> <i>(c)</i>	NUMBER OF POSITIONS <i>(d)</i>	SOURCE LOCATION <i>(e)</i>	DESCRIPTION <i>(f)</i>
Imputation flag IQ17PR	N .	329	1	Quex.	1 = This record was imputed for this question
Imputation flag IQ17DD	N	330	1	Quex.	1 = This record was imputed for this question
Imputation flag IQ18	N	331	1	Quex.	1 = This record was imputed for this question
Imputation flag IQ20	N	332	1	Quex.	1 = This record was imputed for this question
Imputation flag IQ21A	N	333	1	Quex.	1 = This record was imputed for this question
Imputation flag IQ21B	N	334	1	Quex.	1 = This record was imputed for this question
Imputation flag IQ21C	N	335	1	Quex.	1 = This record was imputed for this question
Imputation flag IQ23A	N	336	1	Quex.	1 = This record was imputed for this question
Imputation flag IQ24B	N	337	1	Quex.	1 = This record was imputed for this question

DATA BASE DOCUMENTATION

LEGEND
DATA ELEMENT TYPE STANDARDS

(Reserve)

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PART IV - DATA ELEMENT DESCRIPTION

TITLE

1985 Survey of 1983-84 College Graduates

FILE NAME

XEERSY.NCES85.RCG83-84.DATA

DATA FIELD NAME <i>(a)</i>	DATA ELEMENT TYPE <i>(b)</i>	RECORD POSITION <i>(from-to)</i> <i>(c)</i>	NUMBER OF POSITIONS <i>(d)</i>	SOURCE LOCATION <i>(e)</i>	DESCRIPTION <i>(f)</i>	
					<i>(f)</i>	<i>(g)</i>
Imputation flag IQ24B	N	338	1	Quex.	1 = This record was imputed for this question	
Imputation flag IQ24CPK	N	339	1	Quex.	1 = This record was imputed for this question	
Imputation flag IQ24CKK	N	340	1	Quex.	1 = This record was imputed for this question	
Imputation flag IQ24C01	N	341	1	Quex.	1 = This record was imputed for this question	
Imputation flag IQ24C02	N	342	1	Quex.	1 = This record was imputed for this question	
Imputation flag IQ24C03	N	343	1	Quex.	1 = This record was imputed for this question	
Imputation flag IQ24C04	N	344	1	Quex.	1 = This record was imputed for this question	
Imputation flag IQ24C05	N	345	1	Quex.	1 = This record was imputed for this question	
Imputation flag Q24C06	N	346	1	Quex.	1 = This record was imputed for this question	

DATA BASE DOCUMENTATION

LEGEND
DATA ELEMENT TYPE STANDARDS

1 Reserve

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PART IV - DATA ELEMENT DESCRIPTION

TITLE

1985 Survey of 1983-84 College Graduates

FILE NAME
XEERSY.NCES85.RCG83-84.DATA

DATA FIELD NAME <i>(I)</i>	DATA ELEMENT TYPE <i>(II)</i>	RECORD POSITION <i>(from-to)</i> <i>(III)</i>	NUMBER OF POSITIONS <i>(IV)</i>	SOURCE LOCATION <i>(V)</i>	DESCRIPTION <i>(VI)</i>	
					<i>(VI)</i>	<i>(VII)</i>
Imputation flag IQ24C07	N	347	1	Quex.	1 = This record was imputed for this question	
Imputation flag IQ24C08	N	348	1	Quex.	1 = This record was imputed for this question	
Imputation flag IQ24C09	N	349	1	Quex.	1 = This record was imputed for this question	
Imputation flag IQ24C10	N	350	1	Quex.	1 = This record was imputed for this question	
Imputation flag IQ24C11	N	351	1	Quex.	1 = This record was imputed for this question	
Imputation flag IQ24C12	N	352	1	Quex.	1 = This record was imputed for this question	
Imputation flag IQ24CUG	N	353	1	Quex.	1 = This record was imputed for this question	
Imputation flag IQ26	N	354	1	Quex.	1 = This record was imputed for this question	
Imputation flag IQ29A	N	355	1	Quex.	1 = This record was imputed for this question	

DATA BASE DOCUMENTATION

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PART IV - DATA ELEMENT DESCRIPTION

TITLE					FILE NAME
1985 Survey of 1983-84 College Graduates					XEERSY.NCES85.RCG83-84.DATA
DATA FIELD NAME	DATA ELEMENT TYPE	RECORD POSITION (from-to)	NUMBER OF POSITIONS	SOURCE LOCATION	DESCRIPTION
(I)	(I)	(I)	(I)	(I)	(I)
Imputation flag IQ29B	N	356	1	Quex.	1 = This record was imputed for this question
Imputation flag IQ31A1	N	357	1	Quex.	1 = This record was imputed for this question
Imputation flag IQ31A2	N	358	1	Quex.	1 = This record was imputed for this question
Imputation flag IQ31A3	N	359	1	Quex.	1 = This record was imputed for this question
Imputation flag IQ31A4	N	360	1	Quex.	1 = This record was imputed for this question
Imputation flag IQ32BPK	N	361	1	Quex.	1 = This record was imputed for this question
Imputation flag IQ32BKK	N	362	1	Quex.	1 = This record was imputed for this question
Imputation flag IQ32B01	N	363	1	Quex.	1 = This record was imputed for this question
Imputation flag IQ32B02	N	364	1	Quex.	1 = This record was imputed for this question

DATA BASE DOCUMENTATION

LEGEND
DATA ELEMENT TYPE STANDARDS
AN - Alphanumeric, left justified, space filled
N - Numeric display, right justified, leading zeros

(Reserv)

PART IV - DATA ELEMENT DESCRIPTION

TITLE

1985 Survey of 1983-84 College Graduates

FILE NAME

XEERSY.NCES85.RCG83-84.DATA

DATA FIELD NAME <i>(a)</i>	DATA ELEMENT TYPE <i>(b)</i>	RECORD POSITION <i>(from-to)</i> <i>(c)</i>	NUMBER OF POSITIONS <i>(d)</i>	SOURCE LOCATION <i>(e)</i>	DESCRIPTION <i>(f)</i>	
Imputation flag IQ32B03	N	365	1	Quex.	1 = This record was imputed for this question	
Imputation flag IQ32B04	N	366	1	Quex.	1 = This record was imputed for this question	
Imputation flag IQ32B05	N	367	1	Quex.	1 = This record was imputed for this question	
Imputation flag IQ32B06	N	368	1	Quex.	1 = This record was imputed for this question	
Imputation flag IQ32B07	N	369	1	Quex.	1 = This record was imputed for this question	
Imputation flag IQ32B08	N	370	1	Quex.	1 = This record was imputed for this question	
Imputation flag IQ32B09	N	371	1	Quex.	1 = This record was imputed for this question	
Imputation flag IQ32B10	N	372	1	Quex.	1 = This record was imputed for this question	
Imputation flag IQ32B11	N	373	1	Quex.	1 = This record was imputed for this question	

DATA BASE DOCUMENTATION

LEGEND
DATA ELEMENT TYPE STANDARDS

1 Reserved

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PART IV - DATA ELEMENT DESCRIPTION

TITLE						FILE NAME
	DATA FIELD NAME	DATA ELEMENT TYPE	RECORD POSITION <i>(from-to)</i>	NUMBER OF POSITIONS	SOURCE LOCATION	
	<i>(a)</i>	<i>(b)</i>	<i>(c)</i>	<i>(d)</i>	<i>(e)</i>	<i>(f)</i>
Imputation flag IQ32B12	N	374		1	Quex.	1 = This record was imputed for this question
Imputation flag IQ32BUG	N	375		1	Quex.	1 = This record was imputed for this question
Imputation flag IQ38A1	N	376		1	Quex.	1 = This record was imputed for this question
Imputation flag IQ38A2	N	377		1	Quex.	1 = This record was imputed for this question
Imputation flag IQ38A3	N	378		1	Quex.	1 = This record was imputed for this question
PTFT85	N	379		1	Quex.	Part time/full time 1 = full time 2 = part time
LABFCE85	N	380		1	Quex.	Labor force status 1 = Employed 2 = Unemployed 3 = Not in Labor Force

DATA BASE DOCUMENTATION

LEGEND
DATA ELEMENT TYPE STANDARDSAN - Alphanumeric, left justified, space filled
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(Reserve)

PART IV - DATA ELEMENT DESCRIPTION

TITLE					FILE NAME
1985 Survey of 1983-84 College Graduates					XEERSY.NCES85.RCG83-84.DATA
DATA FIELD NAME	DATA ELEMENT TYPE	RECORD POSITION (from-to)	NUMBER OF POSITIONS	SOURCE LOCATION	DESCRIPTION
(A)	(B)	(C)	(D)	(E)	(F)
SALARY	N	381-386	6	Quex.	Annual salary 000001-999998 = Annual salary 999999 = No response
OCCUP	N	387-390	4	Quex.	Occupation recode (see attachment 5) 0000 = Not applicable
MAJOR	N	391-392	2	Quex.	Major field recode (see attachment 6) 0000 = Not applicable
NQT	N	393	1	Quex.	1 = Newly qualified to teach 0 = Not newly qualified to teach

DATA BASE DOCUMENTATION

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DATA ELEMENT TYPE STANDARDS

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PART IV - DATA ELEMENT DESCRIPTION

TITLE

1985 Survey of 1983-84 College Graduates

FILE NAME
XEERSY.NCES85.RCG83-84.DATA

DATA FIELD NAME <i>(1)</i>	DATA ELEMENT TYPE <i>(2)</i>	RECORD POSITION <i>(from-to)</i> <i>(3)</i>	NUMBER OF POSITIONS <i>(4)</i>	SOURCE LOCATION <i>(5)</i>	DESCRIPTION <i>(6)</i>	
ARMFCE85	N	394	1	Quex.	1 = Armed Forces status 0 = Not Armed Forces status	
FINALWT	N	395-400	5	Internally derived	Weight right justified with leading zeros, three decimal places assumed. Adjusted weight times a factor to weight up to HEGIS totals.	
REPL1	N	401-407	7	Internally derived	Replicate weight 1 justified with leading zeros, three decimal places assumed.	
REPL2	N	408-414	7	Internally derived	Replicate weight 2 justified with leading zeros, three decimal places assumed.	

DATA BASE DOCUMENTATION

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PART IV - DATA ELEMENT DESCRIPTION

TITLE

1985 Survey of 1983-84 College Graduates

FILE NAME
XEERSY.NCES85.RCG83-84.DATA

DATA FIELD NAME <i>(a)</i>	DATA ELEMENT TYPE <i>(b)</i>	RECORD POSITION <i>(from-to)</i> <i>(c)</i>	NUMBER OF POSITIONS <i>(d)</i>	SOURCE LOCATION <i>(e)</i>	DESCRIPTION <i>(f)</i>	
					DESCRIPTION	
REPL3	N	415-421	7	Internally derived	Replicate weight 3 justified with leading zeros, three decimal places assumed.	
REPL4	N	422-428	7	Internally derived	Replicate weight 4 justified with leading zeros, three decimal places assumed.	
REPL5	N	429-435	7	Internally derived	Replicate weight 5 justified with leading zeros, three decimal places assumed.	
REPL6	N	436-442	7	Internally derived	Replicate weight 6 justified with leading zeros, three decimal places assumed.	

DATA BASE DOCUMENTATION

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TITLE

1985 Survey of 1983-84 College Graduates

FILE NAME
XEERSY.NCES85.RCG83-84.DATA

DATA FIELD NAME <i>(1)</i>	DATA ELEMENT TYPE <i>(2)</i>	RECORD POSITION <i>(from-to)</i> <i>(3)</i>	NUMBER OF POSITIONS <i>(4)</i>	SOURCE LOCATION <i>(5)</i>	DESCRIPTION <i>(6)</i>	
					<i>(6)</i>	<i>(7)</i>
REPL7	N	443-449	7	Internally derived	Replicate weight 7 justified with leading zeros, three decimal places assumed.	
REPL8	N	450-456	7	Internally derived	Replicate weight 8 justified with leading zeros, three decimal places assumed	
REPL9	N	457-463	7	Internally derived	Replicate weight 9 justified with leading zeros, three decimal places assumed.	
REPL10	N	464-470	7	Internally derived	Replicate weight 10 justified with leading zeros, three decimal places assumed.	

DATA BASE DOCUMENTATION

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(Reserve)

PART IV - DATA ELEMENT DESCRIPTION

TITLE					FILE NAME
1985 Survey of 1983-84 College Graduates					XEERSY.NCES85.RCG83-84.DATA
DATA FIELD NAME <i>(a)</i>	DATA ELEMENT TYPE <i>(b)</i>	RECORD POSITION <i>(from-to)</i> <i>(c)</i>	NUMBER OF POSITIONS <i>(d)</i>	SOURCE LOCATION <i>(e)</i>	DESCRIPTION <i>(f)</i>
REPL11	N	471-477	7	Internally derived	Replicate weight 11 justified with leading zeros, three decimal places assumed.
REPL12	N	478-484	7	Internally derived	Replicate weight 12 justified with leading zeros, three decimal places assumed.
REPL13	N	485-491	7	Internally derived	Replicate weight 13 justified with leading zeros, three decimal places assumed.
REPL14	N	492-498	7	Internally derived	Replicate weight 14 justified with leading zeros, three decimal places assumed.

DATA BASE DOCUMENTATION

 LEGEND
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PART IV - DATA ELEMENT DESCRIPTION

TITLE

1985 Survey of 1983-84 College Graduates

FILE NAME

XEERSY.NCES85.RCG83-84.DATA

DATA FIELD NAME	DATA ELEMENT TYPE	RECORD POSITION <i>(from-to)</i>	NUMBER OF POSITIONS	SOURCE LOCATION	DESCRIPTION
<i>(I)</i>	<i>(II)</i>	<i>(III)</i>	<i>(IV)</i>	<i>(V)</i>	<i>(VI)</i>
REPL15	N	499-505	7	Internally derived	Replicate weight 15 justified with leading zeros, three decimal places assumed.
REPL16	N	506-512	7	Internally derived	Replicate weight 16 justified with leading zeros, three decimal places assumed.
REPL17	N	513-519	7	Internally derived	Replicate weight 17 justified with leading zeros, three decimal places assumed.
REPL18	N	520-526	7	Internally derived	Replicate weight 18 justified with leading zeros, three decimal places assumed.

DATA BASE DOCUMENTATION

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PART IV - DATA ELEMENT DESCRIPTION

TITLE

1985 Survey of 1983-84 College Graduates

FILE NAME

XEERSY.NCES85.RCG83-84.DATA

DATA FIELD NAME <i>(I)</i>	DATA ELEMENT TYPE <i>(II)</i>	RECORD POSITION <i>(from-to)</i> <i>(III)</i>	NUMBER OF POSITIONS <i>(IV)</i>	SOURCE LOCATION <i>(V)</i>	DESCRIPTION <i>(VI)</i>	
REPL19	N	527-533	7	Internally derived	Replicate weight 19 justified with leading zeros, three decimal places assumed.	
REPL20	N	534-540	7	Internally derived	Replicate weight 20 justified with leading zeros, three decimal places assumed.	
REPL21	N	541-547	7	Internally derived	Replicate weight 21 justified with leading zeros, three decimal places assumed.	
REPL22	N	548-554	7	Internally derived	Replicate weight 22 justified with leading zeros, three decimal places assumed.	

DATA BASE DOCUMENTATION

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PART IV - DATA ELEMENT DESCRIPTION

TITLE					FILE NAME
1985 Survey of 1983-84 College Graduates					XEERSY.NCES85.RCG83-84.DATA
DATA FIELD NAME	DATA ELEMENT TYPE	RECORD POSITION <i>(from-to)</i>	NUMBER OF POSITIONS	SOURCE LOCATION	DESCRIPTION
<i>(a)</i>	<i>(b)</i>	<i>(c)</i>	<i>(d)</i>	<i>(e)</i>	<i>(f)</i>
REPL23	N	555-561	7	Internally derived	Replicate weight 23 justified with leading zeros, three decimal places assumed.
REPL24	N	562-568	7	Internally derived	Replicate weight 24 justified with leading zeros, three decimal places assumed.
REPL25	N	569-575	7	Internally derived	Replicate weight 25 justified with leading zeros, three decimal places assumed.
REPL26	N	576-582	7	Internally derived	Replicate weight 26 justified with leading zeros, three decimal places assumed.

DATA BASE DOCUMENTATION

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TITLE					FILE NAME
DATA FIELD NAME	DATA ELEMENT TYPE	RECORD POSITION <i>(from-to)</i>	NUMBER OF POSITIONS	SOURCE LOCATION	DESCRIPTION
<i>(I)</i>	<i>(II)</i>	<i>(III)</i>	<i>(IV)</i>	<i>(V)</i>	<i>(VI)</i>
REPL27	N	583-589	7	Internally derived	Replicate weight 27 justified with leading zeros, three decimal places assumed.
REPL28	N	590-596	7	Internally derived	Replicate weight 28 justified with leading zeros, three decimal places assumed.
REPL29	N	597-603	7	Internally derived	Replicate weight 29 justified with leading zeros, three decimal places assumed.
REPL30	N	604-610	7	Internally derived	Replicate weight 30 justified with leading zeros, three decimal places assumed.

DATA BASE DOCUMENTATION

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1985 Survey of 1983-84 College Graduates

FILE NAME
XEERSY.NCES85.RCG83-84.DATA

DATA FIELD NAME <i>(a)</i>	DATA ELEMENT TYPE <i>(b)</i>	RECORD POSITION <i>(from-to)</i> <i>(c)</i>	NUMBER OF POSITIONS <i>(d)</i>	SOURCE LOCATION <i>(e)</i>	DESCRIPTION <i>(f)</i>	
					<i>(f)</i>	<i>(g)</i>
REPL31	N	611-617	7	Internally derived	Replicate weight 31 justified with leading zeros, three decimal places assumed.	
REPL32	N	618-624	7	Internally derived	Replicate weight 32 justified with leading zeros, three decimal places assumed.	

CONTENTS OF SAS DATA SET IN RCG85

TAPE FORMAT DATA SET CREATED BY OS JOB XEERTC1 ON CPUID 00-3033-020079 AT 10:00 MONDAY, JULY 21, 1986
BY SAS RELEASE 82.4 DSNAME=XEERTC.RCG85.A83-84.SAS BLKSIZE=32023 LRECL=821 GENERATED BY DATA

LIST OF VARIABLES BY POSITION

#	VARIABLE	TYPE	LENGTH	POSITION	FORMAT	INFORMAT	LABEL
1	FICE	CHAR	5	4			UNIQUE INSTITUTIONAL ID NUMBER
2	FICEID	CHAR	8	9			STUDENT ID NUMBER WITHIN FICE CODE
3	LDEG	CHAR	1	17			DEGREE SAMPLED
4	LMAJOR	NUM	8	18			MAJOR FIELD SAMPLED
5	HISP	CHAR	1	26			HISPANIC
6	TBI	CHAR	1	27			TRADITIONALLY BLACK INSTITUTION
7	LCHG	CHAR	1	28			ACADEMIC BACKGROUND-LABEL INFORMATION
8	OLDDEG	CHAR	1	29			ORIGINAL DEGREE
9	OLDFICE	CHAR	5	30			1/3 SAMPLED FICE CODE
10	Q1BYN	CHAR	1	35			IF DEGREE RECD BETWEEN 7/83 & 6/84
11	Q1BMO	NUM	8	36			MONTH DEGREE RECEIVED
12	Q1BYR	NUM	8	44			YEAR DEGREE RECEIVED
13	Q2MAJ	NUM	8	52			MAJOR FIELD OF STUDY
14	Q3SEX	CHAR	1	60			SEX
15	Q4	CHAR	1	61			MARITAL STATUS
16	Q5RACE	CHAR	1	62			RACE/ETHNIC GROUP
17	Q6AGE	NUM	8	63			AGE
18	Q7	CHAR	1	71			IF PARENTS HAVE A COLLEGE DEGREE
19	Q8A	CHAR	1	72			IF SPEAK SECOND LANGUAGE FLUENTLY
20	Q8B	CHAR	2	73			WHAT 2ND LANGUAGE DO YOU SPEAK FLUENTLY
21	Q8C1	CHAR	1	75			MY HOME LANGUAGE
22	Q8C2	CHAR	1	76			LEARNED IT FROM FRIENDS
23	Q8C3	CHAR	1	77			STUDIED IT IN SCHOOLS IN THIS COUNTRY
24	Q8C4	CHAR	1	78			LEARNED IT IN SCHOOLS WHERE SPEAK
25	Q8C5	CHAR	1	79			LEARNED IT AS A RESIDENT WHERE SPEAK
26	Q8C6	CHAR	1	80			OTHER
27	Q8A	CHAR	1	81			IF ENROLLED IN COLLEGES DURING 1/85-2/85
28	Q9B	CHAR	1	82			IF WORKING TOWARD ANOTHER DEGREE
29	Q10L1	CHAR	1	83			VETERANS ADMINISTRATION WAR ORPHANS
30	Q10L2	CHAR	1	84			V.A. DIRECT BENEFIT(G.I.BILL)
31	Q10L3	CHAR	1	85			PELL GRANTS
32	Q10L4	CHAR	1	86			SUPPLEMENTAL EDUCATION GRANT
33	Q10L5	CHAR	1	87			R.O.T.C. SCHOLARSHIP OR STIPEND
34	Q10L6	CHAR	1	88			FEDERAL WORK STUDY PROGRAM
35	Q10L7	CHAR	1	89			BILINGUAL EDUCATION GRANT/SCHOLARSHIP
36	Q10L8	CHAR	1	90			OTHER FEDERAL GRANT/SCHOLARSHIP
37	Q10L9	CHAR	1	91			COLLEGE OR UNIVERSITY FELLOWSHIP
38	Q10L10	CHAR	1	92			ASSISTANTSHIP
39	Q10L11	CHAR	1	93			STATE FELLOWSHIP, SCHOLARSHIP, OR GRANT
40	Q10L12	CHAR	1	94			OTHER FELLOWSHIP OR GRANT
41	Q10L13	CHAR	1	95			NATIONAL DIRECT STUDENT LOAN
42	Q10L14	CHAR	1	96			GUARANTEED STUDENT LOAN(FSL)
43	Q10L15	CHAR	1	97			BILINGUAL EDUCATION LOAN
44	Q10L16	CHAR	1	98			OTHER FEDERAL LOAN
45	Q10L17	CHAR	1	99			COLLEGE OR UNIVERSITY LOAN
46	Q10L18	CHAR	1	100			STATE LOAN
47	Q10L19	CHAR	1	101			REGULAR BANK LOAN

48 Q10L20 CHAR 1 182

SAS

RELATIVES OR FRIENDS

8:52 WEDNESDAY, JULY 23, 19

49	Q10L21	CHAR	1	183	OTHER LOAN
50	Q11YN	CHAR	1	184	DEBT RELATED TO THE EDUCATION
51	Q11DD	NUM	8	185	AMOUNT OF THE DEBT
52	Q12	CHAR	1	113	GRADES OF THE UNDERGRADUATE WORK
53	Q13	CHAR	1	114	IF EMPLOYED DURING THE WEEK OF 4/29/85
54	Q14A	NUM	8	115	INDUSTRY CLASSIFICATION
55	Q14B	NUM	8	123	JOB CLASSIFICATION
56	Q14C	NUM	8	131	JOB ACTIVITIES
57	Q15	CHAR	1	139	TYPES OF FIRMS
58	Q16A	NUM	8	140	HOUR PER WEEK AT THIS JOB
59	Q16B	CHAR	1	148	IF CLASSIFIED AS FULL-TIME
60	Q17PR	CHAR	1	149	PAY RATE CLASSIFICATION
61	Q17DD	NUM	8	150	PAY DOLLAR AMOUNT
62	Q18	CHAR	1	158	DEGREE REQUIRED FOR PRINCIPAL JOB
63	Q19A	CHAR	1	159	JOB RELATED TO MAJOR FIELD
64	Q19B	CHAR	1	160	REASON TOOK JOB NOT RELATED TO MAJOR
65	Q20	CHAR	1	161	DESCRIPTION OF THE PRINCIPAL JOB
66	Q21A	CHAR	1	162	SECOND JOB DURING THE WEEK OF 4/29/85
67	Q21B	CHAR	1	163	SECOND JOB AS TEACHER
68	Q21C	CHAR	1	164	SECOND JOB IN PUBLIC OR PRIVATE SCHOOL
69	Q22YN	CHAR	1	165	FULL-TIME WORK EXP. PRIOR TO DEGREE
70	Q22YR	NUM	8	166	NUMBER OF YEARS OF WORKING EXPERIENCE
71	Q23A	CHAR	1	174	SCHOOL TEACHER PRIOR TO THE DEGREE
72	Q23B	CHAR	1	175	TEACHING FULL-TIME OR PART-TIME
73	Q24A	CHAR	1	176	CERTIFIED OR ELIGIBLE TO TEACH
74	Q24B	CHAR	1	177	WHEN FIRST BECAME ELIGIBLE TO TEACH
75	Q24CPK	CHAR	2	178	PREKINDERGARTEN
76	Q24CKK	CHAR	2	180	KINDERGARTEN
77	Q24C01	CHAR	2	182	FIRST
78	Q24C02	CHAR	2	184	SECOND
79	Q24C03	CHAR	2	186	THIRD
80	Q24C04	CHAR	2	188	FOURTH
81	Q24C05	CHAR	2	190	FIFTH
82	Q24C06	CHAR	2	192	SIXTH
83	Q24C07	CHAR	2	194	SEVENTH
84	Q24C08	CHAR	2	196	EIGHTH
85	Q24C09	CHAR	2	198	NINTH
86	Q24C10	CHAR	2	200	TENTH
87	Q24C11	CHAR	2	202	ELEVENTH
88	Q24C12	CHAR	2	204	TWELFTH
89	Q24CU6	CHAR	2	206	UNGRADED
90	Q25A01	CHAR	2	208	GENERAL CERTIFICATE
91	Q25A02	CHAR	2	210	ART
92	Q25A03	CHAR	2	212	BILINGUAL EDUCATION
93	Q25A04	CHAR	2	214	BIOLOGICAL SCIENCE
94	Q25A05	CHAR	2	216	BUSINESS
95	Q25A06	CHAR	2	218	ENGLISH LANGUAGE ARTS
96	Q25A07	CHAR	2	220	FOREIGN LANGUAGES
97	Q25A08	CHAR	2	222	HEALTH
98	Q25A09	CHAR	2	224	HOME ECONOMICS
99	Q25A10	CHAR	2	226	INDUSTRIAL ARTS
100	Q25A11	CHAR	2	228	MATHEMATICS

101	Q25A12	CHAR	2	238	MUSIC
102	Q25A13	CHAR	2	232	PHYSICAL SCIENCES
103	Q25A14	CHAR	2	234	PHYSICAL EDUCATION
104	Q25A15	CHAR	2	236	PRE-ELEMENTARY EDUCATION
105	Q25A16	CHAR	2	238	READING
106	Q25A17	CHAR	2	240	SOCIAL SCIENCES/SOCIAL STUDIES
107	Q25A18	CHAR	2	242	MENTALLY RETARDED
108	Q25A19	CHAR	2	244	HEARING IMPAIRED, DEAF
109	Q25A20	CHAR	2	246	SPEECH IMPAIRED
110	Q25A21	CHAR	2	248	SERIOUSLY EMOTIONALLY DISTURBED
111	Q25A22	CHAR	2	250	SPECIFIC LEARNING DISABILITY
112	Q25A23	CHAR	2	252	GENERAL CERTIFICATE
113	Q25A24	CHAR	2	254	OTHER SPECIAL EDUCATION
114	Q25A25	CHAR	2	256	VOCATIONAL EDUCATION
115	Q25A26	CHAR	2	258	OTHER FIELD
116	Q25BYN	CHAR	1	260	ELIG/CERT TEACH MORE THAN ONE FIELD
117	Q25BFL	CHAR	2	261	FIELD BEST QUALIFIED TO TEACH
118	Q26	CHAR	1	263	TAUGHT OR APPLIED BETWEEN 1983-84
119	Q27	CHAR	1	264	REASON NOT TO APPLY TEACHING JOB
120	Q28	CHAR	1	265	PRINCIPAL JOB-TEACHING 4/29/85
121	Q29A	CHAR	1	266	LOOKED FOR WORK BETWEEN 4/8/85 & 5/3/85
122	Q29B	CHAR	1	267	AVAILABLE FOR WORK DURING 4/29/85
123	Q30	CHAR	1	268	REASON NOT WORKING DURING 4/29/85
124	Q31A1	CHAR	1	269	OPERATED BY LOCAL SCHOOL DISTRICT
125	Q31A2	CHAR	1	270	OPERATED BY STATE OR FEDERAL AGENCY
126	Q31A3	CHAR	1	271	RELIGIOUSLY AFFILIATED SCHOOL
127	Q31A4	CHAR	1	272	NON-RELIGIOUSLY AFFILIATED SCHOOL
128	Q32BPK	CHAR	2	273	
129	Q32BKK	CHAR	2	275	
130	Q32B01	CHAR	2	277	SEE Q24C01-Q24C06
131	Q32B02	CHAR	2	279	
132	Q32B03	CHAR	2	281	
133	Q32B04	CHAR	2	283	
134	Q32B05	CHAR	2	285	
135	Q32B06	CHAR	2	287	
136	Q32B07	CHAR	2	289	
137	Q32B08	CHAR	2	291	
138	Q32B09	CHAR	2	293	
139	Q32B10	CHAR	2	295	
140	Q32B11	CHAR	2	297	
141	Q32B12	CHAR	2	299	
142	Q32BUG	CHAR	2	301	
143	Q33	CHAR	1	303	REASON BECAME A TEACHER
144	Q34	CHAR	1	304	SELF-CONTAINED CLASSROOM TEACHER
145	Q35A01	CHAR	2	305	SEE Q25A01-Q25BYN
146	Q35A02	CHAR	2	307	
147	Q35A03	CHAR	2	309	
148	Q35A04	CHAR	2	311	
149	Q35A05	CHAR	2	313	
150	Q35A06	CHAR	2	315	
151	Q35A07	CHAR	2	317	
152	Q35A08	CHAR	2	319	
153	Q35A09	CHAR	2	321	
154	Q35A10	CHAR	2	323	
155	Q35A11	CHAR	2	325	
156	Q35A12	CHAR	2	327	

157	Q35A13	CHAR	2	329	
158	Q35A14	CHAR	2	331	
159	Q35A15	CHAR	2	333	
160	Q35A16	CHAR	2	335	
161	Q35A17	CHAR	2	337	
162	Q35A18	CHAR	2	339	
163	Q35A19	CHAR	2	341	
164	Q35A20	CHAR	2	343	
165	Q35A21	CHAR	2	345	
166	Q35A22	CHAR	2	347	
167	Q35A23	CHAR	2	349	
168	Q35A24	CHAR	2	351	
169	Q35A25	CHAR	2	353	
170	Q35A26	CHAR	2	355	
171	Q35B1N	CHAR	1	357	
172	Q35BFL	CHAR	2	358	
173	Q35CYN	CHAR	1	360	TEACHING BY SECOND LANGUAGE
174	Q35CFL	CHAR	2	361	FIELD NAME TAUGHT BY SECOND LANGUAGE
175	Q35CLN	CHAR	2	363	LANGUAGE USED TO TEACH
176	Q35D1	CHAR	1	365	FOR INSTRUCTION IN SUBJECT AREAS
177	Q35D2	CHAR	1	366	TEACH AS LANGUAGE ARTS
178	Q35D3	CHAR	1	367	TEACH IT AS A FOREIGN LANGUAGE
179	Q35D4	CHAR	1	368	USE IT IN INFORMAL SITUATIONS
180	Q35D5	CHAR	1	369	OTHER
181	Q36	CHAR	1	370	TAUGHT SPECIAL ED FOR HANDICAPPED
182	Q37A	CHAR	1	371	TAUGHT CLASSES OTHER THAN SPECIAL ED
183	Q37B	CHAR	1	372	TAUGHT MORE SPEC ED THAN OTHER CLASSES
184	Q38A1	CHAR	1	373	TEACHING HANDICAPPED-FORMAL EDUCATION
185	Q38A2	CHAR	1	374	TEACHING HANDICAPPED-OTHER EDUCATION
186	Q38A3	CHAR	1	375	TEACHING HANDICAPPED-NONE
187	Q39	CHAR	1	376	MONTHS WORKED UNDER TEACHING CONTRACT
188	FINALWGT	NUM	8	377	FINAL ADJUSTED WGT
189	I05RACE	NUM	2	385	
190	I06AGE	NUM	2	387	
191	I029B	NUM	2	389	
192	I029A	NUM	2	391	
193	I031A1	NUM	2	393	
194	I031A2	NUM	2	395	
195	I031A3	NUM	2	397	
196	I031A4	NUM	2	399	
197	I09A	NUM	2	401	
198	I09B	NUM	2	403	
199	I012	NUM	2	405	IMPUTATION FLAGS I05RACE-I038A3
200	I016B	NUM	2	407	
201	I016A	NUM	2	409	
202	I018	NUM	2	411	
203	I020	NUM	2	413	
204	I023B	NUM	2	415	
205	I023A	NUM	2	417	
206	I017DD	NUM	2	419	
207	I017PR	NUM	2	421	
208	I024B	NUM	2	423	
209	I026	NUM	2	425	
210	I024CPK	NUM	2	427	
211	I024CKK	NUM	2	429	
212	I024C01	NUM	2	431	

213	IQ24C02	NUM	2	433
214	IQ24C03	NUM	2	435
215	IQ24C04	NUM	2	437
216	IQ24C05	NUM	2	439
217	IQ24C06	NUM	2	441
218	IQ24C07	NUM	2	443
219	IQ24C08	NUM	2	445
220	IQ24C09	NUM	2	447
221	IQ24C10	NUM	2	449
222	IQ24C11	NUM	2	451
223	IQ24C12	NUM	2	453
224	IQ24C0G	NUM	2	455
225	IQ32BPK	NUM	2	457
226	IQ32BKK	NUM	2	459
227	IQ32B01	NUM	2	461
228	IQ32B02	NUM	2	463
229	IQ32B03	NUM	2	465
230	IQ32B04	NUM	2	467
231	IQ32B05	NUM	2	469
232	IQ32B06	NUM	2	471
233	IQ32B07	NUM	2	473
234	IQ32B08	NUM	2	475
235	IQ32B09	NUM	2	477
236	IQ32B10	NUM	2	479
237	IQ32B11	NUM	2	481
238	IQ32B12	NUM	2	483
239	IQ32B06	NUM	2	485
240	IQ38A1	NUM	2	487
241	IQ38A2	NUM	2	489
242	IQ38A3	NUM	2	491
243	IQ21B	NUM	2	493
244	IQ21A	NUM	2	495
245	IQ21C	NUM	2	497
246	IQ15	NUM	2	499
247	REPL1	NUM	8	501
248	REPL2	NUM	8	509
249	REPL3	NUM	8	517
250	REPL4	NUM	8	525
251	REPL5	NUM	8	533
252	REPL6	NUM	8	541
253	REPL7	NUM	8	549
254	REPL8	NUM	8	557
255	REPL9	NUM	8	565
256	REPL10	NUM	8	573
257	REPL11	NUM	8	581
258	REPL12	NUM	8	589
259	REPL13	NUM	8	597
260	REPL14	NUM	8	605
261	REPL15	NUM	8	613
262	REPL16	NUM	8	621
263	REPL17	NUM	8	629
264	REPL18	NUM	8	637
265	REPL19	NUM	8	645
266	REPL20	NUM	8	653
267	REPL21	NUM	8	661
268	REPL22	NUM	8	669

269	REPL23	NUM	8	677	
270	REPL24	NUM	8	685	
271	REPL25	NUM	8	693	
272	REPL26	NUM	8	701	
273	REPL27	NUM	8	709	
274	REPL28	NUM	8	717	
275	REPL29	NUM	8	725	
276	REPL30	NUM	8	733	
277	REPL31	NUM	8	741	
278	REPL32	NUM	8	749	
279	ID14B	NUM	8	757	
280	NOT	NUM	8	765	RECODE VARIABLE NEWLY QUALIFIED TO TEACH
281	PTFT85	NUM	8	773	RECODE VARIABLE PART TIME/FULL TIME
282	LABFCE85	NUM	8	781	RECODE VARIABLE LABOR FORCE STATUS
283	ARMFCE85	NUM	8	789	RECODE VARIABLE ARMED FORCES
284	SALARY	NUM	8	797	RECODE VARIABLE ANNUAL SALARY
285	OCCUP	NUM	8	805	RECODE VARIABLE OCCUPATION CODE
286	MAJOR	NUM	8	813	RECODE VARIABLE MAJOR CODE

ALPHABETIC LIST OF VARIABLES

#	VARIABLE	TYPE	LENGTH	POSITION	FORMAT	INFORMAT	LABEL
283	ARMFCE85	NUM	8	789			RECODE VARIABLE ARMED FORCES
1	FICE	CHAR	5	4			UNIQUE INSTITUTIONAL ID NUMBER
2	FICEID	CHAR	8	9			STUDENT ID NUMBER WITHIN FICE CODE
188	FINALWGT	NUM	8	377			FINAL ADJUSTED WGT
5	HISP	CHAR	1	26			HISPANIC
199	IQ12	NUM	2	485			IMPUTATION FLAG IQ5RACE-IQ38A3
246	IQ15	NUM	2	499			
202	IQ18	NUM	2	411			
203	IQ20	NUM	2	413			
209	IQ26	NUM	2	425			
279	IQ14B	NUM	8	757			
201	IQ16A	NUM	2	409			
200	IQ16B	NUM	2	407			
206	IQ17DD	NUM	2	419			
207	IQ17PR	NUM	2	421			
244	IQ21A	NUM	2	495			
243	IQ21B	NUM	2	493			
245	IQ21C	NUM	2	497			
205	IQ23A	NUM	2	417			
204	IQ23B	NUM	2	415			
208	IQ24B	NUM	2	423			
212	IQ24C01	NUM	2	431			
213	IQ24C02	NUM	2	433			
214	IQ24C03	NUM	2	435			
215	IQ24C04	NUM	2	437			
216	IQ24C05	NUM	2	439			
217	IQ24C06	NUM	2	441			
218	IQ24C07	NUM	2	443			
219	IQ24C08	NUM	2	445			
220	IQ24C09	NUM	2	447			

221	IQ24C10	NUM	2	449	
222	IQ24C11	NUM	2	451	
223	IQ24C12	NUM	2	453	
211	IQ24CKK	NUM	2	429	
218	IQ24CPK	NUM	2	427	
224	IQ24CU6	NUM	2	455	
192	IQ29A	NUM	2	391	
191	IQ29B	NUM	2	389	
193	IQ31A1	NUM	2	393	
194	IQ31A2	NUM	2	395	
195	IQ31A3	NUM	2	397	
196	IQ31A4	NUM	2	399	
227	IQ32B01	NUM	2	461	
228	IQ32B02	NUM	2	463	
229	IQ32B03	NUM	2	465	
230	IQ32B04	NUM	2	467	
231	IQ32B05	NUM	2	469	
232	IQ32B06	NUM	2	471	
233	IQ32B07	NUM	2	473	
234	IQ32B08	NUM	2	475	
235	IQ32B09	NUM	2	477	
236	IQ32B10	NUM	2	479	
237	IQ32B11	NUM	2	481	
238	IQ32B12	NUM	2	483	
226	IQ32BKK	NUM	2	459	
225	IQ32BPK	NUM	2	457	
239	IQ32BU6	NUM	2	485	
240	IQ38A1	NUM	2	487	
241	IQ38A2	NUM	2	489	
242	IQ38A3	NUM	2	491	
189	IQ5RACE	NUM	2	385	
190	IQ6AGE	NUM	2	387	
197	IQ9A	NUM	2	401	
198	IQ9B	NUM	2	403	
282	LABFCE85	NUM	8	781	RECODE VARIABLE LABOR FORCE STATUS
7	LCHG	CHAR	1	28	ACADEMIC BACKGROUND-LABEL INFORMATION
3	LDEG	CHAR	1	17	DEGREE SAMPLED
4	LMAJOR	NUM	8	18	MAJOR FIELD SAMPLED
286	MAJOR	NUM	8	813	RECODE VARIABLE MAJOR CODE
280	NGT	NUM	8	765	RECODE VARIABLE NEWLY QUALIFIED TO TEACH
285	OCCUP	NUM	8	805	RECODE VARIABLE OCCUPATION CODE
8	OLDDEG	CHAR	1	29	ORIGINAL DEGREE
9	ULDFICE	CHAR	5	38	1/3 SAMPLED FICE CODE
281	PTFT85	NUM	8	773	RECODE VARIABLE PART TIME/FULL TIME
15	Q4	CHAR	1	61	MARITAL STATUS
18	Q7	CHAR	1	71	IF PARENTS HAVE A COLLEGE DEGREE
52	Q12	CHAR	1	113	GRADES OF THE UNDERGRADUATE WORK
53	Q13	CHAR	1	114	IF EMPLOYED DURING THE WEEK OF 4/29/85
57	Q15	CHAR	1	139	TYPES OF FIRMS
62	Q18	CHAR	1	158	DEGREE REQUIRED FOR PRINCIPAL JOB
65	Q20	CHAR	1	161	DESCRIPTION OF THE PRINCIPAL JOB
118	Q26	CHAR	1	263	TAUGHT OR APPLIED BETWEEN 1983-84
119	Q27	CHAR	1	264	REASON NOT TO APPLY TEACHING JOB
120	Q28	CHAR	1	265	PRINCIPAL JOB-TEACHING 4/29/85
123	Q30	CHAR	1	268	REASON NOT WORKING DURING 4/29/85
143	Q33	CHAR	1	303	REASON BECAME A TEACHER

144	Q34	CHAR	1	304	
181	Q36	CHAR	1	370	SELF-CONTAINED CLASSROOM TEACHER
187	Q39	CHAR	1	376	TAUGHT SPECIAL ED FOR HANDICAPPED
11	Q1BMD	NUM	8	36	MONTHS WORKED UNDER TEACHING CONTRACT
18	Q1BYN	CHAR	1	35	MONTH DEGREE RECEIVED
12	Q1BYR	NUM	8	44	IF DEGREE RECD. BETWEEN 7/83 & 6/84
29	Q1BL1	CHAR	1	83	YEAR DEGREE RECEIVED
30	Q1BL2	CHAR	1	84	VETERANS ADMINISTRATION WAR ORPHANS
31	Q1BL3	CHAR	1	85	V.A. DIRECT BENEFIT(G. I. BILL)
32	Q1BL4	CHAR	1	86	PELL GRANTS
33	Q1BL5	CHAR	1	87	SUPPLEMENTAL EDUCATION GRANT
34	Q1BL6	CHAR	1	88	R.O.T.C. SCHOLARSHIP OR STIPEND
35	Q1BL7	CHAR	1	89	FEDERAL WORK STUDY PROGRAM
36	Q1BL8	CHAR	1	90	BILINGUAL EDUCATION GRANT/SCHOLARSHIP
37	Q1BL9	CHAR	1	91	OTHER FEDERAL GRANT/SCHOLARSHIP
38	Q1BL10	CHAR	1	92	COLLEGE OR UNIVERSITY FELLOWSHIP
39	Q1BL11	CHAR	1	93	ASSISTANTSHIP
40	Q1BL12	CHAR	1	94	STATE FELLOWSHIP, SCHOLARSHIP, OR GRANT
41	Q1BL13	CHAR	1	95	OTHER FELLOWSHIP OR GRANT
42	Q1BL14	CHAR	1	96	NATIONAL DIRECT STUDENT LOAN
43	Q1BL15	CHAR	1	97	GUARANTEED STUDENT LOAN(FSL)
44	Q1BL16	CHAR	1	98	BILINGUAL EDUCATION LOAN
45	Q1BL17	CHAR	1	99	OTHER FEDERAL LOAN
46	Q1BL18	CHAR	1	100	COLLEGE OR UNIVERSITY LOAN
47	Q1BL19	CHAR	1	101	STATE LOAN
48	Q1BL20	CHAR	1	102	REGULAR BANK LOAN
49	Q1BL21	CHAR	1	103	RELATIVES OR FRIENDS
51	Q11DD	NUM	8	105	OTHER LOAN
50	Q11YN	CHAR	1	104	AMOUNT OF THE DEBT
54	Q14A	NUM	8	115	DEBT RELATED TO THE EDUCATION
55	Q14B	NUM	8	123	INDUSTRY CLASSIFICATION
56	Q14C	NUM	8	131	JOB CLASSIFICATION
58	Q16A	NUM	8	140	JOB ACTIVITIES
59	Q16B	CHAR	1	148	HOUR PER WEEK AT THIS JOB
61	Q17DD	NUM	8	150	IF CLASSIFIED AS FULL-TIME
60	Q17PR	CHAR	1	149	PAY DOLLAR AMOUNT
63	Q19A	CHAR	1	159	PAY RATE CLASSIFICATION
64	Q19B	CHAR	1	160	JOB RELATED TO MAJOR FIELD
13	Q2MAJ	NUM	8	52	REASON TOOK JOB NOT RELATED TO MAJOR
66	Q21A	CHAR	1	162	MAJOR FIELD OF STUDY
67	Q21B	CHAR	1	163	SECOND JOB DURING THE WEEK OF 4/29/85
68	Q21C	CHAR	1	164	SECOND JOB AS TEACHER
69	Q22YN	CHAR	1	165	SECOND JOB IN PUBLIC OR PRIVATE SCHOOL
70	Q22YR	NUM	8	166	FULL-TIME WORK EXP. PRIOR TO DEGREE
71	Q23A	CHAR	1	174	NUMBER OF YEARS OF WORKING EXPERIENCE
72	Q23B	CHAR	1	175	SCHOOL TEACHER PRIOR TO THE DEGREE
73	Q24A	CHAR	1	176	TEACHING FULL-TIME OR PART-TIME
74	Q24B	CHAR	1	177	CERTIFIED OR ELIGIBLE TO TEACH
77	Q24C01	CHAR	2	182	WHEN FIRST BECAME ELIGIBLE TO TEACH
78	Q24C02	CHAR	2	184	FIRST
79	Q24C03	CHAR	2	186	SECOND
80	Q24C04	CHAR	2	188	THIRD
81	Q24C05	CHAR	2	190	FOURTH
82	Q24C06	CHAR	2	192	FIFTH
83	Q24C07	CHAR	2	194	SIXTH
84	Q24C08	CHAR	2	196	SEVENTH

85	Q24C09	CHAR	2	198	NINTH
86	Q24C10	CHAR	2	200	TENTH
87	Q24C11	CHAR	2	202	ELEVENTH
88	Q24C12	CHAR	2	204	TWELFTH
76	Q24CKK	CHAR	2	180	KINDERGARTEN
75	Q24CPK	CHAR	2	178	PREKINDERGARTEN
89	Q24CUG	CHAR	2	206	UNGRADED
90	Q25A01	CHAR	2	208	GENERAL CERTIFICATE
91	Q25A02	CHAR	2	210	ART
92	Q25A03	CHAR	2	212	BILINGUAL EDUCATION
93	Q25A04	CHAR	2	214	BIOLOGICAL SCIENCE
94	Q25A05	CHAR	2	216	BUSINESS
95	Q25A06	CHAR	2	218	ENGLISH LANGUAGE ARTS
96	Q25A07	CHAR	2	220	FOREIGN LANGUAGES
97	Q25A08	CHAR	2	222	HEALTH
98	Q25A09	CHAR	2	224	HOME ECONOMICS
99	Q25A10	CHAR	2	226	INDUSTRIAL ARTS
100	Q25A11	CHAR	2	228	MATHEMATICS
101	Q25A12	CHAR	2	230	MUSIC
102	Q25A13	CHAR	2	232	PHYSICAL SCIENCES
103	Q25A14	CHAR	2	234	PHYSICAL EDUCATION
104	Q25A15	CHAR	2	236	PRE-ELEMENTARY EDUCATION
105	Q25A16	CHAR	2	238	READING
106	Q25A17	CHAR	2	240	SOCIAL SCIENCES/SOCIAL STUDIES
107	Q25A18	CHAR	2	242	MENTALLY RETARDED
108	Q25A19	CHAR	2	244	HEARING IMPAIRED, DEAF
109	Q25A20	CHAR	2	246	SPEECH IMPAIRED
110	Q25A21	CHAR	2	248	SERIOUSLY EMOTIONALLY DISTURBED
111	Q25A22	CHAR	2	250	SPECIFIC LEARNING DISABILITY
112	Q25A23	CHAR	2	252	GENERAL CERTIFICATE
113	Q25A24	CHAR	2	254	OTHER SPECIAL EDUCATION
114	Q25A25	CHAR	2	256	VOCATIONAL EDUCATION
115	Q25A26	CHAR	2	258	OTHER FIELD
117	Q25BFL	CHAR	2	261	FIELD BEST QUALIFIED TO TEACH
116	Q25BYN	CHAR	1	260	ELIG/CERT TEACH MORE THAN ONE FIELD
121	Q29A	CHAR	1	266	LOOKED FOR WORK BETWEEN 4/8/85 & 5/3/85
122	Q29B	CHAR	1	267	AVAILABLE FOR WORK DURING 4/29/85
14	Q3SEX	CHAR	1	60	SEX
124	Q31A1	CHAR	1	269	OPERATED BY LOCAL SCHOOL DISTRICT
125	Q31A2	CHAR	1	270	OPERATED BY STATE OR FEDERAL AGENCY
126	Q31A3	CHAR	1	271	RELIGIOUSLY AFFILIATED SCHOOL
127	Q31A4	CHAR	1	272	NON-RELIGIOUSLY AFFILIATED SCHOOL
130	Q32B01	CHAR	2	277	SEE Q24C01-Q24CUG
131	Q32B02	CHAR	2	279	
132	Q32B03	CHAR	2	281	
133	Q32B04	CHAR	2	283	
134	Q32B05	CHAR	2	285	
135	Q32B06	CHAR	2	287	
136	Q32B07	CHAR	2	289	
137	Q32B08	CHAR	2	291	
138	Q32B09	CHAR	2	293	
139	Q32B10	CHAR	2	295	
140	Q32B11	CHAR	2	297	
141	Q32B12	CHAR	2	299	
129	Q32BKK	CHAR	2	275	
128	Q32BPK	CHAR	2	273	

142	Q32BU6	CHAR	2	301	
145	Q35A01	CHAR	2	305	
146	Q35A02	CHAR	2	307	
147	Q35A03	CHAR	2	309	
148	Q35A04	CHAR	2	311	
149	Q35A05	CHAR	2	313	
150	Q35A06	CHAR	2	315	
151	Q35A07	CHAR	2	317	
152	Q35A08	CHAR	2	319	
153	Q35A09	CHAR	2	321	
154	Q35A10	CHAR	2	323	
155	Q35A11	CHAR	2	325	
156	Q35A12	CHAR	2	327	
157	Q35A13	CHAR	2	329	
158	Q35A14	CHAR	2	331	
159	Q35A15	CHAR	2	333	
160	Q35A16	CHAR	2	335	
161	Q35A17	CHAR	2	337	
162	Q35A18	CHAR	2	339	
163	Q35A19	CHAR	2	341	
164	Q35A20	CHAR	2	343	
165	Q35A21	CHAR	2	345	
166	Q35A22	CHAR	2	347	
167	Q35A23	CHAR	2	349	
168	Q35A24	CHAR	2	351	
169	Q35A25	CHAR	2	353	
170	Q35A26	CHAR	2	355	
172	Q35BFL	CHAR	2	358	
171	Q35BYN	CHAR	1	357	
174	Q35CFL	CHAR	2	361	FIELD NAME TAUGHT BY SECOND LANGUAGE
175	Q35CLN	CHAR	2	363	LANGUAGE USED TO TEACH
173	Q35CYN	CHAR	1	360	TEACHING BY SECOND LANGUAGE
176	Q35D1	CHAR	1	365	FOR INSTRUCTION IN SUBJECT AREAS
177	Q35D2	CHAR	1	366	TEACH AS LANGUAGE ARTS
178	Q35D3	CHAR	1	367	TEACH IT AS A FOREIGN LANGUAGE
179	Q35D4	CHAR	1	368	USE IT IN INFORMAL SITUATIONS
180	Q35D5	CHAR	1	369	OTHER
182	Q37A	CHAR	1	371	TAUGHT CLASSES OTHER THAN SPECIAL ED
183	Q37B	CHAR	1	372	TAUGHT MORE SPEC ED THAN OTHER CLASSES
184	Q38A1	CHAR	1	373	TEACHING HANDICAPPED-FORMAL EDUCATION
185	Q38A2	CHAR	1	374	TEACHING HANDICAPPED-OTHER EDUCATION
186	Q38A3	CHAR	1	375	TEACHING HANDICAPPED-NONE
16	Q5RACE	CHAR	1	62	RACE/ETHNIC GROUP
17	Q6AGE	NUM	8	63	AGE
19	Q8A	CHAR	1	72	IF SPEAK SECOND LANGUAGE FLUENTLY
20	Q8B	CHAR	2	73	WHAT 2ND LANGUAGE DO YOU SPEAK FLUENTLY
21	Q8C1	CHAR	1	75	MY HOME LANGUAGE
22	Q8C2	CHAR	1	76	LEARNED IT FROM FRIENDS
23	Q8C3	CHAR	1	77	STUDIED IT IN SCHOOLS IN THIS COUNTRY
24	Q8C4	CHAR	1	78	LEARNED IT IN SCHOOLS WHERE SPEAK
25	Q8C5	CHAR	1	79	LEARNED IT AS A RESIDENT WHERE SPEAK
26	Q8C6	CHAR	1	80	OTHER
27	Q9A	CHAR	1	81	IF ENROLLED IN COLLEGES DURING 1/85-2/85
28	Q9B	CHAR	1	82	IF WORKING TOWARD ANOTHER DEGREE
247	REPL1	NUM	8	501	
248	REPL2	NUM	8	509	

SEE Q25A01-Q25BYN

249	REPL3	NUM	8	517
250	REPL4	NUM	8	525
251	REPL5	NUM	8	533
252	REPL6	NUM	8	541
253	REPL7	NUM	8	549
254	REPL8	NUM	8	557
255	REPL9	NUM	8	565
256	REPL10	NUM	8	573
257	REPL11	NUM	8	581
258	REPL12	NUM	8	589
259	REPL13	NUM	8	597
260	REPL14	NUM	8	605
261	REPL15	NUM	8	613
262	REPL16	NUM	8	621
263	REPL17	NUM	8	629
264	REPL18	NUM	8	637
265	REPL19	NUM	8	645
266	REPL20	NUM	8	653
267	REPL21	NUM	8	661
268	REPL22	NUM	8	669
269	REPL23	NUM	8	677
270	REPL24	NUM	8	685
271	REPL25	NUM	8	693
272	REPL26	NUM	8	701
273	REPL27	NUM	8	709
274	REPL28	NUM	8	717
275	REPL29	NUM	8	725
276	REPL30	NUM	8	733
277	REPL31	NUM	8	741
278	REPL32	NUM	8	749
284	SALARY	NUM	8	797
6	TBI	CHAR	1	27

repl thru rep32 are replicate weight
variables used only to calculate standard
errors.

RECODE VARIABLE ANNUAL SALARY
TRADITIONALLY BLACK INSTITUTION

Attachment 1

**1985 Survey of 1983-84 College
Graduates Questionnaire**

**U.S. Department of Education
National Center for Education Statistics
Washington, D.C. 20202**

**1985
SURVEY OF 1983-84
COLLEGE GRADUATES**

**FORM APPROVED
OMB No. 1850-0532
EXPIRATION DATE: 12/85**

**NATIONAL
CENTER FOR
EDUCATION
STATISTICS**

**INSTRUCTIONS FOR COMPLETING
1985 SURVEY OF 1983-84 COLLEGE GRADUATES**

1. There are two types of questions asked in this questionnaire. Please follow the instructions given below for each type.

- a. The first type of question requires that you write in an answer in the space provided.

Example: What was your major field of study for the degree mentioned in Q1a above?

MAJOR FIELD SOCIOLOGY

- b. The second type of question lists the possible answers followed by a number code. For these questions, circle the number code of the appropriate answer. Circle only one answer code for each question unless otherwise instructed.

Example: During this enrollment, were you working toward another degree?

YES.....

NO..... 2

2. Please answer all questions in the order they appear on the questionnaire unless instructed otherwise. For some questions, the answer you circle will determine if you should answer the next question or skip it. The instructions to skip to another question are given in parentheses next to the answer code. If an answer code you circle has no instruction next to it, continue with the next question.

Example: Were you enrolled in a college or university during the period of January-February 1985? (CIRCLE ONE CODE ONLY)

YES: FULL-TIME 1

YES: PART-TIME 2

NO 3 (SKIP TO Q10)

In the above example, if you circled code 1 or 2 (YES: FULL-TIME OR YES: PART-TIME), you would go on to the next question. If you circled code 3 (NO), you would skip to question 10.

UNITED STATES DEPARTMENT OF EDUCATION
National Center For Education Statistics
Washington, D.C. 20202

FORM APPROVED
OMB No. 1850-0532
EXPIRATION DATE: 12/85

1985 SURVEY OF 1983-84 COLLEGE GRADUATES

All information which would permit identification of individuals will be regarded as strictly confidential, will be used only for the purposes of the survey, and will not be disclosed or released to any other group or individual, except as provided by law. All information obtained by the survey will be combined and reported only in statistical form. This survey is authorized by law (20 U.S.C. 1221e.1). While you are not required to respond, your cooperation is needed to make the results of this survey comprehensive, accurate, and timely.

- Q1a. According to information made available by the institution, you received the following degree at the institution shown on the label below. If this information is incorrect, please make the necessary corrections on the label.

GENERAL INFORMATION

- Q2. What was your major field of study for the degree mentioned in Q1a above?
(specify area) _____
- Q3. What is your sex? (CIRCLE ONE CODE ONLY)
- MALE 1
FEMALE 2
- Q4. What was your marital status during the week of April 29, 1985? (CIRCLE ONE CODE ONLY)
- MARRIED, LIVING WITH SPOUSE 1
OTHER (MARRIED, BUT NOT LIVING
WITH SPOUSE, WIDOWED, DIVORCED
OR NEVER MARRIED) 2
- Q5. To what race/ethnic group do you belong? (CIRCLE ONE CODE ONLY)
- WHITE, NOT OF HISPANIC ORIGIN 1
BLACK, NOT OF HISPANIC ORIGIN 2
HISPANIC (e.g., Puerto Rican, Cuban, Mexican, etc.) 3
ASIAN OR PACIFIC ISLANDER 4
AMERICAN INDIAN OR ALASKAN NATIVE 5
- Q6. What was your age on your last birthday? Enter age: _____
- Q7. Does your father or mother have a college degree? (CIRCLE ONE CODE ONLY)
- YES 1
NO 2
DON'T KNOW 3
- Q8a. Do you speak any language fluently other than English?
- YES 1 (GO TO Q8b)
NO 2 (SKIP TO Q9a)

- Q1b. Did you obtain this bachelor's or master's degree between July 1, 1983 and June 30, 1984?
(PLEASE CHECK APPROPRIATE BOX)

month year

YES | | (specify month and year) _____ (GO TO Q2)

NO | | Please return questionnaire in postage paid envelope. (It is important for
statistical purposes to receive a reply from everyone who was sent a
questionnaire.)

Q8b. What language other than English do you speak? (If you speak more than one other language, respond for the language you speak most proficiently.)

(Specify) _____

Q8c. How did you learn the language indicated in Q8b? (CHECK ALL THAT APPLY)

IT WAS MY HOME LANGUAGE..... 1
I LEARNED IT FROM FRIENDS..... 2
I STUDIED IT IN HIGH SCHOOL OR COLLEGE IN THIS COUNTRY..... 3
I LEARNED IT IN HIGH SCHOOL OR COLLEGE WHERE IT IS SPOKEN..... 4
I LEARNED IT AS A RESIDENT IN A COUNTRY WHERE IT IS SPOKEN..... 5
OTHER (specify) _____ 6

Q9a. Were you enrolled in a college or university during the period of January - February 1985? (CIRCLE ONE CODE ONLY)

YES, FULL-TIME 1 (GO TO Q9b)
YES, PART-TIME 2 (GO TO Q9b)
NO 3 (SKIP TO Q10)

Q9b. During this enrollment, were you working toward another degree? (CIRCLE ONE CODE ONLY)

YES 1
NO 2

Q10. For each type of financial aid listed below, please indicate whether you received such aid for the last year of your education for the degree in Q1a. (CIRCLE ONE CODE FOR EACH TYPE OF FINANCIAL AID)

FELLOWSHIPS, SCHOLARSHIPS, GRANTS, AND ASSISTANTSHIPS

	YES	NO
VETERANS ADMINISTRATION WAR ORPHANS	1	2
V.A. DIRECT BENEFIT (G.I. BILL)	1	2
PELL GRANTS	1	2
SUPPLEMENTAL EDUCATION OPPORTUNITY GRANT	1	2
R.O.T.C. SCHOLARSHIP OR STIPEND	1	2
FEDERAL WORK STUDY PROGRAM	1	2
BILINGUAL EDUCATION GRANT/SCHOLARSHIP	1	2
OTHER FEDERAL GRANT/SCHOLARSHIP	1	2
(specify) _____		
COLLEGE OR UNIVERSITY FELLOWSHIP, SCHOLARSHIP, OR GRANT FROM COLLEGE OR UNIVERSITY FUNDS.	1	2
ASSISTANTSHIP	1	2
STATE FELLOWSHIP, SCHOLARSHIP, OR GRANT	1	2
OTHER FELLOWSHIP OR GRANT	1	2

LOANS

	YES	NO
NATIONAL DIRECT STUDENT LOAN	1	2
GUARANTEED STUDENT LOAN (FISL)	1	2
BILINGUAL EDUCATION LOAN	1	2
OTHER FEDERAL LOAN (specify) _____	1	2
COLLEGE OR UNIVERSITY LOAN	1	2
STATE LOAN	1	2
REGULAR BANK LOAN	1	2
RELATIVES OR FRIENDS	1	2
OTHER LOAN	1	2

Q11. When you received the degree referred to in Q1a, did you have any debt that was directly related to your education (tuition and fees, room and board, books and supplies, and transportation to and from school)?

YES..... AMOUNT OWED: \$ _____
 NO

Q12. Estimate how well you did in all of your coursework for your UNDERGRADUATE degree. (IF YOUR SCHOOL DID NOT GRADE ON A 4.00 BASIS, CONVERT YOUR RECORD TO APPROPRIATE CATEGORY) (CIRCLE ONE CODE ONLY)

MOSTLY A (3.75-4.00
grade point average) 1
ABOUT HALF A AND HALF B
(3.25-3.74 grade point average) 2
MOSTLY B (2.75-3.24
grade point average) 3
ABOUT HALF B AND HALF C
(2.25-2.74 grade point average) 4
MOSTLY C (1.75-2.24
grade point average) 5
ABOUT HALF C AND HALF D
(1.25-1.74 grade point average) 6
MOSTLY D OR BELOW
(LESS THAN 1.25) 7
HAVE NOT TAKEN ANY COURSES
FOR WHICH GRADES WERE GIVEN 8

Q13. Were you employed for pay during the week of April 29, 1985?
(CIRCLE ONE CODE ONLY)

YES (includes temporarily absent from
your job because of vacation, illness,
bad weather, strike, etc.) 1
NO (includes laid off) 2 (SKIP TO Q24a)

JOB INFORMATION

Regarding the principal job (if you had more than one job at the same time) you held during the week of April 29, 1985:

Q14a. WHAT KIND OF BUSINESS, INDUSTRY, OR ORGANIZATION WERE YOU WORKING FOR? (For example: outpatient care facility, accounting firm, T.V. manufacturer, day care center, school, etc.)

(PLEASE DO NOT USE ABBREVIATIONS IN ANSWERING THESE QUESTIONS)

Q14b. WHAT KIND OF WORK WERE YOU DOING? (For example: registered nurse, electrical engineer, accountant, school guidance counselor, school teacher, etc.)

Q14c. WHAT WERE YOUR MAJOR ACTIVITIES OR DUTIES ON THE JOB? (For example:
patient care, auditing firm's books, designing, wiring circuits, advising and counseling
students, child care, teaching students, etc.)

Q15. Please indicate which of the following types of firms you were employed by on this principal job. (CIRCLE ONE CODE ONLY)

EMPLOYEE OF PRIVATE COMPANY OR BUSINESS, OR
INDIVIDUAL, FOR WAGES, SALARY, OR COMMISSIONS 1
FEDERAL GOVERNMENT EMPLOYEE 2
STATE GOVERNMENT EMPLOYEE 3
LOCAL GOVERNMENT EMPLOYEE (CITY, COUNTY, ETC.) 4
SELF-EMPLOYED IN OWN BUSINESS, PROFESSIONAL PRACTICE OR FARM
Own business, not incorporated 5
Own business, incorporated 6
Other type of firm (specify) 7

Q16a. How many hours per week were you employed to work at this job?

_____ hours per week

Q16b. Was this job classified as full-time? (CIRCLE ONE CODE ONLY)

YES 1

NO, I SPECIFICALLY WANTED FULL-TIME
WORK, BUT I COULD NOT FIND ANY 2

NO, I DID NOT WANT FULL-TIME WORK 3

Q17. At what rate were you paid, before deductions, on this job? (PLEASE ANSWER ONLY FOR
THE TIME PERIOD YOU CAN REPORT MOST ACCURATELY.)

\$ _____ PER YEAR

\$ _____ PER MONTH

\$ _____ PER WEEK

\$ _____ PER DAY

\$ _____ PER HOUR

Q18. Was a college degree required in order to obtain the principal job you have described?
(CIRCLE ONE CODE ONLY)

YES 1

NO 2

DON'T KNOW 3

Q19a. Please indicate the extent to which your work on this principal job was related to your major
field of study for the degree listed in Q1a.

CLOSELY RELATED 1 (SKIP TO Q20)

SOMEWHAT RELATED 2 (SKIP TO Q20)

NOT RELATED 3 (GO TO Q19b)

Q19b. What was the main reason you took a job not related to your field? (CIRCLE ONE CODE
ONLY)

I COULD NOT FIND A JOB IN MY FIELD 1

THE PAY IS BETTER THAN A JOB IN MY FIELD 2

BETTER OPPORTUNITY FOR ADVANCEMENT THAN IN MY FIELD 3

I WANTED TO SEE IF I LIKED THIS KIND OF WORK 4

Q19b (CONTINUED)

OPPORTUNITY TO HELP PEOPLE OR BE USEFUL TO SOCIETY 5

I WANTED TO WORK IN MANUAL OCCUPATION 6

OTHER (specify) 7

Q20. Which statement best describes how you regard your principal job? (CIRCLE ONE CODE
ONLY)

JOB WITH POSSIBLE CAREER POTENTIAL 1

JOB WITH DEFINITE CAREER POTENTIAL 2

TEMPORARY JOB UNTIL A BETTER ONE COULD BE FOUND 3

TEMPORARY WHILE WAITING TO REPORT TO A NEW JOB 4

TEMPORARY JOB TO EARN MONEY TO DO SOMETHING ELSE (e.g.,
travel, school, have free time, or to complete
career preparation) 5

JOB TO EARN MONEY WHILE I DECIDE WHAT KIND OF WORK I WANT 6

OTHER (specify) 7

Q21a. In addition to the principal job you have described above, did you work for pay at a second
job during the week of April 29, 1985?

YES 1 (GO TO Q21b)

NO 2 (SKIP TO Q22)

Q21b. Was this second job that of a school teacher at any level (prekindergarten through grade
12)? (EXCLUDE JOBS AS TEACHER AIDES OR DAY CARE CENTER WORKERS WITH
NO INSTRUCTIONAL DUTIES)

YES 1 (GO TO Q21c)

NO 2 (SKIP TO Q22)

Q21c. Was this second job teaching in a public or private school?
(CIRCLE ONE CODE ONLY)

PUBLIC 1

PRIVATE 2

BOTH 3

Q22. Did you have any full-time work experience prior to receiving the degree referred to in Q1a?
(DO NOT INCLUDE SUMMER OR OTHER TEMPORARY JOBS)

YES ENTER NUMBER OF YEARS: _____

NO

Q23a. Prior to completing the requirements for the degree referred to in Q1a, were you at any time employed as a school teacher at any level (prekindergarten through grade 12)? (EXCLUDE STUDENT OR PRACTICE TEACHING AND WORK AS A TEACHER'S AIDE)

YES 1 (GO TO Q23b)

NO 2 (SKIP TO Q24a)

Q23b. Was this teaching full-time or part-time? (CIRCLE ONE CODE ONLY)

FULL-TIME 1

PART-TIME 2

BOTH 3

PREPARATION TO TEACH

Q24a. During the week of April 29, 1985, did you either

a. Have a certificate or license to teach school

or were you

b. Eligible (that is, had you completed all the courses required including student or practice teaching) for a certificate or license to teach school, at any or all levels (prekindergarten through grade 12) in at least one State?

YES 1 (GO TO Q24b)

NO 2 (SKIP TO Q26)

DON'T KNOW 3 (SKIP TO Q26)

(If you answered no or don't know to Q24a, please skip to Q28)

Q24b. When did you FIRST become ELIGIBLE (complete all required courses for certificate or license) to teach?

BEFORE JULY 1, 1983 1

JULY 1, 1983 THROUGH JUNE 30, 1984 2

AFTER JUNE 30, 1984 3

Q24c. Circle below all the grades that you are eligible or certified to teach.

PK K 1 2 3 4 5 6 7 8 9 10 11 12 UNGRADED

Q25a. Below is a list of FIELDS of eligibility or certification to teach. During the week of April 29, 1985, please indicate the field(s) you were eligible or certified to teach. (CIRCLE ALL CODES THAT APPLY)

FIELD	ELIGIBLE OR CERTIFIED TO TEACH
GENERAL CERTIFICATE, NO SPECIFIC FIELD (e.g., elementary, early childhood, etc.)	01
ART	02
BILINGUAL EDUCATION	03
BIOLOGICAL SCIENCE	04
BUSINESS	05
ENGLISH LANGUAGE ARTS	06
FOREIGN LANGUAGES	07
HEALTH	08
HOME ECONOMICS	09
INDUSTRIAL ARTS	10
MATHEMATICS	11

Q25a. (CONTINUED)

FIELD	ELIGIBLE OR CERTIFIED TO TEACH
MUSIC	12
PHYSICAL SCIENCES	13
PHYSICAL EDUCATION	14
PRE-ELEMENTARY EDUCATION	15
READING	16
SOCIAL SCIENCES/SOCIAL STUDIES	17
SPECIAL EDUCATION:	
MENTALLY RETARDED	18
HEARING IMPAIRED, DEAF	19
SPEECH IMPAIRED	20
SERIOUSLY EMOTIONALLY DISTURBED	21
SPECIFIC LEARNING DISABILITY	22
GENERAL CERTIFICATE (NO SPECIFIC CONDITION)	23
OTHER SPECIAL EDUCATION	24
VOCATIONAL EDUCATION	25
OTHER FIELD	26

Q25b. Are you eligible or certified to teach in more than one field (i.e., did you circle more than one field in Q25a)? (CHECK APPROPRIATE BOX)

YES (Specify field you are best qualified to teach of the fields in Q25a) _____

NO

Q26. Did you teach (excluding student teaching) or apply for a job as a school teacher at any or all levels (prekindergarten through grade 12) since or immediately prior to receiving the degree referred to in Q1a? (CIRCLE ONE CODE ONLY)

APPLIED ONLY (DID NOT TEACH) 1 (SKIP TO Q28)

TAUGHT 2 (SKIP TO Q28)

DID NOT APPLY 3 (GO TO Q27)

Q27. Which statement best describes your decision not to apply for a teaching job since or immediately prior to receiving the degree referred to in Q1a? (CIRCLE ONE CODE ONLY)

I WANTED TO TEACH AT THE TIME, BUT:

I needed or wanted another degree or more course work before applying for a teaching job 1

I had all the course work I needed but I wasn't ready to apply for a job 2

Teaching jobs were so hard to get, I didn't bother to apply 3

I DID NOT WANT TO TEACH AT THE TIME BECAUSE:

Student or practice teaching before graduation discouraged me from wanting to teach 4

I received a better job offer outside of teaching 5

I didn't like low pay and teaching conditions 6

I was never interested in teaching 7

Other (specify) 8

Q28. Regarding the principal job you held during the week of April 29, 1985, in Q13, was this principal job that of a school teacher (or substitute teacher) at any or all levels (prekindergarten through grade 12) in either a public or private school? (Day care workers with no instructional duties and teacher aides should not be included as teachers.)

YES 1 (SKIP TO Q31)

NO 2 (STOP HERE.
Please return questionnaire
in postage paid envelope.
Thank you for your cooperation.)

NOT WORKING DURING
WEEK
OF APRIL 29, 1985 3 (GO TO Q29a)

Questions 29 and 30 are to be answered only by those persons not working for pay during the week of April 29, 1985

Q29a. If you were not working for pay during the week of April 29, 1985, did you look for work at any time between April 8, 1985, and May 3, 1985?

YES..... 1 (GO TO Q29b)

NO..... 2 (SKIP TO Q30)

Q29b. Were you available for work during the week of April 29, 1985?

YES..... 1 (Thank you for your cooperation. Please return questionnaire in postage paid envelope)

NO..... 2 (GO TO Q30)

Q30. What was the main reason you were not working during the week of April 29, 1985? (CIRCLE ONE CODE ONLY)

I WAS GOING TO SCHOOL 1

I HAD FAMILY RESPONSIBILITIES (including pregnancy) 2

I COULD NOT FIND THE KIND OF JOB I WANTED 3

I DID NOT WANT TO WORK 4

I HAD ALREADY SECURED A NEW JOB TO BEGIN SOMETIME AFTER FEBRUARY 8, 1985 (including jobs starting summer or fall) 5

I WAS LAID OFF 6

OTHER REASON (specify) 7

STOP HERE. Thank you for your cooperation. Please return questionnaire in postage paid envelope.

TEACHERS

Q31. In which of the following types of public or private schools did you teach in this job? (CIRCLE ALL CODES THAT APPLY)

A public school (OPERATED BY A LOCAL SCHOOL DISTRICT) 1

A public school (OPERATED BY STATE OR FEDERAL AGENCY) 2

A private school (RELIGIOUSLY AFFILIATED SCHOOL) 3

A private school (NON-RELIGIOUSLY AFFILIATED SCHOOL) 4

Q32. Circle below all the grades that you were actually teaching during the week of April 29, 1985.

PK K 1 2 3 4 5 6 7 8 9 10 11 12 UNGRADED

Q33. Which statement best describes your decision to become a teacher? (CIRCLE ONE CODE ONLY)

I HAVE ALWAYS WANTED TO BE A TEACHER 1

I LIKE TO WORK WITH CHILDREN 2

I LIKE THE JOB SECURITY OFFERED BY TEACHING 3

I GET SATISFACTION FROM TEACHING 4

I FEEL THE SALARY FOR TEACHING IS GOOD 5

I COULDN'T FIND ANY OTHER JOB 6

OTHER (specify) 7

Q34. Are you a "self-contained" class teacher?

(A self-contained class teacher is one who has the same students for all or most of the daily school session. Most preprimary, primary and elementary teachers are "self-contained" class teachers. If you teach only special education students, do not consider yourself a self-contained class teacher.)

YES..... 1 (SKIP TO Q38)

NO..... 2 (GO TO Q35a)

Q35a. In what field(s) are you teaching in this job? (CIRCLE ALL CODES THAT APPLY)

GENERAL CERTIFICATE, NO SPECIFIC FIELD 01
(e.g., elementary, early childhood, etc.) 02
ART 02
BILINGUAL EDUCATION 03
BIOLOGICAL SCIENCE 04
BUSINESS 05
ENGLISH LANGUAGE ARTS 06
FOREIGN LANGUAGES 07
HEALTH 08
HOME ECONOMICS 09
INDUSTRIAL ARTS 10
MATHEMATICS 11
MUSIC 12
PHYSICAL SCIENCES 13
PHYSICAL EDUCATION 14
PRE-ELEMENTARY EDUCATION 15
READING 16
SOCIAL SCIENCES/SOCIAL STUDIES 17
SPECIAL EDUCATION:
 MENTALLY RETARDED 18
 HEARING IMPAIRED, DEAF 19
 SPEECH IMPAIRED 20
 SERIOUSLY EMOTIONALLY DISTURBED 21
 SPECIFIC LEARNING DISABILITY 22
 GENERAL CERTIFICATE (NO SPECIFIC CONDITION) 23
 OTHER SPECIAL EDUCATION 24
VOCATIONAL EDUCATION 25
OTHER FIELD 26

Q35b. Are you teaching in more than one field (i.e., circled more than one field in Q35a)? (CHECK APPROPRIATE BOX)

YES (Specify field taught most of the time of fields listed in Q35a) _____

NO

Q35c. Do you teach any of the fields in Q35a (other than Foreign Languages) in a language other than English? (CHECK APPROPRIATE BOX)

YES (Specify field and language) ... (GO TO Q35d)

NO ... (SKIP TO Q36)

Q35d. How do you use your ability to teach in the language indicated in Q35c? (CIRCLE ALL CODES WHICH APPLY)

I USE IT FOR INSTRUCTION IN SUBJECT AREAS SUCH AS MATHEMATICS, SCIENCE, ETC 1
I TEACH THE LANGUAGE ARTS OF THE LANGUAGE TO PUPILS FOR WHOM IT IS THE HOME LANGUAGE 2
I TEACH IT AS A FOREIGN LANGUAGE TO PUPILS FOR WHOM IT IS NOT THE HOME LANGUAGE 3
I ONLY USE IT IN INFORMAL (NON-TEACHING) SITUATIONS 4
OTHER (specify) _____
_____ 5

Q36. Did you indicate that you teach in the field(s) of special education for handicapped students in Q35a? (DO NOT INCLUDE TEACHING REGULAR CLASSES WITH MAINSTREAMED SPECIAL EDUCATION STUDENTS)

YES 1 (GO TO Q37a)
NO 2 (SKIP TO Q38)

Q37a. Are you teaching in any class(es) in addition to teaching in a program of special education for handicapped students?

YES 1 (GO TO Q37b)
NO 2 (SKIP TO Q38)

Q37b. Did you spend more of your time teaching in a program of special education for handicapped students than in your other class(es)?

YES 1

NO 2

Q38. During the week of April 29, 1965, what was your preparation (if any) for teaching handicapped students? (CIRCLE ALL CODES THAT APPLY)

FORMAL EDUCATION (Courses taken for college credit in a regular undergraduate or graduate course or program prior to and/or during employment). 1

OTHER EDUCATION (Any study or training program completed both prior to and during employment other than in a regular undergraduate or graduate course or program). 2

NONE 3

Q39. How many months per year did you work under your teaching contract for this job? (IF YOU HAD NO CONTRACT, CIRCLE "6")

9 months 1

10 months 2

11 months 3

12 months 4

OTHER 5

NO CONTRACT 6

TO TEACHERS: Thank you for your cooperation. Please return questionnaire in the postage paid envelope.

Attachment 2

**LIST OF MAJOR FIELDS AND
SUBSPECIALTIES**

LIST OF MAJOR FIELDS AND SUBSPECIALTIES

0100 Agriculture and Natural Resources

- 0101 Agriculture, General
- 0102 Agronomy
- 0103 Soils Science
- 0104 Animal Science
- 0105 Dairy Science

- 0106 Poultry Science
- 0107 Fish, Game, and Wildlife Management
- 0108 Horticulture
- 0109 Ornamental Horticulture
- 0110 Agricultural and Farm Management

- 0111 Agricultural Economics
- 0112 Agricultural Business
- 0113 Food Science and Technology
- 0114 Forestry
- 0115 Natural Resources Management

- 0116 Agriculture and Forestry Technologies
- 0117 Range Management
- 0118 Pest Control and Crop Protection
- 0119 Other

0200 Architecture and Environmental Design

- 0201 Environmental Design, General
- 0202 Architecture
- 0203 Interior Design
- 0204 Landscape Architecture
- 0205 Urban Architecture
- 0206 City, Community, and Regional Planning
- 0299 Other

0300 Area Studies

- 0301 Asian Studies, General
- 0302 East Asian Studies
- 0303 South Asian (India, etc.) Studies
- 0304 Southeast Asian Studies
- 0305 African Studies

- 0306 Islamic Studies
- 0307 Russian and Slavic Studies
- 0308 Latin American Studies
- 0309 Middle Eastern Studies
- 0310 European Studies, General

0311 Eastern European Studies
0312 West European Studies
0313 American Studies
0314 Pacific Area Studies
0315 French Studies
0399 Other

0400 Biological Sciences

0401 Biology, General
0402 Botany, General
0403 Bacteriology
0404 Plant Pathology
0405 Plant Pharmacology

0406 Plant Physiology
0407 Zoology, General
0408 Pathology, Human and Animal
0409 Pharmacology, Human and Animal
0410 Physiology, Human and Animal

0411 Microbiology
0412 Anatomy
0413 Histology
0414 Biochemistry
0415 Biophysics

0416 Molecular Biology
0417 Cell Biology
0418 Marine Biology
0419 Biometrics and Biostatistics
0420 Ecology

0421 Entomology
0422 Genetics
0423 Radiobiology
0424 Nutrition, Scientific
0425 Neurosciences

0426 Toxicology
0427 Embryology
0428 Pre-med
0429 Pre-vet
0430 Pre-dentistry
0431 Immunology
0499 Other

0500 Business and Management

0501 Business and Commerce, General
0502 Accounting
0503 Business Statistics
0504 Banking and Finance
0505 Investments and Securities

0506 Business Management and Administration
0507 Operations Research
0508 Hotel and Restaurant Management
0509 Marketing and Purchasing

0510 Transportation and Public Utilities
0511 Real Estate
0512 Insurance
0513 International Business
0514 Secretarial Studies

0515 Personnel Management
0516 Labor and Industrial Relations
0517 Business Economics
0518 Organizational Behavior
0599 Other

0600 Communications

0601 Communications, General
0602 Journalism
0603 Radio - Television
0604 Advertising
0605 Communication Media
0606 Mass Communications
0607 Public Relations
0608 Group Communications
0699 Other

0700 Computer and Information Sciences

0701 Computer and Information Sciences, General
0702 Information Sciences and Systems
0703 Data Processing
0704 Computer Programming
0705 Systems Analysis
0799 Other

0800 Education

0801 Education, General
0802 Elementary Education, General
0803 Secondary Education, General
0804 Junior High School Education
0805 Higher Education, General

0806 Junior and Community College Education
0807 Adult and Continuing Education
0808 Special Education, General
0809 Administration of Special Education
0810 Education of the Mentally Retarded

- 0811 Education of the Gifted
0812 Education of the Deaf
0813 Education of the Culturally Disadvantaged
0814 Education of the Visually Handicapped
0815 Speech Correction and Communicative Disorders
- 0816 Education of the Emotionally Disturbed
0817 Remedial Education
0818 Special Learning Disabilities
0819 Education of the Physically Handicapped
0820 Education of the Multiple Handicapped
- 0821 Social Foundations
0822 Educational Psychology
0823 Pre-Elementary Education
0824 Educational Statistics and Research
0825 Educational Testing, Evaluation and Measurement
- 0826 Student Personnel
0827 Educational Administration
0828 Educational Supervision
0829 Curriculum and Instruction and Educational Media
0830 Reading Education
- 0831 Art Education
0832 Music Education
0833 Mathematics Education
0834 Science Education
0835 Physical Education
- 0836 Driver and Safety Education
0837 Health Education
0838 Business, Commerce, and Distributive Education
0839 Industrial Arts, Vocational & Technical Education
0840 Guidance and Counseling
0841 English Education
0842 Foreign Languages Education
0843 Social Studies Education
0844 School Management
0845 Speech and Drama Education
0846 School Librarianship
0847 Urban Education
0848 Bilingual Education
0849 Multicultural Education
0850 Community Education
0891 Agricultural Education
0892 Education of Exceptional Children, Not Classified Above
0893 Home Economics Education
0894 Nursing Education
0899 Other

0900 Engineering

- 0901 Engineering, General
- 0902 Aerospace, Aeronautical, Astronautical Engineering
- 0903 Argicultural Engineering
- 0904 Architectural Engineering
- 0906 Chemical Engineering
- 0907 Petroleum Engineering
- 0908 Civil, Construction & Transportation Engineering
- 0909 Electrical, Electronics, Communications Engineering
- 0910 Mechanical Engineering

- 0911 Geological Engineering
- 0912 Geophysical Engineering
- 0913 Industrial and Management Engineering
- 0914 Metallurgical Engineering

- 0915 Materials Engineering
- 0916 Ceramic Engineering
- 0917 Textile Engineering
- 0918 Mining and Mineral Engineering
- 0919 Engineering Physics

- 0920 Nuclear Engineering
- 0921 Engineering Mechanics
- 0922 Environmental and Sanitary Engineering
- 0923 Naval Architecture and Marine Engineering
- 0924 Ocean Engineering
- 0925 Engineering Technologies
- 0999 Other

1000 Fine and Applied Arts

- 1001 Fine Arts, General
- 1002 Art
- 1003 Art History and Appreciation
- 1004 Music (Performing, Composition, Theory)
- 1005 Music (Liberal Arts Program)

- 1006 Music History and Appreciation
- 1007 Dramatic Arts
- 1008 Dance
- 1009 Applied Design and Graphic Design and Fashion Design
- 1010 Cinematography
- 1011 Photography
- 1012 Applied Music
- 1013 Studio Arts
- 1014 Commerical Art
- 1015 History of Architecture
- 1099 Other

1100 Foreign Languages

- 1101 Foreign Languages, General
- 1102 French
- 1103 German
- 1104 Italian
- 1105 Spanish

- 1106 Russian
- 1107 Chinese
- 1111 Hebrew
- 1112 Arabic
- 1113 Indian (Asiatic)
- 1114 Scandinavian Languages
- 1115 Slavic Languages (Other than Russian)
- 1116 African Languages (Non-Semitic)
- 1117 Portuguese
- 1199 Other

1200 Health Professions

- 1201 Health Professions, General
- 1202 Hospital and Health Care Administration
- 1203 Nursing
- 1205 Dental Specialties
- 1207 Medical Specialties

- 1208 Occupational Therapy
- 1209 Optometry
- 1211 Pharmacy
- 1212 Physical Therapy
- 1213 Dental Hygiene

- 1214 Public Health
- 1215 Medical Record Librarianship
- 1216 Podiatry or Podiatric Medicine
- 1217 Biomedical Communication
- 1219 Veterinary Medicine Specialties

- 1220 Speech Pathology and Audiology
- 1221 Chiropractic
- 1222 Clinical Social Work
- 1223 Medical Laboratory Technologies
- 1224 Dental Technologies
- 1225 Radiologic Technologies
- 1226 Rehabilitation
- 1227 Expressive Therapy(ies)
- 1228 Allied Health
- 1299 Other

1300 Home Economics

- 1301 Home Economics, General
- 1302 Home Decoration and Home Equipment
- 1303 Clothing and Textiles
- 1304 Consumer Economics and Home Management
- 1305 Family Relations and Child Development

- 1306 Foods and Nutrition
- 1307 Institutional Management and Cafeteria Management
- 1399 Other

1400 Law

- 1401 Law, General
- 1402 Pre-law

1500 Letters

- 1501 English, General
- 1502 Literature, English
- 1503 Comparative Literature
- 1504 Classics
- 1505 Linguistics
- 1506 Speech, Debate, and Forensic Science
- 1507 Creative Writing
- 1508 Teaching of English as a Foreign Language

- 1509 Philosophy
- 1510 Religious Studies
- 1511 Literature, General (except English)
- 1599 Other

1600 Library Science

- 1601 Library Science, General
- 1699 Other

1700 Mathematics

- 1701 Mathematics, General
- 1702 Statistics, Mathematical and Theoretical
- 1703 Applied Mathematics
- 1799 Other

1800 Military Sciences

- 1801 Military Science (Army)
- 1802 Naval Science (Navy, Marines)
- 1803 Aerospace Science (Air Force)
- 1899 Other

1900 Physical Sciences

- 1901 Physical Sciences, General
- 1902 Physics, General
- 1903 Molecular Physics
- 1904 Nuclear Physics
- 1905 Chemistry, General

- 1906 Inorganic Chemistry
- 1907 Organic Chemistry
- 1908 Physical Chemistry
- 1909 Analytical Chemistry
- 1910 Pharmaceutical Chemistry

- 1911 Astronomy
- 1912 Astrophysics
- 1913 Atmospheric Sciences and Meteorology
- 1914 Geology
- 1915 Geochemistry

- 1916 Geophysics and Seismology
- 1917 Earth Sciences, General
- 1918 Paleontology
- 1919 Oceanography
- 1920 Metallurgy
- 1921 Industrial Chemistry
- 1991 Other Earth Sciences
- 1992 Other Physical Sciences

2000 Psychology

- 2001 Psychology, General
- 2002 Experimental Psychology
- 2003 Clinical Psychology
- 2004 Psychology for Counseling
- 2005 Social Psychology

- 2006 Psychometrics
- 2007 Statistics in Psychology
- 2008 Industrial Psychology
- 2009 Developmental Psychology
- 2010 Physiological Psychology
- 2011 Behavioral Science
- 2012 Comparative Psychology
- 2013 Rehabilitation Counseling
- 2014 Animal Behavior
- 2099 Other

2100 Public Affairs and Services

- 2101 Community Services, General
- 2102 Public Administration
- 2103 Parks and Recreation Management
- 2104 Social Work and Helping Services
- 2105 Law Enforcement and Corrections and
Criminology and Criminal Justice
- 2106 International Public Service
- 2107 Administration of Justice
- 2199 Other

2200 Social Sciences, Total

- 2201 Social Sciences, General
- 2202 Anthropology
- 2203 Archaeology
- 2204 Economics
- 2205 History
- 2206 Geography
- 2207 Political Science and Government
- 2208 Sociology
- 2209 Criminology
- 2210 International Relations
- 2211 Afro-American (Black Culture) Studies
- 2212 Amercian Indian Cultural Studies
- 2213 Mexican - American Cultural Studies
- 2214 Urban Studies
- 2215 Demography
- 2299 Other

2300 Theology, Total

- 2301-2 Theological Professions, General
- 2302 Religious Music
- 2303 Biblical Languages
- 2304 Religious Education
- 2399 Other

4900 Interdisciplinary Studies, Total

- 4901 General Liberal Arts and Sciences
- 4902 Biological and Physical Sciences
- 4903 Humanities and Social Sciences
- 4904 Engineering and Other Disciplines
- 4999 Other

9994 Other

Attachment 3

**NUMERICAL INDEX OF MAJOR GROUPS,
INDUSTRY GROUPS, AND INDUSTRIES**

Numerical Index of Major Groups, Industry Groups, and Industries

01 AGRICULTURAL PRODUCTION—CROPS <ul style="list-style-type: none"> 011 Cash Grains <ul style="list-style-type: none"> 0111 Wheat 0112 Rice 0115 Corn 0116 Soybeans 0119 Cash grains, not elsewhere classified 013 Field Crops, Except Cash Grains <ul style="list-style-type: none"> 0131 Cotton 0132 Tobacco 0133 Sugar crops 0134 Irish potatoes 0139 Field crops, except cash grains, not elsewhere classified 016 Vegetables and Melons <ul style="list-style-type: none"> 0161 Vegetables and melons 017 Fruits and Tree Nuts <ul style="list-style-type: none"> 0171 Berry crops 0172 Grapes 0173 Tree nuts 0174 Citrus fruits 0175 Deciduous tree fruits 0179 Fruits and tree nuts, not elsewhere classified 018 Horticultural Specialties <ul style="list-style-type: none"> 0181 Ornamental floriculture and nursery products 0182 Food crops grown under cover 0189 Horticultural specialties, not elsewhere classified 019 General Farms, Primarily Crop <ul style="list-style-type: none"> 0191 General farms, primarily crop 	0219 General livestock, except dairy, poultry, and animal specialties <ul style="list-style-type: none"> 024 Dairy Farms <ul style="list-style-type: none"> 0241 Dairy farms 025 Poultry and Eggs <ul style="list-style-type: none"> 0251 Broiler, fryer, and roaster chickens 0252 Chicken eggs 0253 Turkeys and turkey eggs 0254 Poultry hatcheries 0259 Poultry and eggs, not elsewhere classified 027 Animal Specialties <ul style="list-style-type: none"> 0271 Fur-bearing animals and rabbits 0272 Horses and other equines 0279 Animal specialties, not elsewhere classified 029 General Farms, Primarily Livestock <ul style="list-style-type: none"> 0291 General farms, primarily livestock
02 AGRICULTURAL PRODUCTION—LIVESTOCK <ul style="list-style-type: none"> 021 Livestock, Except Dairy, Poultry, and Animal Specialties <ul style="list-style-type: none"> 0211 Beef cattle feedlots 0212 Beef cattle, except feedlots 0213 Hogs 0214 Sheep and goats 	07 AGRICULTURAL SERVICES <ul style="list-style-type: none"> 071 Soil Preparation Services <ul style="list-style-type: none"> 0711 Soil preparation services 072 Crop Services <ul style="list-style-type: none"> 0721 Crop planting, cultivating, and protection 0722 Crop harvesting, primarily by machine 0723 Crop preparation services for market, except cotton ginning 0724 Cotton ginning 0729 General crop services 074 Veterinary Services <ul style="list-style-type: none"> 0741 Veterinary services for livestock, except animal specialties 0742 Veterinary services for animal specialties

- 07 AGRICULTURAL SERVICES—Con.**
- 075 Animal Services, Except Veterinary
 - 0751 Livestock services, except services for animal specialties
 - 0752 Animal specialty services
 - 076 Farm Labor and Management Services
 - 0761 Farm labor contractors and crew leaders
 - 0762 Farm management services
 - 077 Landscape and Horticultural Services
 - 0771 Landscape counseling and planning
 - 0772 Lawn and garden services
 - 0773 Ornamental shrub and tree services
- 08 FORESTRY**
- 081 Timber tracts
 - 0811 Timber tracts
 - 082 Forest Nurseries and Tree Seed Gathering and Extracting
 - 0821 Forest nurseries and tree seed gathering and extracting
 - 084 Gathering of Miscellaneous Forest Products, Except Tree Seeds
 - 0843 Extraction of pine gum
 - 0849 Gathering of forest products, not elsewhere classified
 - 085 Forestry Services
 - 0851 Forestry services
- 09 FISHING, HUNTING, AND TRAPPING**
- 091 Commercial Fishing
 - 0912 Finfish
 - 0913 Shellfish
 - 0919 Miscellaneous marine products
 - 092 Fish Hatcheries and Preserves
 - 0921 Fish hatcheries and preserves
 - 097 Hunting and Trapping, and Game Propagation
 - 0971 Hunting and trapping, and game propagation
- 10 METAL MINING**
- 101 Iron Ores
 - 1011 Iron ores
 - 102 Copper Ores
 - 1021 Copper ores
 - 103 Lead and Zinc Ores
 - 1031 Lead and zinc ores
 - 104 Gold and Silver Ores
 - 1041 Gold ores
 - 1044 Silver ores

- 105 Bauxite and Other Aluminum Ores
 - 1051 Bauxite and other aluminum ores
- 106 Ferroalloy Ores, Except Vanadium
 - 1061 Ferroalloy ores, except vanadium
- 108 Metal Mining Services
 - 1081 Metal mining services
- 109 Miscellaneous Metal Ores
 - 1092 Mercury ores
 - 1094 Uranium-vanadium-vanadium ores
 - 1099 Metal ores, not elsewhere classified
- 11 ANTHRACITE MINING**
 - 111 Anthracite Mining
 - 1111 Anthracite
 - 1112 Anthracite mining services
- 12 BITUMINOUS COAL AND LIGNITE MINING**
 - 121 Bituminous Coal and Lignite Mining
 - 1211 Bituminous coal and lignite
 - 1213 Bituminous coal and lignite mining services
- 13 OIL AND GAS EXTRACTION**
 - 131 Crude Petroleum and Natural Gas
 - 1311 Crude petroleum and natural gas
 - 132 Natural Gas Liquids
 - 1321 Natural gas liquids
 - 133 Oil and Gas Field Services
 - 1331 Drilling oil and gas wells
 - 1332 Oil and gas field exploration services
 - 1339 Oil and gas field services, not elsewhere classified
- 14 MINING AND QUARRYING OF NON-METALLIC MINERALS, EXCEPT FUELS**
 - 141 Dimension Stone
 - 1411 Dimension stone
 - 142 Crushed and Broken Stone, Including Ripprap
 - 1422 Crushed and broken limestone
 - 1423 Crushed and broken granite
 - 1429 Crushed and broken stone, not elsewhere classified
 - 144 Sand and Gravel
 - 1442 Construction sand and gravel
 - 1446 Industrial sand
 - 145 Clay, Ceramic, and Refractory Minerals
 - 1452 Bentonite

- 1453 Fire clay
 1454 Fuller's earth
 1455 Kaolin and ball clay
 1459 Clay, ceramic, and refractory minerals, not elsewhere classified
- 147 Chemical and Fertilizer Mineral Mining
 1472 Barite
 1473 Fluorspar
 1474 Potash, soda, and borate minerals
 1475 Phosphate rock
 1476 Rock salt
 1477 Sulfur
 1479 Chemical and fertilizer mineral mining, not elsewhere classified
- 148 Nonmetallic Minerals (Except Fuels) Services
 1481 Nonmetallic minerals (except fuels) services
- 149 Miscellaneous Nonmetallic Minerals, Except Fuels
 1492 Gypsum
 1496 Taic, soapstone, and pyrophyllite
 1499 Miscellaneous nonmetallic minerals, not elsewhere classified
- 15 BUILDING CONSTRUCTION—GENERAL CONTRACTORS AND OPERATIVE BUILDERS**
- 152 General Building Contractors—Residential Buildings
 1521 General contractors—single-family houses
 1522 General contractors—residential buildings, other than single-family
- 153 Operative Builders
 1531 Operative builders
- 154 General Building Contractors—Nonresidential Buildings
 1541 General contractors—industrial buildings and warehouses
 1542 General contractors—nonresidential buildings, other than industrial buildings and warehouses
- 16 CONSTRUCTION OTHER THAN BUILDING CONSTRUCTION—GENERAL CONTRACTORS
 161 Highway and Street Construction, Except Elevated Highways
 1611 Highway and street construction, except elevated highways
- 162 Heavy Construction, Except Highway and Street Construction
 1622 Bridge, tunnel, and elevated highway construction
 1623 Water, sewer, pipe line, communication and power line construction
 1629 Heavy construction, not elsewhere classified
- 17 CONSTRUCTION—SPECIAL TRADE CONTRACTORS
 171 Plumbing, Heating (Except Electric), and Air Conditioning
 1711 Plumbing, heating (except electric), and air conditioning
- 172 Painting, Paper Hanging, and Decorating
 1721 Painting, paper hanging, and decorating
- 173 Electrical Work
 1731 Electrical work
- 174 Masonry, Stonework, Tile Setting, and Plastering
 1741 Masonry, stone setting, and other stonework
 1742 Plastering, drywall, acoustical and insulation work
 1743 Terrazzo, tile, marble, and mosaic work
- 175 Carpentry and Flooring
 1751 Carpentry
 1752 Floor laying and other floor work, not elsewhere classified
- 176 Roofing and Sheet Metal Work
 1761 Roofing and sheet metal work
- 177 Concrete Work
 1771 Concrete work
- 178 Water Well Drilling
 1781 Water well drilling

- 17 CONSTRUCTION—SPECIAL TRADE CONTRACTORS—Continued**
- 173 Miscellaneous Special Trade Contractors
- 1731 Structural steel erection
 - 1733 Glass and glazing work
 - 1734 Excavating and foundation work
 - 1735 Wrecking and demolition work
 - 1736 Installation or erection of building equipment, not elsewhere classified
 - 1739 Special trade contractors, not elsewhere classified
- 40 RAILROAD TRANSPORTATION**
- 401 Railroads
- 4011 Railroads, line-haul operating
 - 4013 Switching and terminal establishments
- 404 Railway Express Service
- 4041 Railway express service
- 41 LOCAL AND SUBURBAN TRANSIT AND INTERURBAN HIGHWAY PASSENGER TRANSPORTATION**
- 411 Local and Suburban Passenger Transportation
- 4111 Local and suburban transit
 - 4113 Local passenger transportation, not elsewhere classified
- 412 Taxis and Taxicabs
- 4121 Taxicabs
- 413 Intercity and Rural Highway Passenger Transportation
- 4131 Intercity and rural highway passenger transportation
- 414 Passenger Transportation Charter Service
- 4141 Local passenger transportation charter service
 - 4142 Passenger transportation charter service, except local
- 415 School Buses
- 4151 School buses
- 417 Terminal and Service Facilities for Motor Vehicle Passenger Transportation
- 4171 Terminal and joint terminal maintenance facilities for motor vehicle passenger transportation
 - 4172 Maintenance and service facilities for motor vehicle passenger transportation
- 42 MOTOR FREIGHT TRANSPORTATION AND WAREHOUSING**
- 421 Trucking, Local and Long Distance
- 4212 Local trucking without storage
 - 4213 Trucking, except local
 - 4214 Local trucking with storage
- 422 Public Warehousing
- 4221 Farm products warehousing and storage
 - 4222 Refrigerated warehousing
 - 4224 Household goods warehousing and storage
 - 4225 General warehousing and storage
 - 4225 Special warehousing and storage, not elsewhere classified
- 423 Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation
- 4231 Terminal and joint terminal maintenance facilities for motor freight transportation
- 43 U.S. POSTAL SERVICE**
- 431 U.S. Postal Service
- 4311 U.S. Postal Service
- 44 WATER TRANSPORTATION**
- 441 Deep Sea Foreign Transportation
- 4411 Deep sea foreign transportation
- 442 Deep Sea Domestic Transportation
- 4421 Transportation to and between noncontiguous territories
 - 4422 Coastwise transportation
 - 4423 Intercoastal transportation
- 443 Great Lakes-St. Lawrence Seaway Transportation
- 4431 Great Lakes-St. Lawrence Seaway Transportation
- 444 Transportation on Rivers and Canals
- 4441 Transportation on rivers and canals
- 445 Local Water Transportation
- 4452 Ferries
 - 4453 Lighterage
 - 4454 Towing and tugboat services
 - 4459 Local water transportation, not elsewhere classified
- 446 Services Incidental to Water Transportation
- 4463 Marine cargo handling
 - 4464 Canal operation
 - 4469 Water transportation services, not elsewhere classified

45 TRANSPORTATION BY AIR

- 451 Air Transportation, Certificated Carriers
 - 4511 Air transportation, certificated carriers
- 452 Air Transportation, Noncertificated Carriers
 - 4521 Air transportation, noncertified carriers
- 453 Fixed Facilities and Services Related to Air Transportation
 - 4532 Airports and flying fields
 - 4533 Airport terminal services

46 PIPE LINES, EXCEPT NATURAL GAS

- 461 Pipe Lines, Except Natural Gas
 - 4612 Crude petroleum pipe lines
 - 4613 Refined petroleum pipe lines
 - 4619 Pipe lines, not elsewhere classified

47 TRANSPORTATION SERVICES

- 471 Freight Forwarding
 - 4712 Freight forwarding
- 472 Arrangement of Transportation
 - 4722 Arrangement of passenger transportation
 - 4723 Arrangement of transportation of freight and cargo
- 474 Rental of Railroad Cars
 - 4742 Rental of railroad cars with care of lading
 - 4743 Rental of railroad cars without care of lading
- 473 Miscellaneous Services Incidental to Transportation
 - 4732 Inspection and weighing services connected with transportation
 - 4733 Packing and crating
 - 4734 Fixed facilities for handling motor vehicle transportation, not elsewhere classified
 - 4739 Services incidental to transportation, not elsewhere classified

48 COMMUNICATION

- 481 Telephone Communication (Wire or Radio)
 - 4811 Telephone communication (wire or radio)
- 482 Telegraph Communication (Wire or Radio)

4821 Telegraph communication (wire or radio)

- 483 Radio and Television Broadcasting
 - 4832 Radio broadcasting
 - 4833 Television broadcasting
- 489 Communication Services, Not Elsewhere Classified
 - 4899 Communication services, not elsewhere classified

49 ELECTRIC, GAS, AND SANITARY SERVICES

- 491 Electric Services
 - 4911 Electric services
- 492 Gas Production and Distribution
 - 4922 Natural gas transmission
 - 4923 Natural gas transmission and distribution
 - 4924 Natural gas distribution
 - 4925 Mixed, manufactured or liquified petroleum gas production and/or distribution
- 493 Combination Electric and Gas, and Other Utility Services
 - 4931 Electric and other services combined
 - 4932 Gas and other services combined
 - 4939 Combination utilities, not elsewhere classified

494 Water Supply

- 4941 Water supply

495 Sanitary Services

- 4952 Sewerage systems
- 4953 Refuse systems
- 4959 Sanitary services, not elsewhere classified

496 Steam Supply

- 4961 Steam supply

497 Irrigation Systems

- 4971 Irrigation systems

50 WHOLESALE TRADE—DURABLE GOODS

- 501 Motor Vehicles and Automotive Parts and Supplies
 - 5012 Automobiles and other motor vehicles
 - 5013 Automotive parts and supplies
 - 5014 Tires and tubes
- 502 Furniture and Home Furnishings
 - 5021 Furniture
 - 5022 Home furnishings

- 50 WHOLESALE TRADE—DURABLE GOODS—Continued**
- 503 Lumber and Other Construction Materials
5031 Lumber, plywood and mill-work
5039 Construction materials, not elsewhere classified
- 504 Sporting, Recreational, Photographic, and Hobby Goods, Toys and Supplies
5041 Sporting and recreational goods and supplies
5042 Toys and hobby goods and supplies
5043 Photographic equipment and supplies
- 505 Metals and Minerals, Except Petroleum
5051 Metals service centers and offices
5052 Coal and other minerals and ores
- 506 Electrical Goods
5063 Electrical apparatus and equipment, wiring supplies and construction materials
5064 Electrical appliances, television and radio sets
5068 Electronic parts and equipment
- 507 Hardware, and Plumbing and Heating Equipment and Supplies
5072 Hardware
5074 Plumbing and heating equipment and supplies (hydronics)
5075 Warm air heating and air conditioning equipment and supplies
5078 Refrigeration equipment and supplies
- 508 Machinery, Equipment, and Supplies
5081 Commercial machines and equipment
5082 Construction and mining machinery and equipment
5083 Farm and garden machinery and equipment
5084 Industrial machinery and equipment
5085 Industrial supplies
5086 Professional equipment and supplies

- 5087 Service establishment equipment and supplies
5088 Transportation equipment and supplies, except motor vehicles
- 509 Miscellaneous Durable Goods
5093 Scrap and waste materials
5094 Jewelry, watches, diamonds, and other precious stones
5099 Durable goods, not elsewhere classified
- 51 WHOLESALE TRADE—NONDURABLE GOODS**
- 511 Paper and Paper Products
5111 Printing and writing paper
5112 Stationery supplies
5113 Industrial and personal service paper
- 512 Drugs, Drug Proprietaries and Drugists' Sundries
5122 Drugs, drug proprietaries, and druggists' sundries
- 513 Apparel, Piece Goods, and Notions
5133 Piece goods (woven fabrics)
5134 Notions and other dry goods
5135 Men's and boys' clothing and furnishings
5137 Women's, children's and infants' clothing and accessories
5139 Footwear
- 514 Groceries and Related Products
5141 Groceries, general line
5142 Frozen foods
5143 Dairy products
5144 Poultry and poultry products
5145 Confectionery
5146 Fish and seafoods
5147 Meats and meat products
5148 Fresh fruits and vegetables
5149 Groceries and related products, not elsewhere classified
- 515 Farm-Product Raw Materials
5152 Cotton
5153 Grain
5154 Livestock
5159 Farm-product raw materials, not elsewhere classified
- 516 Chemicals and Allied Products
5161 Chemicals and allied products
- 517 Petroleum and Petroleum Products
5171 Petroleum bulk stations and terminals

- 5172 Petroleum and petroleum products wholesalers, except bulk stations and terminals
- 518 Beer, Wine and Distilled Alcoholic Beverages
- 5181 Beer and ale
- 5182 Wines and distilled alcoholic beverages
- 519 Miscellaneous Nondurable Goods
- 5191 Farm supplies
- 5194 Tobacco and tobacco products
- 5198 Paints, varnishes, and supplies
- 5199 Nondurable goods, not elsewhere classified
- 52 BUILDING MATERIALS, HARDWARE, GARDEN SUPPLY, AND MOBILE HOME DEALERS**
- 521 Lumber and Other Building Materials Dealers
- 5211 Lumber and other building materials dealers
- 523 Paint, Glass, and Wallpaper Stores
- 5231 Paint, glass, and wallpaper stores
- 525 Hardware Stores
- 5251 Hardware stores
- 526 Retail Nurseries, Lawn and Garden Supply Stores
- 5261 Retail nurseries, lawn and garden supply stores
- 527 Mobile Home Dealers
- 5271 Mobile home dealers
- 53 GENERAL MERCHANDISE STORES**
- 531 Department Stores
- 5311 Department stores
- 533 Variety Stores
- 5331 Variety stores
- 539 Miscellaneous General Merchandise Stores
- 5399 Miscellaneous general merchandise stores
- 54 FOOD STORES**
- 541 Grocery Stores
- 5411 Grocery stores
- 542 Meat and Fish (Seafood) Markets, Including Freezer Provisioners
- 5422 Freezer and locker meat provisioners
- 5423 Meat and fish (seafood) markets
- 543 Fruit Stores and Vegetable Markets
- 5431 Fruit stores and vegetable markets
- 544 Candy, Nut, and Confectionery Stores
- 5441 Candy, nut, and confectionery stores
- 545 Dairy Products Stores
- 5451 Dairy products stores
- 546 Retail Bakeries
- 5462 Retail bakeries—baking and selling
- 5463 Retail bakeries—selling only
- 549 Miscellaneous Food Stores
- 5499 Miscellaneous food stores
- 55 AUTOMOTIVE DEALERS AND GASOLINE SERVICE STATIONS**
- 551 Motor Vehicle Dealers (New and Used)
- 5511 Motor vehicle dealers (new and used)
- 552 Motor Vehicle Dealers (Used Only)
- 5521 Motor vehicle dealers (used only)
- 553 Auto and Home Supply Stores
- 5531 Auto and home supply stores
- 554 Gasoline Service Stations
- 5541 Gasoline service stations
- 555 Boat Dealers
- 5551 Boat dealers
- 556 Recreational and Utility Trailer Dealers
- 5561 Recreational and utility trailer dealers
- 557 Motorcycle Dealers
- 5571 Motorcycle dealers
- 559 Automotive Dealers, Not Elsewhere Classified
- 5599 Automotive dealers, not elsewhere classified
- 56 APPAREL AND ACCESSORY STORES**
- 561 Men's and Boys' Clothing and Furnishings Stores
- 5611 Men's and boys' clothing and furnishings stores
- 562 Women's Ready-to-Wear Stores
- 5621 Women's ready-to-wear stores
- 563 Women's Accessory and Specialty Stores
- 5631 Women's accessory and specialty stores
- 564 Children's and Infants' Wear Stores
- 5641 Children's and infants' wear stores
- 565 Family Clothing Stores
- 5651 Family clothing stores

- 56 APPAREL AND ACCESSORY STORES**
- Continued
- 566 Shoe Stores
5661 Shoe stores
- 568 Furriers and Fur Shops
5681 Furriers and fur shops
- 569 Miscellaneous Apparel and Accessory Stores
5699 Miscellaneous apparel and accessory stores
- 57 FURNITURE, HOME FURNISHINGS AND EQUIPMENT STORES**
- 571 Furniture, Home Furnishings, and Equipment Stores, Except Appliances
5712 Furniture stores
5713 Floor covering stores
5714 Drapery, curtain, and upholstery stores
5719 Miscellaneous home furnishing stores
- 572 Household Appliance Stores
5722 Household appliance stores
- 573 Radio, Television, and Music Stores
5732 Radio and television stores
5733 Music stores
- 58 EATING AND DRINKING PLACES**
- 581 Eating and Drinking Places
5812 Eating places
5813 Drinking places (alcoholic beverages)
- 59 MISCELLANEOUS RETAIL**
- 591 Drug Stores and Proprietary Stores
5912 Drug stores and proprietary stores
- 592 Liquor Stores
5921 Liquor stores
- 593 Used Merchandise Stores
5931 Used merchandise stores
- 594 Miscellaneous Shopping Goods Stores
5941 Sporting goods stores and bicycle shops
5942 Book stores
5943 Stationery stores
5944 Jewelry stores
5945 Hobby, toy, and game shops
5946 Camera and photographic supply stores
5947 Gift, novelty, and souvenir shops
5948 Luggage and leather goods stores

- 5949 Sewing, needlework, and picture goods stores
- 596 Nonstore Retailers
5961 Mail order houses
5962 Automatic merchandising machine operators
5963 Direct selling establishments
- 598 Fuel and Ice Dealers
5982 Fuel and ice dealers, except fuel oil dealers and bottled gas dealers
5983 Fuel oil dealers
5984 Liquified petroleum gas (butane, etc.) dealers
- 599 Retail Stores, Not Elsewhere Classified
— 5992 Florists
5993 Cigar stores and stands
5994 News dealers and newsstands
5999 Miscellaneous retail stores, not elsewhere classified
- 60 BANKING**
- 601 Federal Reserve Banks
6011 Federal Reserve banks
- 602 Commercial and Stock Savings Banks
6022 State banks, members of the Federal Reserve System
6023 State banks, not members of the Federal Reserve System, insured by the Federal Deposit Insurance Corporation
- 6024 State banks, not members of the Federal Reserve System, not insured by the Federal Deposit Insurance Corporation
- 6025 National banks, members of the Federal Reserve System
- 6026 National banks, not members of the Federal Reserve System, insured by the Federal Deposit Insurance Corporation
- 6027 National banks, not insured by the Federal Deposit Insurance Corporation
- 6028 Unincorporated private banks, not insured by the Federal Deposit Insurance Corporation
- 603 Mutual Savings Banks
6032 Mutual savings banks, members of the Federal Reserve System

- 6033 Mutual savings banks, not members of the Federal Reserve System, insured by the Federal Deposit Insurance Corporation
- 6034 Mutual savings banks, not insured by the Federal Deposit Insurance Corporation
- 604 Trust Companies Not Engaged in Deposit Banking
- 6042 State nondeposit trust companies, members of the Federal Reserve System, insured and not insured
- 6044 State nondeposit trust companies, not insured by the Federal Deposit Insurance Corporation
- 605 Establishments Performing Functions Closely Related to Banking
- 6052 Foreign exchange establishments
- 6054 Safe deposit companies
- 6055 Clearinghouse associations
- 6056 Corporations for banking abroad
- 6059 Establishments performing functions closely related to deposit banking, not elsewhere classified
- 61 CREDIT AGENCIES OTHER THAN BANKS**
- 611 Rediscount and Financing Institutions for Credit Agencies Other Than Banks
- 6112 Rediscount and financing institutions for credit agencies (other than banks) not primarily associated with agricultural credit
- 6113 Rediscount and financing institutions for credit agencies (other than banks) primarily associated with agricultural credit
- 612 Savings and Loan Associations
- 6122 Federal savings and loan associations
- 6123 State savings and loan associations, insured by the Federal Savings and Loan Insurance Corporation
- 6124 State savings and loan associations, not insured, members of the Federal Home Loan Bank System
- 6125 State savings and loan associations, not insured, not members of the Federal Home Loan Bank System
- 613 Agricultural Credit Institutions
- 6131 Agricultural credit institutions
- 614 Personal Credit Institutions
- 6142 Federal credit unions
- 6143 State credit unions
- 6144 Industrial loan companies not engaged in deposit banking
- 6145 Licensed small loan lenders
- 6146 Installment sales finance companies
- 6149 Miscellaneous personal credit institutions
- 615 Business Credit Institutions
- 6153 Short-term business credit institutions
- 6159 Miscellaneous business credit institutions
- 616 Mortgage Bankers and Brokers
- 6162 Mortgage bankers and loan correspondents
- 6163 Loan brokers
- 62 SECURITY AND COMMODITY BROKERS, DEALERS, EXCHANGES, AND SERVICES**
- 621 Security Brokers, Dealers, and Flotation Companies
- 6211 Security brokers, dealers, and flotation companies
- 622 Commodity Contracts Brokers and Dealers
- 6221 Commodity contracts brokers and dealers
- 623 Security and Commodity Exchanges
- 6231 Security and commodity exchanges
- 628 Services Allied With the Exchange of Securities or Commodities
- 6281 Services allied with the exchange of securities or commodities
- 63 INSURANCE**
- 631 Life Insurance
- 6311 Life insurance

63 INSURANCE—Continued

- 632 Accident and Health Insurance and Medical Service Plans
 - 6321 Accident and health insurance
 - 6324 Hospital and medical service plans
- 633 Fire, Marine, and Casualty Insurances
 - 6331 Fire, marine, and casualty insurance
- 635 Surety Insurance
 - 6351 Surety insurance
- 636 Title Insurance
 - 6361 Title insurance
- 637 Pension, Health, and Welfare Funds
 - 6371 Pension, health, and welfare funds
- 639 Insurance Carriers, Not Elsewhere Classified
 - 6399 Insurance carriers, not elsewhere classified

64 INSURANCE AGENTS, BROKERS, AND SERVICE

- 641 Insurance Agents, Brokers, and Service
 - 6411 Insurance agents, brokers, and service

65 REAL ESTATE

- 651 Real Estate Operators (Except Developers) and Lessors
 - 6512 Operators of nonresidential buildings
 - 6513 Operators of apartment buildings
 - 6514 Operators of dwellings other than apartment buildings
 - 6515 Operators of residential mobile home sites
 - 6517 Lessors of railroad property
 - 6519 Lessors of real property, not elsewhere classified
- 653 Real Estate Agents and Managers
 - 6531 Real estate agents and managers
- 654 Title Abstract Offices
 - 6541 Title abstract offices
- 655 Subdividers and Developers
 - 6552 Subdividers and developers, except cemeteries
 - 6553 Cemetery subdividers and developers

66 COMBINATIONS OF REAL ESTATE, INSURANCE, LOANS, LAW OFFICES

- 661 Combinations of Real Estate, Insurance, Loans, Law Offices

6611 Combinations of real estate, insurance, loans, law offices

67 HOLDING AND OTHER INVESTMENT OFFICES

- 671 Holding Offices
 - 6711 Holding offices
- 672 Investment Offices
 - 6722 Management investment offices, open-end
 - 6723 Management investment offices, closed-end
 - 6724 Unit investment trusts
 - 6725 Face-amount certificate offices
- 673 Trusts
 - 6732 Educational, religious, and charitable trusts
 - 6733 Trusts, except educational, religious, and charitable
- 679 Miscellaneous Investing
 - 6792 Oil royalty traders
 - 6793 Commodity traders
 - 6794 Patent owners and lessors
 - 6799 Investors, not elsewhere classified

70 HOTELS, ROOMING HOUSES, CAMPS, AND OTHER LODGING PLACES

- 701 Hotels, Motels, and Tourist Courts
 - 7011 Hotels, motels, and tourist courts
- 702 Rooming and Boarding Houses
 - 7021 Rooming and boarding houses
- 703 Camps and Trailering Parks
 - 7032 Sporting and recreational camps
 - 7033 Trailering parks and camp sites for transients
- 704 Organization Hotels and Lodging Houses, on Membership Basis
 - 7041 Organization hotels and lodging houses, on membership basis

72 PERSONAL SERVICES

- 721 Laundry, Cleaning, and Garment Services
 - 7211 Power laundries, family and commercial
 - 7212 Garment pressing, and agents for laundries and dry cleaners
 - 7213 Linen supply
 - 7214 Diaper service
 - 7215 Coin-operated laundries and dry cleaning

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| <p>7216 Dry cleaning plants, except rug cleaning</p> <p>7217 Carpet and upholstery cleaning</p> <p>7218 Industrial laundries</p> <p>7219 Laundry and garment services, not elsewhere classified</p> <p>722 Photographic Studios, Portrait</p> <p>7221 Photographic studios, portrait</p> <p>723 Beauty Shops</p> <p>7231 Beauty shops</p> <p>724 Barber shops</p> <p>7241 Barber shops</p> <p>725 Shoe Repair Shops, Shoe Shine Parlors, and Hat Cleaning Shops</p> <p>7251 Shoe repair shops, shoe shine parlors, and hat cleaning shops</p> <p>726 Funeral Service and Crematories</p> <p>7261 Funeral service and crematories</p> <p>729 Miscellaneous Personal Services</p> <p>7299 Miscellaneous personal services</p> <p>73 BUSINESS SERVICES</p> <p>731 Advertising</p> <p>7311 Advertising agencies</p> <p>7312 Outdoor advertising services</p> <p>7313 Radio, television, and publishing advertising representatives</p> <p>7319 Advertising, not elsewhere classified</p> <p>732 Consumer Credit Reporting Agencies, Mercantile Reporting Agencies, and Adjustment and Collection Agencies</p> <p>7321 Consumer credit reporting agencies, mercantile reporting agencies, and adjustment and collection agencies</p> <p>733 Mailing, Reproduction, Commercial Art and Photography, and Stenographic Services</p> <p>7331 Direct mail advertising services</p> <p>7332 Blueprinting and photocopying services</p> <p>7333 Commercial photography, art, and graphics</p> <p>7339 Stenographic services; and reproduction services, not elsewhere classified</p> | <p>734 Services to Dwellings and Other Buildings</p> <p>7341 Window cleaning</p> <p>7342 Disinfecting and exterminating services</p> <p>7349 Cleaning and maintenance services to dwellings and other buildings, not elsewhere classified</p> <p>735 News Syndicates</p> <p>7351 News syndicates</p> <p>736 Personnel Supply Services</p> <p>7361 Employment agencies</p> <p>7362 Temporary help supply services</p> <p>7369 Personnel supply services, not elsewhere classified</p> <p>737 Computer and Data Processing Services</p> <p>7372 Computer programming and other software services</p> <p>7374 Data processing services</p> <p>7379 Computer related services, not elsewhere classified</p> <p>739 Miscellaneous Business Services</p> <p>7391 Research and development laboratories</p> <p>7392 Management, consulting, and public relations services</p> <p>7393 Detective agencies and protective services</p> <p>7394 Equipment rental and leasing services</p> <p>7395 Photofinishing laboratories</p> <p>7396 Trading stamp services</p> <p>7397 Commercial testing laboratories</p> <p>7399 Business services, not elsewhere classified</p> <p>75 AUTOMOTIVE REPAIR, SERVICES, AND GARAGES</p> <p>751 Automotive Rental and Leasing, Without Drivers</p> <p>7512 Passenger car rental and leasing, without drivers</p> <p>7513 Truck rental and leasing, without drivers</p> <p>7519 Utility trailer and recreational vehicle rental</p> <p>752 Automobile Parking</p> <p>7523 Parking lots</p> <p>7525 Parking structures</p> <p>753 Automotive Repair Shops</p> <p>7531 Top and body repair shops</p> |
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- 75 AUTOMOTIVE REPAIR SERVICES AND GARAGES—Continued**
- 753 Automotive Repair Shops—Con.
- 7534 Tire retreading and repair shops
- 7535 Paint shops
- 7538 General automotive repair shops
- 7539 Automotive repair shops, not elsewhere classified
- 754 Automotive Services, Except Repair
- 7542 Car washes
- 7549 Automotive services, except repair and car washes
- 76 MISCELLANEOUS REPAIR SERVICES**
- 762 Electrical Repair Shops
- 7622 Radio and television repair shops
- 7623 Refrigeration and air conditioning service and repair shops
- 7629 Electrical and electronic repair shops, not elsewhere classified
- 763 Watch, Clock, and Jewelry Repair
- 7631 Watch, clock, and jewelry repair
- 764 Reupholstery and Furniture Repair
- 7641 Reupholstery and furniture repair
- 769 Miscellaneous Repair Shops and Related Services
- 7692 Welding repair
- 7694 Armature rewinding shops
- 7699 Repair shops and related services, not elsewhere classified
- 77 MOTION PICTURES**
- 771 Motion Picture Production and Allied Services
- 7713 Motion picture production, except for television
- 7714 Motion picture and tape production for television
- 7719 Services allied to motion picture production
- 772 Motion Picture Distribution and Allied Services
- 7723 Motion picture film exchanges
- 7724 Film or tape distribution for television
- 7729 Services allied to motion picture distribution
- 783 Motion Picture Theaters
- 7832 Motion picture theaters, except drive-in
- 7833 Drive-in motion picture theaters
- 79 AMUSEMENT AND RECREATION SERVICES, EXCEPT MOTION PICTURES**
- 791 Dance Halls, Studios, and Schools
- 7911 Dance halls, studios, and schools
- 792 Theatrical Producers (Except Motion Pictures), Bands, Orchestras, and Entertainers
- 7922 Theatrical producers (except motion picture) and miscellaneous theatrical services
- 7929 Bands, orchestras, actors, and other entertainers and entertainment groups
- 793 Bowling Alleys and Billiard and Pool Establishments
- 7932 Billiard and pool establishments
- 7933 Bowling alleys
- 794 Commercial Sports
- 7941 Professional sports clubs and promoters
- 7948 Racing, including track operation
- 799 Miscellaneous Amusement and Recreation Services
- 7992 Public golf courses
- 7993 Coin-operated amusement devices
- 7996 Amusement parks
- 7997 Membership sports and recreation clubs
- 7999 Amusement and recreation services, not elsewhere classified
- 80 HEALTH SERVICES**
- 801 Offices of Physicians
- 8011 Offices of physicians
- 802 Offices of Dentists
- 8021 Offices of dentists
- 803 Offices of Osteopathic Physicians
- 8031 Offices of osteopathic physicians
- 804 Offices of Other Health Practitioners
- 8041 Offices of chiropractors
- 8042 Offices of optometrists

- 8049 Offices of health practitioners, not elsewhere classified
- 805 Nursing and Personal Care Facilities**
- 8051 Skilled nursing care facilities
- 8053 Nursing and personal care facilities, not elsewhere classified
- 806 Hospitals**
- 8062 General medical and surgical hospitals
- 8063 Psychiatric hospitals
- 8069 Specialty hospitals, except psychiatric
- 807 Medical and Dental Laboratories**
- 8071 Medical laboratories
- 8072 Dental laboratories
- 808 Outpatient Care Facilities**
- 8081 Outpatient care facilities
- 809 Health and Allied Services, Not Elsewhere Classified**
- 8091 Health and allied services, not elsewhere classified
- 81 LEGAL SERVICES**
- 811 Legal Services
- 8111 Legal services
- 82 EDUCATIONAL SERVICES**
- 821 Elementary and Secondary Schools
- 8211 Elementary and secondary schools
- 822 Colleges, Universities, Professional Schools, and Junior Colleges
- 8221 Colleges, universities, and professional schools
- 8222 Junior colleges and technical institutes
- 823 Libraries and Information Centers
- 8231 Libraries and information centers
- 824 Correspondence Schools and Vocational Schools
- 8241 Correspondence schools
- 8243 Data processing schools
- 8244 Business and secretarial schools
- 8249 Vocational schools, except vocational high schools, not elsewhere classified
- 829 Schools and Educational Services, Not Elsewhere Classified**
- 8299 Schools and educational services, not elsewhere classified
- 83 SOCIAL SERVICES**
- 832 Individual and Family Social Services
- 8321 Individual and family social services
- 833 Job Training and Vocational Rehabilitation Services
- 8331 Job training and vocational rehabilitation services
- 835 Child Day Care Services
- 8351 Child day care services
- 836 Residential Care
- 8361 Residential care
- 839 Social Services, Not Elsewhere Classified
- 8399 Social services, not elsewhere classified
- 84 MUSEUMS, ART GALLERIES, BOTANICAL AND ZOOLOGICAL GARDENS**
- 841 Museums and Art Galleries
- 8411 Museums and art galleries
- 842 Arboreta, Botanical and Zoological Gardens
- 8421 Arboreta, botanical and zoological gardens
- 86 MEMBERSHIP ORGANIZATIONS**
- 861 Business Associations
- 8611 Business associations
- 862 Professional Membership Organizations
- 8621 Professional membership organizations
- 863 Labor Unions and Similar Labor Organizations
- 8631 Labor unions and similar labor organizations
- 864 Civic, Social, and Fraternal Associations
- 8641 Civic, social, and fraternal associations
- 865 Political Organizations
- 866 Religious Organizations
- 8661 Religious organizations
- 869 Membership Organizations, Not Elsewhere Classified
- 8699 Membership organizations, not elsewhere classified
- 88 PRIVATE HOUSEHOLDS**
- 881 Private Households
- 8811 Private households

- 89 MISCELLANEOUS SERVICES**
- 891 Engineering, Architectural, and Surveying Services
 - 8911 Engineering, architectural, and surveying services
 - 892 Noncommercial Educational, Scientific, and Research Organizations
 - 8922 Noncommercial educational, scientific, and research organizations
 - 893 Accounting, Auditing, and Bookkeeping Services
 - 8931 Accounting, auditing, and bookkeeping services
 - 899 Services, Not Elsewhere Classified
 - 8999 Services, not elsewhere classified
- 91 EXECUTIVE, LEGISLATIVE, AND GENERAL GOVERNMENT, EXCEPT FINANCE**
- 911 Executive Offices
 - 9111 Executive offices
 - 912 Legislative Bodies
 - 9121 Legislative bodies
 - 913 Executive and Legislative Offices Combined
 - 9131 Executive and legislative offices combined
 - 919 General Government, Not Elsewhere Classified
 - 9199 General government, not elsewhere classified
- 92 JUSTICE, PUBLIC ORDER, AND SAFETY**
- 921 Courts
 - 9211 Courts
 - 922 Public Order and Safety
 - 9221 Police protection
 - 9222 Legal counsel and prosecution
 - 9223 Correctional institutions
 - 9224 Fire protection
 - 9229 Public order and safety, not elsewhere classified
- 93 PUBLIC FINANCE, TAXATION, AND MONETARY POLICY**
- 931 Public Finance, Taxation, and Monetary Policy
 - 9311 Public finance, taxation, and monetary policy
- 94 ADMINISTRATION OF HUMAN RESOURCES PROGRAMS**
- 941 Administration of Educational Programs
 - 9411 Administration of educational programs
- 943 Administration of Public Health Programs**
- 9431 Administration of public health programs
- 944 Administration of Social, Manpower, and Income Maintenance Programs**
- 9441 Administration of social, manpower, and income maintenance programs
- 945 Administration of Veterans' Affairs, Except Health and Insurance**
- 9451 Administration of veterans' affairs, except health and insurance
- 95 ADMINISTRATION OF ENVIRONMENTAL QUALITY AND HOUSING PROGRAMS**
- 951 Administration of Environmental Quality Programs
 - 9511 Air and water resource and solid waste management
 - 9512 Land, mineral, wildlife, and forest conservation
 - 953 Administration of Housing and Urban Development Programs
 - 9531 Administration of housing programs
 - 9532 Administration of urban planning and community and rural development
- 96 ADMINISTRATION OF ECONOMIC PROGRAMS**
- 961 Administration of General Economic Programs
 - 9611 Administration of general economic programs
 - 962 Regulation and Administration of Transportation Programs
 - 9621 Regulation and administration of transportation programs
 - 963 Regulation and Administration of Communications, Electric, Gas, and Other Utilities
 - 9631 Regulation and administration of communication, electric, gas, and other utilities
 - 964 Regulation of Agricultural Marketing and Commodities
 - 9641 Regulation of agricultural marketing and commodities
 - 965 Regulation, Licensing, and Inspection of Miscellaneous Commercial Sectors

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| 9651 Regulation, licensing, and inspection of miscellaneous commercial sectors | 9711 National security |
| 966 Space Research and Technology | 972 International Affairs |
| 9661 Space research and technology | 9721 International affairs |
| 97 NATIONAL SECURITY AND INTER-NATIONAL AFFAIRS | 99 NONCLASSIFIABLE ESTABLISHMENTS |
| 971 National Security | 999 Nonclassifiable Establishments |
| | 9999 Nonclassifiable establishments |
| | 973 - Armed Forces |

Attachment 4

OCCUPATIONAL CLASSIFICATION SYSTEM

Occupational Classification System

Equivalent numeric codes follow the alphabetic code. Either code may be used, depending on the processing method. Numbers in parentheses following the occupation categories are the 1980 Standard Occupational Classification code equivalents. The abbreviation "n.e.c." means "not elsewhere classified."

Occupation code	Occupation category	Occupation code	Occupation category
	MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS		MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS—Con.
	Executive, Administrative, and Managerial Occupations.		Professional Specialty Occupations—Con.
003	Legislators (111)	048	Chemical engineers (1626)
004	Chief executives and general administrators, public administration (112)	049	Nuclear engineers (1627)
005	Administrators and officials, public administration (1132-1139)	053	Civil engineers (1628)
006	Administrators, protective services (1131)	054	Agricultural engineers (1632)
007	Financial managers (122)	055	Electrical and electronic engineers (1633, 1634)
008	Personnel and labor relations managers (123)	056	Industrial engineers (1634)
009	Purchasing managers (124)	057	Mechanical engineers (1635)
013	Managers, marketing, advertising, and public relations (125)	058	Marine engineers and naval architects (1637)
014	Administrators, education and related fields (128)	059	Engineers, n.e.c. (1639)
015	Managers, medicine and health (131)	063	Surveyors and mapping scientists (164)
016	Managers, properties and real estate (1353)	064	Mathematical and computer scientists
017	Postmasters and mail superintendents (1344)	065	Computer systems analysts and scientists (171)
018	Funeral directors (pt 1359)	066	Operations and systems researchers and analysts (172)
019	Managers and administrators, n.e.c. (121, 126, 127, 132-139, except 1344, 1353, pt 1359)	067	Actuaries (1732)
	Management related occupations	068	Statisticians (1733)
023	Accountants and auditors (1412)	069	Mathematical scientists, n.e.c. (1739)
024	Underwriters (1414)	073	Natural scientists
025	Other financial officers (1415, 1419)	074	Physicists and astronomers (1842, 1843)
026	Management analysts (142)	075	Chemists, except biochemists (1845)
027	Personnel, training, and labor relations specialists (143)	076	Atmospheric and space scientists (1846)
028	Purchasing agents and buyers, farm products (1443)	077	Geologists and geodesists (1847)
029	Buyers, wholesale and retail trade, except farm products (1442)	078	Physical scientists, n.e.c. (1849)
033	Purchasing agents and buyers, n.e.c. (1449)	079	Agricultural and food scientists (1853)
034	Business and promotion agents (145)	083	Biological and life scientists (1854)
035	Construction inspectors (1472)	084	Forestry and conservation scientists (1852)
036	Inspectors and compliance officers, exc. construction (1473)	085	Medical scientists (1855)
037	Management related occupations, n.e.c. (149)	086	Health diagnosing occupations
	Professional Specialty Occupations	084	Physicians (261)
	Engineers, architects, and surveyors	085	Dentists (262)
043	Architects (161)	086	Veterinarians (27)
	Engineers	087	Optometrists (281)
044	Aerospace engineers (1622)	088	Podiatrists (283)
045	Metallurgical and materials engineers (1623)	089	Health diagnosing practitioners, n.e.c. (289)
046	Mining engineers (1624)	095	Health assessment and treating occupations
047	Petroleum engineers (1625)	096	Registered nurses (29)
		097	Pharmacists (301)
			Dietitians (302)
			Therapists
		098	Inhalation therapists (3031)
		099	Occupational therapists (3032)
		103	Physical therapists (3033)
		104	Speech therapists (3034)
		105	Therapists, n.e.c. (3039)

Occupational Classification System

Occu- pation code	Occupation category	Occu- pation code	Occupation category
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS—Con.			
Professional Specialty Occupations—Con.			
Health assessment and treating occupations—Con.			
106	Physicians' assistants (304)	174	Social, recreation, and religious workers
Teachers, postsecondary		175	Social workers (2032)
113	Earth, environmental, and marine science teachers (2212)	176	Recreation workers (2033)
114	Biological science teachers (2213)	177	Clergy (2042)
115	Chemistry teachers (2214)	178	Religious workers, n.e.c. (2049)
116	Physics teachers (2215)	179	Lawyers and judges
117	Natural science teachers, n.e.c. (2216)	183	Lawyers (211)
118	Psychology teachers (2217)	184	Judges (212)
119	Economics teachers (2218)	185	Writers, artists, entertainers, and athletes
123	History teachers (2222)	186	Authors (321)
124	Political science teachers (2223)	187	Technical writers (398)
125	Sociology teachers (2224)	188	Designers (322)
126	Social science teachers, n.e.c. (2225)	189	Musicians and composers (323)
127	Engineering teachers (2226)	193	Actors and directors (324)
128	Mathematical science teachers (2227)	194	Painters, sculptors, craft-artists, and artist printmakers (325)
129	Computer science teachers (2228)	195	Photographers (326)
133	Medical science teachers (2231)	197	Dancers (327)
134	Health specialties teachers (2232)	198	Artists, performers, and related workers, n.i. 329)
135	Business, commerce, and marketing teachers (2233)	199	Editors and reporters (331)
136	Agriculture and forestry teachers (2234)		Public relations specialists (332)
137	Art, drama, and music teachers (2235)		Announcers (333)
138	Physical education teachers (2236)		Athletes (34)
139	Education teachers (2237)		
143	English teachers (2238)		
144	Foreign language teachers (2242)		
145	Law teachers (2243)		
146	Social work teachers (2244)		
147	Theology teachers (2245)		
148	Trade and industrial teachers (2246)		
149	Home economics teachers (2247)		
153	Teachers, postsecondary, n.e.c. (2249)	203	TECHNICAL, SALES, AND ADMINISTRAT SUPPORT OCCUPATIONS
154	Postsecondary teachers, subject not specified		Technicians and Related Support Occupation
	Teachers, except postsecondary		Health technologists and technicians
155	Teachers, prekindergarten and kindergarten (231)	204	Clinical laboratory technologists and techn (362)
N (156)	Teachers, elementary school (232)	205	Dental hygienists (363)
P (157)	Teachers, secondary school (233)	206	Health record technologists and technician
158	Teachers, special education (235)	207	Radiologic technicians (365)
159	Teachers, n.e.c. (236, 239)	208	Licensed practical nurses (366)
163	Counselors, educational and vocational (24)		Health technologists and technicians, n.e.c.
	Librarians, archivists, and curators		Technologists and technicians, except health
164	Librarians (251)		Engineering and related technologists and
165	Archivists and curators (252)		technicians
	Social scientists and urban planners	213	Electrical and electronic technicians (37
166	Economists (1912)	214	Industrial engineering technicians (3712)
167	Psychologists (1915)	215	Mechanical engineering technicians (371
168	Sociologists (1916)	216	Engineering technicians, n.e.c. (3719)
169	Social scientists, n.e.c. (1913, 1914, 1919)	217	Drafting occupations (372)
173	Urban planners (192)	218	Surveying and mapping technicians (373
			Science technicians
		223	Biological technicians (382)
		224	Chemical technicians (3831)
		225	Science technicians, n.e.c. (3832 3833)

Occupation code	Occupation category	Occupation code	Occupation category
	TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS—Con.		TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS—Con.
	Technicians and Related Support Occupations—Con.		Administrative Support Occupations, Including Clerical—Con.
26	Technicians, except health, engineering, and science		
27	Airplane pilots and navigators (825)		Supervisors, administrative support occupations—Con.
228	Air traffic controllers (392)	307	Supervisors; distribution, scheduling, and adjusting clerks (4522, 4524-4528)
229	Broadcast equipment operators (393)		Computer equipment operators
33	Computer programmers (3971, 3972)		Computer operators (4612)
234	Tool programmers, numerical control (3974)		Peripheral equipment operators (4613)
235	Legal assistants (396)	308	Secretaries, stenographers, and typists
	Technicians, n.e.c. (399)	309	Secretaries (4622)
	Sales Occupations	R (313)	Stenographers (4623)
143	Supervisors and proprietors, sales occupations (40)	314	Typists (4624)
	Sales representatives, finance and business services	315	Information clerks
253	Insurance sales occupations (4122)	316	Interviewers (4642)
254	Real estate sales occupations (4123)	317	Hotel clerks (4643)
255	Securities and financial services sales occupations (4124)	318	Transportation ticket and reservation agents (4644)
256	Advertising and related sales occupations (4153)	319	Receptionists (4645)
257	Sales occupations, other business services (4152)	323	Information clerks, n.e.c. (4649)
258	Sales representatives, commodities except retail	325	Records processing occupations, except financial
259	Sales engineers (421)	326	Classified-ad clerks (4662)
	Sales representatives, mining, manufacturing, and wholesale (423, 424)	327	Correspondence clerks (4663)
	Sales workers, retail and personal services	328	Order clerks (4664)
263	Sales workers, motor vehicles and boats (4342, 4344)	329	Personnel clerks, except payroll and timekeeping (4692)
264	Sales workers, apparel (4346)	335	Library clerks (4694)
265	Sales workers, shoes (4351)	336	File clerks (4696)
266	Sales workers, furniture and home furnishings (4348)		Records clerks (4699)
267	Sales workers; radio, television, hi-fi, and appliances (4343, 4352)	S (337)	Financial records processing occupations
268	Sales workers, hardware and building supplies (4353)	338	Bookkeepers, accounting, and auditing clerks (4712)
269	Sales workers, parts (4367)	339	Payroll and timekeeping clerks (4713)
274	Sales workers, other commodities (4345, 4347, 4354, 4356, 4359, 4362, 4369)	343	Billing clerks (4715)
275	Sales counter clerks (4363)	344	Cost and rate clerks (4716)
Q (276)	Cashiers (4364)	345	Billing, posting, and calculating machine operators (4718)
277	Street and door-to-door sales workers (4366)	346	Duplicating, mail and other office machine operators
278	News vendors (4365)		Duplicating machine operators (4722)
	Sales related occupations	347	Mail preparing and paper handling machine operators (4723)
283	Demonstrators, promoters and models, sales (445)		Office machine operators, n.e.c. (4729)
284	Auctioneers (447)	348	Communications equipment operators
285	Sales support occupations, n.e.c. (444, 448, 449)	349	Telephone operators (4732)
	Administrative Support Occupations, Including Clerical	353	Telegraphers (4733)
	Supervisors, administrative support occupations		Communications equipment operators, n.e.c. (4739)
303	Supervisors, general office (4511, 4513-4519, 4529)	354	Mail and message distributing occupations
304	Supervisors, computer equipment operators (4512)	355	Postal clerks, exc. mail carriers (4742)
305	Supervisors, financial records processing (4521)	356	Mail carriers, postal service (4743)
306	Chief communications operators (4523)	357	Mail clerks, exc. postal service (4744)
			Messengers (4745)
			Material recording, scheduling, and distributing clerks, n.e.c.
		359	Dispatchers (4751)
		363	Production coordinators (4752)

C Supersessional Classification System

Occupation code	Occupation category	Occupation code	Occupation category
	TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS—Con.		SERVICE OCCUPATIONS—Con.
	Administrative Support Occupations, Including Clerical—Con.		Protective Service Occupations—Con.
	Material recording, scheduling, and distributing clerks, n.e.c.—Con.	425	Guards
364	Traffic, shipping, and receiving clerks (4753)	426	Crossing guards (5142)
365	Stock and inventory clerks (4754)	427	Guards and police, exc. public service (5144)
36	Meter readers (4755)		Protective service occupations, n.e.c. (5149)
36	Weighers, measurers, and checkers (4756)		
369	Samplers (4757)		
37	Expeditors (4758)		
	Material recording, scheduling, and distributing clerks, n.e.c. (4759)	433	Service Occupations, Except Protective and Household
	Adjusters and investigators	434	Food preparation and service occupations
	Insurance adjusters, examiners, and investigators (4782)	U (435)	Supervisors, food preparation and service occupations (5211)
376	Investigators and adjusters, except insurance (4783)	436	Bartenders (5212)
377	Eligibility clerks, social welfare (4784)	437	Waiters and waitresses (5213)
378	Bill and account collectors (4786)	438	Cooks, except short order (5214)
	Miscellaneous administrative support occupations	439	Short-order cooks (5215)
379	General office clerks (483)	443	Food counter, fountain and related occupations (5216)
380	Bank tellers (4791)	444	Kitchen workers, food preparation (5217)
381	Proofreaders (4792)	445	Waiters'/waitresses' assistants (5218)
385	Data-entry keyers (4793)	446	Miscellaneous food preparation occupations (5219)
386	Statistical clerks (4794)	447	Health service occupations
387	Teachers' aides (4795)	448	Dental assistants (5232)
388	Administrative support occupations, n.e.c. (4787, 4799)	449	Health aides, except nursing (5233)
		V (463)	Nursing aides, orderlies, and attendants (5236)
	SERVICE OCCUPATIONS		Cleaning and building service occupations, except household
	Private Household Occupations	454	Supervisors, cleaning and building service workers (5241)
401	Launderers and ironers (503)	455	Maids and housemen (5242, 5249)
404	Cooks, private household (504)	456	Janitors and cleaners (5244)
407	Housekeepers and butlers (505)	457	Elevator operators (5245)
T (407)	Child care workers, private household (506)	458	Pest control occupations (5246)
	Private household cleaners and servants (502, 507, 509)	459	Personal service occupations
		463	Supervisors, personal service occupations (5251)
	Protective Service Occupations	464	Barbers (5252)
	Supervisors, protective service occupations	465	Hairdressers and cosmetologists (5253)
413	Supervisors, firefighting and fire prevention occupations (5111)	466	Attendants, amusement and recreation facilities (5254)
41	Supervisors, police and detectives (5112)	467	Guides (5255)
415	Supervisors, guards (5113)	468	Ushers (5256)
	Firefighting and fire prevention occupations	469	Public transportation attendants (5257)
41	Fire inspection and fire prevention occupations (5122)		Baggage porters and bellhops (5262)
417	Firefighting occupations (5123)		Welfare service aides (5263)
	Police and detectives		Child care workers, except private household (5264)
	Police and detectives, public service (5132)		Personal service occupations, n.e.c. (5258, 5269)
423	Sheriffs, bailiffs, and other law enforcement officers (5134)		
42	Correctional institution officers (5133)		
			FARMING, FORESTRY, AND FISHING OCCUPATIONS
			Farm operators and managers
			Farmers, except horticultural (5512-5514)
			Horticultural specialty farmers (5515)
			Managers, farms, except horticultural (5522-5524)
			Managers, horticultural specialty farms (5525)

Occupation code	Occupation category	Occupation code	Occupation category
	FARMING, FORESTRY, AND FISHING OCCUPATIONS—Con.		PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS—Con.
	Other agricultural and related occupations		Mechanics and repairers—Con.
477	Farm occupations, except managerial		Mechanics and repairers, except supervisors—Con.
479	Supervisors, farm workers (5611)		Miscellaneous mechanics and repairers
483	Farm workers (5612-5617)	535	Camera, watch, and musical instrument repair (6171, 6172)
484	Marine life cultivation workers (5618)		Locksmiths and safe repairers (6173)
	Nursery workers (5619)		Office machine repairers (6174)
485	Related agricultural occupations	536	Mechanical controls and valve repairers (6175)
	Supervisors, related agricultural occupations (5621)	538	Elevator installers and repairers (6176)
486	Groundskeepers and gardeners, except farm (5622)	539	Millwrights (6178)
487	Animal caretakers, except farm (5624)	543	Specified mechanics and repairers, n.e.c. (617-6179)
488	Graders and sorters, agricultural products (5625)	544	
489	Inspectors, agricultural products (5627)	547	Not specified mechanics and repairers
	Forestry and logging occupations	549	Construction trades
494	Supervisors, forestry and logging workers (571)		Supervisors, construction occupations
495	Forestry workers, except logging (572)		Supervisors: brickmasons, stonemasons, and tile setters (6312)
496	Timber cutting and logging occupations (573, 579)	553	Supervisors, carpenters and related workers (63)
	Fishers, hunters, and trappers		Supervisors, electricians and power transmission installers (6314)
497	Captains and other officers, fishing vessels (pt 8241)	554	Supervisors; painters, paperhangers, and plaster (6315)
498	Fishers (583)	555	Supervisors: plumbers, pipefitters, and steamfitters (6316)
499	Hunters and trappers (584)	556	Supervisors, n.e.c. (6311, 6318)
	PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	557	Construction trades, except supervisors
	Mechanics and repairers		Brickmasons and stonemasons (pt 6412, pt 641)
503	Supervisors, mechanics and repairers (60)	558	Brickmason and stonemason apprentices (pt 6412, pt 6413)
	Mechanics and repairers, except supervisors	563	Tile setters, hard and soft (6414, pt 6462)
	Vehicle and mobile equipment mechanics and repairers	564	Carpet installers (pt 6462)
X (505)	Automobile mechanics (pt 6111)	565	Carpenters (pt 6422)
506	Automobile mechanic apprentices (pt 6111)	566	Carpenter apprentices (pt 6422)
507	Bus, truck, and stationary engine mechanics (6112)	Y (567)	Drywall installers (6424)
508	Aircraft engine mechanics (6113)	569	Electricians (pt 6432)
509	Small engine repairers (6114)	573	Electrician apprentices (pt 6432)
514	Automobile body and related repairers (6115)	575	Electrical power installers and repairers (6433)
515	Aircraft mechanics, exc. engine (6116)	576	Painters, construction and maintenance (6442)
516	Heavy equipment mechanics (6117)	577	Paperhangers (6443)
517	Farm equipment mechanics (6118)	579	Plasterers (6444)
518	Industrial machinery repairers (613)	583	Plumbers, pipefitters, and steamfitters (pt 645)
519	Machinery maintenance occupations (614)	584	Plumber, pipefitter, and steamfitter apprentices (pt 645)
	Electrical and electronic equipment repairers	585	Concrete and terrazzo finishers (6463)
523	Electronic repairers, communications and industrial equipment (6151, 6153, 6155)	587	Glaziers (6464)
525	Data processing equipment repairers (6154)	588	Insulation workers (6465)
526	Household appliance and power tool repairers (6156)	589	Paving, surfacing, and tamping equipment operators (6466)
527	Telephone line installers and repairers (6157)	593	Roofers (6468)
529	Telephone installers and repairers (6158)	594	Sheetmetal duct installers (6472)
533	Miscellaneous electrical and electronic equipment repairers (6152, 6159)	595	Structural metal workers (6473)
534	Heating, air conditioning, and refrigeration mechanics (616)	596	Drillers, earth (6474)

Occupation code

	Occupation category	Occupation code	Occupation category
	PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS—Con.		PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS—Con.
	Construction trades—Con.		Precision production occupations—Con.
599	Construction trades, except supervisors—Con.	684	Precision workers, assorted materials—Con.
	Construction trades, n.e.c. (6467, 6475, 6476, 6479)		Miscellaneous precision workers, n.e.c. (6869)
613	Extractive occupations	686	Precision food production occupations
614	Supervisors, extractive occupations (632)	687	Butchers and meat cutters (6871)
615	Drillers, oil well (652)	688	Bakers (6872)
616	Explosives workers (653)		Food batchmakers (6873, 6879)
617	Mining machine operators (654)	689	Precision inspectors, testers, and related workers
618	Mining occupations, n.e.c. (656)	693	Inspectors, testers, and graders (6881, 828)
	Precision production occupations		Adjusters and calibrators (6882)
621	Supervisors, production occupations (67, 71)	694	Plant and system operators
622	Precision metal working occupations	695	Water and sewage treatment plant operators (691)
623	Tool and die makers (pt 6811)	696	Power plant operators (pt 693)
624	Tool and die maker apprentices (pt 6811)	699	Stationary engineers (pt 693, 7668)
626	Precision assemblers, metal (6812)		Miscellaneous plant and system operators (692, 694, 695, 696)
627	Machinists (pt 6813)		
628	Machinist apprentices (pt 6813)		
629	Boilermakers (6814)		
630	Precision grinders, fitters, and tool sharpeners (6816)		
631	Pattiemakers and model makers, metal (6817)		
632	Lay-out workers (6821)	703	OPERATORS, FABRICATORS, AND LABORERS
633	Precious stones and metals workers (jewelers) (6822, 6866)		Machine Operators, Assemblers, and Inspectors
634	Engravers, metal (6823)	704	Machine operators and tenders, except precision
635	Sheet metal workers (pt 6824)	705	Metalworking and plastic working machine operator
636	Sheet metal worker apprentices (pt 6824)		Lathe and turning machine set-up operators (7312)
637	Miscellaneous precision metal workers (6829)	706	Lathe and turning machine operators (7512)
638	Precision woodworking occupations		Milling and planing machine operators (7313, 7513)
639	Pattiemakers and model makers, wood (6831)	707	Punching and stamping press machine operators (7314, 7317, 7514, 7517)
640	Cabinet makers and bench carpenters (6832)	708	Rolling machine operators (7316, 7516)
641	Furniture and wood finishers (6835)		Drilling and boring machine operators (7318, 7518)
642	Miscellaneous precision woodworkers (6839)	709	Grinding, abrading, buffing, and polishing machine operators (7322, 7324, 7522)
643	Precision textile, apparel, and furnishings machine workers	713	Forging machine operators (7319, 7519)
644	Dressmakers (pt 6852, pt 7752)	714	Numerical control machine operators (7326)
645	Tailors (pt 6852)	715	Miscellaneous metal, plastic, stone, and glass working machine operators (7329, 7529)
646	Upholsterers (6853)	717	Fabricating machine operators, n.e.c. (7339, 7539)
647	Shoe repairers (6854)		Metal and plastic processing machine operators
648	Apparel and fabric pattersmakers (6856)	719	Molding and casting machine operators (7315, 7342, 7515, 7542)
649	Miscellaneous precision apparel and fabric workers (6859, pt 7752)	723	Metal plating machine operators (7343, 7543)
650	Precision workers, assorted materials	724	Heat treating equipment operators (7344, 7544)
651	Hand molders and shapers, except jewelers (6861)	725	Miscellaneous metal and plastic processing machine operators (7349, 7549)
652	Pattersmakers, lay-out workers, and cutters (6862)		Woodworking machine operators
653	Optical goods workers (6864, pt 7477, pt 7677)	726	Wood lathe, routing, and planing machine operators (7431, 7432, 7631, 7632)
654	Dental laboratory and medical appliance technicians (6865)		Sewing machine operators (7433, 7633)
655	Bookbinders (6844)	727	Shaping and joining machine operators (7435, 7635)
656	Electrical and electronic equipment assemblers (6867)	728	

Occupation code	Occupation category	Occupation code	Occupation category
	OPERATORS, FABRICATORS, AND LABORERS—Con.		OPERATORS, FABRICATORS, AND LABORERS—Con.
	Machine Operators, Assemblers, and Inspectors—Con.		Machine operators, Assemblers, and Inspectors—Con.
	Machine operators and tenders, except precision—Con.		Machine operators and tenders, except precision—Con.
	Woodworking machine operators—Con.		Machine operators, assorted materials—Con.
729	Nailing and tacking machine operators (7636)	777	Miscellaneous machine operators, n.e.c. (pt 7475 7665, 7679)
733	Miscellaneous woodworking machine operators (7434, 7439, 7634, 7639)	779	Machine operators, not specified
	Printing machine operators		Fabricators, assemblers, and hand working occupations
734	Printing machine operators (7443, 7643)	783	Welders and cutters (7332, 7532, 7714)
735	Photoengravers and lithographers (6842, 7444, 7644)	784	Solderers and brazers (7333, 7533, 7717)
736	Typesetters and compositors (6841, 7642)	785	Assemblers (772, 774)
737	Miscellaneous printing machine operators (6849, 7449, 7649)	786	Hand cutting and trimming occupations (7753)
	Textile, apparel, and furnishings machine operators	787	Hand molding, casting, and forming occupations (7754, 7755)
738	Winding and twisting machine operators (7451, 7651)	789	Hand painting, coating, and decorating occupations (7756)
739	Knitting, looping, taping, and weaving machine operators (7452, 7652)	793	Hand engraving and printing occupations (7757)
743	Textile cutting machine operators (7654)	794	Hand grinding and polishing occupations (7758)
744	Textile sewing machine operators (7655)	795	Miscellaneous hand working occupations (7759)
745	Shoe machine operators (7656)	796	Production inspectors, testers, samplers, and weighers
747	Pressing machine operators (7657)	797	Production inspectors, checkers, and examiners (787)
748	Laundering and dry cleaning machine operators (6855, 7658)	798	Production testers (783)
749	Miscellaneous textile machine operators (7459, 7659)	799	Production samplers and weighers (784)
	Machine operators, assorted materials		Graders and sorters, except agricultural (785)
753	Cementing and gluing machine operators (7661)		Transportation and Material Moving Occupations
754	Packaging and filling machine operators (7462, 7662)		Motor vehicle operators
755	Extruding and forming machine operators (7463, 7663)	803	Supervisors, motor vehicle operators (8111)
756	Mixing and blending machine operators (7664)	Z (804)	Truck drivers, heavy (8212, 8213)
757	Separating, filtering, and clarifying machine operators (7476, 7666, 7676)	805	Truck drivers, light (8214)
758	Compressing and compacting machine operators (7467, 7667)	806	Driver-sales workers (8218)
759	Painting and paint spraying machine operators (7669)	808	Bus drivers (8215)
763	Roasting and baking machine operators, food (7472, 7672)	809	Taxicab drivers and chauffeurs (8216)
764	Washing, cleaning, and pickling machine operators (7673)	813	Parking lot attendants (874)
765	Folding machine operators (7474, 7674)	814	Motor transportation occupations, n.e.c. (8219)
766	Furnace, kiln, and oven operators, exc. food (7675)		Transportation occupations, except motor vehicles
768	Crushing and grinding machine operators (pt 7477, pt 7677)	823	Rail transportation occupations
769	Slicing and cutting machine operators (7478, 7678)	824	Railroad conductors and yardmasters (8113)
	Motion picture projectionists (pt 7479)	825	Locomotive operating occupations (8232)
773	Photographic process machine operators (6863, 6868, 7671)	826	Railroad brake, signal, and switch operators (8233)
774			Rail vehicle operators, n.e.c. (8239)
			Water transportation occupations
		828	Ship captains and mates, except fishing boats (pt 8241, 8242)
		829	Sailors and deckhands (8243)
		833	Marine engineers (8244)
		834	Bridge, lock, and lighthouse tenders (8245)
			Material moving equipment operators
		843	Supervisors, material moving equipment operators (812)
		844	Operating engineers (8312)

Occu- pation code	Occupation category	Occu- pation code	Occupation category
	OPERATORS, FABRICATORS, AND LABORERS—Con.		OPERATORS, FABRICATORS, AND LABORERS—Con.
	Transportation and Material Moving Occupations—Con.		Handlers, Equipment Cleaners, Helpers, and Laborers—Con.
	Material moving equipment operators—Con.		
45	Longshore equipment operators (8313)	869	Construction laborers (871)
848	Hoist and winch operators (8314)	873	Production helpers (861, 862)
849	Crane and tower operators (8315)	875	Freight, stock, and material handlers
53	Excavating and loading machine operators (8316)	876	Garbage collectors (8722)
55	Grader, dozer, and scraper operators (8317)	877	Stevedores (8723)
856	Industrial truck and tractor equipment operators (8318)	878	Stock handlers and baggers (8724)
59	Miscellaneous material moving equipment operators (8319)	883	Machine feeders and offbearers (8725)
			Freight, stock, and material handlers, n.e.c. (8726)
	Handlers, Equipment Cleaners, Helpers, and Laborers	885	Garage and service station related occupations (873)
863	Supervisors; handlers, equipment cleaners, and laborers, n.e.c. (85)	887	Vehicle washers and equipment cleaners (875)
54	Helpers, mechanics and repairers (863)	888	Hand packers and packagers (8761)
	Helpers, construction and extractive occupations	889	Laborers, except construction (8769)
865	Helpers, construction trades (8641-8645, 8648)		
36	Helpers, surveyor (8646)		
-37	Helpers, extractive occupations (865)		
		999	OCCUPATION NOT REPORTED¹

¹ Code used when not-reported cases are not allocated.

Attachment 5

OCCUPATION RECODE

Description: A recode of the respondent's occupation (ql4b)
into main categories.

Column: 88-91

Universe: All

Codes: Attached

Occupation Code	Occupation Recode			Occupation Title
Q14B =				Total.....
				Professional, Managerial, technical.....
				Business.....
3-18, 25-27, 34-36	1	01	1	Business and Management
23	1	01	2	Accountants
19, 24, 28, 29, 33, 37	1	01	3	Other
				Educators.....
155-159	1	02	1	Elem./Sec. Teachers
113-154	1	02	2	College Teachers
163-165	1	02	3	Other Teachers
				Engineers.....
53	1	03	1	Civil
55	1	03	2	Electrical
44-49, 54, 56-59	1	03	3	Other

Occupation Code	Occupation Recode			Occupation Title
				Health Professionals.....
95	1	04	1	Registered Nurses
84-89	1	04	2	Practitioners
96-106	1	04	3	Other
				Public Affairs/Social Services.....
176-177	1	05	1	Religious Workers
174-175	1	05	2	Social Workers
413-427	1	05	3	Other
69-83	1	06	0	Bio., Physical Scientists & Mathematicians...
183-194	1	08 07	0	Fine Arts.....
166-173	1	08	0	Social Sciences, Psychologists.....
195-198	1	09	0	Communicators.....
64-68	1	10	0	Computer Specialists.....
				Technicians.....
203-207	1	11	1	Health
213-215, 217-224, 226-234	1	11	2	Engineering and Science
208, 216, 225, 235	1	11	3	Other

Attachment 6

MAJOR FIELD RECODE

Description: A recode of the respondent's major field of study
(q2) into main categories.

Column: 33-36

Universe: All

Codes: Attached

Major Field Code	Major Field Recode	Major Field Title
Q2MAJ =		Total.....
		Professional.....
500-600	1	Business and Management
800-900	1	Education
900-1000	1	Engineering
1200-1300	1	Health Professions
2100-2200	1	Public Affairs/Social Services
		Arts & Sciences.....
400-500	2	Biological Science
700-800, 1700-1800, 1900-1999	2	Sciences
2200-2300	2	Social Science
1000-1200, 1500-1600, 4903	2	Humanities
2000-2100	2	Psychology
All the Q2MAJ codes not listed above	3	Other