

2003 CONSUMER EXPENDITURE DIARY SURVEY  
PUBLIC USE MICRODATA  
DOCUMENTATION

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U.S. Department of Labor  
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## I. INTRODUCTION

The Consumer Expenditure Survey (CE) program provides a continuous and comprehensive flow of data on the buying habits of American consumers. These data are used widely in economic research and analysis, and in support of revisions of the Consumer Price Index. To meet the needs of users, the Bureau of Labor Statistics (BLS) produces population estimates (for consumer units or CUs) of average expenditures in news releases, reports, and articles in the Monthly Labor Review. Tabulated CE data are also available on the Internet and by facsimile transmission (see Section XVI, Appendix 5). The microdata are available on CD-ROM as SAS data sets or ASCII text files.

These microdata files present detailed expenditure and income data for the Diary component of the CE for 2003. They include weekly expenditure (EXPN) and annual income (DTAB) files. The data in EXPN and DTAB files are categorized by a Universal Classification Code (UCC). The advantage of the EXPN and DTAB files is that with the data classified in a standardized format, the user may perform comparative expenditure (income) analysis with relative ease. The FMLY and MEMB files present data on the characteristics and demographics of CUs and CU members. The summary level expenditure and income information on the FMLY files permits the data user to link consumer spending, by general expenditure category, and household characteristics and demographics on one set of files.

Estimates of average expenditures in 2003 from the Diary survey, integrated with data from the Interview survey, are published in *Consumer Expenditures in 2003 (Due in 2004)*. A list of recent publications containing data from the CE appears at the end of this documentation.

The microdata files are in the public domain and with appropriate credit, may be reproduced without permission. A suggested citation is: "U.S. Department of Labor, Bureau of Labor Statistics, Consumer Expenditure Survey, Diary Survey, 2003".

## II. CHANGES FROM THE 2002 MICRODATA FILES

### FMLY File

1. The following new variables were deleted from the Diary FMLY files beginning 2003Q2.

| Name     | Start Position | Format  |
|----------|----------------|---------|
| ORIGIN1  | 495            | CHAR(1) |
| ORIGIN1_ | 496            | CHAR(1) |
| ORIGIN2  | 497            | CHAR(1) |
| ORIGIN2_ | 498            | CHAR(1) |

2. The following new variables were added to the Diary FMLY files beginning 2003Q2.

| Name     | Start Position | Format  |
|----------|----------------|---------|
| HORREF1  | 1576           | CHAR(1) |
| HORREF1_ | 1577           | CHAR(1) |
| HORREF2  | 1578           | CHAR(1) |
| HORREF2_ | 1579           | CHAR(1) |

### 3. Variable definition changes.

| Variable Name | New codes/definitions/descriptions                                 |
|---------------|--|
| OTHRECX       | OTHRECX = SUM OF(LUMPX, SALEX, SSREFX, INSREFX, PTAXREFX, CHDLMPX) |

### MEMB File

1. The following new variables were deleted from the Diary MEMB files beginning 2003Q2.

| Name     | Start Position | Format  |
|----------|----------------|---------|
| ORIGIN   | 140            | CHAR(1) |
| ORIGIN_  | 141            | CHAR(1) |
| RACE     | 151            | CHAR(1) |
| RACE_    | 152            | CHAR(1) |
| SEX_     | 175            | CHAR(1) |
| MARITAL_ | 134            | CHAR(1) |
| CU_C_DE1 | 71             | CHAR(1) |

2. The following new variables were added to the Diary MEMB files beginning 2003Q2.

| Name     | Start Position | Format  |
|----------|----------------|---------|
| HORIGIN  | 250            | CHAR(1) |
| HISPANIC | 251            | CHAR(1) |
| HISP_NIC | 252            | CHAR(1) |
| MEMBRACE | 253            | CHAR(1) |
| RC_WHITE | 254            | CHAR(1) |
| RC_W_ITE | 255            | CHAR(1) |
| RC_BLACK | 256            | CHAR(1) |
| RC_B_ACK | 257            | CHAR(1) |
| RC_NATAM | 258            | CHAR(1) |
| RC_N_TAM | 259            | CHAR(1) |
| RC_ASIAN | 260            | CHAR(1) |
| RC_A_IAN | 261            | CHAR(1) |
| RC_PACIL | 262            | CHAR(1) |
| RC_P_CIL | 263            | CHAR(1) |
| RC_OTHER | 264            | CHAR(1) |
| RC_O_HER | 265            | CHAR(1) |
| RC_DK    | 266            | CHAR(1) |
| RC_DK_   | 267            | CHAR(1) |

### EXPN File

There were no changes to the EXPN file.

### DTAB File

There were no changes to the DTAB file.

### III. FILE INFORMATION

The microdata on the CD-ROM are available as SAS data sets or ASCII text files. The 2003 Diary release contains four sets of data files (FMLY, MEMB, EXPN, DTAB) and three processing files. The FMLY, MEMB, EXPN, and DTAB files are organized by the quarter of the calendar year in which the data were collected. There are four quarterly data sets for each of these files. The FMLY files contain CU characteristics, income, and summary level expenditures; the MEMB files contain member characteristics and income data; the EXPN files contain detailed weekly expenditures at the UCC level; and the DTAB files contain annual income data.

The three processing files enhance computer processing and tabulation of data, and provide descriptive information on item codes. The three processing files are: an aggregation scheme file used in the published consumer expenditure tables (DSTUB), a UCC file that contains UCCs and their abbreviated titles, identifying the expenditure, income, or demographic item represented by each UCC, and a sample program file that contains the computer program used in Section VII.A. SAMPLE PROGRAM of the documentation. The processing files are further explained in Section III.E.5. PROCESSING FILES.

Note that the variable NEWID, the CU's identification number, is the common variable among files by which matching is done.

#### A. DATA SET NAMES

The file naming convention on the ASCII CD-ROM is as follows:  
(where "X" references the designated drive for your CD)

```
X:\DIARY03\FMLYD031.txt (Diary FMLY file for first quarter, 2003)
X:\DIARY03\MEMBD031.txt (Diary MEMB file for first quarter, 2003)
X:\DIARY03\EXPND031.txt (Diary EXPN file for first quarter, 2003)
X:\DIARY03\DTABD031.txt (Diary DTAB file for first quarter, 2003)
X:\DIARY03\FMLYD032.txt (etc.)
X:\DIARY03\MEMBD032.txt
X:\DIARY03\EXPND032.txt
X:\DIARY03\DTABD032.txt
X:\DIARY03\FMLYD033.txt
X:\DIARY03\MEMBD033.txt
X:\DIARY03\EXPND033.txt
X:\DIARY03\DTABD033.txt
X:\DIARY03\FMLYD034.txt
X:\DIARY03\MEMBD034.txt
X:\DIARY03\EXPND034.txt
X:\DIARY03\DTABD034.txt
X:\DIARY03\UCCD03.txt
```

The file naming convention on the SAS CD-ROM is as follows:

```
X:\DIARY03\FMLD031.sd2 (Diary FMLY file for first quarter, 2003)
X:\DIARY03\MEMD031.sd2 (Diary MEMB file for first quarter, 2003)
X:\DIARY03\EXPD031.sd2 (Diary EXPN file for first quarter, 2003)
X:\DIARY03\DTBD031.sd2 (Diary DTAB file for first quarter, 2003)
X:\DIARY03\FMLD032.sd2 (etc.)
X:\DIARY03\MEMD032.sd2
X:\DIARY03\EXPD032.sd2
X:\DIARY03\DTBD032.sd2
X:\DIARY03\FMLD033.sd2
X:\DIARY03\MEMD033.sd2
X:\DIARY03\EXPD033.sd2
X:\DIARY03\DTBD033.sd2
```

X:\DIARY03\FMLD034.sd2  
X:\DIARY03\MEMD034.sd2  
X:\DIARY03\EXPD034.sd2  
X:\DIARY03\DTBD034.sd2  
X:\DIARY03\UCCD03.txt

## B. RECORD COUNTS AND LOGICAL RECORD LENGTHS PER QUARTER

The following are number of records and the logical record lengths (LRECL) in each data set:

| <u>ASCII data set</u> | <u>SAS data set</u> | <u>2003<br/>LRECL</u> | <u>2003<br/>Record Count</u> |
|-----------------------|---------------------|-----------------------|------------------------------|
| FMLYD031.txt          | FMLD031.sd2         | 1579                  | 3976                         |
| MEMBD031.txt          | MEMD031.sd2         | 267                   | 9925                         |
| EXPND031.txt          | EXPD031.sd2         | 40                    | 148492                       |
| DTABD031.txt          | DTBD031.sd2         | 28                    | 63250                        |
| FMLYD032.txt          | FMLD032.sd2         | 1579                  | 3938                         |
| MEMBD032.txt          | MEMD032.sd2         | 267                   | 10004                        |
| EXPND032.txt          | EXPD032.sd2         | 40                    | 151301                       |
| DTABD032.txt          | DTBD032.sd2         | 28                    | 63604                        |
| FMLYD033.txt          | FMLD033.sd2         | 1579                  | 3973                         |
| MEMBD033.txt          | MEMD033.sd2         | 267                   | 10141                        |
| EXPND033.txt          | EXPD033.sd2         | 40                    | 151636                       |
| DTABD033.txt          | DTBD033.sd2         | 28                    | 63488                        |
| FMLYD034.txt          | FMLD034.sd2         | 1579                  | 3940                         |
| MEMBD034.txt          | MEMD034.sd2         | 267                   | 10133                        |
| EXPND034.txt          | EXPD034.sd2         | 40                    | 149534                       |
| DTABD034.txt          | DTBD034.sd2         | 28                    | 63264                        |

## C. DATA FLAGS:

Data fields on the FMLY and MEMB files are explained by flag variables following the data field. The names of the flag variables are derived from the names of the data fields they reference. In general the rule is to add an underscore to the last position of the data field name, for example WAGEX becomes WAGEX\_. However, if the data field name is eight characters in length, then the fifth position is replaced with an underscore. If this fifth position is already an underscore, then the fifth position is changed to a zero, so that PENSIONX becomes PENS\_ONX, EDUC\_REF becomes EDUC0REF.

The flag values are defined as follows:

A flag value of "A" indicates a valid blank; that is, a blank field where a response is not anticipated.

A flag value of "B" indicates a blank resulting from an invalid nonresponse; that is, a nonresponse that is not consistent with other data reported by the CU.

A flag value of "C" refers to a blank resulting from a "don't know", refusal, or other type of nonresponse.

A flag value of "D" indicates that the data field contains a valid or good data value.

A flag value of "T" indicates topcoding has been applied to the data field.

A flag value of "R" for recode has been created for the variable STATE\_. Some Primary Sampling Units (PSUs) in some states are given "false" STATE codes for nondisclosure reasons. CUs with STATE\_='R' (for recode) indicate that not all CUs with that particular STATE code are

from that state. See Section IV.A.CU CHARACTERISTICS AND INCOME FILE (FMLY) on topcoding of CU characteristics and income for more detail.

## **D. FILE NOTATION**

Every record from each data file includes the variable NEWID, the CU's unique identification number, which can be used to link records of one CU from several files.

Data fields for variables on the microdata files have either numeric or character values. The format column in the detailed variable descriptions (SECTION III.E. DETAILED VARIABLE DESCRIPTIONS) distinguishes whether a variable is numeric (NUM) or character (CHAR) and shows the number of field positions the variable occupies. Variables that include decimal points are formatted as NUM(t,r) where t is the total number of positions occupied, and r is the number of places to the right of the decimal.

In addition to format, these detailed listings give an item description, questionnaire source, identification of codes where applicable, and start position for each variable. The questionnaire source, which identifies where the data for that variable is collected on the characteristics questionnaire, is listed beneath the variable description and is formatted "S04B 2b", which denotes Section 4, Part B, Question 2b of the characteristics questionnaire.

A star (\*) is shown in front of new variables, those which have changed in format or definition, and those which have been deleted. Variables whose format has expanded are moved to the end of the file, and their original positions are left blank. New variables are added to the end of the files, after variables whose format has changed. The positions of deleted variables are left blank.

Some variables require special notation. The following notation is used throughout the documentation for all files:

\*D(Yxxq) identifies a variable that is deleted as of the quarterly file indicated. The year and quarter are identified by the 'xx' and 'q' respectively. For example, the notation \*D(Y031) indicates the variable is deleted starting with the data file of the first quarter of 2003.

\*N(Yxxq) identifies a variable that is added as of the quarterly file indicated. The year and quarter are identified by the 'xx' and 'q' for new variables in the same way as for deleted variables.

\*L indicates that the variable can contain negative values.

## **E. DETAILED VARIABLE DESCRIPTIONS**

### **1. CONSUMER UNIT (CU) CHARACTERISTICS AND INCOME FILE (FMLY)**

The "FMLY" file, also referred to as the "Consumer Unit Characteristics and Income" file, contains CU characteristics, CU income, and characteristics and earnings of the reference person and of the spouse. The file includes weights needed to calculate population estimates and variances. (See Sections V. ESTIMATION PROCEDURES and VI. RELIABILITY STATEMENT)

Summary expenditure variables in this file can be combined to derive weekly estimates for broad consumption categories. Demographic characteristics, such as family size, refer to the CU status on the date of the interview. Income variables contain annual values, covering the 12 months prior to the date of the interview. When there is a valid nonresponse, or where nonresponse occurs and there is no imputation, there will be missing values. The type of nonresponse is explained by associated data flag variables described in Section III.C. DATA FLAGS.



a. CU AND DIARY IDENTIFIERS

| VARIABLE | ITEM DESCRIPTION   | START POSITION | FORMAT  |
|----------|--|----------------|---------|
| NEWID    | CU identification number. Digits 1-7 (CU sequence number, 1 through 9999999) uniquely identify the CU. Digit 8 is the week number, 1 or 2<br><br>BLS derived | 1              | NUM(8)  |
| CUID     | CU sequence number which uniquely identifies Cus (Digits 1-7 of NEWID)   | 1569           | NUM(7)  |
| HH_CU_Q  | Count of CUs in this household<br><br>BLS derived  | 1507           | NUM(2)  |
| HH_CU_Q_ |  | 1509           | CHAR(1) |
| HHID     | Identifier for household with more than one CU. Household with only one CU will be set to missing.<br><br>BLS derived  | 1510           | NUM(3)  |
| HHID_    |  | 1513           | CHAR(1) |
| WEEKI    | Week of the Diary<br>CODED<br>1 First week Diary<br>2 Second week Diary<br><br>Census derived  | 656            | CHAR(1) |
| WEEKI_   |  | 657            | CHAR(1) |
| WEEKN    | Number of Diary weeks surveyed, 1 or 2<br><br>BLS derived  | 658            | NUM(1)  |
| STRTDAY  | Diary start date - date<br><br>Cover 19  | 625            | CHAR(2) |
| STRTMNTH | Diary start date - month<br><br>Cover 19   | 627            | CHAR(2) |
| STRTYEAR | Diary start date - year<br><br>Cover 19  | 629            | CHAR(4) |
| PICK_UP  | Final interview status   | 559            | CHAR(2) |

CODED  
 01 Diary placed or completed  
 03 Temporarily absent during ENTIRE reference period

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**b. CU CHARACTERISTICS**

| VARIABLE | ITEM DESCRIPTION  | START POSITION | FORMAT  |
|----------|---|----------------|---------|
| REGION   | Region<br>CODED<br>1 Northeast<br>2 Midwest<br>3 South<br>4 West<br><br>BLS derived   | 580            | CHAR(1) |
| REGION_  |   | 581            | CHAR(1) |
| BLS_URBN | Urban/Rural<br>CODED<br>1 Urban<br>2 Rural<br><br>BLS derived   | 42             | CHAR(1) |
| POPSIZE  | Population size of the PSU<br>CODED<br>1 More than 4 million<br>2 1.20-4 million<br>3 0.33-1.19 million<br>4 125 - 329.9 thousand<br>5 Less than 125 thousand<br><br>BLS derived  | 564            | CHAR(1) |
| SMSASTAT | Does CU reside inside a Metropolitan Statistical Area (MSA)?<br>CODED<br>1 Yes<br>2 No<br><br>BLS derived   | 606            | CHAR(1) |
| STATE    | State identifier (see Section IV.A. and Section X.D. for important information)<br><br>01 Alabama *28 Mississippi<br>02 Alaska **29 Missouri<br>RR04 Arizona 31 Nebraska<br>*05 Arkansas R32 Nevada<br>**06 California R33 New Hampshire<br>08 Colorado 34 New Jersey<br>09 Connecticut *35 New Mexico<br>10 Delaware RR**36 New York | 1518           | CHAR(2) |

|      |    |                      |      |                |                |
|------|----|----------------------|------|----------------|----------------|
| R    | 11 | District of Columbia | **37 | North Carolina |                |
| **   | 12 | Florida              | RR   | 39             | Ohio           |
| **   | 13 | Georgia              | **   | 40             | Oklahoma       |
|      | 15 | Hawaii               | **   | 41             | Oregon         |
|      | 16 | Idaho                |      | 42             | Pennsylvania   |
| **   | 17 | Illinois             |      | 45             | South Carolina |
| RR** | 18 | Indiana              | *    | 46             | South Dakota   |
| *    | 19 | Iowa                 | **   | 47             | Tennessee      |
| **   | 20 | Kansas               |      | 48             | Texas          |
|      | 21 | Kentucky             |      | 49             | Utah           |
|      | 22 | Louisiana            |      | 50             | Vermont        |
| R*   | 23 | Maine                | **   | 51             | Virginia       |
|      | 24 | Maryland             | **   | 53             | Washington     |
|      | 25 | Massachusetts        | R    | 54             | West Virginia  |
| **   | 26 | Michigan             |      | 55             | Wisconsin      |
| **   | 27 | Minnesota            |      |                |                |

- \* indicates that the STATE code has been suppressed for all sampled CUs in that state (STATE\_ = 'T' for all observations).
- \*\* indicates that the STATE code has been suppressed for some sampled CUs in that state (STATE\_ = 'T' for some observations).
- R indicates that either all observations from this state have been re-coded or all strata<sup>1</sup> of observations from this state include "re-codes" from other states.
- RR indicates that either some observations from this state have been re-coded or at least one stratum<sup>1</sup> of observations from this state includes "re-codes" from other states.
- R\* indicates that the STATE code has been suppressed for some sampled CUs in that state and, either STATE has been re-coded or the state includes "re-codes" from other states in all strata<sup>1</sup>.
- RR\*\* indicates that the STATE code has been suppressed for some sampled CUs in that state and, either STATE has been re-coded or the state includes "re-codes" from other states in at least one stratum<sup>1</sup>.

<sup>1</sup> A STATE stratum is a unique POPSIZE and BLS\_URBN combination.

States not listed are not in the CE sample.

Census derived

|          |   |      |         |
|----------|---|------|---------|
| STATE_   |   | 1520 | CHAR(1) |
| CUTENURE | Housing tenure                          | 43   | CHAR(1) |
|          | CODED                                   |      |         |
|          | 1 Owned with mortgage                   |      |         |
|          | 2 Owned without mortgage                |      |         |
|          | 3 Owned mortgage not reported           |      |         |
|          | 4 Rented                                |      |         |
|          | 5 Occupied without payment of cash rent |      |         |
|          | 6 Student housing                       |      |         |

BLS derived

|          |  |    |         |
|----------|--|----|---------|
| CUTE_URE |  | 44 | CHAR(1) |
|----------|--|----|---------|

|          |  |      |         |
|----------|--|------|---------|
| FAM_SIZE | Number of members in CU<br>BLS derived   | 78   | NUM(2)  |
| FAM__IZE |  | 80   | CHAR(1) |
| PERSLT18 | Number of children less than 18 in CU<br>BLS derived   | 544  | NUM(2)  |
| PERS_T18 |  | 546  | CHAR(1) |
| PERSOT64 | Number of persons over 64 in CU<br>BLS derived   | 547  | NUM(2)  |
| PERS_T64 |  | 549  | CHAR(1) |
| CHILDAGE | Age of children of reference person<br>CODED<br>0 No children<br>1 All children less than 6<br>2 Oldest child between 6 and 11 and at least one child less than 6<br>3 All children between 6 and 11<br>4 Oldest child between 12 and 17 and at least one child less than 12<br>5 All children between 12 and 17<br>6 Oldest child greater than 17 and at least one child less than 17<br>7 All children greater than 17<br>BLS derived  | 1514 | CHAR(1) |
| CHIL_AGE |  | 1515 | CHAR(1) |
| FAM_TYPE | CU type is based on relationship of members to reference person. "Own" children include blood-related sons and daughters, step children and adopted children.<br>CODED<br>1 Husband and wife (H/W) only<br>2 H/W, own children only, oldest child under 6 years old<br>3 H/W, own children only, oldest child 6 to 17 years old<br>4 H/W, own children only, oldest child over 17 years old<br>5 All other H/W CUs<br>6 One parent, male, own children only, at least one child age under 18 years old<br>7 One parent, female, own children only, at least one child age under 18 years old<br>8 Single persons<br>9 Other CUs<br>BLS derived | 81   | CHAR(1) |
| FAM__YPE |  | 82   | CHAR(1) |
| NO_EARNR | Number of earners  | 471  | NUM(2)  |

|          |   |      |          |
|----------|---|------|----------|
|          | BLS derived   |      |          |
| NO_E_RNR |   | 473  | CHAR(1)  |
| EARNCOMP | Composition of earners<br>CODED   | 57   | CHAR(1)  |
|          | 1 Reference person only   |      |          |
|          | 2 Reference person and spouse   |      |          |
|          | 3 Reference person, spouse, and others  |      |          |
|          | 4 Reference person and others   |      |          |
|          | 5 Spouse only   |      |          |
|          | 6 Spouse and others   |      |          |
|          | 7 Others only   |      |          |
|          | 8 No earners  |      |          |
|          | BLS derived   |      |          |
| EARN_OMP |   | 58   | CHAR(1)  |
| VEHQ     | How many automobiles, trucks, or other vehicles do you own?   | 653  | NUM(2)   |
|          | S02 4B  |      |          |
| VEHQ_    |   | 655  | CHAR(1)  |
| INCLASS  | Income class of CU based on income before taxes (Codes 01 through 09 are for CUs considered complete reporters of income)<br>CODED  | 1516 | CHAR(2)  |
|          | 01 Less than \$5,000  |      |          |
|          | 02 \$5,000 to \$9,999   |      |          |
|          | 03 \$10,000 to \$14,999   |      |          |
|          | 04 \$15,000 to \$19,999   |      |          |
|          | 05 \$20,000 to \$29,999   |      |          |
|          | 06 \$30,000 to \$39,999   |      |          |
|          | 07 \$40,000 to \$49,999   |      |          |
|          | 08 \$50,000 to \$69,999   |      |          |
|          | 09 \$70,000 and over  |      |          |
|          | 10 Incomplete income reported   |      |          |
|          | BLS derived   |      |          |
| RESPSTAT | Completeness of income response<br>CODED  | 582  | CHAR(1)  |
|          | 1 Complete income respondent  |      |          |
|          | 2 Incomplete income respondent  |      |          |
|          | BLS derived   |      |          |
| RESP_TAT |   | 583  | CHAR(1)  |
| INC_RNKU | Weighted cumulative percent income ranking of CU to total population of non-rural CUs. Ranking based on income before taxes for complete reporters. Rank of incomplete income reporters is set to zero. | 395  | NUM(9,7) |
|          | BLS derived   |      |          |

|          |   |      |          |
|----------|---|------|----------|
| INC__NKU |   | 404  | CHAR(1)  |
| INC_RANK | Weighted cumulative percent income ranking of CU to total population (rural and non-rural CUs). Ranking based on income before taxes for complete reporters. Rank of incomplete income reporters is set to zero.<br><br>BLS derived | 1559 | NUM(9,7) |
| INC__ANK |   | 1568 | CHAR(1)  |
| POVERTY  | Is CU income below current year's poverty threshold? (Income is defined as FINCBFX - JFS_AMT)<br><br>CODED<br>1 Yes<br>2 No<br><br>BLS derived  | 1548 | CHAR(1)  |
| POVERTY_ |   | 1549 | CHAR(1)  |
| POVLEV   | Poverty level threshold for this CU<br><br>BLS derived  | 1550 | NUM (8)  |
| POVLEV_  |   | 1558 | CHAR (1) |

**c. CHARACTERISTICS OF REFERENCE PERSON AND SPOUSE**

| VARIABLE  | ITEM DESCRIPTION   | START POSITION | FORMAT  |
|-----------|--|----------------|---------|
| AGE_REF   | Age of reference person<br><br>BLS derived   | 36             | NUM(2)  |
| AGE_REF_  |  | 38             | CHAR(1) |
| *REF_RACE | Race of reference person<br>CODED<br>1 White<br>2 Black<br>Changed or new codes:<br>3 Native American<br>4 Asian<br>5 Pacific Islander<br>6 Multirace<br><br>BLS derived | 578            | CHAR(1) |
| REF__ACE  |  | 579            | CHAR(1) |
| SEX_REF   | Sex of reference person<br>CODED   | 602            | CHAR(1) |

|          |   |                 |                    |
|----------|---|-----------------|--------------------|
|          | 1 Male<br>2 Female  |                 |                    |
|          | BLS derived   |                 |                    |
| SEX_REF_ |   | 603             | CHAR(1)            |
| HORREF1  | Hispanic Origin of the Reference Person<br>Coded:<br>1 Mexican<br>2 Mexican-American<br>3 Chicano<br>4 Puerto Rican<br>5 Cuban<br>6 Cuban-American<br>7 Central or South American<br>8 Other Hispanic<br>Blank for non-Hispanic   | 1576            | CHAR(1)            |
| HORREF1_ | <b>*N(031)</b>  | <del>1576</del> | <del>CHAR(1)</del> |
|          | <b>*N(031)</b>  |                 |                    |
| HORREF2  | Hispanic Origin of the spouse<br>Coded same as HORREF1  |                 |                    |
|          | <b>*N(031)</b>  | 1578            | CHAR(1)            |
| HORREF2_ | <b>*N(031)</b>  | 1579            | CHAR(1)            |
| MARITAL1 | Marital status of reference person<br>CODED<br>1 Married<br>2 Widowed<br>3 Divorced<br>4 Separated<br>5 Never married   | 469             | CHAR(1)            |
|          | BLS derived   |                 |                    |
| MARI_AL1 |   | 470             | CHAR(1)            |
| EDUC_REF | Education of reference person<br>CODED<br>00 Never attended school<br>10 First through eighth grade<br>11 Ninth through twelve grade (no H.S. diploma)<br>12 High school graduate<br>13 Some college, less than college graduate<br>14 Associate's degree (occupational/vocational or academic)<br>15 Bachelor's degree<br>16 Master's degree<br>17 Professional/Doctorate degree | 68              | CHAR(2)            |
|          | BLS derived   |                 |                    |
| EDUC0REF |   | 70              | CHAR(1)            |

|         |  |     |         |
|---------|--|-----|---------|
| AGE2    | Age of spouse<br>BLS derived                                   | 39  | NUM(2)  |
| AGE2_   |  | 41  | CHAR(1) |
| RACE2   | Race of spouse<br>CODED - same as REF_RACE<br>BLS derived      | 574 | CHAR(1) |
| RACE2_  |  | 575 | CHAR(1) |
| SEX2    | Sex of spouse<br>CODED - same as SEX_REF<br>BLS derived        | 604 | CHAR(1) |
| SEX2_   |  | 605 | CHAR(1) |
| EDUCA2  | Education of spouse<br>CODED - same as EDUC_REF<br>BLS derived | 71  | CHAR(2) |
| EDUCA2_ |  | 73  | CHAR(1) |

**d. WORK EXPERIENCE OF REFERENCE PERSON AND SPOUSE**

| <b>VARIABLE</b> | <b>ITEM DESCRIPTION</b>   | <b>START POSITION</b> | <b>FORMAT</b> |
|-----------------|---|-----------------------|---------------|
| WK_WRKD1        | Number of weeks worked by reference person in the last 12 months, including full or part time, paid vacation and paid sick leave.<br>BLS derived  | 672                   | NUM(2)        |
| WK_W_KD1        |   | 674                   | CHAR(1)       |
| HRSPRWK1        | Number of hours usually worked per week by reference person<br>BLS derived  | 387                   | NUM(3)        |
| HRSP_WK1        |   | 390                   | CHAR(1)       |
| OCCULIS1        | The job in which reference person received the most earnings during the past 12 months best fits the following category<br>CODED<br>Manager, professional<br>01 Administrator, manager<br>02 Teacher<br>03 Professional<br>Administrative support, technical, sales<br>04 Administrative support, including clerical<br>05 Sales, retail<br>06 Sales, business goods and services | 561                   | CHAR(2)       |



- 07 Technician
- Service
- 08 Protective service
- 09 Private household service
- 10 Other service
- Operator, assembler, laborer
- 11 Machine operator, assembler, inspector
- 12 Transportation operator
- 13 Handler, helper, laborer
- Precision production, craft, repair
- 14 Mechanic, repairer, precision production
- 15 Construction, mining
- Farming, forestry, fishing
- 16 Farming
- 17 Forestry, fishing, groundskeeping
- Armed forces
- 18 Armed forces

BLS derived

OCCU\_IS1 563 CHAR(1)

EMPLTYP1 Employer from which reference person received the most earnings in past 12 months 74 CHAR(1)

CODED

- 1 Private company, business, or individual
- 2 Federal government
- 3 State government
- 4 Local government
- 5 Self-employed in own business, professional practice, or farm
- 6 Family business or farm, working without pay

BLS derived

EMPL\_YP1 75 CHAR(1)

WHYNWRK1 Reason reference person did not work during the past 12 months 668 CHAR(1)

CODED

- 1 Retired
- 2 Taking care of home/CU
- 3 Going to school
- 4 Ill, disabled, unable to work
- 5 Unable to find work
- 6 Doing something else

BLS derived

WHYN\_RK1 669 CHAR(1)

WK\_WRKD2 Number of weeks worked by spouse in the last 12 months, including full or part time, paid vacation and paid sick leave. 675 NUM(2)

BLS derived

WK\_W\_KD2 677 CHAR(1)

|          |  |     |         |
|----------|--|-----|---------|
| HRSPRWK2 | Number of hours usually worked per week by spouse<br>BLS derived   | 391 | NUM(3)  |
| HRSP_WK2 |  | 394 | CHAR(1) |
| OCCULIS2 | Job in which spouse received the most earnings during the past 12 months<br>CODED - same as OCCULIS1<br>S04A 4a  | 492 | CHAR(2) |
| OCCU_IS2 |  | 494 | CHAR(1) |
| EMPLTYP2 | Employer from which spouse received the most earnings during the past 12 months<br>CODED - Same as EMPLTYP1<br>BLS derived   | 76  | CHAR(1) |
| EMPL_YP2 |  | 77  | CHAR(1) |
| WHYNWRK2 | Reason spouse did not work during the past 12 months<br>CODED - same as WHYNWRK1<br>BLS derived  | 670 | CHAR(1) |
| WHYN_RK2 |  | 671 | CHAR(1) |
| OCCEXPNX | During the past 12 months, what was the total amount of occupational expenses such as union dues, tools, uniforms, business or professional association dues, licenses or permits?<br>S04B 5 | 483 | NUM(8)  |
| OCCE_PNX |  | 491 | CHAR(1) |

e. **INCOME**

| VARIABLE | ITEM DESCRIPTION  | START POSITION | FORMAT  |
|----------|---|----------------|---------|
| FINCBEFX | Amount of CU income before taxes in past 12 months (UNEMPX + WRKRSX + WELFRX + INTX + DIVX + PENSIONX + ROOMX + OTHRNTX + CHDOETHX + ALIOTHX + OTHINX + JFS_AMT + FWAGEX + FBSNSX + FFARMX + FSS_RRX + FSUPPX)<br>*L<br>BLS derived | 139            | NUM(8)  |
| FINC_EFX |   | 147            | CHAR(1) |
| FINCAFTX | Amount of CU income after taxes in past 12 months (FINCBEFX - PERSTAX)  | 130            | NUM(8)  |

|          |  |     |         |
|----------|--|-----|---------|
|          | *L   |     |         |
|          | BLS derived  |     |         |
| FINC_FTX |  | 138 | CHAR(1) |
| EARNX    | Amount of earned income before taxes by CU in past 12 months<br>(FWAGEX + FBSNSX + FFARMX)   | 59  | NUM(8)  |
|          | *L   |     |         |
|          | BLS derived  |     |         |
| EARNX_   |  | 67  | CHAR(1) |
| NONERNX  | Amount of CU income other than earnings before taxes in past<br>12 months (FSS_RRX + FSUPPX + UNEMPX + WRKRSX +<br>WELFRX + INTX + DIVX + PENSIONX + ROOMX +<br>OTHRNTX + CHDOTHX + ALIOTHX + OTHINX + JFS_AMT)      | 474 | NUM(8)  |
|          | *L   |     |         |
|          | BLS derived  |     |         |
| NONERNX_ |  | 482 | CHAR(1) |
| FWAGEX   | Amount of wage and salary income before deductions received<br>by all CU members in past 12 months (Sum WAGEX from<br>MEMB file for all CU members)  | 378 | NUM(8)  |
|          | BLS derived  |     |         |
| FWAGEX_  |  | 386 | CHAR(1) |
| FBSNSX   | Amount of income or loss from nonfarm business, partnership or<br>professional practice received by all CU members in past 12<br>months (Sum BSNSX from MEMB file for all CU members)                                | 83  | NUM(8)  |
|          | *L   |     |         |
|          | BLS derived  |     |         |
| FBSNSX_  |  | 91  | CHAR(1) |
| FFARMX   | Amount of income or loss from own farm received by all CU<br>members in past 12 months (Sum FARMX from MEMB file for<br>all CU members)  | 103 | NUM(8)  |
|          | *L   |     |         |
|          | BLS derived  |     |         |
| FFARMX_  |  | 111 | CHAR(1) |
| FSS_RRX  | Amount of Social Security and Railroad Retirement income prior<br>to deductions for medical insurance and Medicare received<br>by all CU members in past 12 months (Sum SOCRRX from<br>MEMB file for all CU members) | 351 | NUM(8)  |
|          | BLS derived  |     |         |

|          |   |     |         |
|----------|---|-----|---------|
| FSS_RRX_ |   | 359 | CHAR(1) |
| FSUPPX   | Amount of Supplemental Security Income from all sources received by all CU members in past 12 months (Sum SUPPX from MEMB file for all CU members)  | 369 | NUM(8)  |
|          | BLS derived   |     |         |
| FSUPPX_  |   | 377 | CHAR(1) |
| UNEMPX   | During the past 12 months, what was the total amount of income from unemployment compensation received by ALL CU members?   | 644 | NUM(8)  |
|          | S04B 1a   |     |         |
| UNEMPX_  |   | 652 | CHAR(1) |
| WRKRSX   | During the past 12 months, what was the total amount of income from workers' compensation or veterans' benefits, including education benefits, but excluding military retirement, received by ALL CU members? | 678 | NUM(8)  |
|          | S04B 1b   |     |         |
| WRKRSX_  |   | 686 | CHAR(1) |
| WELFRX   | During the past 12 months, what was the total amount of income from public assistance or welfare including money received from job training grants such as Job Corps received by ALL CU members?              | 659 | NUM(8)  |
|          | S04B 1c   |     |         |
| WELFRX_  |   | 667 | CHAR(1) |
| INTX     | During the past 12 months, what was the total amount of income from interest on savings accounts or bonds received by ALL CU members?   | 414 | NUM(8)  |
|          | S04B 1d   |     |         |
| INTX_    |   | 422 | CHAR(1) |
| DIVX     | During the past 12 months, what was the total amount of income from dividends, royalties, estates, or trusts received by ALL CU members?  | 48  | NUM(8)  |
|          | S04B 1e   |     |         |
| DIVX_    |   | 56  | CHAR(1) |
| PENSIONX | During the past 12 months, what was the total amount of income from pensions or annuities from private companies, military, Government, IRA, or Keogh received by ALL CU members?                             | 535 | NUM(8)  |
|          | S04B 1f   |     |         |

|          |   |      |         |
|----------|---|------|---------|
| PENS_ONX |   | 543  | CHAR(1) |
| ROOMX    | During the past 12 months, how much net income or loss was received from roomers or boarders?<br>*L<br>S04B 1g(1)   | 584  | NUM(8)  |
| ROOMX_   |   | 592  | CHAR(1) |
| OTHRNTX  | During the past 12 months, how much net income or loss was received from payments from other rental units?<br>*L<br>S04B 1g(2)  | 526  | NUM(8)  |
| OTHRNTX_ |   | 534  | CHAR(1) |
| OTHINX   | During the past 12 months, what was the total amount of other money income including money received from cash scholarships and fellowships, stipends not based on working, or from the care of foster children received by ALL CU members?<br>S04B 2c | 499  | NUM(8)  |
| OTHINX_  |   | 507  | CHAR(1) |
| CHDOTHX  | During the past 12 months, what was the total amount of income from child support payments in other than a lump sum amount received by ALL CU members?<br>S04B 1h(2)  | 1521 | NUM(8)  |
| CHDOTHX_ |   | 1529 | CHAR(1) |
| ALIOTHX  | During the past 12 months, what was the total amount of income from regular contributions from alimony and other sources such as from persons outside the CU received by ALL CU members?<br>S04B 1i(2)  | 1530 | NUM(8)  |
| ALIOTHX_ |   | 1538 | CHAR(1) |
| JFS_AMT  | Annual value of Food Stamps received by CU<br>JFS_AMT = 12 X sum of (FS_AMT1 ... FS_AMT7)<br>NOTE: JFS_AMT is a component of FINCBEFX, NONERNX, and FINCAFTX<br>BLS derived   | 423  | NUM(8)  |
| JFS_AMT_ |   | 431  | CHAR(1) |

f. **OTHER MONEY RECEIPTS**

| <b>VARIABLE</b> | <b>ITEM DESCRIPTION</b>  | <b>START POSITION</b> | <b>FORMAT</b> |
|-----------------|--|-----------------------|---------------|
| OTHRECX         | Amount of other money receipts excluded from CU income before taxes received by CU in past 12 months (LUMPX + SALEX + SSREFX + INSREFX + PTAXREF+CHDLMPX)<br><br>BLS derived   | 508                   | NUM(8)        |
| OTHRECX_        |  | 516                   | CHAR(1)       |
| LUMPX           | During the past 12 months, what was the total amount received from lump sum payments from estates, trusts, royalties, alimony, prizes, games of chance, or from persons outside of the CU by ALL CU members?<br><br>S04B 2a                | 460                   | NUM(8)        |
| LUMPX_          |  | 468                   | CHAR(1)       |
| CHDLMPX         | During the past 12 months, what was the total amount received from a one time lump sum payment for child support by ALL CU members?<br><br>S04B 1h(1)  | 1539                  | NUM(8)        |
| CHDLMPX_        |  | 1547                  | CHAR(1)       |
| SALEX           | During the past 12 months, what was the total amount received from the sale of household furnishings, equipment, clothing, jewelry, pets or other belongings, excluding the sale of vehicles or property by ALL CU members?<br><br>S04B 2b | 593                   | NUM(8)        |
| SALEX_          |  | 601                   | CHAR(1)       |
| SSREFX          | During the past 12 months, what was the total amount of refund received from overpayment on Social Security by ALL CU members?<br><br>S04B 3c  | 607                   | NUM(8)        |
| SSREFX_         |  | 615                   | CHAR(1)       |
| INSREFX         | During the past 12 months, what was the total amount of refund received from insurance policies by ALL CU members?<br><br>S04B 3d  | 405                   | NUM(8)        |
| INSREFX_        |  | 413                   | CHAR(1)       |
| PTAXREFX        | During the past 12 months, what was the total amount of refund received from property taxes by ALL CU members?<br><br>S04B 3e  | 565                   | NUM(8)        |

PTAX\_EFX 573 CHAR(1)

**g. TAXES**

| VARIABLE | ITEM DESCRIPTION  | START POSITION | FORMAT  |
|----------|---|----------------|---------|
| PERSTAX  | Amount of personal taxes paid by CU in past 12 months<br>(ADDFEDX + ADDSTAX + ADDOTHX + FFEDTXX +<br>FSTATXX + TAXPROPX) - (FEDREFX + STATREFX +<br>OTHREFX)<br>*L<br>BLS derived | 550            | NUM(8)  |
| PERSTAX_ |   | 558            | CHAR(1) |
| TAXPROPX | During the past 12 months, what was the total amount PAID for<br>personal property taxes not reported elsewhere by ALL CU<br>members?<br>S04B 4c                                  | 633            | NUM(8)  |
| TAXP_OPX |   | 641            | CHAR(1) |
| FFEDTXX  | Amount of Federal income tax deducted from last pay<br>annualized for all CU members (sum ANFEDTXX from<br>MEMB file for all CU members)<br>BLS derived                           | 112            | NUM(8)  |
| FFEDTXX_ |   | 120            | CHAR(1) |
| ADDFEDX  | During the past 12 months, what was the total amount PAID for<br>Federal income tax, in addition to that withheld from earnings,<br>by ALL CU members?<br>S04B 4a                 | 9              | NUM(8)  |
| ADDFEDX_ |   | 17             | CHAR(1) |
| FEDREFX  | During the past 12 months, what was the total amount of refund<br>received from Federal income tax by ALL CU members?<br>S04B 3a  | 94             | NUM(8)  |
| FEDREFX_ |   | 102            | CHAR(1) |
| FSTATXX  | Amount of state and local income taxes deducted from last pay<br>annualized for all CU members (sum ANSTATXX from MEMB<br>file for all CU members)<br>BLS derived                 | 360            | NUM(8)  |
| FSTATXX_ |   | 368            | CHAR(1) |

|          |   |     |         |
|----------|---|-----|---------|
| ADDSTAX  | During the past 12 months, what was the total amount PAID for state and local income taxes, in addition to that withheld from earnings, by ALL CU members?<br><br>S04B 4b | 27  | NUM(8)  |
| ADDSTAX_ |   | 35  | CHAR(1) |
| STATREFX | During the past 12 months, what was the total amount of refund received from state and local income tax by ALL CU members?<br><br>S04B 3b                                 | 616 | NUM(8)  |
| STAT_EFX |   | 624 | CHAR(1) |
| ADDOTHX  | During the past 12 months, what was the total amount PAID for other taxes not reported elsewhere by ALL CU members?<br><br>S04B 4d  | 18  | NUM(8)  |
| ADDOTHX_ |   | 26  | CHAR(1) |
| OTHREFX  | During the past 12 months, what was the total amount of refund received from other sources, including any other taxes, by ALL CU members?<br><br>S04B 3f                  | 517 | NUM(8)  |
| OTHREFX_ |   | 525 | CHAR(1) |

**h. RETIREMENT AND PENSION DEDUCTIONS**

| <b>VARIABLE</b> | <b>ITEM DESCRIPTION</b>  | <b>START POSITION</b> | <b>FORMAT</b> |
|-----------------|--|-----------------------|---------------|
| FJSSDEDX        | Estimated amount of income contributed to Social Security by all CU members in past 12 months (Sum JSSDEDX from MEMB file for all CU members)<br><br>BLS derived | 168                   | NUM(8)        |
| FJSS_EDX        |  | 176                   | CHAR(1)       |
| FRRX            | Amount of Railroad Retirement deducted from last pay annualized for all CU members (Sum ANRRX from MEMB file for all CU members)<br><br>BLS derived              | 195                   | NUM(8)        |
| FRRX_           |  | 203                   | CHAR(1)       |
| FGVX            | Amount of government retirement deducted from last pay annualized for all CU members (Sum ANGVX from MEMB file for all CU members)<br><br>BLS derived            | 121                   | NUM(8)        |



|        |  |     |         |
|--------|--|-----|---------|
| FGVX_  |  | 129 | CHAR(1) |
| FPVTX  | Amount of private pension fund deducted from last pay annualized for all CU members (sum ANPVTX from MEMB file for all CU members)                                 | 177 | NUM(8)  |
|        | BLS derived  |     |         |
| FPVTX_ |  | 185 | CHAR(1) |
| FIRAX  | Amount of money placed in an individual retirement plan, such as an IRA or Keogh, by all CU members in past 12 months (sum IRAX from MEMB file for all CU members) | 159 | NUM(8)  |
|        | BLS derived  |     |         |
| FIRAX_ |  | 167 | CHAR(1) |

**i. FOOD STAMPS**

NOTE: JFS\_AMT, the annual value of Food Stamps received by CU, is in SECTION III.E.1.e. INCOME

| <b>VARIABLE</b> | <b>ITEM DESCRIPTION</b>   | <b>START POSITION</b> | <b>FORMAT</b> |
|-----------------|---|-----------------------|---------------|
| REC_FS          | Have any members of your CU received any Food Stamps, during the past 12 months?<br>CODED<br>1 Yes<br>2 No<br><br>S04B 8a | 576                   | CHAR(1)       |
| REC_FS_         |   | 577                   | CHAR(1)       |
| FD_STMPS        | Have any members of your CU received any Food Stamps, in the past month?<br>CODED<br>1 Yes<br>2 No<br><br>S04B 9a         | 92                    | CHAR(1)       |
| FD_S_MPS        |   | 93                    | CHAR(1)       |
| FS_MTHI         | In how many of the past 12 months were Food Stamps received?<br><br>S04B 8b   | 348                   | NUM(2)        |
| FS_MTHI_        |   | 350                   | CHAR(1)       |
| FS_AMT1         | What is the dollar value of Food Stamps received on ( <i>Date in 9b</i> ) - first entry<br><br>S04B 9c                    | 204                   | NUM(8)        |

|          |  |     |         |
|----------|--|-----|---------|
| FS_AMT1_ |  | 212 | CHAR(1) |
| FS_AMT2  | See FS_AMT1 for question and source - second entry   | 213 | NUM(8)  |
| FS_AMT2_ |  | 221 | CHAR(1) |
| FS_AMT3  | See FS_AMT1 for question and source - third entry  | 222 | NUM(8)  |
| FS_AMT3_ |  | 230 | CHAR(1) |
| FS_AMT4  | See FS_AMT1 for question and source - fourth entry   | 231 | NUM(8)  |
| FS_AMT4_ |  | 239 | CHAR(1) |
| FS_AMT5  | See FS_AMT1 for question and source - fifth entry  | 240 | NUM(8)  |
| FS_AMT5_ |  | 248 | CHAR(1) |
| FS_AMT6  | See FS_AMT1 for question and source - sixth entry  | 249 | NUM(8)  |
| FS_AMT6_ |  | 257 | CHAR(1) |
| FS_AMT7  | See FS_AMT1 for question and source - seventh entry  | 258 | NUM(8)  |
| FS_AMT7_ |  | 266 | CHAR(1) |
| FS_DATE1 | When were Food Stamps received? (List all dates - month, day, year on which stamps were received during the month) - first entry | 276 | NUM(8)  |
|          | S04B 9b  |     |         |
| FS_D_TE1 |  | 284 | CHAR(1) |
| FS_DATE2 | See FS_DATE1 for question and source - second entry  | 285 | NUM(8)  |
| FS_D_TE2 |  | 293 | CHAR(1) |
| FS_DATE3 | See FS_DATE1 for question and source - third entry   | 294 | NUM(8)  |
| FS_D_TE3 |  | 302 | CHAR(1) |
| FS_DATE4 | See FS_DATE1 for question and source - fourth entry  | 303 | NUM(8)  |
| FS_D_TE4 |  | 311 | CHAR(1) |
| FS_DATE5 | See FS_DATE1 for question and source - fifth entry   | 312 | NUM(8)  |
| FS_D_TE5 |  | 320 | CHAR(1) |
| FS_DATE6 | See FS_DATE1 for question and source - sixth entry   | 321 | NUM(8)  |
| FS_D_TE6 |  | 329 | CHAR(1) |
| FS_DATE7 | See FS_DATE1 for question and source - seventh entry   | 330 | NUM(8)  |

FS\_D\_TE7 338 CHAR(1)

j. **FREE MEALS AND GROCERIES**

| <b>VARIABLE</b> | <b>ITEM DESCRIPTION</b>   | <b>START POSITION</b> | <b>FORMAT</b> |
|-----------------|---|-----------------------|---------------|
| FREEMLX         | During the past 12 months, about what was the weekly dollar value of any free meals received by any members of your CU as part of their pay?<br><br>S04B 6b | 186                   | NUM(8)        |
| FREEMLX_        |   | 194                   | CHAR(1)       |
| JGROCYMV        | Monthly expenditure for grocery store purchases<br><br>BLS derived  | 446                   | NUM(6)        |
| JGRO_YMV        |   | 452                   | CHAR(1)       |
| JGROCYWK        | Weekly expenditure for grocery store purchases<br><br>BLS derived   | 453                   | NUM(6)        |
| JGRO_YWK        |   | 459                   | CHAR(1)       |
| JGRCFDMV        | Monthly expenditure for food and non-alcoholic beverages purchased at grocery store<br><br>BLS derived  | 432                   | NUM(6)        |
| JGRC_DMV        |   | 438                   | CHAR(1)       |
| JGRCFDWK        | Weekly expenditure for food and non-alcoholic beverages purchased at grocery store<br><br>BLS derived   | 439                   | NUM(6)        |
| JGRC_DWK        |   | 445                   | CHAR(1)       |

k. HOUSING STRUCTURE

| VARIABLE | ITEM DESCRIPTION   | START POSITION | FORMAT  |
|----------|--|----------------|---------|
| DESCRIP  | Housing unit or Group Quarters unit<br>CODED<br>01 House, apartment, flat<br>02 Housing unit in nontransient hotel, motel, etc.<br>03 Housing unit, permanent in transient hotel, motel, etc.<br>04 Housing unit, in rooming house<br>05 Mobile home or trailer with NO permanent room added<br>06 Mobile home or trailer with one or more permanent rooms added<br>07 Housing unit not specified above<br>08 Quarters not housing unit in rooming or boarding house<br>09 Student quarters in college dormitory<br>10 Group quarters unit, not specified above<br><br>Cover 13c and 13d | 45             | CHAR(2) |
| DESCRIP_ |  | 47             | CHAR(1) |
| TYPOWND  | Are these living quarters owned by regular ownership or as a condominium or cooperative?<br>CODED<br>1 Regular ownership<br>2 Condominium<br>3 Cooperative<br><br>S02 1c   | 642            | CHAR(1) |
| TYPOWND_ |  | 643            | CHAR(1) |

I. WEIGHTS

| VARIABLE   | ITEM DESCRIPTION  | START POSITION | FORMAT    |
|--|---|----------------|-----------|
| FINLWT21   | CU replicate weight # 45 (total sample weight)<br><br>BLS derived | 148            | NUM(11,3) |
| <i>The following are the 44 half sample replicate weights, WTREP01 through WTREP44, which are used for variance computation. They are all BLS derived variables.</i> |   |                |           |
| WTREP01  | CU replicate weight # 01  | 687            | NUM(11,3) |
| WTREP02  | CU replicate weight # 02  | 698            | NUM(11,3) |
| WTREP03  | CU replicate weight # 03  | 709            | NUM(11,3) |
| WTREP04  | CU replicate weight # 04  | 720            | NUM(11,3) |
| WTREP05  | CU replicate weight # 05  | 731            | NUM(11,3) |
| WTREP06  | CU replicate weight # 06  | 742            | NUM(11,3) |

|         |                          |      |           |
|---------|--------------------------|------|-----------|
| WTREP07 | CU replicate weight # 07 | 753  | NUM(11,3) |
| WTREP08 | CU replicate weight # 08 | 764  | NUM(11,3) |
| WTREP09 | CU replicate weight # 09 | 775  | NUM(11,3) |
| WTREP10 | CU replicate weight # 10 | 786  | NUM(11,3) |
| WTREP11 | CU replicate weight # 11 | 797  | NUM(11,3) |
| WTREP12 | CU replicate weight # 12 | 808  | NUM(11,3) |
| WTREP13 | CU replicate weight # 13 | 819  | NUM(11,3) |
| WTREP14 | CU replicate weight # 14 | 830  | NUM(11,3) |
| WTREP15 | CU replicate weight # 15 | 841  | NUM(11,3) |
| WTREP16 | CU replicate weight # 16 | 852  | NUM(11,3) |
| WTREP17 | CU replicate weight # 17 | 863  | NUM(11,3) |
| WTREP18 | CU replicate weight # 18 | 874  | NUM(11,3) |
| WTREP19 | CU replicate weight # 19 | 885  | NUM(11,3) |
| WTREP20 | CU replicate weight # 20 | 896  | NUM(11,3) |
| WTREP21 | CU replicate weight # 21 | 907  | NUM(11,3) |
| WTREP22 | CU replicate weight # 22 | 918  | NUM(11,3) |
| WTREP23 | CU replicate weight # 23 | 929  | NUM(11,3) |
| WTREP24 | CU replicate weight # 24 | 940  | NUM(11,3) |
| WTREP25 | CU replicate weight # 25 | 951  | NUM(11,3) |
| WTREP26 | CU replicate weight # 26 | 972  | NUM(11,3) |
| WTREP27 | CU replicate weight # 27 | 973  | NUM(11,3) |
| WTREP28 | CU replicate weight # 28 | 984  | NUM(11,3) |
| WTREP29 | CU replicate weight # 29 | 995  | NUM(11,3) |
| WTREP30 | CU replicate weight # 30 | 1006 | NUM(11,3) |
| WTREP31 | CU replicate weight # 31 | 1017 | NUM(11,3) |
| WTREP32 | CU replicate weight # 32 | 1028 | NUM(11,3) |
| WTREP33 | CU replicate weight # 33 | 1039 | NUM(11,3) |
| WTREP34 | CU replicate weight # 34 | 1050 | NUM(11,3) |
| WTREP35 | CU replicate weight # 35 | 1061 | NUM(11,3) |

|         |                          |      |           |
|---------|--------------------------|------|-----------|
| WTREP36 | CU replicate weight # 36 | 1072 | NUM(11,3) |
| WTREP37 | CU replicate weight # 37 | 1083 | NUM(11,3) |
| WTREP38 | CU replicate weight # 38 | 1094 | NUM(11,3) |
| WTREP39 | CU replicate weight # 39 | 1105 | NUM(11,3) |
| WTREP40 | CU replicate weight # 40 | 1116 | NUM(11,3) |
| WTREP41 | CU replicate weight # 41 | 1127 | NUM(11,3) |
| WTREP42 | CU replicate weight # 42 | 1138 | NUM(11,3) |
| WTREP43 | CU replicate weight # 43 | 1149 | NUM(11,3) |
| WTREP44 | CU replicate weight # 44 | 1160 | NUM(11,3) |

**m. SUMMARY EXPENDITURE DATA**

The variables FOODTOT through HOUSKEEP contain summary expenditure data. They are all BLS derived. The UCCs comprising each summary expenditure variable are listed below the variable description. Underlined UCCs may not be represented in all Diary quarters. The quarter in which the addition (deletion) to the summary expenditure variable occurs is denoted by a leading superscript directly prior to the UCC code. For example, <sup>N031</sup><UCC> or <sup>D031</sup><UCC> identifies a new or deleted UCC for a given summary expenditure variable beginning in Q031.

| <b>VARIABLE</b> | <b>ITEM DESCRIPTION</b>   | <b>START POSITION</b> | <b>FORMAT</b> |
|-----------------|---|-----------------------|---------------|
| FOODTOT         | Food, total<br>FOODHOME + FOODAWAY  | 1171                  | NUM(12,5)     |
| FOODHOME        | Food at home, total<br>CEREAL + BAKERY + BEEF + PORK + OTHMEAT +<br>POULTRY + FISHSEA + EGGS + MILKCRM + OTHDAIRY +<br>FRSHFRUT + FRSHVEG + PROCVEG + SWEETS +<br>NOALCBEV + FATOILS + MISCFOOD | 1183                  | NUM(12,5)     |
| CEREAL          | Cereal and cereal products<br>010110 010120 010210 010310 010320  | 1195                  | NUM(12,5)     |
| BAKERY          | Bakery products<br>020110 020210 020310 020410 020510 020610 020620<br>020710 020810 020820   | 1207                  | NUM(12,5)     |
| BEEF            | Beef<br>030110 030210 030310 030410 030510 030610 030710<br>030810  | 1219                  | NUM(12,5)     |
| PORK            | Pork<br>040110 040210 040310 040410 040510 040610   | 1231                  | NUM(12,5)     |
| OTHMEAT         | Other meats<br>050110 050210 050310 050410 050900   | 1243                  | NUM(12,5)     |

|          |  |      |           |
|----------|--|------|-----------|
| POULTRY  | Poultry<br>060110 060210 060310  | 1255 | NUM(12,5) |
| FISHSEA  | Fish and seafood<br>070110 070230 070240   | 1267 | NUM(12,5) |
| EGGS     | Eggs<br>080110   | 1279 | NUM(12,5) |
| MILKCRM  | Fresh milk and cream<br>090110 090210  | 1291 | NUM(12,5) |
| OTHDAIRY | Other dairy products<br>100110 100210 100410 100510  | 1303 | NUM(12,5) |
| FRSHFRUT | Fresh fruits<br>110110 110210 110310 110410 110510   | 1315 | NUM(12,5) |
| FRSHVEG  | Fresh vegetables<br>120110 120210 120310 120410  | 1327 | NUM(12,5) |
| PROCFRUT | Processed fruits<br>130110 130121 130122 130211 130212 130310 130320   | 1339 | NUM(12,5) |
| PROCVEG  | Processed vegetables<br>140110 140210 140220 140230 140310 140320 140330<br>140340 140410 140420   | 1351 | NUM(12,5) |
| SWEETS   | Sugar and other sweets<br>150110 150211 150212 150310  | 1363 | NUM(12,5) |
| NONALBEV | Nonalcoholic beverages<br>170110 170210 170310 170410 170510 170520 170530<br>200112   | 1375 | NUM(12,5) |
| FATSOILS | Fats and oils<br>160110 160211 160212 160310 160320  | 1387 | NUM(12,5) |
| MISCFOOD | Miscellaneous foods<br>180110 180210 180220 180310 180320 180410 180420<br>180510 180520 180611 180612 180620 180710 180720                  | 1399 | NUM(12,5) |
| FOODAWAY | Food away from home<br>190111 190112 190113 190114 190211 190212 190213<br>190214 190311 190312 190313 190314 190321 190322<br>190323 190324 | 1411 | NUM(12,5) |
| ALCBEV   | Alcoholic beverages<br>200111 200210 200310 200410 200511 200512 200513<br>200516 200521 200522 200523 200526 200531 200532<br>200533 200536 | 1423 | NUM(12,5) |
| TOBACCO  | Tobacco products and smoking supplies<br>630220 630900   | 1435 | NUM(12,5) |
| PET_FOOD | Pet food<br>610310   | 1447 | NUM(12,5) |

|          |  |      |           |
|----------|--|------|-----------|
| PERSPROD | Personal care products<br>640110 640120 640210 640220 640310 640410 640420                       | 1459 | NUM(12,5) |
| PERSSERV | Personal care services<br>650110 650210 650900   | 1471 | NUM(12,5) |
| DRUGS    | Non-prescription drugs and supplies<br>550210 550410   | 1483 | NUM(12,5) |
| HKPGSUPP | Housekeeping supplies and services<br>330110 330210 330310 330410 330510 330610 340110<br>340120 | 1495 | NUM(12,5) |

## **2. MEMBER CHARACTERISTICS AND INCOME FILE (MEMB)**

The "MEMB" file, also referred to as the "Member Characteristics and Income" file, contains selected characteristics for each CU member, including identification of relationship to reference person. Characteristics for the reference person and spouse appear on both the MEMB file and FMLY file.

Demographic characteristic data, such as age of CU member, refer to the member status at the placement of each diary. Income data are collected for all CU members over 13 years of age. Income taxes withheld and pension and retirement contributions are shown both annually and as deductions from the member's last paycheck. Income variables contain annual values for the 12 months prior to the interview month. When there is a valid nonresponse, or where nonresponse occurs and there is no imputation, there will be missing values. The type of nonresponse is explained by associated data flag variables described in Section III.C. DATA FLAGS.

### **a. CU AND MEMBER IDENTIFIERS**

| <b>VARIABLE</b> | <b>ITEM DESCRIPTION</b>  | <b>START POSITION</b> | <b>FORMAT</b> |
|-----------------|--|-----------------------|---------------|
| NEWID           | CU identification number. Digits 1-7 (CU sequence number, 1 through 9999999) uniquely identify the CU. Digit 8 is the week number, 1 or 2<br><br>BLS derived | 1                     | NUM(8)        |
| MEMBNO          | Member number<br><br>S01 1   | 135                   | NUM(2)        |



b. CHARACTERISTICS OF MEMBER

| VARIABLE | ITEM DESCRIPTION   | START POSITION | FORMAT  |
|----------|--|----------------|---------|
| CU_CODE1 | What is the member's relationship to ( <i>reference person</i> )?<br>CODED<br>1 Reference person<br>2 Spouse<br>3 Child or adopted child<br>4 Grandchild<br>5 In-law<br>6 Brother or sister<br>7 Mother or father<br>8 Other related persons<br>9 Unrelated persons<br>0 Blank or illegible entry<br><br>S01 4   | 70             | CHAR(1) |
| AGE      | What is the member's date of birth? (Age is verified.)<br><br>S01 9  | 9              | NUM(2)  |
| AGE_     |  | 11             | CHAR(1) |
| SEX      | Is the member male or female?<br>CODED<br>1 Male<br>2 Female<br><br>S01 6  | 174            | CHAR(1) |
| MARITAL  | Is the member now . . . ? (Marital status)<br>CODED<br>1 Married<br>2 Widowed<br>3 Divorced<br>4 Separated<br>5 Never married<br><br>S01 12  | 133            | CHAR(1) |
| EDUCA    | What is the highest level of school the member has completed or the highest degree the member has received?<br><br>CODED<br>00 Never attended school<br>01-11 First grade through eleventh grade<br>38 Twelfth grade - no degree<br>39 High school graduate<br>40 Some college - no degree<br>41 Associate's degree (occupational/vocational)<br>42 Associate's degree (academic)<br>43 Bachelor's degree<br>44 Master's degree<br>45 Professional degree<br>46 Doctorate degree | 72             | CHAR(2) |

|          | S01 13a   |     |         |
|----------|---|-----|---------|
| HORIGIN  | Are you Hispanic, Latino, or Spanish?<br>Coded:<br>1 Yes<br>2 No<br><b>*N(031)</b>  | 250 | CHAR(1) |
| HISPANIC | Country of Hispanic Origin<br>Coded:<br>1 Mexican<br>2 Mexican-American<br>3 Chicano<br>4 Puerto Rican<br>5 Cuban<br>6 Cuban-American<br>7 Central or South American<br>8 Other Hispanic group not listed<br>Blank for non-hispanic<br><b>*N(031)</b> | 251 | CHAR(1) |
| HISP_NIC | <b>*N(031)</b>  | 252 | CHAR(1) |
| MEMBRACE | Race of Member<br>Coded:<br>1 White<br>2 Black<br>3 Native American<br>4 Asian<br>5 Pacific Islander<br>6 Multi-race<br><b>*N(031)</b>  | 253 | CHAR(1) |
| RC_WHITE | Race<br>Coded:<br>1 White<br><b>*N(031)</b>   | 254 | CHAR(1) |
| RC_W_ITE | <b>*N(031)</b>  | 255 | CHAR(1) |
| RC_BLACK | Race<br>Coded:<br>2 Black<br><b>*N(031)</b>   | 256 | CHAR(1) |
| RC_B_ACK | <b>*N(031)</b>  | 257 | CHAR(1) |
| RC_NATAM | Race:<br>Coded:<br>3 Native American<br><b>*N(031)</b>  | 258 | CHAR(1) |
| RC_N_TAM | <b>*N(031)</b>  | 259 | CHAR(1) |

|          |   |     |         |
|----------|---|-----|---------|
| RC_ASIAN | Race<br>Coded:<br>4 Asian<br><b>*N(031)</b>   | 260 | CHAR(1) |
| RC_A_IAN | <b>*N(031)</b>  | 261 | CHAR(1) |
| RC_PACIL | Race<br>Coded:<br>5 Pacific Islander<br><b>*N(031)</b>  | 262 | CHAR(1) |
| RC_P_CIL | <b>*N(031)</b>  | 263 | CHAR(1) |
| RC_OTHER | Race<br>Coded:<br>6 Other<br><b>*N(031)</b>   | 264 | CHAR(1) |
| RC_O_HER | <b>*N(031)</b>  | 265 | CHAR(1) |
| RC_DK    | Race<br>Coded:<br>7 Don't Know<br><b>*N(031)</b>  | 266 | CHAR(1) |
| RC_DK_   | <b>*N(031)</b>  | 267 | CHAR(1) |
| IN_COLL  | Is the member currently enrolled in a college or university<br>either . . .?<br><br>CODED<br>1 Full time<br>2 Part time<br>3 Not at all<br><br>S01 13b    | 244 | CHAR(1) |
| IN_COLL_ |   | 245 | CHAR(1) |
| ARM_FORC | Is member now in the Armed Forces?<br>CODED<br>1 Yes<br>2 No<br><br>S01 14  | 242 | CHAR(1) |
| ARM__ORC |   | 243 | CHAR(1) |
| SCHLNCHQ | During the previous 30 days, how many weeks did the member<br>purchase meals at school or in a preschool program for<br>preschool or school age children? | 162 | NUM(2)  |

|          |  |     |         |
|----------|--|-----|---------|
|          | S02 5b(d)  |     |         |
| SCHL_CHQ |  | 164 | CHAR(1) |
| SCHLNCHX | What is the usual weekly expense for the meals the member purchased at school? | 165 | NUM(8)  |
|          | S02 5b(c)  |     |         |
| SCHL_CHX |  | 173 | CHAR(1) |

**c. WORK EXPERIENCE OF MEMBERS**

| VARIABLE | ITEM DESCRIPTION   | START POSITION | FORMAT  |
|----------|--|----------------|---------|
| WKS_WRKD | In the last 12 months, how many weeks did the member work either full or part time not counting work around the house? Include paid vacation and paid sick leave.<br><br>S04A 2  | 225            | NUM(2)  |
| WKS__RKD |  | 227            | CHAR(1) |
| HRSPERWK | In the weeks that the member worked, how many hours did the member usually work per week?<br><br>S04A 3  | 113            | NUM(3)  |
| HRSP_RWK |  | 116            | CHAR(1) |
| OCCULIST | The job in which member received the most earnings during the past 12 months fits best in the following category<br>CODED<br>Manager, professional<br>01 Administrator, manager<br>02 Teacher<br>03 Professional<br>Administrative support, technical, sales<br>04 Administrative support, including clerical<br>05 Sales, retail<br>06 Sales, business goods and services<br>07 Technician<br>Service<br>08 Protective service<br>09 Private household service<br>10 Other service<br>Operator, assembler, laborer<br>11 Machine operator, assembler, inspector<br>12 Transportation operator<br>13 Handler, helper, laborer<br>Precision production, craft, repair<br>14 Mechanic, repairer, precision production<br>15 Construction, mining<br>Farming, forestry, fishing<br>16 Farming | 137            | CHAR(2) |

- 17 Forestry, fishing, groundskeeping
- Armed forces
- 18 Armed forces

S04A 4a

|          |   |     |         |
|----------|---|-----|---------|
| OCCU_IST |   | 139 | CHAR(1) |
| EMPLTYPE | Was the member . . . ? (Type of employee)<br>Refers to job where member received the most earnings in the past 12 months. | 75  | CHAR(1) |

CODED

- 1 An employee of a PRIVATE company, business, or individual working for wages or salary
- 2 A Federal government employee
- 3 A State government employee
- 4 A local government employee
- 5 Self-employed in OWN business, professional practice or farm
- 6 Working WITHOUT PAY in family business or farm,

S04A 4b

|          |  |     |         |
|----------|--|-----|---------|
| EMPL_YPE |  | 76  | CHAR(1) |
| WHYNOWRK | What was the main reason the member did not work during the past 12 months? Was the member . . . ? | 223 | CHAR(1) |

CODED

- 1 Retired
- 2 Taking care of home/family
- 3 Going to school
- 4 Ill, disabled, unable to work
- 5 Unable to find work
- 6 Doing something else

S04A 5

|          |  |     |         |
|----------|--|-----|---------|
| WHYN_WRK |  | 224 | CHAR(1) |
|----------|--|-----|---------|

**d. INCOME**

| <b>VARIABLE</b> | <b>ITEM DESCRIPTION</b>  | <b>START POSITION</b> | <b>FORMAT</b> |
|-----------------|--|-----------------------|---------------|
| WAGEX           | During the past 12 months, what was the amount of wages or salary income received before any deductions? | 214                   | NUM(8)        |
|                 | S04A 6a  |                       |               |
| WAGEX_          |  | 222                   | CHAR(1)       |
| GROSPAYX        | What was the gross amount of the member's last pay?  | 95                    | NUM(8)        |

|          |   |     |         |
|----------|---|-----|---------|
|          | S04A 9  |     |         |
| GROS_AYX |   | 103 | CHAR(1) |
| PAYPERD  | Time period covered for last pay<br>1 week<br>2 2 weeks<br>3 month<br>4 quarter<br>5 year<br>6 other<br>7 twice a month                                       | 248 | CHAR(1) |
|          | S04A 10a  |     |         |
| PAYPERD_ |   | 249 | CHAR(1) |
| BSNSX    | During the past 12 months, what was the amount of income or loss from the member's own nonfarm business, partnership or professional practice after expenses? | 61  | NUM(8)  |
|          | *L  |     |         |
|          | S04A 6b   |     |         |
| BSNSX_   |   | 69  | CHAR(1) |
| FARMX    | During the past 12 months, what was the amount of income or loss from the member's own farm after expenses?   | 77  | NUM(8)  |
|          | *L  |     |         |
|          | S04A 6c   |     |         |
| FARMX_   |   | 85  | CHAR(1) |
| ANYSSINC | During the past 12 months, did the member receive from the U.S. Government any money from Social Security checks?<br>CODED<br>1 Yes<br>2 No                   | 59  | CHAR(1) |
|          | S04A 7a   |     |         |
| ANYS_INC |   | 60  | CHAR(1) |
| ANYRAIL  | During the past 12 months, did the member receive from the U.S. Government any money from Railroad Retirement checks?<br>CODED<br>1 Yes<br>2 No               | 57  | CHAR(1) |
|          | S04A 7b   |     |         |
| ANYRAIL_ |   | 58  | CHAR(1) |

|          |  |     |         |
|----------|--|-----|---------|
| SOCRRX   | Annual amount of Social Security and Railroad Retirement income received by member in past 12 months<br><br>BLS derived  | 233 | NUM(8)  |
| SOCRRX_  |  | 241 | CHAR(1) |
| SS_RRX   | What was the amount of the last Social Security or Railroad Retirement payment received? (In past 12 months)<br><br>S04A 7d  | 183 | NUM(8)  |
| SS_RRX_  |  | 191 | CHAR(1) |
| MEDICARE | Is the amount of the last Social Security or Railroad Retirement payment received AFTER the deduction for a Medicare premium?<br>CODED<br>1 Yes<br>2 No<br><br>S04A 7e | 246 | CHAR(1) |
| MED_CARE |  | 247 | CHAR(1) |
| SS_RRQ   | During the past 12 months, how many Social Security or Railroad Retirement payments did the member receive?<br><br>S04A 7f   | 228 | NUM(4)  |
| SS_RRQ_  |  | 232 | CHAR(1) |
| US_SUPP  | During the past 12 months, did the member receive any Supplemental Security Income checks from the U.S. Government?<br>CODED<br>1 Yes<br>2 No<br><br>S04A 8a           | 212 | CHAR(1) |
| US_SUPP_ |  | 213 | CHAR(1) |
| STA_SUPP | During the past 12 months, did the member receive any Supplemental Security Income checks from the State or local government?<br>CODED<br>1 Yes<br>2 No<br><br>S04A 8b | 192 | CHAR(1) |
| STA__UPP |  | 193 | CHAR(1) |
| SUPPX    | During the past 12 months, how much did the member receive in Supplemental Security Income checks altogether? (From U.S. Government and State or local Government)     | 203 | NUM(8)  |

S04A 8b

SUPPX\_ 211 CHAR(1)

**e. TAXES**

| <b>VARIABLE</b> | <b>ITEM DESCRIPTION</b>   | <b>START POSITION</b> | <b>FORMAT</b> |
|-----------------|---|-----------------------|---------------|
| ANFEDTXX        | Annualized amount of Federal income tax deducted from last pay ((FEDTXX/GROSPAYX) x WAGEX)<br>BLS derived           | 12                    | NUM(8)        |
| ANFE_TXX        |   | 20                    | CHAR(1)       |
| FEDTXX          | How much was deducted from the member's last pay for Federal income tax?<br>S04A 10a                                | 86                    | NUM(8)        |
| FEDTXX_         |   | 94                    | CHAR(1)       |
| ANSTATXX        | Annualized amount of state and local income taxes deducted from last pay ((STATXX/GROSPAYX) x WAGEX)<br>BLS derived | 48                    | NUM(8)        |
| ANST_TXX        |   | 56                    | CHAR(1)       |
| STATXX          | How much was deducted from the member's last pay for state and local income tax?<br>S04A 10b                        | 194                   | NUM(8)        |
| STATXX_         |   | 202                   | CHAR(1)       |

**f. RETIREMENT AND PENSION DEDUCTIONS**

| <b>VARIABLE</b> | <b>ITEM DESCRIPTION</b>  | <b>START POSITION</b> | <b>FORMAT</b> |
|-----------------|--|-----------------------|---------------|
| JSSDEDX         | Estimated amount of income contributed to Social Security by member in past 12 months<br>BLS derived | 126                   | NUM(6)        |
| JSSDEDX_        |  | 132                   | CHAR(1)       |
| SLFEMPSS        | Amount of income contributed to Social Security by member if self-employed<br>BLS derived            | 176                   | NUM(6)        |



|          |  |     |         |
|----------|--|-----|---------|
| SLFE_PSS |  | 182 | CHAR(1) |
| ANRRX    | Annualized amount of Railroad Retirement deducted from last pay ((RRX/GROSPAYX) x WAGEX)<br><br>BLS derived  | 39  | NUM(8)  |
| ANRRX_   |  | 47  | CHAR(1) |
| RRX      | How much was deducted from the member's last pay for Railroad Retirement?<br><br>S04A 10d  | 153 | NUM(8)  |
| RRX_     |  | 161 | CHAR(1) |
| ANGVX    | Annualized amount of Government Retirement deducted from last pay ((GVX/GROSPAYX) x WAGEX)<br><br>BLS derived  | 21  | NUM(8)  |
| ANGVX_   |  | 29  | CHAR(1) |
| GVX      | How much was deducted from the member's last pay for Government Retirement?<br><br>S04A 10e  | 104 | NUM(8)  |
| GVX_     |  | 112 | CHAR(1) |
| ANPVTX   | Annualized amount of private pensions deducted from last pay ((PVTX/GROSPAYX) x WAGEX)<br><br>BLS derived  | 30  | NUM(8)  |
| ANPVTX_  |  | 38  | CHAR(1) |
| PVTX     | How much was deducted from the member's last pay for private pension fund?<br><br>S04A 10f   | 142 | NUM(8)  |
| PVTX_    |  | 150 | CHAR(1) |
| IRAX     | During the past 12 months, how much money did the member place in a retirement plan such as Individual Retirement Account (IRA & Keogh)? (Exclude rollovers)<br><br>S04A 13b | 117 | NUM(8)  |
| IRAX_    |  | 125 | CHAR(1) |

### 3. DETAILED EXPENDITURES (EXPN) FILE

In the "EXPN" file, each expenditure recorded by a CU in a weekly diary is identified by UCC, gift/nongift status, and day on which the expenditure occurred. UCC's are six digit codes that identify items or groups of items. (See Appendix 2.A for a listing of UCC's.) There may be more than one record for a UCC on a single day if that is what was reported in the diary. There are no missing values in this file. If no expenditure was recorded for the item(s) represented by a UCC, then there is no record for the UCC on file.

| VARIABLE | ITEM DESCRIPTION  | START POSITION | FORMAT    |
|----------|---|----------------|-----------|
| NEWID    | CU identification number. Digits 1-7 (CU sequence number, 1 through 9999999) uniquely identify the CU. Digit 8 is the week number, 1 or 2<br><br>BLS derived  | 1              | NUM(8)    |
| ALLOC    | Adjustment status for cost variable<br>CODED<br>0 Not allocated or topcoded<br>1 Allocated, not topcoded<br>2 Topcoded and allocated<br>3 Topcoded, not allocated<br><br>BLS derived  | 9              | CHAR(1)   |
| COST     | Total cost of item, including sales tax<br><br>BLS derived  | 10             | NUM(12,5) |
| GIFT     | Was item bought for someone outside the CU?<br>CODED<br>1 Yes<br>2 No<br><br>BLS derived  | 22             | CHAR(1)   |
| PUB_FLAG | Is cost included in published reports?<br>CODED<br>1 Not published<br>2 Published in Integrated reports<br><br>BLS derived  | 23             | CHAR(1)   |
| QREDATE  | Purchase date recode field Consists of:<br>Sequential day of the Diary week (1-7)<br>Day of the week, Sunday through Saturday (1-7)<br>Reference month of this expenditure, (01-12)<br>Reference day of this expenditure, (01-31)<br>Reference year of this expenditure, (0000-9999)<br><br>BLS derived | 24             | CHAR(10)  |
| QREDATE_ |   | 34             | CHAR(1)   |
| UCC      | Universal Classification Code<br>See Section XIII.A. Appendix A for a listing of EXPN UCC   | 35             | CHAR(6)   |

codes and titles

BLS derived

#### 4. **INCOME (DTAB) FILE**

The "DTAB" file, also referred to as the "Income" file, contains CU characteristic and income data. This file is created directly from the FMLY file and contains the same annual and point-of-placement data. It was created to facilitate computer processing when linking CU income and demographic characteristic data with EXPN expenditure data. As such, the file structure is similar to EXPN. Each characteristic and income item is identified by UCC (See Section XIII.B for a listing of UCCs). There are no records with missing values in DTAB. If the corresponding FMLY file variable contained a missing value, there is no record for the UCC.

| <b>VARIABLE</b> | <b>ITEM DESCRIPTION</b>  | <b>START<br/>POSITION</b> | <b>FORMAT</b> |
|-----------------|--|---------------------------|---------------|
| NEWID           | CU identification number. Digits 1-7 (CU sequence number, 1 through 9999999) uniquely identify the CU. Digit 8 is the week number, 1 or 2<br><br>BLS derived | 1                         | NUM(8)        |
| UCC             | Universal Classification Code<br>See Section XIII for a listing of DTAB UCC codes and titles<br><br>BLS derived  | 9                         | CHAR(6)       |
| AMOUNT          | Amount of UCC<br><br>BLS derived   | 15                        | NUM(12)       |
| AMOUNT_         | CODED<br>T – Topcoded<br>Blank -- Not topcoded<br><br>BLS derived  | 27                        | CHAR(1)       |
| PUB_FLAG        | Is amount included in published reports?<br>CODED<br>1 Not published<br>2 Published in Integrated reports<br><br>BLS derived                                 | 28                        | CHAR(1)       |

## 5. PROCESSING FILES

### a. Dstub file

X:\Programs\Dstub.txt

The Dstub file shows the aggregation scheme used in the published consumer expenditure tables. It is formatted as follows:

| <u>DESCRIPTION</u>   | <u>START POSITION</u> | <u>FORMAT</u> |
|--|-----------------------|---------------|
| Type: represents whether information in this line contains aggregation data or not | 1                     | CHAR(1)       |
| Level: aggregation level (lowest number is highest level of aggregation)           | 4                     | CHAR(1)       |
| Title: title of the line item  | 7                     | CHAR(60)      |
| UCC: UCC number in the MTAB or ITAB file   | 70                    | CHAR(6)       |
| Survey: Indicates survey source (I = interview, G = Aggregated item)               | 80                    | CHAR(1)       |
| Group: Indicates if the item is and expenditure, income, or asset                  | 86                    | CHAR(7)       |

Note: this file is an internal bls file used for processing expenditures. It has other information that may be ignored by users of the public use data.

### b. UCC file

X:\DIARY02\UCCD03.TXT

The UCC file contains UCCs and their abbreviated titles, identifying the expenditure, income, or demographic item represented by each UCC. It is formatted as follows:

| <u>DESCRIPTION</u>  | <u>START POSITION</u> | <u>FORMAT</u> |
|---|-----------------------|---------------|
| UCC   | 1                     | CHAR(6)       |
| UCC title<br>See Section XIII.A. EXPENDITURE UCCS ON EXPN FILE and XIII.B.<br>INCOME AND RELATED UCCS ON DTAB FILE for a list of UCCs and their<br>full title by file – expenditure (EXPN) or income (DTAB) | 8                     | CHAR(50)      |

### c. Sample program files

Interview program - Intrvw Mean and SE.sas  
Diary program - Diary Mean and SE.sas  
Integrated program - Integrated Mean and SE.sas  
Interview Summary Variable program - Intrvw Sumvars.sas

The sample program file (X:\PROGRAMS\Diary Mean and SE.sas) contains the computer program used in Section VII.A. SAMPLE PROGRAM of the documentation. This file has been created to provide programming assistance.

## IV. TOPCODING AND OTHER NONDISCLOSURE REQUIREMENTS

Sensitive CU data are changed so that users will not be able to identify CUs who participated in the survey. Topcoding refers to the replacement of data in cases where the value of the original data exceeds prescribed critical values. Critical values for each variable containing sensitive data are calculated in accordance with Census Disclosure Review Board guidelines. Each observation that falls outside the critical value is replaced with a topcoded value that represents the mean of the subset of all outlying observations. All four quarters of data in the CE microdata release are used when calculating the critical value and topcode amount. If an observation is topcoded, the flag variable assigned to that observation is set to 'T'.

Since the critical value and the mean of the set of values outside the critical value may differ with each annual (four-quarter) release, the topcode values may change annually and be applied at a different starting point. By topcoding values in this manner, the first moment will be preserved for each four-quarter data release when using the total sample. This, however, will not be the case when means are estimated by characteristic, because topcode values are not calculated by characteristic.

### A. CU CHARACTERISTICS AND INCOME FILE (FMLY)

The following FMLY file variables are subject to topcoding.

|          |  |
|----------|--|
| AGE_REF  | Age of reference person  |
| AGE2     | Age of spouse  |
| ADDFEDX  | Amount of Federal income tax paid in addition to that withheld   |
| ADDOTHX  | Amount of other taxes paid but not reported elsewhere  |
| ADDSTAX  | Amount of state and local income tax paid in addition to that withheld   |
| ALIOTHX  | Amount received from regular contributions by all CU members   |
| CHDLMPX  | Amount received by all CU members for a lump sum child support payment in last 12 months   |
| CHDOTHX  | Amount received by all CU members in last 12 months for other child support  |
| DIVX     | Amount received from dividends, royalties, estates, or trusts  |
| FEDREFX  | Amount of refund from Federal income tax   |
| INSREFX  | Amount of refund from insurance policies   |
| INTX     | Amount received from interest on savings accounts, or bonds  |
| LUMPX    | Amount from lump sum payments from estates, trusts, royalties, alimony, child support, prizes, games of chance, or persons outside CU              |
| OCCEXPX  | Amount paid by CU for occupational expenses, last 12 months  |
| OTHINX   | Amount from other money income, including money from care of foster children, cash scholarships and fellowships, or stipends, not based on working |
| OTHREFX  | Amount of refund from other sources, including any other taxes   |
| OTHRNTX  | Amount of net income or loss received from other rental units  |
| PENSIONX | Amount received from pensions or annuities from private companies, military or government, IRA or Keogh  |
| PTAXREFX | Amount of refund from property taxes   |
| ROOMX    | Amount of net income or loss received from roomers or boarders   |
| SALEX    | Amount received from sale of household furnishings, equipment, clothing, jewelry, pets or other belongings, excluding sale of vehicles or property |
| SSREFX   | Amount of refund from overpayment on Social Security   |
| STATREFX | Amount of refund from state or local income tax  |
| TAXPROPX | Amount of personal property taxes paid but not reported elsewhere  |

The critical values and topcode values associated with the above variables follow.

| <b>Variable</b> | <b>2003 Upper<br/>critical value</b> | <b>2003 Lower<br/>critical value</b> | <b>2003 Upper<br/>topcode value</b> | <b>2003 Lower<br/>topcode value</b> |
|-----------------|--------------------------------------|--------------------------------------|-------------------------------------|-------------------------------------|
| ALIOTHX         | 40000                                | -                                    | 59090                               | -                                   |
| CHDLMPX         | 11000                                | -                                    | 16250                               | -                                   |
| CHDOTHX         | 15000                                | -                                    | 26096                               | -                                   |
| DIVX            | 40000                                | -                                    | 86240                               | -                                   |
| FEDREFX         | 6200                                 | -                                    | 10473                               | -                                   |
| INSREFX         | 6000                                 | -                                    | 16335                               | -                                   |
| INTX            | 35000                                | -                                    | 60700                               | -                                   |
| LUMPX           | 120000                               | -                                    | 241666                              | -                                   |
| OCCEXPX         | 6000                                 | -                                    | 14562                               | -                                   |
| OTHINX          | 25000                                | -                                    | 29320                               | -                                   |
| OTHEREFX        | 2800                                 | -                                    | 3616                                | -                                   |
| OTHRNTX         | 50000                                | -8000                                | 100600                              | -18000                              |
| PENSIONX        | 54600                                | -                                    | 78842                               | -                                   |
| PTAXREFX        | 1600                                 | -                                    | 2132                                | -                                   |
| ROOMX           | 36000                                | -10000                               | 110000                              | -43333                              |
| SALEX           | 6000                                 | -                                    | 22691                               | -                                   |
| SSREFX          | 2223                                 | -                                    | -                                   | -                                   |
| STATREFX        | 1965                                 | -                                    | 2770                                | -                                   |
| TAXPROPX        | 6000                                 | -                                    | 8234                                | -                                   |
| ADDFEDX         | 25000                                | -                                    | 60397                               | -                                   |
| ADDOTHX         | 6572                                 | -                                    | 12700                               | -                                   |
| ADDSTAX         | 5500                                 | -                                    | 14257                               | -                                   |
| AGE_REF         | 80                                   | -                                    | 85                                  | -                                   |
| AGE2            | 80                                   | -                                    | 84                                  | -                                   |

Some income variables that are subject to topcoding are constructed by summing up the values of "lower level" MEMB or FMLY file component variables. These variables are not topcoded by the conventional method of replacement with a topcode value. Instead the variables' components are summed normally and the variables are flagged as topcoded if one of their component variables is topcoded.

Following are the income variables that are calculated using values of their component variables. (See the descriptions of each variable in Sections III.E.1.e. INCOME - III.E.1.h. RETIREMENT AND PENSION DEDUCTIONS for a list of component variables.)

|          |  |
|----------|--|
| EARNX    | Amount of CU income from earnings before taxes   |
| FBSNSX   | Amount of income from non-farm business  |
| FFARMX   | Amount of income or loss received from own farm  |
| FFEDTXX  | Amount of Federal tax deducted from last pay, annualized for all CU members                  |
| FGVX     | Amount of government retirement deducted from last pay, annualized for all CU members        |
| FINCAFTX | Amount of CU income after taxes  |
| FINCBEFX | Amount of CU income before taxes   |
| FIRAX    | Amount of money placed in individual retirement plan   |
| FJSSDEDX | Estimated amount of annual Social Security contribution                                      |
| FPVTX    | Amount of private pension fund deducted from last pay, annualized for all CU members         |
| FRRX     | Amount of Railroad Retirement deducted from last pay, annualized for all CU members          |
| FSTATXX  | Amount of State and local income taxes deducted from last pay, annualized for all CU members |
| FWAGEX   | Amount received from wage and salary income before deduction                                 |
| NONERNX  | Amount of income from sources other than earnings before taxes                               |
| OTHERECX | Amount of other money receipts excluded from family income                                   |
| PERSTAX  | Amount of personal taxes paid  |

Here are some examples of situations that may occur. The value for the variable FBSNSX (family income from nonfarm business) is computed as the sum of the values reported for the variable BSNSX (member income from nonfarm business) from the MEMB file. BSNSX is subject to topcoding beyond the critical value of \$150,000 (-\$9,999). The topcode value for BSNSX is \$234,370 (-\$24,133).

| <u>CU</u> |       | <b>BSNSX</b>    |                        | <b>FBSNSX</b> |                              |
|-----------|-------|-----------------|------------------------|---------------|------------------------------|
|           |       | <u>REPORTED</u> | <u>AFTER TOPCODING</u> | <u>VALUE</u>  | <u>FLAGGED AS TOPCODED ?</u> |
| CU 1:     | MEMB1 | \$145,000       | \$145,000              | 310,000       | No                           |
|           | MEMB2 | 145,000         | 145,000                |               |                              |
|           | MEMB3 | 20,000          | 20,000                 |               |                              |
| CU 2:     | MEMB1 | 354,000         | 234,370                | 186,104       | Yes                          |
|           | MEMB2 | -15,000         | -24,133                |               |                              |
|           | MEMB3 | -29,000         | -24,133                |               |                              |
| CU 3      | MEMB1 | 160,000         | 234,370                | 364,370       | Yes                          |
|           | MEMB2 | 130,000         | 130,000                |               |                              |
| CU 4      | MEMB1 | 140,000         | 140,000                | 255,867       | Yes                          |
|           | MEMB2 | 140,000         | 140,000                |               |                              |
|           | MEMB3 | -300,000        | -24,133                |               |                              |

While CUs 1 and 2 each originally report \$310,000 in BSNSX, topcoding is done only on the values reported by the members of CU2. Thus, the value for FBSNSX for CU2 is lower than for CU1 and is flagged as topcoded while CU1 is not. By using the mean of the subset of observations that are above (below) the critical value as the topcode amount, values on the public use data can be either below or above the actual reported value. Note that while CU2 has a topcoded value below the reported value, CU3's topcoded FBSNSX value (\$364,370) is higher than the amount that it reported (\$290,000). The case of CU4 demonstrates that the reported value for FBSNSX can be negative, while the topcoded value can be positive. The reverse can also occur.

The value of the variable, STATE, which identifies state of residence, must be suppressed for some observations to meet the Census Disclosure Review Board's criterion that the smallest geographically identifiable area have a population of at least 100,000. STATE data were evaluated vis-à-vis variables POPSIZE, REGION, and BLS\_URBN, which show the population size of the geographic area that is sampled, the four Census regions, and the urban/rural status respectively. Some STATE codes were suppressed because, in combination with these variables, they could be used to identify areas of 100,000 or less. On approximately 17 percent of the records on the FMLY files the STATE variable is blank. The STATE flag (STATE\_) is given a value of 'T' if STATE is suppressed.

A small proportion of STATE codes are replaced with codes of states other than the state where the CU resides. By re-coding in this manner, suppression of POPSIZE and REGION may be avoided. (In past releases selected observations of POPSIZE and REGION also required suppression.) If an observation of a CU's state of residence is re-coded with another state's code, the flag variable (STATE\_) of the re-coded state is assigned an 'R'. The flag variable is also assigned an 'R' for either all or a portion of other observations from that state. In total, approximately 4% of observations of STATE\_ are assigned an 'R'.

|        |                      |        |                |
|--------|----------------------|--------|----------------|
| 01     | Alabama              | *28    | Mississippi    |
| 02     | Alaska               | **29   | Missouri       |
| RR04   | Arizona              | 31     | Nebraska       |
| *05    | Arkansas             | R32    | Nevada         |
| **06   | California           | R33    | New Hampshire  |
| 08     | Colorado             | 34     | New Jersey     |
| 09     | Connecticut          | *35    | New Mexico     |
| 10     | Delaware             | RR**36 | New York       |
| R11    | District of Columbia | **37   | North Carolina |
| **12   | Florida              | RR39   | Ohio           |
| **13   | Georgia              | **40   | Oklahoma       |
| 15     | Hawaii               | **41   | Oregon         |
| 16     | Idaho                | 42     | Pennsylvania   |
| **17   | Illinois             | 45     | South Carolina |
| RR**18 | Indiana              | *46    | South Dakota   |
| *19    | Iowa                 | **47   | Tennessee      |
| **20   | Kansas               | 48     | Texas          |
| 21     | Kentucky             | 49     | Utah           |
| 22     | Louisiana            | 50     | Vermont        |
| R*23   | Maine                | **51   | Virginia       |
| 24     | Maryland             | **53   | Washington     |
| 25     | Massachusetts        | R54    | West Virginia  |
| **26   | Michigan             | 55     | Wisconsin      |
| **27   | Minnesota            |        |                |

\* indicates that the STATE code has been suppressed for all sampled CUs in that state (STATE\_ = 'T' for all observations).

\*\* indicates that the STATE code has been suppressed for some sampled CUs in that state (STATE\_ = 'T' for some observations).

R indicates that either all observations from this state have been re-coded or all strata<sup>1</sup> of observations from this state include "re-codes" from other states.

RR indicates that either some observations from this state have been re-coded or at least one stratum<sup>1</sup> of observations from this state includes "re-codes" from other states.

R\* indicates that the STATE code has been suppressed for some sampled CUs in that state and, either STATE has been re-coded or the state includes "re-codes" from other states in all strata<sup>1</sup>.

RR\*\* indicates that the STATE code has been suppressed for some sampled CUs in that state and, either STATE has been re-coded or the state includes "re-codes" from other states in at least one stratum<sup>1</sup>.

<sup>1</sup> A STATE stratum is a unique POPSIZE and BLS\_URBN combination.

States not listed are not in the CE sample.

## B. MEMBER CHARACTERISTICS AND INCOME FILE (MEMB)

The following MEMB file variables are subject to topcoding.

|          |   |
|----------|---|
| AGE      | Age of member   |
| ANFEDTXX | Annual amount of Federal income tax deducted from pay           |
| ANGVX    | Annual amount of government retirement deducted from pay        |
| ANPVTX   | Annual amount of private pension fund deducted from pay         |
| ANRRX    | Annual amount of Railroad Retirement deducted from pay          |
| ANSTATXX | Annual amount of state and local income taxes deducted from pay |
| BSNSX    | Amount of income or loss received from nonfarm business         |
| FARMX    | Amount of income or loss received from own farm                 |
| FEDTXX   | Amount of Federal income tax deducted from last pay             |
| GROSPAYX | Amount of last gross pay  |



|          |   |
|----------|---|
| GVX      | Amount of government retirement deducted from last pay        |
| IRAX     | Amount of money placed in an individual retirement plan       |
| JSSDEDX  | Estimated annual Social Security contribution                 |
| PVTX     | Amount of private pension fund deducted from last pay         |
| RRX      | Amount of Railroad Retirement deducted from last pay          |
| SLFEMPSS | Amount of self-employment Social Security contributions       |
| STATXX   | Amount of state and local income taxes deducted from last pay |
| WAGEX    | Amount received from wage and salary income before deductions |

The critical values and topcode values associated with the above variables follow.

| <u>Variable</u> | <u>2003 Upper<br/>critical Value</u> | <u>2003 Lower<br/>critical Value</u> | <u>2003 Upper<br/>topcode value</u> | <u>2003 Lower<br/>topcode value</u> |
|-----------------|--------------------------------------|--------------------------------------|-------------------------------------|-------------------------------------|
| AGE             | 80                                   | -                                    | 85                                  | -                                   |
| ANFEDTXX        | 20571                                | -                                    | 37278                               | -                                   |
| ANGVX           | 7140                                 | -                                    | 9001                                | -                                   |
| ANPVTX          | 13528                                | -                                    | 18262                               | -                                   |
| ANRRX           | 8200                                 | -                                    | -                                   | -                                   |
| ANSTATXX        | 6652                                 | -                                    | 11827                               | -                                   |
| BSNSX           | 150000                               | -9999                                | 234370                              | -24133                              |
| FARMX           | 150000                               | -9999                                | 280000                              | -28012                              |
| FEDTXX          | 983                                  | -                                    | 2341                                | -                                   |
| GROSPAYX        | 5460                                 | -                                    | 15658                               | -                                   |
| GVX             | 500                                  | -                                    | 626                                 | -                                   |
| IRAX            | 18000                                | -                                    | 36285                               | -                                   |
| JSSDEDX         | 7569                                 | -                                    | 10585                               | -                                   |
| PVTX            | 700                                  | -                                    | 1267                                | -                                   |
| RRX             | 200                                  | -                                    | 7608                                | -                                   |
| SLFEMPSS        | 14848                                | -                                    | 17184                               | -                                   |
| STATXX          | 330                                  | -                                    | 771                                 | -                                   |
| WAGEX           | 150000                               | -                                    | 254126                              | -                                   |

The variable FARMX has a critical value but no topcode amount. This implies that there are no observations outside the critical value on the current four quarter release.

### Special suppression for MEMB file variables

The five MEMB file variables--FEDTXX, GVX, PVTX, RRX, and STATXX--describe deductions from the most recent pay. These variables are used in conjunction with GROSPAYX (amount of last gross pay) and WAGEX (annual wage and salary income) to derive ANFEDTXX, ANGVX, ANPVTX, ANRRX, and ANSTATXX, which represent the estimated annual deductions for each of these income deduction categories. For example, the estimated annual Federal income tax deduction from pay is calculated as

$$(1) \quad \text{ANFEDTXX} = (\text{WAGEX} (\text{FEDTXX}/\text{GROSPAYX})).$$

Note that WAGEX can be estimated by using the above terms and rearranging such that

$$(2) \quad \text{WAGEX} = (\text{ANFEDTXX} (\text{GROSPAYX}/\text{FEDTXX})).$$

In the above example, a problem with disclosure may arise when neither ANFEDTXX, GROSPAYX, nor FEDTXX (calculation components) are topcoded, *but WAGEX is*. In this situation WAGEX can be recalculated to obtain its original value by inserting the non-topcoded values into equation (2) and solving it. In order to prevent this, the non-topcoded terms in equation (2) will be suppressed (blacked out) and their associated flags will be assigned a value of 'T'.

The following chart describes in detail the specific rules that are applied to prevent the potential disclosure outlined above.

If WAGEX is greater than the critical value but ANFEDTXX, GROSPAYX, and FEDTXX are not, then the values for ANFEDTXX, GROSPAYX, and FEDTXX are suppressed and their flag variables are assigned a value of 'T'.

If WAGEX is greater than the critical value but ANGVX, GROSPAYX, and GVX are not, then the values for ANGVX, GROSPAYX, and GVX are suppressed and their flag variables assigned a value of 'T'.

If WAGEX is greater than the critical value but ANPVTX, GROSPAYX, and PVTX are not, then the values for ANPVTX, GROSPAYX, and PVTX are suppressed and their flag variables assigned a value of 'T'.

If WAGEX is greater than the critical value but ANRRX, GROSPAYX, and RRX are not, then the values for ANRRX, GROSPAYX, and RRX are suppressed and their flag variables assigned a value of 'T'.

If WAGEX is greater than the critical value but ANSTATXX, GROSPAYX, and STATXX are not, then the values for ANSTATXX, GROSPAYX, and STATXX are suppressed and their flag variables assigned a value of 'T'.

### C. DETAILED EXPENDITURE FILE (EXPN)

The EXPN variable COST is subject to topcoding for the following UCCs.

| <b>UCC</b> | <b>Description</b>                             |
|------------|--|
| 001000     | Purchase price of stocks, bonds, mutual funds  |
| 009000     | Mortgage payment including coop                |
| 210110     | Rent of dwelling, includes parking fees        |
| 210210     | Lodging away from home                         |
| 210310     | Housing for someone at school                  |
| 210900     | Ground or land rent                            |
| 550320     | Medical equipment for general use              |
| 550330     | Supportive convalescent or medical equipment   |
| 560110     | Physicians' services                           |
| 560210     | Dental services                                |
| 560310     | Eyecare services                               |
| 560330     | Lab tests and x-rays                           |
| 560400     | Service by professionals other than physicians |
| 570000     | Hospital care not specified                    |
| 570220     | Nursing or convalescent home care              |
| 570230     | Other medical care service                     |
| 570901     | Rental of medical equipment                    |

If the value of COST is greater (less) than the designated critical values for the above UCCs, COST is set to the topcode value and the associated flag variable, COST\_, is set to 'T'. The critical values and topcode values (rounded to the nearest dollar) of the variable COST that are associated with the above UCCs follow.

| <b>Variable</b> | <b>2003 Upper<br/>critical value</b> | <b>2003 Lower<br/>critical value</b> | <b>2003 Upper<br/>topcode value</b> | <b>2003 Lower<br/>topcode value</b> |
|-----------------|--------------------------------------|--------------------------------------|-------------------------------------|-------------------------------------|
| 001000          | 424                                  | -                                    | 791                                 | -(ALLOC EQ '2' OR ALLOC EQ '3')     |
| 009000          | 2300                                 | -                                    | 2991                                | -(ALLOC EQ '2' OR ALLOC EQ '3')     |
| 210110          | 1400                                 | -                                    | 2043                                | -(ALLOC EQ '2' OR ALLOC EQ '3')     |

|        |        |   |      |                                  |
|--------|--------|---|------|----------------------------------|
| 210210 | 530    | - | 1285 | - (ALLOC EQ '2' OR ALLOC EQ '3') |
| 210310 | 443    | - | 2206 | - (ALLOC EQ '2' OR ALLOC EQ '3') |
| 210900 | -      | - | -    | - (ALLOC EQ '2' OR ALLOC EQ '3') |
| 220400 | 510000 | - | -    | -                                |
| 550320 | 124    | - | 184  | - (ALLOC EQ '2' OR ALLOC EQ '3') |
| 550330 | 83     | - | 203  | - (ALLOC EQ '2' OR ALLOC EQ '3') |
| 560110 | 200    | - | 366  | - (ALLOC EQ '2' OR ALLOC EQ '3') |
| 560210 | 687    | - | 1173 | - (ALLOC EQ '2' OR ALLOC EQ '3') |
| 560310 | 283    | - | 437  | - (ALLOC EQ '2' OR ALLOC EQ '3') |
| 560330 | 200    | - | 423  | - (ALLOC EQ '2' OR ALLOC EQ '3') |
| 560400 | 200    | - | 329  | - (ALLOC EQ '2' OR ALLOC EQ '3') |
| 570000 | 1048   | - | 1850 | - (ALLOC EQ '2' OR ALLOC EQ '3') |
| 570220 | 426    | - | 2596 | - (ALLOC EQ '2' OR ALLOC EQ '3') |
| 570230 | 44     | - | 80   | - (ALLOC EQ '2' OR ALLOC EQ '3') |
| 570901 | 21     | - | 23   | - (ALLOC EQ '2' OR ALLOC EQ '3') |

The following UCCs have a critical value but no topcode amount. This implies that there are no observations outside the critical value on the current four-quarter release.

#### D. INCOME FILE (DTAB)

The DTAB variable AMOUNT is subject to topcoding for the following UCCs.

| <u>UCC</u> | <u>Description</u>   |
|------------|--|
| 900040     | Amount received from pensions or annuities                                       |
| 900050     | Amount received from regular income from dividends, royalties, estates or trusts |
| 900060     | Amount received from net income or loss received from roomers or boarders        |
| 900070     | Amount received from net income or loss received from other rental units         |
| 900080     | Amount received from interest on savings accounts or bonds                       |
| 900131     | Amount received from other child support payments                                |
| 900132     | Amount received from other regular contributions, including alimony              |
| 900140     | Amount received from other money income  |
| 910000     | Amount received from lump sum payments from estates, trusts, etc.                |
| 910010     | Amount received from money from sale household furnishings etc.                  |
| 910020     | Amount of overpayment on Social Security   |
| 910030     | Amount of refund from insurance policies   |
| 910040     | Amount of refunds from property taxes  |
| 910041     | Amount received from lump sum child support payments received                    |
| 950000     | Amount of Federal income tax paid  |
| 950001     | Amount received from Federal income tax refunds                                  |
| 950010     | Amount of state/local income tax paid  |
| 950011     | Amount received from State/local income tax refunds                              |
| 950021     | Amount of other taxes paid   |
| 950022     | Amount of personal property taxes paid   |
| 950023     | Amount of other tax refund received from other sources                           |
| 980020     | Age of reference person  |

If AMOUNT is greater (less) than the designated critical values for the above UCCs, AMOUNT is set to the topcode value and the associated flag variable, AMOUNT\_, is set to 'T'. The critical values and topcode values (rounded to the nearest dollar) of the variable AMOUNT that are associated with the above UCCs follow.

| <u>Variable</u> | <u>2003 Upper critical Value</u> | <u>2003 Lower critical Value</u> | <u>2003 Upper topcode value</u> | <u>2003 Lower topcode value</u> |
|-----------------|----------------------------------|----------------------------------|---------------------------------|---------------------------------|
| 900040          | 54600                            | -                                | 78842                           | -                               |

|        |        |        |        |        |
|--------|--------|--------|--------|--------|
| 900050 | 40000  | -      | 86240  | -      |
| 900060 | 36000  | -10000 | 110000 | 43333- |
| 900070 | 50000  | -8000  | 100600 | -18000 |
| 900080 | 35000  | -      | 60700  | -      |
| 900131 | 14400  | -      | 24511  | -      |
| 900132 | 40000  | -      | 59090  | -      |
| 900140 | 25000  | -      | 29320  | -      |
| 910000 | 120000 | -      | 241666 | -      |
| 910010 | 6000   | -      | 22691  | -      |
| 910020 | 2223   | -      | -      | -      |
| 910030 | 6000   | -      | 16335  | -      |
| 910040 | 1600   | -      | 2132   | -      |
| 910041 | 11000  | -      | 16250  | -      |
| 950001 | -      | -6200  | -      | -10473 |
| 950011 | -      | -1965  | -      | -2770  |
| 950021 | 6572   | -      | 12700  | -      |
| 950022 | 6000   | -      | 8234   | -      |
| 950023 | -      | -2800  | -      | -3616  |
| 980020 | 80     | -      | 85     | -      |

<sup>1</sup> ADDFEDX (amount of Federal tax paid in addition to that withheld) and FFEDTXX (Federal tax withheld from last pay annualized for all CU members) are both mapped to UCC 950000 as separate records. Records for UCC 950000 that represent FFEDTXX are topcoded through their components (ANFEDTXX) at the MEMB level and thus, these records will not have a DTAB critical value. DTAB records for UCC 950000 that represent ADDFEDX are topcoded for all amounts greater than \$25,000.

<sup>2</sup> ADDSTAX (amount of state and local taxes paid in addition to that withheld) and FSTATXX (state and local income tax deduction from last pay annualized for all CU members) are both mapped to UCC 950010 as separate records. Records for UCC 950010 that represent FSTATXX are topcoded through their components (ANSTATXX) at the MEMB level and thus, these records will not have a DTAB critical value. Create the DTAB VALUE field for these records by dividing FSTATXX by 12. If FSLTAXX is topcoded, then set VALUE\_ to 'T'. DTAB records for UCC 950010 that represent ADDSTAX are topcoded for all amounts greater than \$6,572.

AMOUNT for the following UCC's is topcoded because the FMLY file variables corresponding to these UCC's are topcoded due to recalculation. (See Section IV.A. CU CHARACTERISTICS AND INCOME FILE on topcoding of FMLY variables.)

| <b><u>UCC</u></b> | <b><u>FMLY variable</u></b> | <b><u>Description</u></b>   |
|-------------------|-----------------------------|---|
| 800910            | FGVX                        | Amount of government retirement deducted from last pay, annualized for all CU members |
| 800920            | FRRX                        | Amount of Railroad Retirement deducted from last pay, annualized for all CU members   |
| 800931            | FPVTX                       | Amount of private pension fund deducted from last pay, annualized for all CU members  |
| 800932            | FIRAX                       | Amount of money placed in individual retirement plan                                  |
| 800940            | FJSSDEDX                    | Estimated amount of annual Social Security contribution                               |
| 900000            | FWAGEX                      | Amount received from wage and salary income before deduction                          |
| 900010            | FBSNSX                      | Amount of income from non-farm business   |
| 900020            | FFARMX                      | Amount of income or loss received from own farm                                       |
| 980000            | FINCBEFX                    | Amount of CU income before taxes  |
| 980070            | FINCAFTX                    | Amount of CU income after taxes   |

## V. ESTIMATION PROCEDURE

This section provides users of the CE Diary microdata files with procedures for estimating means and variances of data associated with any U.S. subpopulation. The production of *Consumer Expenditures in 2003* used an integration methodology which incorporated information from *both* Diary and Interview Surveys. Diary data users will not be able to match published CE estimates because of this. In addition, users will not be able to match all values because of suppression of some values, due to topcoding. See the topcoding and other nondisclosure requirements in Section IV.

### A. DEFINITION OF TERMS

Consider the following general situation. We wish to estimate expenditures on certain food items for a special group (subpopulation) of U.S. CUs; for example, all CUs of three persons. Our specific objective is to estimate the expenditures for item  $k$  over a period of  $q$  months, where data collected over  $r$  months are used in the estimate. The following definitions will be helpful in formulating the above type of estimate.

#### Definition of Terms:

Let

- $S$  = all CUs in the subpopulation of interest
- $x$  = expenditure item(s) of interest
- $q$  = number of months for which estimate is desired
- $r$  = number of months in which expenditures were made to be used in calculating the estimate
- $D$  = number of days in each of the months in which expenditures were made
- $j$  = individual CU in subpopulation  $S$
- $t$  = month of expenditure

Then

- $X_{(j,k,t)}$  = the amount of money CU  $(j)$  spent on item  $k$  for a week during month  $t$
- $W_{(j,t,F21)}$  = the weight assigned to CU  $(j)$  during month  $t$

The F21 denotes FINLWT21 which is used for population estimates.

NOTE: The CUs on the Diary Survey microdata files represent the U.S. population. Some CUs represent more of the population than others; and hence carry more weight. The weight,  $W_{(j,t,F21)}$ , is a complex estimate of this representation. Refer to Section X.C. WEIGHTING for an explanation of weights. The weights have been adjusted so that the sum of all CU weights for one month approximates one third of the U.S. population. Consequently, the weights for three months (one quarter) of data approximate the total U.S. population.

Using the above terminology, we may define:

- $X_{(S,k)(q,r)}$  as an estimate for the expenditures of subpopulation  $S$  on item  $k$  over a period of  $q$  months, where data collected over  $r$  months are used.

and

- $\bar{X}_{(S,k)(q,r)}$  as an estimate of the mean expenditures of subpopulation  $S$  on item  $k$  over a period of  $q$  months, where data collected over  $r$  months are used.

## B. ESTIMATION OF TOTAL AND MEAN EXPENDITURES

As an example, let us estimate total expenditures on milk (item  $k$ ) of subpopulation  $S$  over a 12-month period. Data collected over 6 months will be used to make the estimate. Users may use less than 12 months of data to perform seasonal calculations. In the notation described above, the estimate is  $X_{(S,k)(12,6)}$ .

$$X_{(S,k)(12,6)} = 3 \left( \frac{12}{6} \right) \sum_{t=1}^6 \left( \sum_{j=1}^n \left( \frac{D(t)}{7} \right) W_{(j,t,F21)} X_{(j,k,t)} \right)_t \quad (1a)$$

where the inner summation sums expenditures for all  $j$  in  $S$ , indexed from  $j = 1$  through  $n$  and the outer summation sums over months  $t = 1$  through 6. The factor "3" compensates for the fact that the weights for the CUs visited in one month have been adjusted to represent one third of the U.S. population. The factor "12" reflects our desire to estimate expenditures over a 12-month period; and the "6" is the adjustment made because data for 6 months are used. Since the data  $X_{(j,k,t)}$  are in terms of weekly expenditures, the factors, (number of days in the month)/7, are used to convert weekly expenditures into their monthly equivalents.

The above formula can be generalized to estimate the total expenditures of subpopulation  $S$  on item  $k$  for  $q$  months, but using data collected over  $r$  months. The generalization is

$$X_{(S,k)(q,r)} = 3 \left( \frac{q}{r} \right) \sum_{t=1}^r \left( \sum_{j=1}^n \left( \frac{D(t)}{7} \right) W_{(j,t,F21)} X_{(j,k,t)} \right)_t \quad (1b)$$

where the inner summation sums expenditures for all  $j$  in  $S$ , indexed from  $j = 1$  through  $n$  and the outer summation sums over months  $t = 1$  through  $r$ .

An estimate for the expenditures for two or more items may be obtained by summing those expenditures at the CU level and then proceeding as before.

The next example will give an estimate,  $\bar{X}_{(S,k)(12,6)}$ , of mean expenditures over twelve months ( $q$ ), on item  $k$ , of CUs in subpopulation  $S$ , where data collected over a six month period ( $r$ ) are used. The result is

$$\bar{X}_{(S,k)(12,6)} = \frac{3 \left( \frac{12}{6} \right) \sum_{t=1}^6 \left( \sum_{j=1}^n \left( \frac{D(t)}{7} \right) W_{(j,t,F21)} X_{(j,k,t)} \right)_t}{\frac{3 \sum_{t=1}^6 \left( \sum_{j=1}^n W_{(j,t,F21)} \right)_t}{6}} \quad (2a)$$

where the numerator is an estimate of aggregate expenditures as formulated in equation (1a), and where the denominator is an estimate of the population of CUs in the U.S. during the six-month period for which the expenditure data are collected. The inner summation in the denominator of (2a) sums FINLWT21 for a given month ( $t$ ), for all  $j$  in  $S$ , indexed from  $j = 1$  through  $n$ , and the outer summation in the denominator of (2a) sums over months  $t = 1$  through 6. As in the estimate of aggregate expenditures, the factor "3" to the left of the outer summation in the denominator of equation (2a) adjusts FINLWT21 to represent the entire population for each month of data used. The proper U.S. population count is arrived at by dividing the denominator by  $r$ , or in this case "6", (representing the 6 month period of collected data in this example).

The above formula generalizes to  $\bar{X}_{(S,k)(q,r)}$ , (i.e., the estimate of the mean expenditure by subpopulation S on item k for q months using data collected over r months). In detail:

$$\bar{X}_{(S,k)(q,r)} = \frac{q \sum_{t=1}^r \left( \sum_{j=1}^n \left( \frac{D_{(t)}}{7} \right) W_{(j,t,F21)} X_{(j,k,t)} \right)}{\sum_{t=1}^r \left( \sum_{j=1}^n W_{(j,t,F21)} \right)} \quad (2b)$$

Note: The factors “3” (adjustment of FINLWT21 to one U.S. population) and “6”, (number of months, r, for which the data are collected), which appear both in the numerator and the denominator of (2a), cancel. These scalars are dropped from the general form of  $\bar{X}_{(S,k)(q,r)}$ .

The estimates for total ( $X_{(S,k)(q,r)}$ ) and mean expenditures ( $\bar{X}_{(S,k)(q,r)}$ ) are based on all CUs; not just the CUs with positive expenditures for item k. Consider the calculation for the mean expenditure of tobacco. The formula  $\bar{X}_{(S,k)(q,r)}$  includes all CUs, both smoking and nonsmoking. One might be more interested in the mean expenditures on tobacco but only for those CUs that actually have expenditures. This can be accounted for by properly defining the initial subpopulation S so as to restrict it to CUs with positive tobacco expenditures.

## C. ESTIMATION OF MEAN ANNUAL INCOME

Let  $\bar{Z}_{(S,r)}$  be an estimate of the mean annual income of CUs in subpopulation S, where income data collected over r months is to be used.

Let  $Z_{(j,t)}$  = the annual income reported by CU<sub>(j)</sub> in month t. Then the estimated mean annual income is

$$\bar{Z}_{(S,r)} = \frac{\sum_{t=1}^r \left( \sum_{j=1}^n W_{(j,t,F21)} Z_{(j,t)} \right)}{\sum_{t=1}^r \left( \sum_{j=1}^n W_{(j,t,F21)} \right)}$$

## VI. RELIABILITY STATEMENT

### A. DESCRIPTION OF SAMPLING ERROR AND NONSAMPLING ERROR

Sample surveys are subject to two types of errors, sampling and nonsampling. Sampling errors occur because observations are not taken from the entire population. The standard error, which is the accepted measure for sampling error, is an estimate of the difference between the sample data and the data that would have been obtained from a complete census. The sample estimate and its estimated standard error enables one to construct confidence intervals.

Assuming the Normal Distribution applies to the means of expenditures, the following statements can be made:

- (1) The chances that an estimate from a given sample would differ from a complete census figure by less than one standard error are approximately 68 out of 100.
- (2) The chances that the difference would be less than 1.6 times the standard error are approximately 90 out of 100.
- (3) The chances that the difference would be less than two times the standard error are approximately 95 out of 100.

Nonsampling errors can be attributed to many sources, such as definitional difficulties, differences in the interpretation of questions, inability or unwillingness of the respondent to provide correct information, mistakes in recording or coding the data obtained, and other errors of collection, response, processing, coverage, and estimation for missing data. The full extent of the nonsampling error is unknown. Estimates using a small number of observations are less reliable. A small amount of nonsampling error can cause a small difference to appear significant even when it is not. It is probable that the levels of estimated expenditure obtained in the Diary Survey are generally lower than the "true" level due to the above factors.

## B. ESTIMATING SAMPLING ERROR

### 1. VARIANCE ESTIMATION

Variance estimation can be done in many ways. The method illustrated below (a pseudo-replication technique) is chosen because it is accurate yet simple to understand. The basic idea is to artificially construct several "subsamples" from the original sample data. This construction is done in a manner so that the variance information of the original data is preserved in these subsamples. These subsamples (or pseudo-replications) can then be used to obtain approximate variances for the estimates.

The Diary microdata files contain information that facilitates this form of variance estimation procedure. Specifically, 45 weights are associated with each CU. The forty-fifth weight, called FINLWT21 at BLS, (which is the weight for the total sample) is used for estimations of total or mean expenditures. The other weights (replicates 1 through 44) are used for variance estimation of the totals or means. Note that half of the weights in each replicate are zero. This reflects the fact that in this technique only half the CUs are used in each of the 44 pseudo-replicates. Recall that  $X_{(S,k)(q,r)}$  is an estimate for the expenditures of subpopulation  $S$  on item  $k$  over a period of  $q$  months, where data collected over  $r$  months are used. This notation does not reveal the fact that 45 replicate weights are to be used for estimation of variance. We expand the notation to include this information. Specifically, let

$X_{(S,k)(q,r),a}$  = an estimate of the same quantity as  $X_{(S,k)(q,r)}$ , but using the weights of the  $a^{\text{th}}$  replicate.

That is  $X_{(S,k)(q,r),a}$  is an estimate of the total expenditures by CUs in subpopulation  $S$  on item  $k$  over  $q$  months using  $r$  months of collection data, and where the weights from the  $a^{\text{th}}$  replicate are used. Note that the estimate using any one of the first 44 replicate weights only uses part of the data; hence in general  $X_{(S,k)(q,r),a}$  is not equal to  $X_{(S,k)(q,r)}$ .

An estimate for the variance of  $X_{(S,k)(q,r)}$  (denoted by  $V(X_{(S,k)(q,r)})$ ) can be calculated using the following formula:



$$V(X_{(S,k)(q,r)}) = \frac{1}{44} \sum_{a=1}^{44} (X_{(S,k)(q,r),a} - \bar{X}_{(S,k)(q,r)})^2$$

Estimates for the variances of  $\bar{X}_{(S,k)(q,r)}$  and  $\bar{Z}_{(S,r)}$  are similar and are given below.

$$V(\bar{X}_{(S,k)(q,r)}) = \frac{1}{44} \sum_{a=1}^{44} (\bar{X}_{(S,k)(q,r),a} - \bar{X}_{(S,k)(q,r)})^2$$

and

$$V(\bar{Z}_{(S,r)}) = \frac{1}{44} \sum_{a=1}^{44} (\bar{Z}_{(S,r),a} - \bar{Z}_{(S,r)})^2$$

where  $\bar{X}_{(S,k)(q,r),a}$  and  $\bar{Z}_{(S,r),a}$  are estimates similar to  $\bar{X}_{(S,k)(q,r)}$  and  $\bar{Z}_{(S,r)}$  except weights of the  $a^{th}$  replicates are used.

## **2. STANDARD ERROR OF THE MEAN**

The standard error of the mean,  $S.E.(\bar{X})$ , is defined as the square root of the variance of the mean.  $S.E.(\bar{X})$ , is used to obtain confidence intervals that evaluate how close the estimate may be to the true population mean. A 95 percent confidence interval can be constructed around an estimate, bounded by values 1.96 times the standard error less than and greater than the estimate. For example, the average weekly expenditure for beef for total complete income reporters in 2003 was \$4.72. The standard error for this estimate is \$0.22. Hence, the 95 percent confidence interval around this estimate is from \$4.29 to \$5.15. Therefore, we could conclude with 95 percent confidence that the mean weekly expenditures for beef for total complete income reporters in 2003 lies within the interval \$4.29 to \$5.15.

## **3. STANDARD ERROR OF THE DIFFERENCE BETWEEN TWO MEANS**

Standard errors may also be used to perform hypothesis testing, a procedure for distinguishing between population parameters using sample estimates. The most common types of hypotheses are: 1) the population parameters are identical, versus 2) they are different.

For example, in 2003 the estimated average weekly expenditures for total food for complete income reporters in the \$30,000 to \$39,999 income range is \$89.92 and the estimate for complete income reporters in the \$40,000 to \$49,999 income range is \$99.32. The apparent difference between the two mean expenditures is \$99.32 – \$89.92 = \$9.40. The standard error on the estimate of \$99.32 is \$2.64 and the estimated standard error for the \$89.92 estimate is \$2.47. The standard error (S.E.) of a difference is approximately equal to

$$S.E.(\bar{X}_1, \bar{X}_2) = \sqrt{V(\bar{X}_1) + V(\bar{X}_2)}$$

where

$$V(\bar{X}_i) = (S.E.(\bar{X}_i))^2$$

This assumes that  $\bar{x}_1$  and  $\bar{x}_2$  are disjoint subsets of the population. Hence, the standard error of the difference in food expenditures between complete income reporters in the \$30,000 to \$39,999 and in the \$40,000 to \$49,999 income ranges is about

$$\sqrt{(2.47)^2 + (2.64)^2} = 3.61$$

This means that the 95 percent confidence interval around the difference is from \$2.31 to \$16.48. Since this interval does not include zero, we can conclude with 95 percent confidence that the mean weekly food expenditures for the \$40,000 to \$49,999 income group is greater than the mean weekly food expenditures for the \$30,000 to \$39,999 income group.

Analyses of the difference between two estimates can also be performed on nondisjoint sets of population, where one is a subset of the other. The formula for computing the standard error (S.E.) of the difference between two nondisjoint estimates is

$$S.E.(\bar{X}_1, \bar{X}_2) = \sqrt{V(\bar{X}_1) + V(\bar{X}_2) - 2r(V(\bar{X}_1) * V(\bar{X}_2))}$$

where

$$V(\bar{X}_i) = (S.E.(\bar{X}_i))^2$$

and where  $r$  is the correlation coefficient between  $\bar{x}_1$  and  $\bar{x}_2$ . The correlation coefficient is generally no greater than 0.2 for CE estimates.

## VII. MICRODATA VERIFICATION AND ESTIMATION METHODOLOGY

This section is designed to help users become familiar with the microdata files. The following program gives users a benchmark to verify that their copy of the CD-ROM contains valid data, illustrate the methodology CE uses in producing publication tables, and offer an example of coding to access the data and produce a sample table. The program is written in SAS and shows usage of the SAS datasets available on the SAS CD-ROM. A program written in SAS but utilizing the ASCII datasets is present on the ASCII CD-ROM but will not be referenced here. Refer to the output file on the CD to check output. (Note: CE data published by BLS may not match some values estimated using the microdata due to topcoding of data and CE publication programming methodology.) All variables and ranges referred to in the program are described in detail in Section III.E. DETAILED VARIABLE DESCRIPTIONS in this documentation.

This program produces a table of selected expenditures by income class of the Consumer Unit (CU). The first section reads in the processing file and manipulates it into a usable form suitable for formatting an expenditure table. The second section of the program extracts the relevant variables from the FMLY files, while the third section extracts the expenditure and income data from the EXPN and DTAB files. These three datasets are then used along with the Dstub processing file to construct the sample table output. This output is the product of two SAS arrays. The values in one array are divided by the value in the other array to obtain weighted mean expenditures. The base, or denominator, for the division is a vector consisting of the weighted total population for the U.S. and selected income class categories. The numerator is a matrix of aggregate weighted costs for each line item in the table for the total U.S. population and each income class category.

It should be emphasized that this program has been written solely for the verification of the microdata and as an illustration of the CE estimation methodology. It should not be used for any other purpose.

Note: This program processes large amounts of data. If you are using a PC with limited capabilities it may be necessary to run this program in sections.

|  |  |
|--|--|
| <pre> NOTE: Copyright (c) 1999-2001 by SAS Institute Inc., Cary, NC, USA. NOTE: SAS (r) Proprietary Software Release 8.2 (TS2M0)       Licensed to BUREAU OF LABOR STATISTICS, Site 0034757167. NOTE: This session is executing on the WIN_PRO platform.  NOTE: SAS initialization used:       real time          0.70 seconds       cpu time           0.45 seconds  1  /***** 2  /* PROGRAM NAME:  CEX DIARY SURVEY SAMPLE PROGRAM (SAS)          */ 3  /* LOCATION:    D:\PROGRAMS                                     */ 4  /* FUNCTION:    CREATE A DIARY SURVEY EXPENDITURE TABLE BY INCOME CLASS USING 5  /*              MICRODATA FROM THE BUREAU OF LABOR STATISTIC'S CONSUMER 6  /*              EXPENDITURE SURVEY. 7  /* 8  /* WRITTEN BY:   ERIC KEIL 9  /* MODIFICATIONS: 10 /* DATE-        MODIFIED BY-      REASON- 11 /* -----      - 12 /* 03/21/02    ERIC KEIL          IMPROVE EFFICIENCY 13 /* 10/22/03    ERIC KEIL          UPDATE FOR 2002 DATA 14 /* 11/20/03    ERIC KEIL          INCLUDE ROUTINE TO AGGREGATE EASIER 15 /* 16 /* FOR SAS VERSION 8 OR HIGHER 17 /* 18 /***** 19 20 21 %LET YEAR = 2003; 22 %LET DRIVE = D; 23 24 25 /***** 26 /* STEP1: READ IN THE STUB PARAMETER FILE AND CREATE FORMATS          */ 27 /* ----- 28 /* 1 CONVERTS THE STUB PARAMETER FILE INTO A LABEL FILE FOR OUTPUT 29 /* 2 CONVERTS THE STUB PARAMETER FILE INTO AN EXPENDITURE AGGREGATION FILE 30 /* 3 CREATES FORMATS FOR USE IN OTHER PROCEDURES 31 /***** 32 33 34 %LET YR1 = %SUBSTR(&amp;YEAR,3,2); 35 LIBNAME D&amp;YR1 "&amp;DRIVE.:\DIARY&amp;YR1"; NOTE: Libref D03 was successfully assigned as follows:       Engine:          V8       Physical Name:  C:\DIARY03 36 37 38 DATA STUBFILE (KEEP= COUNT TYPE LEVEL TITLE UCC SURVEY GROUP LINE); 39   INFILE "&amp;DRIVE.:\PROGRAMS\DSTUB&amp;YEAR..TXT" 40   PAD MISSEVER; 41   INPUT @1 TYPE \$1. @ 4 LEVEL \$1. @7 TITLE \$60. @70 UCC \$6. 42         @80 SURVEY \$1. @86 GROUP \$7.; 43   IF (TYPE = '1'); 44   IF GROUP IN ('CUCHARS' 'FOOD' 'EXPEND' 'INCOME'); 45 46   RETAIN COUNT 9999; 47   COUNT + 1; 48   LINE = PUT(COUNT, \$5.)  LEVEL ; WARNING: Variable COUNT has already been defined as numeric. 49   /* READS IN THE STUB PARAMETER FILE AND CREATES LINE NUMBERS FOR UCCS */ 50   /* A UNIQUE LINE NUMBER IS ASSIGNED TO EACH EXPENDITURE LINE ITEM    */ 51 RUN;  NOTE: The infile "C:\PROGRAMS\DSTUB2003.TXT" is:       File Name=C:\PROGRAMS\DSTUB2003.TXT,       RECFM=V,LRECL=256 </pre> | <p>Sets the calendar year and drive used as macro variables that can be used throughout the program.</p> <p>Reads in the aggregation stub file and dynamically creates numbers associated with each expenditure line item.</p> <p>Note: This aggregation file can be modified to accommodate any customized aggregation scheme.</p> <p>One needs only to make sure that the column start positions in the file match the start positions in the input statement.</p> |
|--|--|

NOTE: 784 records were read from the infile "C:\PROGRAMS\DSTUB2003.TXT".  
The minimum record length was 132.  
The maximum record length was 132.

NOTE: The data set WORK.STUBFILE has 459 observations and 8 variables.

NOTE: DATA statement used:

```
real time      0.01 seconds
cpu time       0.01 seconds
```

```
52
53
54 DATA AGGFMT1 (KEEP= UCC LINE LINE1-LINE10);
55 SET STUBFILE;
56 LENGTH LINE1-LINE10 $6.;
57 ARRAY LINES(9) LINE1-LINE9;
58 IF (UCC > 'A') THEN
59     LINES(SUBSTR(LINE,6,1)) = LINE;
60 RETAIN LINE1-LINE9;
61 IF (UCC < 'A') THEN
62     LINE10 = LINE;
63 IF (LINE10);
64 RUN;
```

Subsequent program steps  
manipulate the aggregation  
stub file into a dataset that  
associates UCCs with line  
numbers.

NOTE: Character values have been converted to numeric values at the places given by:  
(Line):(Column).

```
59:15 63:7
```

NOTE: There were 459 observations read from the data set WORK.STUBFILE.

NOTE: The data set WORK.AGGFMT1 has 331 observations and 12 variables.

NOTE: DATA statement used:

```
real time      0.01 seconds
cpu time       0.01 seconds
```

```
65
66
67 PROC SORT DATA= AGGFMT1 (RENAME=(LINE= COMPARE));
68 BY UCC;
69 /* MAPS LINE NUMBERS TO UCCS */
70 RUN;
```

NOTE: There were 331 observations read from the data set WORK.AGGFMT1.

NOTE: The data set WORK.AGGFMT1 has 331 observations and 12 variables.

NOTE: PROCEDURE SORT used:

```
real time      0.01 seconds
cpu time       0.01 seconds
```

```
71
72
73 PROC TRANSPOSE DATA= AGGFMT1 OUT= AGGFMT2 (RENAME=(COL1= LINE));
74 BY UCC COMPARE;
75 VAR LINE1-LINE10;
76 RUN;
```

NOTE: There were 331 observations read from the data set WORK.AGGFMT1.

NOTE: The data set WORK.AGGFMT2 has 3310 observations and 4 variables.

NOTE: PROCEDURE TRANSPOSE used:

```
real time      0.01 seconds
cpu time       0.01 seconds
```

```
77
78
79 DATA AGGFMT (KEEP= UCC LINE);
80 SET AGGFMT2;
81 IF LINE;
82 IF SUBSTR(COMPARE,6,1) > SUBSTR(LINE,6,1) OR COMPARE=LINE;
83 /* AGGREGATION FILE. EXTRANEIOUS MAPPINGS ARE DELETED */
84 /* PROC SQL WILL AGGANGE LINE#/UCC PAIRS FOR USE IN PROC FORMAT */
85 RUN;
```

NOTE: Character values have been converted to numeric values at the places given by:  
(Line):(Column).

```
81:8
```

NOTE: There were 3310 observations read from the data set WORK.AGGFMT2.

NOTE: The data set WORK.AGGFMT has 1338 observations and 2 variables.

NOTE: DATA statement used:

```
real time      0.00 seconds
cpu time       0.00 seconds
```

```
86
87
```

|   |   |
|---|---|
| <pre> 88 PROC SQL NOPRINT; 89   SELECT UCC, LINE, COUNT(*) 90   INTO :UCCS SEPARATED BY " ", 91   :LINES SEPARATED BY " ", 92   :CNT 93   FROM AGGFMT; NOTE: The query requires remerging summary statistics back with the original data. 94   QUIT; NOTE: PROCEDURE SQL used:       real time      0.06 seconds       cpu time       0.00 seconds  95 RUN; 96 97 98 %MACRO MAPPING; 99   %DO I = 1 %TO &amp;CNT; 100    "%SCAN(&amp;UCCS,&amp;I,%STR( ))" = "%SCAN(&amp;LINES,&amp;I,%STR( ))" 101    %END; 102 %MEND MAPPING; 103 104 105 DATA LBLFMT (RENAME=(LINE= START TITLE= LABEL)); 106   SET STUBFILE (KEEP= LINE TITLE); 107   RETAIN FMTNAME 'LBLFMT' TYPE 'C'; 108   /* LABEL FILE. LINE NUMBERS ARE ASSIGNED A TEXT LABEL */ 109   /* DATASET CONSTRUCTED TO BE READ INTO A PROC FORMAT */ 110 RUN;  NOTE: There were 459 observations read from the data set WORK.STUBFILE. NOTE: The data set WORK.LBLFMT has 459 observations and 4 variables. NOTE: DATA statement used:       real time      0.00 seconds       cpu time       0.00 seconds  111 112 113 PROC FORMAT; 114 115   VALUE \$AGGFMT (MULTILABEL) 116     %MAPPING 117     OTHER= 'OTHER'; NOTE: Format \$AGGFMT has been output. 118     /* CREATE AGGREGATION FORMAT */ 119 120 121   VALUE \$INC (MULTILABEL) 122     '01' = '01' 123     '01' = '11' 124     '02' = '02' 125     '02' = '11' 126     '03' = '03' 127     '03' = '11' 128     '04' = '04' 129     '04' = '11' 130     '05' = '05' 131     '05' = '11' 132     '06' = '06' 133     '06' = '11' 134     '07' = '07' 135     '07' = '11' 136     '08' = '08' 137     '08' = '11' 138     '09' = '09' 139     '09' = '11' 140     '10' = '10'; NOTE: Format \$INC has been output. 141     /* CREATE INCOME CLASS FORMAT */ 142 RUN;  NOTE: PROCEDURE FORMAT used:       real time      5.25 seconds       cpu time       5.12 seconds  143 144 145 PROC FORMAT LIBRARY= WORK CNTLIN= LBLFMT; NOTE: Format \$LBLFMT has been output. </pre> | <p>Creates a Dataset that can be used to associate titles with line numbers with a format procedure.</p> <p>Formats:</p> <p>Puts the aggregation scheme into a SAS format.</p> <p>Puts the income groupings into a SAS format.</p> <p>Note: The multilabel option is necessary in the aggregation format and income format since multiple mappings occur. This option is available in SAS V8 or higher.</p> <p>Puts the titles into a SAS format for use in the final output.</p> |
|---|---|

```

146 /* CREATE LABEL FILE FORMATS */
147 RUN;

NOTE: PROCEDURE FORMAT used:
      real time          0.01 seconds
      cpu time           0.01 seconds

NOTE: There were 459 observations read from the data set WORK.LBLFMT.

148
149
150 /*****
151 /* STEP2: READ IN ALL NEEDED DATA FROM THE CD-ROM */
152 /* ----- */
153 /* 1 READ IN THE DIARY FMLY FILES */
154 /* 2 READ IN THE DIARY EXPM AND DTAB FILES */
155 /* 3 MERGE FMLY AND EXPENDITURE FILES TO DERIVE WEIGHTED EXPENDITURES */
156 /*****
157
158
159 DATA FMLY (KEEP = NEWID INCLASS REPWT1-REPWT45);
160 SET D&YR1..FMLD&YR1.1
161     D&YR1..FMLD&YR1.2
162     D&YR1..FMLD&YR1.3
163     D&YR1..FMLD&YR1.4;
164 BY NEWID;
165 /* READ IN FMLY FILE DATA */
166
167 ARRAY REPS_A(45) WTREP01-WTREP44 FINLWT21;
168 ARRAY REPS_B(45) REPWT1-REPWT45;
169
170 DO i = 1 TO 45;
171 IF REPS_A(i) > 0 THEN
172     REPS_B(i) = (REPS_A(i) / 4);
173 ELSE REPS_B(i) = 0;
174 END;
175 /* ADJUST WEIGHTS TO COMPENSATE FOR HAVING FOUR QUARTERS OF DATA */
176 RUN;

NOTE: There were 3976 observations read from the data set D03.FMLD031.
NOTE: There were 3938 observations read from the data set D03.FMLD032.
NOTE: There were 3973 observations read from the data set D03.FMLD033.
NOTE: There were 3940 observations read from the data set D03.FMLD034.
NOTE: The data set WORK.FMLY has 15827 observations and 47 variables.
NOTE: DATA statement used:
      real time          0.92 seconds
      cpu time           0.42 seconds

177
178
179
180 DATA EXPEND (KEEP = NEWID UCC COST);
181 SET D&YR1..DTBD&YR1.1 (RENAME=(AMOUNT=COST))
182     D&YR1..DTBD&YR1.2 (RENAME=(AMOUNT=COST))
183     D&YR1..DTBD&YR1.3 (RENAME=(AMOUNT=COST))
184     D&YR1..DTBD&YR1.4 (RENAME=(AMOUNT=COST))
185     D&YR1..EXPD&YR1.1
186     D&YR1..EXPD&YR1.2
187     D&YR1..EXPD&YR1.3
188     D&YR1..EXPD&YR1.4;
189 BY NEWID;
190 /* READ IN INCOME AND EXPENDITURE DATA */
191 RUN;

NOTE: There were 63250 observations read from the data set D03.DTBD031.
NOTE: There were 63604 observations read from the data set D03.DTBD032.
NOTE: There were 63488 observations read from the data set D03.DTBD033.
NOTE: There were 63264 observations read from the data set D03.DTBD034.
NOTE: There were 148492 observations read from the data set D03.EXPD031.
NOTE: There were 151301 observations read from the data set D03.EXPD032.
NOTE: There were 151636 observations read from the data set D03.EXPD033.
NOTE: There were 149534 observations read from the data set D03.EXPD034.
NOTE: The data set WORK.EXPEND has 854569 observations and 3 variables.
NOTE: DATA statement used:
      real time          2.40 seconds
      cpu time           0.60 seconds

192

```

Reads in the necessary variables from the fmly files. Newid is the code given to a consumer unit each time it participates. Finlwt21 and Wtrep01-Wtrep44 are weight variables used to weight each consumer unit such that it represents some portion of the population. Inclass is a code that represents the range within which the consumer unit's annual income falls.

Lines 170-174 adjusts the weights so that they will sum up to US populations.

Reads in all DTAB income data and EXPN expenditure data.

Newid is the consumer unit code. UCC is a code that represents the type of expenditure variable. Cost is the value that corresponds to the UCC code.

Merges the FMLY and EXPEND data sets together

```

193
194
195 DATA PUBFILE (KEEP = NEWID INCLASS UCC RCOST1-RCOST45);
196   MERGE FMLY   (IN = INFAM)
197     EXPEND (IN = INEXP);
198   BY NEWID;
199   IF INEXP AND INFAM;
200
201   IF COST = . THEN
202     COST = 0;
203
204     ARRAY REPS_A(45) REPWT1-REPWT45;
205     ARRAY REPS_B(45) RCOST1-RCOST45;
206
207     DO i = 1 TO 45;
208       IF REPS_A(i) > 0
209         THEN REPS_B(i) = (REPS_A(i) * COST);
210       ELSE REPS_B(i) = 0;
211     END;
212     /* MERGE FMLY FILE WEIGHTS AND CHARACTERISTICS WITH EXPN/DTAB COSTS */
213     /* MULTIPLY COSTS BY WEIGHTS TO DERIVE WEIGHTED COSTS          */
214 RUN;

```

NOTE: There were 15827 observations read from the data set WORK.FMLY.  
NOTE: There were 854569 observations read from the data set WORK.EXPEND.  
NOTE: The data set WORK.PUBFILE has 854569 observations and 48 variables.  
NOTE: DATA statement used:  
real time 25.70 seconds  
cpu time 24.13 seconds

```

215
216
217 /*****
218 /* STEP3: CALCULATE POPULATIONS */
219 /* ----- */
220 /* 1 SUM ALL 45 WEIGHT VARIABLES TO DERIVE REPLICATE POPULATIONS */
221 /* 2 FORMAT FOR CORRECT COLUMN CLASSIFICATIONS */
222 /*****
223
224 PROC SUMMARY NWAY DATA=FMLY;
225   CLASS INCLASS / MLF;
226   VAR REPWT1-REPWT45;
227   FORMAT INCLASS $INC.;
228   OUTPUT OUT = POP (DROP = _TYPE_ _FREQ_) SUM = RPOP1-RPOP45;
229   /* SUMS WEIGHTS TO CREATE POPULATIONS PER REPLICATE */
230   /* FORMATS TO CORRECT COLUMN CLASSIFICATIONS */
231 RUN;
232

```

NOTE: There were 15827 observations read from the data set WORK.FMLY.  
NOTE: The data set WORK.POP has 11 observations and 46 variables.  
NOTE: PROCEDURE SUMMARY used:  
real time 0.95 seconds  
cpu time 0.10 seconds

```

233
234
235
236 /*****
237 /* STEP4: CALCULATE WEIGHTED AGGREGATE EXPENDITURES */
238 /* ----- */
239 /* 1 SUM THE 45 REPLICATE WEIGHTED EXPENDITURES TO DERIVE AGGREGATES */
240 /* 2 FORMAT FOR CORRECT COLUMN CLASSIFICATIONS AND AGGREGATION SCHEME */
241 /*****
242
243 PROC SUMMARY NWAY DATA=PUBFILE SUMSIZE=MAX COMPLETETYPES;
244   CLASS UCC INCLASS / MLF;
245   VAR RCOST1-RCOST45;
246   FORMAT UCC $AGGFMT. INCLASS $INC.;
247   OUTPUT OUT=AGG (DROP= _TYPE_ _FREQ_ RENAME=(UCC=LINE))
248     SUM = RCOST1-RCOST45;
249   /* SUMS WEIGHTED COSTS PER REPLICATE TO GET AGGREGATES */
250   /* FORMATS INCOME TO CREATE COMPLETE REPORTING COLUMN */
251   /* FORMATS EXPENDITURES TO CORRECT AGGREGATION SCHEME */
252 RUN;
253

```

NOTE: There were 854569 observations read from the data set WORK.PUBFILE.

and changes missing cost values to zero.

Weights the cost values by the 44 replicate weights and full sample weight. RCOST1-RCOST45 represents the weighted costs for each expenditure.

The weights in the FMLY file are summed to create replicate populations and the full US population for each income class.

Replicate populations (Repwt1-Repwt44) and the US population (Repwt45) are used as the denominator in means estimation.

Weighted costs are summed and formatted into income classes and by the aggregation scheme of the stub file. These aggregate expenditures will become the numerator in means estimation.

NOTE: The data set WORK.AGG has 5005 observations and 47 variables.

NOTE: PROCEDURE SUMMARY used:

real time 17.90 seconds  
cpu time 16.53 seconds

```
254  
255  
256  
257 /*****  
258 /* STEP5: CALCULATE MEAN EXPENDITURES */  
259 /* ----- */  
260 /* 1 READ IN POPULATIONS AND LOAD INTO MEMORY USING A 2 DIMENSIONAL ARRAY */  
261 /* POPULATIONS ARE ASSOCIATED BY INCLASS(i), AND REPLICATE(j) */  
262 /* 2 READ IN AGGREGATE EXPENDITURES FROM AGG DATASET */  
263 /* CALCULATE MEANS BY DIVIDING AGGREGATES BY CORRECT SOURCE POPULATIONS */  
264 /* 4 CALCULATE STANDARD ERRORS USING REPLICATE FORMULA */  
265 /*****  
266  
267  
268 DATA TAB1 (KEEP = LINE MEAN SE);  
269  
270 /* READS IN POP DATASET. TEMPORARY_LOADS POPULATIONS INTO SYSTEM MEMORY */  
271 ARRAY POP(01:11,45) TEMPORARY;  
272 IF N = 1 THEN DO i = 1 TO 11;  
273 SET POP;  
274 ARRAY REPS(45) RPOP1-RPOP45;  
275 DO j = 1 TO 45;  
276 POP{INCLASS,j} = REPS(j);  
277 END;  
278 END;  
279  
280 /* READS IN AGG DATASET AND CALCULATES MEANS BY DIVIDING BY POPULATIONS */  
281 SET AGG (KEEP = LINE INCLASS RCOST1-RCOST45);  
282 ARRAY AGGS(45) RCOST1-RCOST45;  
283 ARRAY AVGS(45) MEAN1-MEAN44 MEAN;  
284 DO k = 1 TO 45;  
285 IF AGGS(k) = . THEN AGGS(k) = 0;  
286 AVGS(k) = AGGS(k) / POP{INCLASS,k};  
287 END;  
288  
289 /* CALCULATES STANDARD ERRORS USING REPLICATE FORMULA */  
290 ARRAY RMNS(44) MEAN1-MEAN44;  
291 ARRAY DIFF(44) DIFF1-DIFF44;  
292 DO n = 1 TO 44;  
293 DIFF(n) = (RMNS(n) - MEAN)**2;  
294 END;  
295 SE = SQRT((1/44)*SUM(OF DIFF(*)));  
296 RUN;
```

NOTE: Character values have been converted to numeric values at the places given by:  
(Line):(Column).  
276:13 286:33

NOTE: There were 11 observations read from the data set WORK.POP.

NOTE: There were 5005 observations read from the data set WORK.AGG.

NOTE: The data set WORK.TAB1 has 5005 observations and 3 variables.

NOTE: DATA statement used:

real time 0.73 seconds  
cpu time 0.46 seconds

```
297  
298  
299  
300 /*****  
301 /* STEP6: TABULATE EXPENDITURES */  
302 /* ----- */  
303 /* 1 ARRANGE DATA INTO TABULAR FORM */  
304 /* 2 SET OUT DIARY POPULATIONS FOR POPULATION LINE ITEM */  
305 /* 3 INSERT POPULATION LINE INTO TABLE */  
306 /* 4 INSERT ZERO EXPENDITURE LINE ITEMS INTO TABLE FOR COMPLETENESS */  
307 /*****  
308  
309  
310 PROC TRANSPOSE DATA=TAB1 OUT=TAB2  
311 NAME = ESTIMATE PREFIX = INCLASS;  
312 BY LINE;  
313 VAR MEAN SE;  
314 /*ARRANGE DATA INTO TABULAR FORM */  
315 RUN;
```

This data step calculates means and standard errors:

Lines 271-278 reads in the column populations and stores them into temporary memory. Populations in memory are associated with INCLASS(i), and REPLICATE(j).

Line 281 reads in the aggregated expenditures.

Lines 284-287 calculates means by dividing the aggregate expenditures by the appropriate populations in memory as determined by INCLASS and REPLICATE.

Lines 292-295 calculates standard errors using the replicate weight formula.

Arranges output for tabulation. This will give a rough expenditure table.



```

NOTE: There were 5005 observations read from the data set WORK.TAB1.
NOTE: The data set WORK.TAB2 has 910 observations and 13 variables.
NOTE: PROCEDURE TRANSPOSE used:
      real time          0.03 seconds
      cpu time           0.01 seconds

316
317
318 PROC TRANSPOSE DATA=POP (KEEP = RPOP45) OUT=CUS
319   NAME = LINE PREFIX = INCLASS;
320   VAR RPOP45;
321   /* SET ASIDE POPULATIONS FROM DIARY */
322 RUN;

NOTE: There were 11 observations read from the data set WORK.POP.
NOTE: The data set WORK.CUS has 1 observations and 12 variables.
NOTE: PROCEDURE TRANSPOSE used:
      real time          0.03 seconds
      cpu time           0.00 seconds

323
324
325 DATA TAB3;
326   SET CUS TAB2;
327   IF LINE = 'RPOP45' THEN DO;
328     LINE = '100001';
329     ESTIMATE = 'N';
330   END;
331   /* INSERT POPULATION LINE ITEM INTO TABLE AND ASSIGN LINE NUMBER */
332 RUN;

NOTE: There were 1 observations read from the data set WORK.CUS.
NOTE: There were 910 observations read from the data set WORK.TAB2.
NOTE: The data set WORK.TAB3 has 911 observations and 13 variables.
NOTE: DATA statement used:
      real time          0.03 seconds
      cpu time           0.00 seconds

333
334
335 DATA TAB;
336   MERGE TAB3 STUBFILE;
337   BY LINE;
338   IF LINE NE '100001' THEN DO;
339     IF SURVEY = 'S' THEN DELETE;
340   END;
341   ARRAY CNTRL(11) INCLASS1-INCLASS11;
342   DO i = 1 TO 11;
343     IF CNTRL(i) = . THEN CNTRL(i) = 0;
344     IF SUM(OF CNTRL(*)) = 0 THEN ESTIMATE = 'MEAN';
345   END;
346   /* MERGE STUBFILE BACK INTO TABLE TO INSERT EXPENDITURE LINES */
347   /* THAT HAD ZERO EXPENDITURES FOR THE YEAR */
348 RUN;

NOTE: There were 911 observations read from the data set WORK.TAB3.
NOTE: There were 459 observations read from the data set WORK.STUBFILE.
NOTE: The data set WORK.TAB has 913 observations and 21 variables.
NOTE: DATA statement used:
      real time          0.17 seconds
      cpu time           0.00 seconds

349
350
351 PROC TABULATE DATA=TAB;
352   CLASS LINE / GROUPINTERNAL ORDER=DATA;
353   CLASS ESTIMATE;
354   VAR INCLASS1-INCLASS11;
355   FORMAT LINE $LBLFMT.;
356
357   TABLE (LINE * ESTIMATE), (INCLASS11 INCLASS1 INCLASS2 INCLASS3 INCLASS4
358     INCLASS5 INCLASS6 INCLASS7 INCLASS8 INCLASS9)
359   *SUM=' ' / RTS=25;
360   LABEL ESTIMATE=ESTIMATE LINE=LINE
361     INCLASS1='LESS THAN $5,000' INCLASS2='$5,000 TO $9,999'
362     INCLASS3='$10,000 TO $14,999' INCLASS4='$15,000 TO $19,999'

```

All populations are put into dataset POP. A special dataset, CUS, is created specifically for inserting the full US population into the output.

Population totals per income class are inserted into the output.

This data step further processes data by deleting unwanted table line items and inserting zero expenditure lines for items that are not reported. This is to get the output as close to publication tables as possible.

Tabulate the data. Line numbers are formatted to give titles.

```
363          INCLASS5='$20,000 TO $29,999' INCLASS6='$30,000 TO $39,999'
364          INCLASS7='$40,000 TO $49,999' INCLASS8='$50,000 TO $69,999'
365          INCLASS9='$70,000 AND OVER'   INCLASS11='TOTAL COMPLETE REPORTING';
366          OPTIONS NODATE NOCENTER NONUMBER LS=167;
367          WHERE LINE NE 'OTHER';
368          TITLE "DIARY EXPENDITURES FOR &YEAR BY INCOME BEFORE TAXES";
369
370 RUN;
```

**NOTE:** There were 911 observations read from the data set WORK.TAB.  
WHERE LINE not = 'OTHER';

**NOTE:** PROCEDURE TABULATE used:  
real time 0.71 seconds  
cpu time 0.06 seconds

## **VIII. DESCRIPTION OF THE SURVEY**

The CE program consists of two separate components, each with its own questionnaire and independent sample:

1) A Diary or recordkeeping survey completed by the sample CUs for two consecutive 1-week periods; the sample is surveyed across a 12-month period.

2) An Interview panel survey in which each CU in the sample is interviewed once every 3 months over five consecutive quarters to obtain a year's worth of data. New panels are initiated every month of the year.

Data are collected by the Bureau of the Census under contract with BLS. All data collected in both surveys are subject to Bureau of the Census confidentiality requirements, which prevent the disclosure of the CU member's identity.

The Diary survey collects expenditure data for items purchased each day over two one-week periods. This survey is designed to collect expenditure data for small, frequently purchased items such as food, beverages, food consumed away from home, gasoline, housekeeping supplies, nonprescription drugs and medical supplies, and personal care products and services. Respondents are not limited to recording expense for these items only.

A Household Characteristics Questionnaire is completed to record demographic and family characteristics data pertaining to age, sex, race, marital status, and CU relationships each CU member. Income information, such as wage, salary, unemployment compensation, child support, and alimony, as well as information on the employment of each CU member age 14 and over is collected. The expenditure collection instrument is a self-reporting, product-oriented diary on which respondents record all expenses for two consecutive one-week periods. It is divided by day of purchase and by broad classification of goods and services, a format designed to aid the respondents when recording daily purchases.

At the beginning of the two-week collection period, the interviewer uses the Household Characteristics Questionnaire to record demographic and characteristics information pertaining to CU members. Also at this time, a diary for the first week is left with the participating CU. At the completion of the first week, the interviewer picks up the diary, reviews the entries, clarifies any questions, and leaves a second diary for the following week. At the end of the second week, the diary is picked up and reviewed. At this point, the interviewer again uses the Household Characteristics Questionnaire to collect information on CU income, employment and earnings of CU members. These data, along with the other household characteristics information, permit data users to classify sample units for research purposes, and allow BLS to adjust population weights for CUs who do not cooperate in the survey.

## **IX. DATA COLLECTION AND PROCESSING**

In addition to its data collection duties, the Bureau of the Census is responsible for field editing and coding, consistency checking, quality control, and data transmittal to BLS. BLS performs additional review and editing procedures in preparing the data for publication and release.

### **A. BUREAU OF THE CENSUS ACTIVITIES**

Data collection activities have been conducted by the Bureau of the Census on a continuing basis since October 1979. Due to differences in format and design, the Diary Survey and the Interview

Survey data are collected and processed separately. Preliminary Diary survey data processing carried out by the Bureau of the Census includes keying the data from the questionnaires, clerical data editing, and correcting for inconsistencies in the collected data.

Upon completion by respondents, the diaries are sent from the regional offices to the Census National Processing Center (NPC) in Jeffersonville, IN. At the NPC, codes are applied to identify demographic characteristics and expenditures and inconsistencies and errors are identified and corrected.

After clerical processing at the NPC, the data are transmitted to the Census Processing Center in Suitland, MD, where they pass through basic quality checks of control counts, missing values, etc. The data are then electronically transmitted to BLS in Washington, DC.

## **B. BUREAU OF LABOR STATISTICS ACTIVITIES**

Upon receipt from the Bureau of the Census, the data undergo a series of computer edits that identify and correct irregularities and inconsistencies. Other adjustments apply appropriate sales taxes and derive CU weights based on BLS specifications. In addition, demographic and work experience items (except income) are imputed when missing or invalid. All data changes and imputations are identified with flags on the Interview data base.

Next, BLS conducts an extensive review to ensure that severe data aberrations are corrected. The review takes place in several stages: a review of counts, weighted means, and unweighted means by region; a review of family relationship coding inconsistencies; a review of selected extreme values for expenditure and income categories; and a verification of the various data transformations.

Cases of extreme data values are investigated by reviewing questionnaires on microfilm. Errors discovered through this procedure are corrected prior to release of the data.

Two major types of data adjustment routines--imputation and allocation--are carried out to improve and classify the estimates derived from the Diary Survey. Data imputation routines correct for missing or invalid entries among selected CU characteristic fields. No imputations are performed for income fields. Allocation routines are applied when respondents provided insufficient expenditure detail to meet tabulation requirements. For example, reports of combined expenditures for fuels and utilities are allocated among gas, electricity, and other items in this group. To analyze the effects of these adjustments, tabulations are made before and after the data adjustments.

## **X. SAMPLING STATEMENT**

### **A. SURVEY SAMPLE DESIGN**

Samples for the CE are national probability samples of households designed to be representative of the total U. S. civilian population. Eligible population includes all civilian noninstitutional persons.

The first step in sampling is the selection of primary sampling units (PSUs), which consist of counties (or parts thereof) or groups of counties. The set of sample PSUs used for the 2003 sample is composed of 105 areas. The design classifies the PSUs into four categories:

- 31 "A" certainty PSUs are Metropolitan Statistical Areas (MSA's) with a population greater than 1.5 million.
- 46 "B" PSUs, are medium-sized MSA's.
- 10 "C" PSUs are nonmetropolitan areas that are included in the CPI.

- 18 "D" PSUs are nonmetropolitan areas where only the urban population data will be included in the CPI.

The sampling frame (that is, the list from which housing units were chosen) for the 2003 survey is generated from the 1990 Population Census 100-percent-detail file. The sampling frame is augmented by new construction permits and by techniques used to eliminate recognized deficiencies in census coverage. All Enumeration Districts (ED's) from the Census that fail to meet the criterion for good addresses for new construction, and all ED's in nonpermit-issuing areas are grouped into the area segment frame.

To the extent possible, an unclustered sample of units is selected within each PSU. This lack of clustering is desirable because the sample size of the Diary Survey is small relative to other surveys, while the intraclass correlations for expenditure characteristics are relatively large. This suggests that any clustering of the sample units could result in an unacceptable increase in the within-PSU variance and, as a result, the total variance.

Each selected sample unit is requested to keep two 1-week diaries of expenditures over consecutive weeks. The earliest possible day for placing a diary with a household is predesignated with each day of the week having an equal chance to be the first of the reference week. The diaries are evenly spaced throughout the year. During the last 6 weeks of the year, however, the Diary Survey sample is supplemented to twice its normal size to increase the reporting of types of expenditures unique to the holidays.

## B. COOPERATION LEVELS

The annual target sample size at the United States level for the Diary Survey is 7,800 participating sample units. To achieve this target the total estimated work load is 11,275 sample units. This allows for refusals, vacancies, or nonexistent sample unit addresses.

Each participating sample unit selected is asked to keep two 1-week diaries. Each diary is treated independently, so response rates are based on twice the number of housing units sampled.

The response rate for the 2003 Diary Survey is 73.4% as shown below. This response rate refers to all diaries in the year.

| Number of<br>diaries designated<br>for the survey | Type B or C<br>ineligible cases | <i>Eligible housing unit interviews</i> |                       |                                |
|---|---------------------------------|---|-----------------------|--------------------------------|
|   |                                 | Number of<br>potential diaries          | Type A<br>nonresponse | Total respondent<br>interviews |
| 26,884  | 5,333                           | 21,551                                  | 5,723                 | 15,828                         |

Type B or C cases are housing units that are vacant, nonexistent, or ineligible for diary placement. Type A nonresponses are housing units which the interviewers were unable to contact or the respondents refused to participate in the survey. The response rate stated above is based only on the eligible housing units (i.e., the designated sample cases less type B and type C ineligible cases).

## C. WEIGHTING

Each CU included in the CE represents a given number of CUs in the U.S. population, which is considered to be the universe. The translation of sample families into the universe of families is known as weighting. However, since the unit of analysis for the CE is a CU, the weighting is performed at the CU level. Several factors are involved in determining the weight for each CU for which a diary is obtained. There are four basic steps in the weighting procedure:

- 1) The basic weight is assigned to an address and is the inverse of the probability of selection of the housing unit.
- 2) A weight control factor is applied to each diary if subsampling is performed in the field.
- 3) A noninterview adjustment is made for units where data could not be collected from occupied housing units. The adjustment is performed as a function of region, housing tenure, family size and race.
- 4) A final adjustment is performed to adjust the sample estimates to national population controls derived from the Current Population Survey. The adjustments are made based on both the CU's member composition and on the CU as a whole. The weight for the CU is adjusted for individuals within the CU to meet the controls for the 14 age/race categories, 4 regions, and 4 region/urban categories. The CU weight is also adjusted to meet the control for total number of CUs and total number of CU who own their living quarters. The weighting procedure uses an iterative process to ensure that the sample estimates will meet all the population controls.

NOTE: The weight for a consumer unit (CU) can be different for each week in which the CU participates in the survey as the CU may represent a different number of CUs with similar characteristics.

## **D. STATE IDENTIFIER**

Since the CE is not designed to produce state-level estimates, summing the consumer unit weights by state will not yield state population totals. A CU's basic weight reflects its probability of selection among a group of primary sampling units of similar characteristics. For example, sample units in an urban nonmetropolitan area in California may represent similar areas in Wyoming and Nevada. Among other adjustments, CUs are post-stratified nationally by sex-age-race. For example, the weights of consumer units containing a black male, age 16-24 in Alabama, Colorado, or New York, are all adjusted equivalently. Therefore, weighted population state totals will not match population totals calculated from other surveys that are designed to represent state data.

To summarize, the CE sample was not designed to produce precise estimates for individual states. Although state-level estimates that are unbiased in a repeated sampling sense can be calculated for various statistical measures, such as means and aggregates, their estimates will generally be subject to large variances. Additionally, a particular state-population estimate from the CE sample may be far from the true state-population estimate.

## **XI. INTERPRETING THE DATA**

Several factors should be considered when interpreting the expenditure data. The average expenditure for an item may be considerably lower than the expenditure by those CUs that purchased the item. The less frequently an item is purchased, the greater the difference between the average for all consumer units and the average of those purchasing. (See Section V.B. for ESTIMATION OF TOTAL AND MEAN EXPENDITURES). Also, an individual CU may spend more or less than the average, depending on its particular characteristics. Factors such as income, age of family members, geographic location, taste and personal preference also influence expenditures. Furthermore, even within groups with similar characteristics, the distribution of expenditures varies substantially.

Expenditures reported are the direct out-of-pocket expenditures. Indirect expenditures, which may be significant, may be reflected elsewhere. For example, rental contracts often include utilities. Renters with such contracts would record no direct expense for utilities, and therefore, appear to have no utility expenses. Employers or insurance companies frequently pay other costs. CUs with members whose

employers pay for all or part of their health insurance or life insurance would have lower direct expenses for these items than those who pay the entire amount themselves. These points should be considered when relating reported averages to individual circumstances.

## **XII. APPENDIX 1--GLOSSARY**

### Population

The civilian noninstitutional population of the United States as well as that portion of the institutional population living in the following group quarters: Boarding houses, housing facilities for students and workers, staff units in hospitals and homes for the aged, infirm, or needy, permanent living quarters in hotels and motels, and mobile home parks. Urban population is defined as all persons living in a Metropolitan Statistical Area (MSA) and in urbanized areas and urban places of 2,500 or more persons outside of MSA's. Urban, defined in this survey, includes the rural populations within an MSA. The general concept of an MSA is one of a large population nucleus together with adjacent communities which have a high degree of economic and social integration with that nucleus. Rural population is defined as all persons living outside of an MSA and within an area with less than 2,500 persons.

### Consumer unit (CU)

A consumer unit comprises either: (1) all members of a particular household who are related by blood, marriage, adoption, or other legal arrangements; (2) a person living alone or sharing a household with others or living as a roomer in a private home or lodging house or in permanent living quarters in a hotel or motel, but who is financially independent; or (3) two or more persons living together who use their income to make joint expenditures. Financial independence is determined by the three major expense categories: housing, food, and other living expenses. To be considered financially independent, at least two of the three major expense categories have to be provided entirely or in part by the respondent.

### Reference person

The first member mentioned by the respondent when asked to "Start with the name of the person or one of the persons who owns or rents the home." It is with respect to this person that the relationship of other CU members is determined.

### Income before taxes

The combined income earned by all CU members 14 years old or over during the 12 months preceding the interview. The components of income are: Wage and salary income, business income, farm income, Social Security income, Supplemental Security income, unemployment compensation, worker's compensation, public assistance, welfare, interest, dividends, pension income, income from roomers or boarders, other rental income, income from regular contributions, other income, and Food Stamps.

### Income after taxes

Income before taxes minus personal taxes which includes Federal income taxes, state and local income taxes, and other taxes.

### Complete income reporters

The distinction between complete and incomplete income reporters is based in general on whether the respondent provides values for major sources of income, such as wages and salaries, self-employment income, and social security income. Even complete income reporters may not provide a full accounting of all income from all sources. In the current survey, CUs that report across-the-board zero income are categorized as incomplete reporters.

### Geographic regions

Data are presented for four major regions - Northeast, Midwest, South, and West. CUs are classified by region according to the address at which the CU was residing during the time of their participation in the survey. The regions comprise the following States:

*Northeast* - Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont.

*Midwest* - Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin.

*South* - Alabama, Arkansas, Delaware, District of Columbia, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia.

*West* - Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming.

### **XIII. APPENDIX 2 -- UNIVERSAL CLASSIFICATION CODE (UCC) TITLES**

\*L denotes UCCs that could have negative values.

An underlined UCC represents either a new UCC or a deleted UCC. Please note that new UCCs may not be represented in all quarters. The quarter in which the addition (deletion) occurs is denoted by a leading superscript directly prior to the UCC code. For example, <sup>N(D)</sup>011(UCC) identifies a new (deleted) UCC beginning in Q011.

#### **A. EXPENDITURE UCC's ON EXPN FILE**

|        |  |
|--------|--|
| 001000 | Stocks, bonds, mutual funds  |
| 001100 | Precious metals  |
| 001200 | Miscellaneous investments  |
| 001400 | Employment counseling & fees   |
| 002000 | Savings account deposit  |
| 002100 | Insurance other than health, hospital, vehicle and property  |
| 002200 | Retirement plans   |
| 004000 | Contributions  |
| 004100 | Cash gifts   |
| 004190 | Gifts not specified  |
| 005000 | Alimony and child support  |
| 009000 | Mortgage payment including coop  |
| 009900 | Property assessment  |
| 010110 | Flour  |
| 010120 | Prepared flour mixes   |
| 010210 | Cereal   |
| 010310 | Rice   |
| 010320 | Pasta, cornmeal, other cereal products   |
| 020110 | White bread  |
| 020210 | Bread other than white   |
| 020310 | Fresh biscuits, rolls, muffins   |
| 020410 | Cakes and cupcakes, fresh and other, excluding frozen  |
| 020510 | Cookies, excluding refrigerated dough  |
| 020610 | Crackers, excluding crumbs   |
| 020620 | Bread and cracker products   |
| 020710 | Doughnuts, sweet rolls, coffeecakes, fresh and other, excluding frozen   |
| 020810 | Frozen refrigerated and canned bakery products, such as biscuits, rolls, muffins, cakes, cupcakes, doughnuts, pies, tarts, turnovers, and miscellaneous products, including dough and batter |



|        |  |
|--------|--|
| 020820 | Pies, tarts, turnovers, fresh and other, excluding frozen                              |
| 030110 | Ground beef, excluding canned  |
| 030210 | Chuck roast, excluding canned  |
| 030310 | Round roast, excluding canned  |
| 030410 | Other beef roast, excluding canned   |
| 030510 | Round steak, excluding canned  |
| 030610 | Sirloin steak, excluding canned  |
| 030710 | Other steak, excluding canned  |
| 030810 | Other beef, excluding canned   |
| 040110 | Bacon  |
| 040210 | Pork chops   |
| 040310 | Ham, excluding canned  |
| 040410 | Other pork, excluding canned   |
| 040510 | Pork sausage, excluding canned   |
| 040610 | Canned ham   |
| 050110 | Frankfurters, excluding canned   |
| 050210 | Bologna, liverwurst, salami, excluding canned  |
| 050310 | Other lunchmeat  |
| 050410 | Lamb and organ meats, excluding canned   |
| 050900 | Mutton, goat, game   |
| 060110 | Fresh and frozen whole chicken   |
| 060210 | Fresh or frozen chicken parts  |
| 060310 | Other poultry  |
| 070110 | Canned fish, seafood and shellfish   |
| 070230 | Fresh fish and shellfish   |
| 070240 | Frozen fish and shellfish  |
| 080110 | Eggs   |
| 090110 | Fresh milk all types   |
| 090210 | Cream  |
| 100110 | Butter   |
| 100210 | Cheese   |
| 100410 | Ice cream and related products, including frozen yogurt                                |
| 100510 | Other dairy products, including powdered milk, and fresh, canned and non-frozen yogurt |
| 110110 | Apples   |
| 110210 | Bananas  |
| 110310 | Oranges  |
| 110410 | Other fresh fruits   |
| 110510 | Citrus fruits excluding oranges  |
| 120110 | Potatoes   |
| 120210 | Lettuce  |
| 120310 | Tomatoes   |
| 120410 | Other fresh vegetables   |
| 130110 | Frozen orange juice  |
| 130121 | Frozen fruits  |
| 130122 | Frozen fruit juices  |
| 130211 | Fresh fruit juices   |
| 130212 | Canned/bottled fruit juices  |
| 130310 | Canned fruits  |
| 130320 | Dried fruits   |
| 140110 | Frozen vegetables  |
| 140210 | Canned beans   |
| 140220 | Canned corn  |
| 140230 | Miscellaneous canned vegetables, not collected in a separate UCC                       |
| 140310 | Other processed dried vegetables, such as squash, not collected in a separate UCC      |
| 140320 | Dried peas   |
| 140330 | Dried beans  |
| 140340 | Dried carrots, onions, leafy greens, and cabbage                                       |
| 140410 | Frozen vegetable juices  |
| 140420 | Fresh/canned vegetable juices  |
| 150110 | Candy and chewing gum  |

|        |   |
|--------|---|
| 150211 | Sugar   |
| 150212 | Artificial sweeteners   |
| 150310 | Jams, jellies, preserves and other sweets   |
| 160110 | Margarine   |
| 160211 | Fats and oils   |
| 160212 | Salad dressings   |
| 160310 | Non-dairy cream substitutes   |
| 160320 | Peanut butter   |
| 170110 | Cola drinks   |
| 170210 | Other carbonated drinks   |
| 170310 | Coffee, roasted   |
| 170410 | Coffee, instant or freeze dried   |
| 170510 | Noncarbonated fruit flavored drinks, including lemonade-non frozen  |
| 170520 | Tea   |
| 170530 | Other noncarbonated beverages and ice, excluding coffee and tea   |
| 180110 | Soup  |
| 180210 | Frozen meals  |
| 180220 | Frozen prepared food other than meals   |
| 180310 | Potato chips and other snacks   |
| 180320 | Nuts  |
| 180410 | Salt, other seasonings & spices   |
| 180420 | Olives, pickles, relishes   |
| 180510 | Sauces and gravies  |
| 180520 | Other condiments  |
| 180611 | Prepared salads   |
| 180612 | Prepared desserts   |
| 180620 | Baby food   |
| 180710 | Miscellaneous prepared foods including items such as canned meats (see UCC's 030110 - 030810, 040410 - 040510, 050110, 050310 - 050410, 060110 - 060310), fresh and canned ethnic foods, fresh and canned pizza |
| 180720 | Vitamin supplements   |
| 190111 | Lunch at Fast Food  |
| 190112 | Lunch at Full Service   |
| 190113 | Lunch at Vending Machine  |
| 190114 | Lunch at Employer   |
| 190115 | Lunch at Board  |
| 190116 | Lunch at Catered Affairs  |
| 190211 | Dinner at Fast Food   |
| 190212 | Dinner at Full Service  |
| 190213 | Dinner at Vending Machine   |
| 190214 | Dinner at Employer  |
| 190215 | Dinner at Board   |
| 190216 | Dinner at Catered Affairs   |
| 190311 | Snacks at Fast Food   |
| 190312 | Snacks at Full Service  |
| 190313 | Snacks at Vend Machine  |
| 190314 | Snacks at Employer  |
| 190315 | Snacks at Board   |
| 190316 | Snacks at Catered Affairs   |
| 190321 | Breakfast at Fast Food  |
| 190322 | Breakfast at Full Service   |
| 190323 | Breakfast at Vending Machine  |
| 190324 | Breakfast at Employer   |
| 190325 | Breakfast at Board  |
| 190326 | Breakfast at Catered Affairs  |
| 190911 | Board at Fast Food  |
| 190912 | Board at Full Service   |
| 190913 | Board at Vending Machine  |
| 190914 | Board at Employer   |
| 190915 | Board   |

|        |  |
|--------|--|
| 190916 | Board at Catered Affairs   |
| 190921 | Catered Affairs at Fast Food   |
| 190922 | Catered Affairs at Full Service  |
| 190923 | Catered Affairs at Vending Machine   |
| 190924 | Catered Affairs at Employer  |
| 190925 | Catered Affairs at Board   |
| 190926 | Catered Affairs  |
| 200111 | Beer and ale at home   |
| 200112 | Nonalcoholic beer  |
| 200210 | Whiskey at home  |
| 200310 | Wine at home   |
| 200410 | Other alcoholic beverages at home  |
| 200511 | Beer at Fast Food  |
| 200512 | Beer at Full Service   |
| 200513 | Beer at Vending Machine  |
| 200514 | Beer at Employer   |
| 200515 | Beer at Board  |
| 200516 | Beer at Catered Affairs  |
| 200521 | Wine at Fast Food  |
| 200522 | Wine at Full Service   |
| 200523 | Wine at Vending Machine  |
| 200524 | Wine at Employer   |
| 200525 | Wine at Board  |
| 200526 | Wine at Catered Affairs  |
| 200531 | Alcoholic Beverage Excluding Beer/Wine Fast Food   |
| 200532 | Alcoholic Beverage Excluding Beer/Wine Full Service  |
| 200533 | Alcoholic Beverage Excluding Beer/Wine Vending Machine   |
| 200534 | Alcoholic Beverage Excluding Beer/Wine at Employer   |
| 200535 | Alcoholic Beverage Excluding Beer/Wine at Board  |
| 200536 | Alcoholic Beverage Excluding Beer/Wine Catered Affairs   |
| 210110 | Rent of dwelling, including deposit and parking fees   |
| 210210 | Lodging away from home   |
| 210310 | Housing for someone at school  |
| 210900 | Ground or land rent  |
| 220000 | Capital improvements, not specified  |
| 220110 | Fire/extended coverage insurance   |
| 220120 | Homeowners insurance   |
| 220210 | Property taxes   |
| 220400 | Purchase of property or real estate  |
| 220510 | Capital improvements - commodities   |
| 220610 | Capital improvements - services  |
| 220900 | Parking, owned dwelling  |
| 230000 | Repair, maintenance, and improvements for built in dishwasher, garbage disposal, and range hood  |
| 230110 | Maintenance of property, including items such as ceiling repair, black top, brick, or masonry work, air conditioner repair, roof and awning repair, house painting, papering, chimney cleaning, electrical inspection, furnace inspection and repair, wiring, pest control, carpenter, plumber, etc... |
| 230120 | Installed hard surface flooring  |
| 230130 | Installed wall-to-wall carpet  |
| 230140 | Repair disposal, dishwasher, range hood  |
| 230900 | Maintenance fees, such as service repair of property fees, management fees, homeowners association dues, condo fees, and community pool fees   |
| 240110 | Paint, wallpaper and supplies  |
| 240120 | Tools and equipment for painting and papering  |
| 240210 | Lumber, paneling, tile, awning, glass, plywood, doors, windows, screens, siding, roofing and fencing materials   |
| 240220 | Blacktop and masonry materials   |
| 240310 | Plumbing supplies, fixtures and equipment  |
| 240320 | Electric heating and air conditioning supplies and equipment   |

|        |  |
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| 240900 | Soft surface floor covering  |
| 250110 | Fuel oil   |
| 250210 | Bottled or tank gas  |
| 250220 | Coal   |
| 250900 | Miscellaneous fuels, such as wood, kerosene, charcoal, oil mix for gas, lawnmower oil, lamp oil, duraflame log, and sterno                     |
| 260110 | Electricity  |
| 260210 | Utility - natural gas  |
| 270000 | Telephone service, including public pay phones   |
| 270210 | Water and sewerage maintenance   |
| 270310 | Cable/Satellite/Com Antenna Serv   |
| 270410 | Garbage, trash collection  |
| 270900 | Septic tank cleaning   |
| 270905 | Steam heat   |
| 280110 | Bathroom linens  |
| 280120 | Bedroom linens   |
| 280130 | Kitchen and dining room linens   |
| 280210 | Curtains and drapes, excluding shower  |
| 280220 | Slipcovers, decorative pillows, and cushions   |
| 280230 | Sewing materials for slipcovers, curtains, and other home handiwork  |
| 280900 | Other linens   |
| 290110 | Mattress and springs   |
| 290120 | Other bedroom furniture  |
| 290210 | Sofas  |
| 290310 | Living room chairs   |
| 290320 | Living room tables   |
| 290410 | Kitchen and dining room furniture  |
| 290420 | Infants' furniture   |
| 290430 | Patio, porch or outdoor furniture  |
| 290440 | Modular wall units, shelves or cabinets, or other living room, family or rec-room furniture including desks                                    |
| 300110 | Refrigerator, home freezer   |
| 300210 | Washers  |
| 300220 | Dryers   |
| 300310 | Stoves, ovens  |
| 300320 | Microwave ovens  |
| 300330 | Portable dishwashers   |
| 300410 | Window air conditioners  |
| 300900 | Miscellaneous household appliances   |
| 310110 | Black and white TV's, and combination of TV with other items   |
| 310120 | Color TV console and combinations of TV with other items, such as TV with VCR  |
| 310130 | Color TV (portable and table models) and combinations of portable model color TV with other items, such as TV with radio                       |
| 310210 | Video players, video recorders, video tape player, video tape recorder, video disc player, video camera receiver and recorder, and camcorder   |
| 310220 | Video cassettes, tapes and discs, laser discs, reels, prerecorded and blank video cassettes, video tapes, and diskettes                        |
| 310230 | Video game cartridges, TV computer games and software, Atari cartridges and supplies, computer joystick, games, and game cartridges            |
| 310311 | Radio, not installed in vehicles   |
| 310312 | Phonograph or record player  |
| 310313 | Tape recorder and player   |
| 310320 | Sound components, component systems, amplifiers, receivers, turn tables, tape decks, tuners, stereos, speakers, and compact disc sound systems |
| 310331 | Miscellaneous sound equipment  |
| 310332 | Sound equipment accessories  |
| 310334 | Satellite dishes   |
| 310340 | Records, tapes, CD's, needles, styli, and record clubs   |
| 310900 | Accessories for electronic equipment   |
| 320110 | Room-size rugs and other non-permanent floor coverings   |

320120 Venetian blinds, window shades and other window coverings  
 320130 Infants' equipment  
 320140 Laundry and cleaning equipment  
 320150 Outdoor equipment  
 320210 Clocks  
 320220 Lamps and other lighting fixtures  
 320231 Other household decorative items, including fireplace equipment and accessories  
 320232 Telephones and accessories  
 320310 Plastic dinnerware  
 320320 China and other dinnerware  
 320330 Stainless, silver and other flatware  
 320340 Glassware  
 320350 Silver serving pieces  
 320360 Serving pieces other than silver  
 320370 Nonelectric cookware  
 320380 Tableware, nonelectric kitchenware  
 320410 Lawnmowing equipment and other yard machinery, powered and nonpowered  
 320420 Power tools  
 320430 Other hardware, including curtain and drapery hardware, rope, portable ladders, sheds, non-permanent shelves and shelving  
 320511 Electric floor cleaning equipment  
 320512 Sewing machines  
 320521 Small electrical kitchen appliances  
 320522 Portable heating and cooling equipment  
 320610 Miscellaneous supplies and equipment, such as caulking compound, duct tape, carpet tape, carpet knife, bolts, screws, drill bits, door knobs, tool box, keys, mailbox, gutter screens, clamps, shelf brackets, tool table, work bench, etc...  
 320620 Permanent hard surface floor covering  
 320630 Landscaping items, such as grass, grass seed, trees, shrubs, plants, sod, and fork lift  
 320901 Office furniture for home use  
 320902 Non-powered tools  
 320903 Fresh flowers or potted plants  
 320904 Closet and storage items  
 320905 Miscellaneous household equipment and parts  
 320906 Electronic testing equipment  
 330110 Soaps and detergents, excluding hand soaps  
 330210 Other laundry and cleaning products  
 330310 Paper towels, napkins, toilet tissue, facial tissue  
 330410 Stationery, giftwrap and wrap accessories, greeting cards, pens, pencils, tape  
 330510 Miscellaneous household products, including paper, plastic and foil products  
 330610 Lawn and garden supplies, including outdoor plants  
 340110 Postage  
 340120 Delivery services  
 340210 Babysitting or other home care for children  
 340310 Housekeeping service, such as housekeeping, cooking, maid service, interior decorating, and carpet and upholstery cleaning services  
 340410 Gardening and lawn care services, such as mowing, tree services, fertilizing, and yard work  
 340510 Moving, storage, and freight express  
 340520 Non-clothing household laundry or dry cleaning not coin operated  
 340530 Non-clothing household laundry or dry cleaning - coin-operated  
 340610 Repair of television, radio, and sound equipment, excluding installed in vehicles  
 340620 Repair of household appliances; including stove, vacuum, washer, dryer, sewing machine, refrigerator, and calculator; excluding garbage disposal, range hood, and built-in dishwasher  
 340630 Furniture repair, refurbishing, or reupholstery  
 340901 Rental or repair of lawnmowing equipment and other yard machinery, power and non-power tools  
 340903 Miscellaneous home services and small repair jobs not already specified  
 340904 Rental of furniture  
 340906 Care for invalids, convalescents, handicapped or elderly persons in the CU

|        |  |
|--------|--|
| 340907 | Rental of household equipment items, such as refrigerators, home freezers, washers, microwave ovens, dishwashers, water cooler, stroller, china; excluding tools and lawn/garden equipment |
| 340908 | Rental of office equipment for non-business use, includes items such as calculators, typewriters, projectors, and other office machines.   |
| 340909 | Rental of TV or radio sound equipment  |
| 340913 | Repair and alterations of miscellaneous household equipment, furnishings, and textiles   |
| 350110 | Tenants' insurance   |
| 360110 | Men's suits  |
| 360120 | Men's sportcoats and tailored jackets  |
| 360210 | Men's coats, jackets, and furs   |
| 360311 | Men's underwear  |
| 360312 | Men's hosiery  |
| 360320 | Men's sleepwear/loungewear   |
| 360330 | Men's accessories  |
| 360340 | Men's sweaters and vests   |
| 360350 | Men's active sportswear  |
| 360410 | Men's shirts   |
| 360511 | Men's pants  |
| 360512 | Men's shorts and shorts sets, excluding athletic   |
| 360901 | Men's uniforms   |
| 370110 | Boys' coats, jackets, and furs   |
| 370120 | Boys' sweaters   |
| 370130 | Boys' shirts   |
| 370211 | Boys' underwear  |
| 370212 | Boys' sleepwear/loungewear   |
| 370213 | Boys' hosiery  |
| 370220 | Boys' accessories  |
| 370311 | Boys' suits, sportcoats, and vests   |
| 370312 | Boys' pants  |
| 370313 | Boys' shorts and shorts sets, excluding athletic   |
| 370901 | Boys' uniforms and active sportswear   |
| 380110 | Women's coats, jackets and furs  |
| 380210 | Women's dresses  |
| 380311 | Women's sportcoats and tailored jackets  |
| 380312 | Women's vests, sweaters, and sweater sets  |
| 380313 | Women's shirts, tops, and blouses  |
| 380320 | Women's skirts and culottes  |
| 380331 | Women's pants  |
| 380332 | Women's shorts and shorts sets, excluding athletic   |
| 380340 | Women's active sportswear  |
| 380410 | Women's sleepwear/loungewear   |
| 380420 | Women's undergarments  |
| 380430 | Women's hosiery  |
| 380510 | Women's suits  |
| 380901 | Women's accessories  |
| 380902 | Women's uniforms   |
| 390110 | Girls' coats, jackets, and furs  |
| 390120 | Girls' dresses and suits   |
| 390210 | Girls' sport coats, tailored jackets, shirts, blouses, sweaters, sweater sets, and vests   |
| 390221 | Girls' skirts, culottes, and pants   |
| 390222 | Girls' shorts and shorts sets, excluding athletic  |
| 390230 | Girls' active sportswear   |
| 390310 | Girls' undergarments and sleepwear/loungewear  |
| 390321 | Girls' hosiery   |
| 390322 | Girls' accessories   |
| 390901 | Girls' uniforms  |
| 400110 | Men's footwear   |
| 400210 | Boys' footwear   |
| 400220 | Girls' footwear  |

|        |   |
|--------|---|
| 400310 | Women's footwear  |
| 410110 | Infants' coats, jackets, and snowsuits  |
| 410120 | Infants' rompers, dresses, and sweaters   |
| 410130 | Infants' undergarments, including diapers   |
| 410140 | Infants' sleeping garments  |
| 410901 | Infants' accessories, hosiery, and footwear   |
| 420110 | Sewing material for making clothes  |
| 420120 | Sewing notions, patterns  |
| 430110 | Watches   |
| 430120 | Jewelry   |
| 430130 | Travel items, including luggage, and luggage carriers   |
| 440110 | Shoe repair and other shoe services   |
| 440120 | Apparel laundry and dry cleaning - coin-operated  |
| 440130 | Alteration, repair, tailoring of apparel and accessories  |
| 440140 | Clothing rental   |
| 440150 | Watch and jewelry repair  |
| 440210 | Apparel laundry and dry cleaning not coin operated  |
| 440900 | Clothing storage  |
| 450110 | New cars  |
| 450210 | New trucks, pick-ups, vans, or jeeps  |
| 450220 | New motorcycles, motor scooters, or mopeds  |
| 450310 | Lease payment (car lease)   |
| 450410 | Lease payment (truck/pick-up/van/jeep lease)  |
| 460110 | Used cars   |
| 460901 | Used trucks or vans   |
| 460902 | Used motorcycles, motor scooters, or mopeds   |
| 460903 | Used aircraft   |
| 470111 | Gasoline  |
| 470112 | Diesel fuel   |
| 470114 | Gasohol   |
| 470211 | Motor oil   |
| 470220 | Coolant/antifreeze, oil, brake & transmission fluids, additives, and radiator/cooling system protectant   |
| 480110 | Tires (new, used or recapped); replacement and mounting of tires, and belting   |
| 480212 | Vehicle products, such as wax, touch up paint, de-icer, protectant, polish, tar and bug remover, polish cloth, rubbing compound, auto freshener, etc...             |
| 480213 | Battery replacement, floor mats, seat covers, filter, brake parts, and other equipment, supplies, parts, and accessories for auto; boating supplies and accessories |
| 480214 | Vehicle audio equipment, excluding labor  |
| 490000 | Miscellaneous auto repair and servicing   |
| 490110 | Body work, painting, repair and replacement of upholstery, vinyl/convertible top, and glass   |
| 490211 | Clutch and transmission repair  |
| 490212 | Drive shaft and rear-end repair   |
| 490220 | Brake work, excluding brake adjustment  |
| 490231 | Steering or front end repair  |
| 490232 | Cooling system repair   |
| 490311 | Motor tune-up   |
| 490312 | Lubrication and oil changes   |
| 490313 | Front end alignment, wheel balance and rotation   |
| 490314 | Shock absorber replacement  |
| 490315 | Brake adjustment  |
| 490316 | Gas tank repair and replacement   |
| 490411 | Exhaust system repair   |
| 490412 | Electrical system repair  |
| 490413 | Motor repair and replacement  |
| 500110 | Vehicle insurance   |
| 520111 | Vehicle registration - state  |
| 520112 | Vehicle registration - local  |
| 520310 | Drivers' license  |
| 520410 | Vehicle inspection  |

520511 Auto rental, excluding trips  
 520521 Truck or van rental, excluding trips  
 520531 Parking fees at garages, meters, and lots, excluding fees that are costs of property ownership in home city  
 520541 Tolls  
 520550 Towing charges  
 520901 Docking and landing fees for boats and planes, boat ramp fees  
 520902 Rental of motorcycle, motor scooters, moped, etc., including mileage charges  
 520903 Rental of aircraft, including mileage charges  
 520904 Rental of non camper-type trailer, such as for boat or cycle  
 530110 Airline fares  
 530210 Intercity bus fares  
 530311 Intracity mass transit fares  
 530412 Taxi fares  
 530510 Intercity train fares  
 530901 Ship fares  
 530902 Private school bus  
 530903 Car/van pool & non-motorized transportation  
 540000 Prescription drugs and medicines  
 550110 Purchase of eye glasses or contact lenses, excluding exam fee  
 550210 Over-the-counter drugs  
 550310 Topicals and dressings, such as band aids, gauze, cotton balls/rolls  
 550320 Purchase of medical or surgical equipment for general use, such as thermometers, needles/syringes, ice bags, heating pads, (not including band aids, gauze, cotton rolls/balls)  
 550330 Purchase of supportive or convalescent medical equipment, such as crutches, wheelchairs, braces, and ace bandages  
 550340 Hearing aids  
 550410 Nonprescription vitamins  
 550900 Recreational drugs  
 560110 Physicians' services  
 560210 Dental services  
 560310 Eye exams, treatment or surgery, glass/lens service, glasses repaired  
 560330 Lab tests and x-rays  
 560400 Services by medical professionals other than physicians  
 570000 Hospital care not specified  
 570220 Care in convalescent in nursing home  
 570230 Other medical care service, such as ambulance service  
 570901 Rental of medical or surgical equipment for general use  
 570902 Repair of medical equipment  
 570903 Rental of supportive and convalescent equipment  
 580000 Hospital and health insurance not spec.  
 580110 Commercial health insurance  
 580210 Blue Cross or Blue Shield  
 580310 Health maintenance plans  
 580901 Medicare payments  
 590110 Newspapers (single copy and subscriptions)  
 590210 Magazines and periodicals (single copy and subscriptions)  
 590220 Books purchased through book clubs  
 590230 Books not purchased through book clubs  
 590900 Newsletters  
 600110 Outboard motor  
 600120 Unpowered boats, trailers  
 600130 Powered sports vehicles  
 600210 Ping pong, pool tables, other similar items, general sports equipment, and health and exercise equipment  
 600310 Bicycles  
 600410 Camping equipment  
 600420 Hunting and fishing equipment  
 600430 Winter sports equipment  
 600900 Water sports and miscellaneous sports equipment



610110 Toys, games, hobbies, tricycles, and battery powered riders  
610120 Playground equipment  
610130 Musical instruments and accessories  
610210 Film  
610220 Other photographic supplies  
610230 Photographic equipment  
610310 Pet food  
610320 Pets, pet supplies and medicine for pets  
610901 Fireworks  
610902 Souvenirs  
610903 Visual goods  
620111 Membership fees for country clubs, health clubs, swimming pools tennis clubs, social or other recreational organizations, civic, service, or fraternal organizations  
620112 Membership fees for credit card memberships  
620113 Membership fees for automobile service clubs  
620121 Fees for participant sports, such as golf, tennis, and bowling  
620211 Admission fees for entertainment activities, including lectures, movie, theatre, concert, opera or other musical series  
620221 Admission fees to sporting events  
620310 Fees for recreational lessons or other instructions  
620320 Photographer fees  
620330 Film processing  
620410 Pet services  
620420 Veterinarian expenses for pets  
620510 Miscellaneous fees for admissions  
620610 Miscellaneous entertainment services  
620710 Camp fees  
620810 Rental and repair of sports, photographic and music equipment, passport fees  
620912 Rental of video cassettes, tapes, and discs  
620913 Coin-operated pinball/electronic video games  
620915 Sport vehicle rental  
620925 Lotteries and Parimutuel Losses  
620926 Miscellaneous Fees  
630110 Cigarettes  
630210 Cigars, pipe tobacco, and other tobacco products  
630220 Smoking accessories  
630900 Marijuana  
640110 Hair care products  
640120 Non-electric articles for the hair  
640130 Wigs, hairpieces, and toupees  
640210 Oral hygiene products, articles  
640220 Shaving needs  
640310 Cosmetics, perfume, cologne, bath preparations, hand soap, face and body powder, skin care products, nail preparations, manicure and eye make-up implements and accessories  
640410 Deodorant, female hygiene products, miscellaneous personal care products and supplies  
640420 Electrical personal care appliances  
650110 Personal care services for females, including haircuts  
650210 Personal care services for males, including haircuts  
650900 Rental and repair of personal care appliances  
660000 School supplies., etc. - unspec., including reference books not in a set  
660110 School books, supplies, and equipment for college  
660210 School books, supplies, and equipment for elementary and high school  
660310 Encyclopedia and other sets of reference books  
660900 School books , supplies, and equipment for day care center, nursery school and other  
670110 Tuition for college  
670210 Tuition for elementary and high school  
670310 Other expenses for day care centers and nursery schools, including tuition  
670901 Tuition for other schools  
670902 Rentals of books and equipment, and other school-related expenses  
680110 Legal fees, excluding real estate closing costs

|        |  |
|--------|--|
| 680140 | Funeral, burial or cremation expenses  |
| 680210 | Safe deposit box rental  |
| 680220 | Charges for checking accounts and other banking services, excluding safe deposit |
| 680901 | Purchase and upkeep of cemetery lots or vaults                                   |
| 680902 | Accounting fees  |
| 680903 | Miscellaneous personal services, advertising, fines, duplicating services        |
| 690110 | Computers for non-business use, hardware and software excluding video games      |
| 690114 | Computer information services  |
| 690210 | Telephone answering devices  |
| 690220 | Calculators  |
| 690230 | Typewriters and other office machines for non-business use                       |
| 999000 | Home ownership expense not specified   |
| 999900 | Taxes not specified  |

NOTE: The following lists the UCCs necessary to derive expenditures for these "food away" items:

[1] for LUNCH

190111, 190112, 190113, 190114, 190115, 190116

[2] for DINNER

190211, 190212, 190213, 190214, 190215, 190216

[3] for SNACKS

190311, 190312, 190313, 190314, 190315, 190316

[4] for BREAKFAST

190321, 190322, 190323, 190324, 190325, 190326

[5] for CATERED AFFAIRS

190921, 190922, 190923, 190924, 190925, 190926

[6] for BOARD

190911, 190912, 190913, 190914, 190915, 190916

[7] for BEER

200511, 200512, 200513, 200514, 200515, 200516

[8] for WINE

200521, 200522, 200523, 200524, 200525, 200526

[9] for ALCOHOLIC BEVERAGES, EXCL. BEER AND WINE

200531, 200532, 200533, 200534, 200535, 200536

## B. INCOME AND RELATED UCC's ON DTAB FILE

\*L denotes UCC's could have negative values

|           |  |
|-----------|--|
| 800700    | Meals received as pay  |
| 800710    | Rent received as pay   |
| 800910    | Payroll deductions for government retirement                     |
| 800920    | Payroll deductions for railroad retirement                       |
| 800931    | Payroll deductions for private pensions                          |
| 800932    | Non-payroll deposit to individual retirement plan, such as IRA's |
| 800940    | Payroll deductions for social security                           |
| 900000    | Wages and salaries   |
| *L 900010 | Net business income  |

- \*L 900020 Net farm income
- 900030 Social security and railroad retirement income
- 900040 Pensions and annuities
- 900050 Dividends, royalties, estates, or trusts
- \*L 900060 Income from roomers and boarders
- \*L 900070 Other rental income
- 900080 Interest from saving accounts or bonds
- 900090 Supplemental security income
- 900100 Unemployment compensation
- 900110 Worker's compensation and veterans payments including education benefits
- 900120 Public assistance or welfare including money received from job training grants such as job corps
- 900131 Child support payments received
- 900132 Other regular contributions received including alimony
- 900140 Other income including money received from care of foster children, cash scholarships and fellowships or stipends not based on working
- 900150 Food stamps
- 910000 Lump sum payments from estates, trusts, royalties, alimony, child support, prizes or games of chance, or from persons outside of the CU
- 910010 Money from sale of household furnishings, equipment, clothing, jewelry, pets or other belongings, excluding the sale of vehicles or property
- 910020 Overpayment on social security
- 910030 Refund from insurance policies
- 910040 Refunds from property taxes
- 910041 Lump sum child support payments received
- 950000 Federal income tax
- \*L 950001 Federal income tax refunds
- 950010 State and local income tax
- \*L 950011 State and local income tax refunds
- 950021 Other taxes
- 950022 Personal property taxes
- \*L 950023 Other tax refunds
- \*L 980000 Income before taxes
- 980010 Family size
- 980020 Age of reference person
- 980030 Number of earners
- 980040 Number of vehicles
- 980050 Number of persons under 18
- 980060 Number of persons 65 and over
- \*L 980070 Income after taxes

The following UCC's contain values of 100 depending on whether the CU satisfies the condition. For example, if the CU owns the home, then UCC 980090, homeowner, will have a value of 100. These UCC's are used at BLS to compute percentages for the published tables.

- 980090 Percent homeowner
- 980210 Percent male reference person
- 980220 Percent female reference person
- 980230 Percent homeowner with mortgage
- 980240 Percent homeowner without mortgage
- 980250 Percent homeowner with mortgage not reported
- 980260 Percent renter
- 980270 Percent black reference person
- 980280 Percent non-black reference person
- 980290 Percent reference person with elementary education
- 980300 Percent reference person with high school education
- 980310 Percent reference person with college education
- 980320 Percent reference person with no education and other

## XIV. APPENDIX 3 -- UCC AGGREGATION

The Dstub file in the Programs folder on the CD shows the UCC aggregation used in the sample program. This aggregation scheme may also be found on our website at [www.bls.gov/cex](http://www.bls.gov/cex).

## XV. APPENDIX 4 -- FMLY AND MEMB VARIABLES ORDERED BY START POSITION

This appendix lists FMLY and MEMB variables in the order that they appear on the files. Sections III.E.1. CONSUMER UNIT (CU) CHARACTERISTICS AND INCOME FILE (FMLY) and III.E.2. MEMBER CHARACTERISTICS AND INCOME (MEMB) FILE contain detailed descriptions of these variables arranged on a functional basis.

### A. FMLY FILE

| Variable | Start Position | Variable | Start Position | Variable | Start Position |
|----------|----------------|----------|----------------|----------|----------------|
| NEWID    | 1              | EMPL_YP1 | 75             | FJSS_EDX | 176            |
| ADDFEDX  | 9              | EMPLTYP2 | 76             | FPVTX    | 177            |
| ADDFEDX_ | 17             | EMPL_YP2 | 77             | FPVTX_   | 185            |
| ADDOTHX  | 18             | FAM_SIZE | 78             | FREEMLX  | 186            |
| ADDOTHX_ | 26             | FAM_IZE  | 80             | FREEMLX_ | 194            |
| ADDSTAX  | 27             | FAM_TYPE | 81             | FRRX     | 195            |
| ADDSTAX_ | 35             | FAM__YPE | 82             | FRRX_    | 203            |
| AGE_REF  | 36             | FBSNSX   | 83             | FS_AMT1  | 204            |
| AGE_REF_ | 38             | FBSNSX_  | 91             | FS_AMT1_ | 212            |
| AGE2     | 39             | FD_STMPS | 92             | FS_AMT2  | 213            |
| AGE2_    | 41             | FD_S_MPS | 93             | FS_AMT2_ | 221            |
| BLS_URBN | 42             | FEDREFX  | 94             | FS_AMT3  | 222            |
| CUTENURE | 43             | FEDREFX_ | 102            | FS_AMT3_ | 230            |
| CUTE_URE | 44             | FFARMX   | 103            | FS_AMT4  | 231            |
| DESCRIP  | 45             | FFARMX_  | 111            | FS_AMT4_ | 239            |
| DESCRIP_ | 47             | FFEDTXX  | 112            | FS_AMT5  | 240            |
| DIVX     | 48             | FFEDTXX_ | 120            | FS_AMT5_ | 248            |
| DIVX_    | 56             | FGVX     | 121            | FS_AMT6  | 249            |
| EARNCOMP | 57             | FGVX_    | 129            | FS_AMT6_ | 257            |
| EARN_OMP | 58             | FINCAFTX | 130            | FS_AMT7  | 258            |
| EARNX    | 59             | FINC_FTX | 138            | FS_AMT7_ | 266            |
| EARNX_   | 67             | FINCBEFX | 139            | FS_DATE1 | 276            |
| EDUC_REF | 68             | FINC_EFX | 147            | FS_D_TE1 | 284            |
| EDUC0REF | 70             | FINLWT21 | 148            | FS_DATE2 | 285            |
| EDUCA2   | 71             | FIRAX    | 159            | FS_D_TE2 | 293            |
| EDUCA2_  | 73             | FIRAX_   | 167            | FS_DATE3 | 294            |
| EMPLTYP1 | 74             | FJSSDEDX | 168            | FS_D_TE3 | 302            |

| Variable | Start Position | Variable | Start Position | Variable | Start Position |
|----------|----------------|----------|----------------|----------|----------------|
| FS_DATE4 | 303            | OTHINX   | 499            | TYPOWND  | 642            |
| FS_D_TE4 | 311            | OTHINX_  | 507            | TYPOWND_ | 643            |
| FS_DATE5 | 312            | OTHRECX  | 508            | UNEMPX   | 644            |
| FS_D_TE5 | 320            | OTHRECX_ | 516            | UNEMPX_  | 652            |
| FS_DATE6 | 321            | OTHREFX  | 517            | VEHQ     | 653            |
| FS_D_TE6 | 329            | OTHREFX_ | 525            | VEHQ_    | 655            |
| FS_DATE7 | 330            | OTHRNTX  | 526            | WEEKI    | 656            |
| FS_D_TE7 | 338            | OTHRNTX_ | 534            | WEEKI_   | 657            |
| FS_MTHI  | 348            | PENSIONX | 535            | WEEKN    | 658            |
| FS_MTHI_ | 350            | PENS_ONX | 543            | WELFRX   | 659            |
| FSS_RRX  | 351            | PERSLT18 | 544            | WELFRX_  | 667            |
| FSS_RRX_ | 359            | PERS_T18 | 546            | WHYNWRK1 | 668            |
| FSTATXX  | 360            | PERSOT64 | 547            | WHYN_RK1 | 669            |
| FSTATXX_ | 368            | PERS_T64 | 549            | WHYNWRK2 | 670            |
| FSUPPX   | 369            | PERSTAX  | 550            | WHYN_RK2 | 671            |
| FSUPPX_  | 377            | PERSTAX_ | 558            | WK_WRKD1 | 672            |
| FWAGEX   | 378            | PICK_UP  | 559            | WK_W_KD1 | 674            |
| FWAGEX_  | 386            | OCCULIS1 | 561            | WK_WRKD2 | 675            |
| HRSPRWK1 | 387            | OCCU_IS1 | 563            | WK_W_KD2 | 677            |
| HRSP_WK1 | 390            | POPSIZE  | 564            | WRKRSX   | 678            |
| HRSPRWK2 | 391            | PTAXREFX | 565            | WRKRSX_  | 686            |
| HRSP_WK2 | 394            | PTAX_EFX | 573            | WTREP01  | 687            |
| INC_RNKU | 395            | RACE2    | 574            | WTREP02  | 698            |
| INC__NKU | 404            | RACE2_   | 575            | WTREP03  | 709            |
| INSREFX  | 405            | REC_FS   | 576            | WTREP04  | 720            |
| INSREFX_ | 413            | REC_FS_  | 577            | WTREP05  | 731            |
| INTX     | 414            | REF_RACE | 578            | WTREP06  | 742            |
| INTX_    | 422            | REF__ACE | 579            | WTREP07  | 753            |
| JFS_AMT  | 423            | REGION   | 580            | WTREP08  | 764            |
| JFS_AMT_ | 431            | REGION_  | 581            | WTREP09  | 775            |
| JGRCFDMV | 432            | RESPSTAT | 582            | WTREP10  | 786            |
| JGRC_DMV | 438            | RESP_TAT | 583            | WTREP11  | 797            |
| JGRCFDWK | 439            | ROOMX    | 584            | WTREP12  | 808            |
| JGRC_DWK | 445            | ROOMX_   | 592            | WTREP13  | 819            |
| JGROCYMV | 446            | SALEX    | 593            | WTREP14  | 830            |
| JGRO_YMV | 452            | SALEX_   | 601            | WTREP15  | 841            |
| JGROCYWK | 453            | SEX_REF  | 602            | WTREP16  | 852            |
| JGRO_YWK | 459            | SEX_REF_ | 603            | WTREP17  | 863            |
| LUMPX    | 460            | SEX2     | 604            | WTREP18  | 874            |
| LUMPX_   | 468            | SEX2_    | 605            | WTREP19  | 885            |
| MARITAL1 | 469            | SMSASTAT | 606            | WTREP20  | 896            |
| MARI_AL1 | 470            | SSREFX   | 607            | WTREP21  | 907            |
| NO_EARNR | 471            | SSREFX_  | 615            | WTREP22  | 918            |
| NO_E_RNR | 473            | STATREFX | 616            | WTREP23  | 929            |
| NONERNX  | 474            | STAT_EFX | 624            | WTREP24  | 940            |
| NONERNX_ | 482            | STRTDAY  | 625            | WTREP25  | 951            |
| OCCEXPNX | 483            | STRTMNTH | 627            | WTREP26  | 962            |
| OCCE_PNX | 491            | STRTYEAR | 629            | WTREP27  | 973            |
| OCCULIS2 | 492            | TAXPROPX | 633            | WTREP28  | 984            |
| OCCU_IS2 | 494            | TAXP_OPX | 641            | WTREP29  | 995            |

| Variable | Start Position | Variable | Start Position | Variable | Start Position |
|----------|----------------|----------|----------------|----------|----------------|
| WTREP30  | 1006           | SEAFOOD  | 1267           | HHID_    | 1513           |
| WTREP31  | 1017           | EGGS     | 1279           | CHILDAGE | 1514           |
| WTREP32  | 1028           | MILKPROD | 1291           | CHIL_AGE | 1515           |
| WTREP33  | 1039           | OTHDAIRY | 1303           | INCLASS  | 1516           |
| WTREP34  | 1050           | FRSHFRUT | 1315           | STATE    | 1518           |
| WTREP35  | 1061           | FRSHVEG  | 1327           | STATE_   | 1520           |
| WTREP36  | 1072           | PROCFRUT | 1339           | CHDOTHX  | 1521           |
| WTREP37  | 1083           | PROCVG   | 1351           | CHDOTHX_ | 1529           |
| WTREP38  | 1094           | SWEETS   | 1363           | ALIOTHX  | 1530           |
| WTREP39  | 1105           | NONALBEV | 1375           | ALIOTHX_ | 1538           |
| WTREP40  | 1116           | OILS     | 1387           | CHDLMPX  | 1539           |
| WTREP41  | 1127           | MISCFOOD | 1399           | CHDLMPX_ | 1547           |
| WTREP42  | 1138           | FOODAWAY | 1411           | POVERTY  | 1548           |
| WTREP43  | 1149           | ALCBEV   | 1423           | POVERTY_ | 1549           |
| WTREP44  | 1160           | SMOKSUPP | 1435           | POVLEV   | 1550           |
| FOODTOT  | 1171           | PET_FOOD | 1447           | POVLEV_  | 1558           |
| FOODHOME | 1183           | PERSPROD | 1459           | INC_RANK | 1559           |
| CEREAL   | 1195           | PERSSERV | 1471           | INC__ANK | 1568           |
| BAKEPROD | 1207           | DRUGSUPP | 1483           | CUID     | 1569           |
| BEEF     | 1219           | HOUSKEEP | 1495           | HORREF1  | 1576           |
| PORK     | 1231           | HH_CU_Q  | 1507           | HORREF1_ | 1577           |
| OTHMEAT  | 1243           | HH_CU_Q_ | 1509           | HORREF2  | 1578           |
| POULTRY  | 1255           | HHID     | 1510           | HORREF2_ | 1579           |

## B. MEMB FILE

| Variable | Start Position | Variable | Start Position | Variable | Start Position |
|----------|----------------|----------|----------------|----------|----------------|
| NEWID    | 1              | CU_CODE1 | 70             | MARITAL  | 133            |
| AGE      | 9              | EDUCA    | 72             | MEMBNO   | 135            |
| AGE_     | 11             | EDUCA_   | 74             | OCCULIST | 137            |
| ANFEDTXX | 12             | EMPLTYPE | 75             | OCCU_IST | 139            |
| ANFE_TXX | 20             | EMPL_YPE | 76             | PVTX     | 142            |
| ANGVX    | 21             | FARMX    | 77             | PVTX_    | 150            |
| ANGVX_   | 29             | FARMX_   | 85             | RRX      | 153            |
| ANPVTX   | 30             | FEDTXX   | 86             | RRX_     | 161            |
| ANPVTX_  | 38             | FEDTXX_  | 94             | SCHLNCHQ | 162            |
| ANRRX    | 39             | GROSPAYX | 95             | SCHL_CHQ | 164            |
| ANRRX_   | 47             | GROS_AYX | 103            | SCHLNCHX | 165            |
| ANSTATXX | 48             | GVX      | 104            | SCHL_CHX | 173            |
| ANST_TXX | 56             | GVX_     | 112            | SEX      | 174            |
| ANYRAIL  | 57             | HRSPERWK | 113            | SLFEMPSS | 176            |
| ANYRAIL_ | 58             | HRSP_RWK | 116            | SLFE_PSS | 182            |
| ANYSSINC | 59             | IRAX     | 117            | SS_RRX   | 183            |
| ANYS_INC | 60             | IRAX_    | 125            | SS_RRX_  | 191            |
| BSNSX    | 61             | JSSDEDX  | 126            | STA_SUPP | 192            |
| BSNSX_   | 69             | JSSDEDX_ | 132            | STA__UPP | 193            |

| Variable | Start Position | Variable | Start Position | Variable | Start Position |
|----------|----------------|----------|----------------|----------|----------------|
| STATXX   | 194            | SOCRRX_  | 241            | RC_BLACK | 256            |
| STATXX_  | 202            | ARM_FORC | 242            | RC_B_ACK | 257            |
| SUPPX    | 203            | ARM__ORC | 243            | RC_NATAM | 258            |
| SUPPX_   | 211            | IN_COLL  | 244            | RC_N_TAM | 259            |
| US_SUPP  | 212            | IN_COLL_ | 245            | RC_ASIAN | 260            |
| US_SUPP_ | 213            | MEDICARE | 246            | RC_A_IAN | 261            |
| WAGEX    | 214            | MEDI_ARE | 247            | RC_PACIL | 262            |
| WAGEX_   | 222            | PAYPERD  | 248            | RC_P_CIL | 263            |
| WHYNOWRK | 223            | PAYPERD_ | 249            | RC_OTHER | 264            |
| WHYN_WRK | 224            | HORIGIN  | 250            | RC_O_HER | 265            |
| WKS_WRKD | 225            | HISPANIC | 251            | RC_DK    | 266            |
| WKS__RKD | 227            | HISP_NIC | 252            | RC_DK_   | 267            |
| SS_RRQ   | 228            | MEMBRACE | 253            | ASIAN    | 268            |
| SS_RRQ_  | 232            | RC_WHITE | 254            | ASIAN_   | 269            |
| SOCRRX   | 233            | RC_W_ITE | 255            |          |                |

## APPENDIX 5--PUBLICATIONS AND DATA RELEASES FROM THE CONSUMER EXPENDITURE SURVEY

|   |  |
|---|--|
| Consumer Expenditures in 2003, (expected in 2005)         | Consumer unit income and expenditures, integrated data from Diary and Interview Surveys, classified by consumer unit characteristics. 10 tables.   |
| Consumer Expenditures in 2002, Report 974 (2004)          | Consumer unit income and expenditures, integrated data from Diary and Interview Surveys, classified by consumer unit characteristics. 10 tables.   |
| Consumer Expenditure Survey Anthology, Report 967 (2003)  | A collection of analytical and methodological articles using Consumer Expenditure Survey data.   |
| Consumer Expenditures in 2001, Report 966 (2003)          | Consumer unit income and expenditures, integrated data from Diary and Interview Surveys, classified by consumer unit characteristics. 10 tables. Available on request (202)691-6900.                           |
| Consumer Expenditure Survey, 2000-2001, Report 969 (2003) | Consumer unit income and expenditures, integrated data from Interview and Diary Surveys, classified by consumer unit characteristics: one way and cross tabulations, relative and aggregate shares. 64 tables. |
| Consumer Expenditures in 2000, Report 958 (2002)          | Consumer unit income and expenditures, integrated data from Diary and Interview Surveys, classified by consumer unit characteristics. 10 tables. Available on request (202)691-6900.                           |
| Consumer Expenditure Survey, 1998-99, Report 955          | Consumer unit income and expenditures, integrated data from Interview and Diary Surveys, classified by consumer unit characteristics: one way and cross tabulations, relative and aggregate shares. 64 tables. |
| Consumer Expenditures in 1999, Report 949 (2001)          | Consumer unit income and expenditures, integrated data from Diary and Interview Surveys, classified by consumer unit characteristics. 10 tables. Available on request (202)691-6900.                           |
| Consumer Expenditures in 1998, Report 940 (2000)          | Consumer unit income and expenditures, integrated data from Diary and Interview Surveys, classified by consumer unit characteristics. 10 tables. Available on request (202)691-6900.                           |

For information on the availability of prior publications, please contact us at (202) 691-6900 or e-mail us at [cexinfo@bls.gov](mailto:cexinfo@bls.gov) .



## CONSUMER EXPENDITURE SURVEY DATA ON THE INTERNET

Commonly-requested CE data tables can be found on-line at <http://www.bls.gov/cex/>. The following One and Two-year Tables of integrated Diary and Interview data are available under the [Tables Created by BLS](#) heading:

### One Year Tables

*Standard Tables* from 1984-2003  
*Expenditure Shares Tables* from 1998-2003  
*Aggregate Expenditure Shares Tables* from 1998-2003

### Two Year Tables

*Cross-Tabulated Tables* from 1986-2003  
*Metropolitan Statistical Area Tables* from 1986-2003  
*Region Tables* from 1998-2003  
*High Income Tables* from 1998-2003  
*Multi-Year Tables* for 1984-1992 and 1993-2003

## FAX ON DEMAND - FAXSTAT

FAXSTAT contains information and data that may be faxed to users from a touch-tone phone 24 hours a day -- 7 days a week. To receive FAXSTAT transmissions dial (202) 691-6325 and follow the voice prompts. CE data that are accessible on FAXSTAT are for the most recent year available

## CD-ROMS

CE microdata on CD-Rom are available from the Bureau of Labor Statistics for 1972-73, 1980-81, 1990-91, 1992-93, and for each individual year from 1994-2003. The 1980-81 through 2003 releases contain Interview and Diary data, while the 1972-73 CD includes Interview data only. The 1980-81, and the 1990 files (of the 1990-91 CD) include selected EXPN data, while the 1991 files (from the 1990-91 CD) and the 1992-93 CD do not. In addition to the Interview and Diary data, the CDs from 1994-2003 include the complete collection of EXPN files. A 1984-94 "multi-year" CD that presents Interview FMLY file data is also available. In addition to the microdata, the CD's also contain the same integrated Diary and Interview tabulated data (1984-present) that are found on the Consumer Expenditure Survey web site (<http://www.bls.gov/cex>).

## **XVII. INQUIRIES, SUGGESTIONS, AND COMMENTS**

If you have any questions, suggestions, or comments about the survey, the microdata, or its documentation please call (202) 691-6900 or email [cexinfo@bls.gov](mailto:cexinfo@bls.gov) .

Written suggestions and comments should be forwarded to:

Division of Consumer Expenditure Surveys  
Branch of Information and Analysis  
Bureau of Labor Statistics, Room 3985  
2 Massachusetts Ave. N.E.  
Washington, DC. 20212-0001

The Bureau of Labor Statistics will use these responses in planning future releases of the microdata files.