## 1997 DIARY SURVEY PUBLIC USE MICRODATA DOCUMENTATION

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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, bulletins, articles in the Monthly Labor Review, and on diskettes. Tabulated CE data are also available on the Internet and by facsimile transmission (see Section XVI. Appendix 5). The microdata are available on compact disk-ROM (CD-ROM).

These microdata files present detailed expenditure and income data for the Diary component of the CE for 1997. 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 1997 from the Diary survey, integrated with data from the Interview survey, are published in *Consumer Expenditures in 1997 Report 927 (1999)*. 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, 1997".

## II. CHANGES FROM THE 1996 MICRODATA FILES

- 1) The following UCCs have been added to the EXPN files in Q971
  - 180720 Vitamin supplements.
  - 550410 Nonprescription vitamins.
- 2) The following UCC's have undergone content changes in Q971
  - 180710 Miscellaneous prepared foods

    Vitamin supplements are no longer mapped to this UCC.
  - 550210 Over-the-counter drugs

    Nonprescription vitamins are no longer mapped to this UCC.
  - 620911 Miscellaneous fees and parimutual losses.

    Fishing licenses and pet licenses are no longer mapped to this UCC.
  - 620121 Fees for participant sports
    Fishing licenses are now mapped to this UCC.
  - 620410 Pet services

    Pet licenses are now mapped to this UCC.

3) The following PUBFLAG values are for the UCCs added in Q971

PUBFLAG
UCC values
180720 2
550410 2

## III. FILE INFORMATION

Since the 1996 release, the microdata on the CD-ROM have been available as SAS data sets or ASCII files. (1996 marked the year for which microdata were no longer offered on magnetic tape.)

The 1997 Diary release contains four sets of Diary data files (FMLY, MEMB, EXPN, DTAB) and four 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 four processing files enhance computer processing and tabulation of data, and provide descriptive information on item codes. The four processing files are: a sample table aggregation file (AGGD), a sample table label file (LABD), a Universal Classification Codes file (UCCD), and a file (SAMPLD) containing the sample program (Section VII.A.) The processing files are further explained in Section III.E.5. PROCESSING FILES.

An Adobe Acrobat PDF version of this sample program documentation can be found in the *X:\Document* folder of the CD-ROM. The PDF file is named *Drydoc97.pdf*. Adobe Acrobat Reader is required to read and print this file. The reader is provided in the *X:\Document* folder of the compact disk and can be loaded onto your system by following the guidelines in the *Readme.1st* file on the root directory. Adobe Acrobat Reader is a shareware product.

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 ASCII data set names are as follows: (where "X" references the designated drive for your CD)

```
X:\DIARY97\FMLYD971.txt (Diary FMLY file for first quarter, 1997)
X:\DIARY97\EXPND971.txt (Diary MEMB file for first quarter, 1997)
X:\DIARY97\EXPND971.txt (Diary EXPN file for first quarter, 1997)
X:\DIARY97\DTABD971.txt (Diary DTAB file for first quarter, 1997)
X:\DIARY97\FMLYD972.txt (etc.)
X:\DIARY97\MEMBD972.txt
X:\DIARY97\DTABD972.txt
X:\DIARY97\DTABD972.txt
X:\DIARY97\FMLYD973.txt
X:\DIARY97\MEMBD973.txt
X:\DIARY97\EXPND973.txt
X:\DIARY97\DTABD973.txt
X:\DIARY97\DTABD973.txt
X:\DIARY97\FMLYD974.txt
X:\DIARY97\FMLYD974.txt
X:\DIARY97\MEMBD974.txt
```

```
X:\DIARY97\EXPND974.txt
X:\DIARY97\DTABD974.txt
X:\DIARY97\AGGD97.txt
X:\DIARY97\LABELD97.txt
X:\DIARY97\UCCD97.txt
X:\DIARY97\SAMPLD97.txt
```

#### The SAS data set names are as follows:

```
X:\DIARY97\FMLD971.sd2
                        (Diary FMLY file for first quarter, 1997)
X:\DIARY97\MEMD971.sd2
                        (Diary MEMB file for first quarter, 1997)
X:\DIARY97\EXPD971.sd2
                        (Diary EXPN file for first quarter, 1997)
X:\DIARY97\DTBD971.sd2
                        (Diary DTAB file for first quarter, 1997)
X:\DIARY97\FMLD972.sd2
                        (etc.)
X:\DIARY97\MEMD972.sd2
X:\DIARY97\EXPD972.sd2
X:\DIARY97\DTBD972.sd2
X:\DIARY97\FMLD973.sd2
X:\DIARY97\MEMD973.sd2
X:\DIARY97\EXPD973.sd2
X:\DIARY97\DTBD973.sd2
X:\DIARY97\FMLD974.sd2
X:\DIARY97\MEMD974.sd2
X:\DIARY97\EXPD974.sd2
X:\DIARY97\DTBD974.sd2
X:\DIARY97\AGGD97.sd2
X:\DIARY97\LABELD97.sd2
X:\DIARY97\UCCD97.sd2
X:\DIARY97\SAMPLD97.sd2
```

#### 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:

| ASCII data set | SAS data set | LRECL | Record Count |
|----------------|--------------|-------|--------------|
| FMLYD971.txt   | FMLD971.sd2  | 1549  | 2836         |
| MEMBD971.txt   | MEMD971.sd2  | 247   | 7159         |
| EXPND971.txt   | EXPD971.sd2  | 40    | 119109       |
| DTABD971.txt   | DTBD971.sd2  | 28    | 45010        |
| FMLYD972.txt   | FMLD972.sd2  | 1549  | 2671         |
| MEMBD972.txt   | MEMD972.sd2  | 247   | 6944         |
| EXPND972.txt   | EXPD972.sd2  | 40    | 118081       |
| DTABD972.txt   | DTBD972.sd2  | 28    | 42289        |
| FMLYD973.txt   | FMLD973.sd2  | 1549  | 2606         |
| MEMBD973.txt   | MEMD973.sd2  | 247   | 6673         |
| EXPND973.txt   | EXPD973.sd2  | 40    | 108024       |
| DTABD973.txt   | DTBD973.sd2  | 28    | 41077        |
| FMLYD974.txt   | FMLD974.sd2  | 1549  | 3669         |
| MEMBD974.txt   | MEMD974.sd2  | 247   | 9369         |
| EXPND974.txt   | EXPD974.sd2  | 40    | 149473       |
| DTABD974.txt   | DTBD974.sd2  | 28    | 56792        |

#### 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 EDUCOREF.

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(Y971) indicates the variable is deleted starting with the data file of the first quarter of 1997.

\*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 quarterly 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, 0000001 through 9999999) uniquely identify the CU. Digit 8 is the week number, 1 or 2 | 1              | NUM(8)  |
|          | BLS derived   |                |         |
| HH_CU_Q  | Count of CUs in this household  | 1507           | NUM(2)  |
|          | BLS derived   |                |         |
| 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.  | 1510           | NUM(3)  |
|          | BLS derived   |                |         |
| HHID_    |   | 1513           | CHAR(1) |
| WEEKI    | Week of the Diary   | 656            | CHAR(1) |

## CODED

1 First week Diary 2 Second week Diary

## Census derived

| WEEKI_   |  | 657 | CHAR(1) |
|----------|--|-----|---------|
| WEEKN    | Number of Diary weeks surveyed, 1 or 2   | 658 | NUM(1)  |
|          | BLS derived  |     |         |
| STRTDAY  | Diary start date - date  | 625 | CHAR(2) |
|          | Cover 19   |     |         |
| STRTMNTH | Diary start date - month   | 627 | CHAR(2) |
|          | Cover 19   |     |         |
| STRTYEAR | Diary start date - year  | 629 | CHAR(4) |
|          | Cover 19   |     |         |
| PICK_UP  | Final interview status CODED 01 Diary placed or completed 03 Temporarily absent during ENTIRE reference period | 559 | CHAR(2) |
|          | Cover 20   |     |         |

# b. <u>CU CHARACTERISTICS</u>

|          |   | START   |          |  |
|----------|---|---------|----------|--|
| VARIABLE | ITEM DESCRIPTION                                  | POSITIO | N FORMAT |  |
| REGION   | Region CODED 1 Northeast 2 Midwest 3 South 4 West | 580     | CHAR(1)  |  |
|          | BLS derived                                       |         |          |  |
| REGION_  |   | 581     | CHAR(1)  |  |
| BLS_URBN | Urban/Rural<br>CODED<br>1 Urban<br>2 Rural        | 42      | CHAR(1)  |  |
|          | BLS derived                                       |         |          |  |
| POPSIZE  | Population size of the PSU                        | 564     | CHAR(1)  |  |

## CODED

- 1 More than 4 million
- 2 1.20-4 million
- 3 0.33-1.19 million
- 4 125 329.9 thousand
- 5 Less than 125 thousand

#### **BLS** derived

## SMSASTAT Does CU reside inside a Metropolitan Statistical Area (MSA)? 606 CHAR(1)

CODED

1 Yes

2 No

## **BLS** derived

# STATE State identifier (see Section IV.A. and Section X.D. for important 1518 CHAR(2) information)

| 01               | Alabama              | *28             | Mississippi    |
|------------------|----------------------|-----------------|----------------|
| 02               | Alaska               | **29            | Missouri       |
| RR 04            | Arizona              | _31             | Nebraska       |
| *05              | Arkansas             | <sup>R</sup> 32 | Nevada         |
| **06             | California           | <sup>R</sup> 33 | New Hampshire  |
| 80               | Colorado             | 34              | New Jersey     |
| 09               | Connecticut          | *35             | New Mexico     |
| _10              | Delaware             | RR**36          | New York       |
| R <sub>11</sub>  | District of Columbia | <u>**</u> 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        |
| <sup>R</sup> *23 | Maine                | **51            | Virginia       |
| 24               | Maryland             | * <u>*</u> 53   | Washington     |
| 25               | Massachusetts        | <sup>R</sup> 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).
- indicates that either all observations from this state have been recoded or all strata of observations from this state include "recodes" from other states.
- 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.
- 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>.
- 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 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 | 43   | CHAR(1) |
|          | BLS derived   |      |         |
| CUTE_URE |   | 44   | CHAR(1) |
| FAM_SIZE | Number of members in CU   | 78   | NUM(2)  |
|          | BLS derived   |      |         |
| FAMIZE   |   | 80   | CHAR(1) |
| PERSLT18 | Number of children less than 18 in CU   | 544  | NUM(2)  |
|          | BLS derived   |      |         |
| PERS_T18 |   | 546  | CHAR(1) |
| PERSOT64 | Number of persons over 64 in CU   | 547  | NUM(2)  |
|          | BLS derived   |      |         |

| PERS_T64 |  | 549  | CHAR(1) |
|----------|--|------|---------|
| CHILDAGE | Age of children of reference person CODED  0 No children 1 All children less than 6 2 Oldest child between 6 and 11 and at least one child less than 6 3 All children between 6 and 11 4 Oldest child between 12 and 17 and at least one child less than 12 5 All children between 12 and 17 6 Oldest child greater than 17 and at least one child less than 17 7 All children greater than 17   | 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.  CODED  1 Husband and wife (H/W) only 2 H/W, own children only, oldest child under 6 years old 3 H/W, own children only, oldest child 6 to 17 years old 4 H/W, own children only, oldest child over 17 years old 5 All other H/W CUs 6 One parent, male, own children only, at least one child age under 18 years old 7 One parent, female, own children only, at least one child age under 18 years old 8 Single persons 9 Other CUs  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 CODED  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   | 57   | CHAR(1) |

## 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)  CODED  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 | 1516 | CHAR(2)  |
|          | BLS derived   |      |          |
| RESPSTAT | Completeness of income response CODED  1 Complete income respondent 2 Incomplete income respondent  | 582  | CHAR(1)  |
|          | BLS derived   |      |          |
| RESP_TAT |   | 583  | CHAR(1)  |
| INC_RNKU | Weighted cumulative percent income ranking of CU to total population. 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)  |
| POVERTY  | Is CU income below current year's poverty threshold? (Income is defined as FINCBEFX - JFS_AMT)  | 1548 | CHAR(1)  |
|          | CODED<br>1 Yes<br>2 No  |      |          |
|          | BLS derived   |      |          |

POVERTY\_ 1549 CHAR(1)

# c. <u>CHARACTERISTICS OF REFERENCE PERSON AND SPOUSE</u>

| VARIABLE | ITEM DESCRIPTION  | START<br>POSITION | FORMAT  |
|----------|---|-------------------|---------|
| AGE_REF  | Age of reference person   | 36                | NUM(2)  |
|          | BLS derived   |                   |         |
| AGE_REF_ |   | 38                | CHAR(1) |
| REF_RACE | Race of reference person CODED  1 White 2 Black 3 American Indian, Aleut, or Eskimo 4 Asian or Pacific Islander 5 Other | 578               | CHAR(1) |
|          | BLS derived   |                   |         |
| REF_ACE  |   | 579               | CHAR(1) |
| SEX_REF  | Sex of reference person CODED  1 Male 2 Female  | 602               | CHAR(1) |
|          | BLS derived   |                   |         |
| SEX_REF_ |   | 603               | CHAR(1) |
| MARITAL1 | Marital status of reference person CODED 1 Married 2 Widowed 3 Divorced 4 Separated 5 Never married                     | 469               | CHAR(1) |
|          | BLS derived   |                   |         |
| MARI_AL1 |   | 470               | CHAR(1) |
| ORIGIN1  | Origin or ancestry of reference person CODED  1 European: German Italian Irish French Polish Russian                    | 495               | CHAR(1) |

|          | English Scottish Dutch Swedish Hungarian 2 Spanish: Mexican American Chicano Mexican Puerto Rican Cuban Central or South American Other Spanish 3 Afro-American (Black or Negro) 4 Another group not listed / Don't know   |     |          |
|----------|--|-----|----------|
| ORIGIN1  | BLS derived  | 497 | CHAR(1)  |
| EDUC_REF | Education of reference person CODED  00 Never attended school 10 First through eighth grade 11 Ninth through twelve grade (no H.S. diploma) 12 High school graduate 13 Some college, less than college graduate 14 Associate's degree (occupational/vocational or academic) 15 Bachelor's degree 16 Master's degree 17 Professional/Doctorate degree | 68  | CHAR(2)  |
|          | BLS derived  |     | 01115(1) |
| EDUC0REF |  | 70  | CHAR(1)  |
| AGE2     | Age of spouse  | 39  | NUM(2)   |
| AGE2_    | BLS derived  | 41  | CHAR(1)  |
| RACE2    | Race of spouse CODED - same as REF_RACE  | 574 | CHAR(1)  |
|          | BLS derived  |     |          |
| RACE2_   |  | 575 | CHAR(1)  |
| SEX2     | Sex of spouse<br>CODED - same as SEX_REF   | 604 | CHAR(1)  |
|          | BLS derived  |     |          |
| SEX2_    |  | 605 | CHAR(1)  |
| ORIGIN2  | Origin or ancestry of spouse   | 497 | CHAR(1)  |

| CODED | - same as | ORIGIN1 |
|-------|-----------|---------|
|       |           |         |

BLS derived

| ORIGIN2_ |  | 498 | CHAR(1) |
|----------|--|-----|---------|
| EDUCA2   | Education of spouse CODED - same as EDUC_REF | 71  | CHAR(2) |
|          | BLS derived                                  |     |         |
| EDUCA2_  |  | 73  | CHAR(1) |

# d. WORK EXPERIENCE OF REFERENCE PERSON AND SPOUSE

| VARIABLE | ITEM DESCRIPTION  | START<br>POSITION | FORMAT  |
|----------|---|-------------------|---------|
| 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.   | 672               | NUM(2)  |
|          | BLS derived   |                   |         |
| WK_W_KD1 |   | 674               | CHAR(1) |
| HRSPRWK1 | Number of hours usually worked per week by reference person   | 387               | NUM(3)  |
|          | BLS derived   |                   |         |
| 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 CODED  Manager, professional  01 Administrator, manager  02 Teacher  03 Professional  Administrative support, technical, sales  04 Administrative support, including clerical  05 Sales, retail  06 Sales, business goods and services  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 | 561               | CHAR(2) |

|          | 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  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 | 74  | CHAR(1) |
| EMPL_YP1 | DES delived   | 75  | CHAR(1) |
| WHYNWRK1 | Reason reference person did not work during the past 12 months 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   | 668 | CHAR(1) |
|          | 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.  BLS derived  | 675 | NUM(2)  |
| WK_W_KD2 |   | 677 | CHAR(1) |
| HRSPRWK2 | Number of hours usually worked per week by spouse   | 391 | NUM(3)  |
|          | BLS derived   |     |         |
| HRSP_WK2 |   | 394 | CHAR(1) |
| OCCULIS2 | Job in which spouse received the most earnings during the past 12 months CODED - same as OCCULIS1   | 492 | CHAR(2) |

| S04A 4 | 4a |
|--------|----|
|--------|----|

| OCCU_IS2 |  | 494 | CHAR(1) |
|----------|--|-----|---------|
| EMPLTYP2 | Employer from which spouse received the most earnings during the past 12 months CODED - Same as EMPLTYP1   | 76  | CHAR(1) |
|          | BLS derived  |     |         |
| EMPL_YP2 |  | 77  | CHAR(1) |
| WHYNWRK2 | Reason spouse did not work during the past 12 months CODED - same as WHYNWRK1  | 670 | CHAR(1) |
|          | BLS derived  |     |         |
| 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? | 483 | NUM(8)  |
|          | S04B 5   |     |         |
| OCCE_PNX |  | 491 | CHAR(1) |

# e. <u>INCOME</u>

| \\AB\\AB\\ = | ITEM DECODIDE ON  | START    | 500MAT  |
|--------------|---|----------|---------|
| VARIABLE     | ITEM DESCRIPTION  | POSITION | FORMAT  |
| FINCBEFX     | Amount of CU income before taxes in past 12 months (UNEMPX + WRKRSX + WELFRX + INTX + DIVX + PENSIONX + ROOMX + OTHRNTX + CHDOTHX + ALIOTHX + OTHINX + JFS_AMT + FWAGEX + FBSNSX + FFARMX + FSS_RRX + FSUPPX)  *L | 139      | NUM(8)  |
|              | BLS derived   |          |         |
| 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  | 59       | NUM(8)  |

|   | (FWAGEX + FBSNSX + FFARMX) |
|---|----------------------------|
| L |                            |

## BLS derived

| EARNX_   |   | 67  | CHAR(1) |
|----------|---|-----|---------|
| NONERNX  | Amount of CU income other than earnings before taxes in past 12 months (FSS_RRX + FSUPPX + UNEMPX + WRKRSX + WELFRX + INTX + DIVX + PENSIONX + ROOMX + OTHRNTX + CHDOTHX + ALIOTHX + OTHINX + JFS_AMT) *L   | 474 | NUM(8)  |
|          | BLS derived   |     |         |
| NONERNX_ |   | 482 | CHAR(1) |
| FWAGEX   | Amount of wage and salary income before deductions received by all CU members in past 12 months (Sum WAGEX from 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 professional practice received by all CU members in past 12 months (Sum BSNSX from MEMB file for all CU members) *L                          | 83  | NUM(8)  |
|          | BLS derived   |     |         |
| FBSNSX_  |   | 91  | CHAR(1) |
| FFARMX   | Amount of income or loss from own farm received by all CU members in past 12 months (Sum FARMX from MEMB file for all CU members) *L  | 103 | NUM(8)  |
|          | BLS derived   |     |         |
| FFARMX_  |   | 111 | CHAR(1) |
| FSS_RRX  | Amount of Social Security and Railroad Retirement income prior to deductions for medical insurance and Medicare received by all CU members in past 12 months (Sum SOCRRX from 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  | 584 | NUM(8)  |

|          | L  |      |         |
|----------|--|------|---------|
|          | S04B 1g(1)   |      |         |
| ROOMX_   |  | 592  | CHAR(1) |
| OTHRNTX  | During the past 12 months, how much net income or loss was received from payments from other rental units? *L  | 526  | NUM(8)  |
|          | S04B 1g(2)   |      |         |
| 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? | 499  | NUM(8)  |
|          | S04B 2c  |      |         |
| 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?   | 1521 | NUM(8)  |
|          | S04B 1h(2)   |      |         |
| 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?   | 1530 | NUM(8)  |
|          | S04B 1i(2)   |      |         |
| ALIOTHX_ |  | 1538 | CHAR(1) |
| JFS_AMT  | Annual value of Food Stamps received by CU  JFS_AMT = 12 X sum of (FS_AMT1 FS_AMT8)  NOTE: JFS_AMT is a component of FINCBEFX, NONERNX,  and FINCAFTX  | 423  | NUM(8)  |
|          | BLS derived  |      |         |

received from roomers or boarders?

431

CHAR(1)

JFS\_AMT\_

## f. OTHER MONEY RECEIPTS

| VARIABLE | ITEM DESCRIPTION  | START POSITION | FORMAT  |
|----------|---|----------------|---------|
| OTHRECX  | Amount of other money receipts excluded from CU income before taxes received by CU in past 12 months (LUMPX + SALEX + SSREFX + INSREFX + PTAXREF)   | 508            | NUM(8)  |
|          | BLS derived   |                |         |
| 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?                | 460            | NUM(8)  |
|          | S04B 2a   |                |         |
| 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?   | 1539           | NUM(8)  |
|          | S04B 1h(1)  |                |         |
| 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? | 593            | NUM(8)  |
|          | S04B 2b   |                |         |
| 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?  | 607            | NUM(8)  |
|          | S04B 3c   |                |         |
| 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?  | 405            | NUM(8)  |
|          | S04B 3d   |                |         |
| 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?  | 565            | NUM(8)  |

S04B 3e

PTAX\_EFX 573 CHAR(1)

# g. TAXES

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

| BLS derived | BLS | derived |
|-------------|-----|---------|
|-------------|-----|---------|

| 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? | 27  | NUM(8)  |
|          | S04B 4b  |     |         |
| 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?                                 | 616 | NUM(8)  |
|          | S04B 3b  |     |         |
| 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?  | 18  | NUM(8)  |
|          | S04B 4d  |     |         |
| 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?                  | 517 | NUM(8)  |
|          | S04B 3f  |     |         |
| OTHREFX_ |  | 525 | CHAR(1) |

# h. RETIREMENT AND PENSION DEDUCTIONS

| VARIABLE | ITEM DESCRIPTION  | POSITION | FORMAT  |
|----------|---|----------|---------|
| 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) | 168      | NUM(8)  |
|          | BLS derived   |          |         |
| 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)              | 195      | NUM(8)  |
|          | BLS derived   |          |         |
| 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)                                 | 121 | NUM(8)  |
|--------|--|-----|---------|
|        | BLS derived  |     |         |
| 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

| \/AB\/AB\/ | ITEM DECORIDATION   | START    | 5001145 |
|------------|---|----------|---------|
| VARIABLE   | ITEM DESCRIPTION  | POSITION | FORMAI  |
| REC_FS     | Have any members of your CU received any Food Stamps,<br>during the past 12 months?<br>CODED<br>1 Yes<br>2 No | 576      | CHAR(1) |
|            | S04B 8a   |          |         |
| REC_FS_    |   | 577      | CHAR(1) |
| FD_STMPS   | Have any members of your CU received any Food Stamps, in the past month?  CODED  1 Yes 2 No                   | 92       | CHAR(1) |
|            | S04B 9a   |          |         |
| FD_S_MPS   |   | 93       | CHAR(1) |
| FS_MTHI    | In how many of the past 12 months were Food Stamps received?  | 348      | NUM(2)  |
|            | S04B 8b   |          |         |

| FS_MTHI_ |  | 350 | CHAR(1) |
|----------|--|-----|---------|
| FS_AMT1  | What is the dollar value of Food Stamps received on (Date in 9b) - first entry   | 204 | NUM(8)  |
|          | S04B 9c  |     |         |
| 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_AMT8  | See FS_AMT1 for question and source - eighth entry   | 267 | NUM(8)  |
| FS_AMT8_ |  | 275 | 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) |
| FS_DATE8 | See FS_DATE1 for question and source - eighth entry  | 339 | NUM(8)  |
| FS_D_TE8 |  | 347 | CHAR(1) |

## j. FREE MEALS AND GROCERIES

| VARIABLE | ITEM DESCRIPTION   | START POSITION | FORMAT  |
|----------|--|----------------|---------|
| 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? | 186            | NUM(8)  |
|          | S04B 6b  |                |         |
| FREEMLX_ |  | 194            | CHAR(1) |
| JGROCYMV | Monthly expenditure for grocery store purchases  | 446            | NUM(6)  |
|          | BLS derived  |                |         |
| JGRO_YMV |  | 452            | CHAR(1) |
| GROCYWK  | Weekly expenditure for grocery store purchases   | 453            | NUM(6)  |
|          | BLS derived  |                |         |
| JGRO_YWK |  | 459            | CHAR(1) |
| JGRCFDMV | Monthly expenditure for food and non-alcoholic beverages purchased at grocery store  | 432            | NUM(6)  |
|          | BLS derived  |                |         |
| JGRC_DMV |  | 438            | CHAR(1) |
| JGRCFDWK | Weekly expenditure for food and non-alcoholic beverages purchased at grocery store   | 439            | NUM(6)  |
|          | BLS derived  |                |         |

JGRC\_DWK 445 CHAR(1)

# k. HOUSING STRUCTURE

| K. <u>110001110</u> | OTROOTORE   |                   |              |
|---------------------|---|-------------------|--------------|
| VARIABLE            | ITEM DESCRIPTION  | START<br>POSITION | FORMAT       |
| DESCRIP             | Housing unit or Group Quarters unit CODED  01 House, apartment, flat 02 Housing unit in nontransient hotel, motel, etc. 03 Housing unit, permanent in transient hotel, motel, etc. 04 Housing unit, in rooming house 05 Mobile home or trailer with NO permanent room added 06 Mobile home or trailer with one or more permanent rooms added 07 Housing unit not specified above 08 Quarters not housing unit in rooming or boarding house 09 Student quarters in college dormitory 10 Group quarters unit, not specified above | 45                | CHAR(2)      |
|                     | Cover 13c and 13d   |                   |              |
| DESCRIP_            |   | 47                | CHAR(1)      |
| TYPOWND             | Are these living quarters owned by regular ownership or as a condominium or cooperative?  CODED  1 Regular ownership 2 Condominium 3 Cooperative  | 642               | CHAR(1)      |
|                     | S02 1c  |                   |              |
| TYPOWND_            |   | 643               | CHAR(1)      |
| I. <u>WEIGHTS</u>   |   |                   |              |
| VARIABLE            | ITEM DESCRIPTION  | START POSITION    | FORMAT       |
| FINLWT21            | CU replicate weight # 45 (total sample weight)  | 148               | NUM(11,3)    |
|                     | BLS derived   |                   |              |
|                     | are the 44 half sample replicate weights, WTREP01 through WTRE utation. They are all BLS derived variables.   | P44, which a      | are used for |
| 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 | 897  | 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 deletion (addition) to the summary expenditure variable occurs is denoted by a leading subscript directly prior to the UCC code. For example, <sup>A971</sup> < UCC> or <sup>D971</sup> < UCC> identifies an addition or deletion of a given UCC to the summary expenditure variable beginning in Q971.

|          |   | START     |           |
|----------|---|-----------|-----------|
| VARIABLE | ITEM DESCRIPTION  | POSITION  | FORMAT    |
| FOODTOT  | Food, total<br>FOODHOME + FOODAWAY  | 1171      | NUM(12,5) |
| FOODHOME | Food at home, total  CEREAL + BAKEPROD + BEEF + PORK + OTHMEAT +  POULTRY + SEAFOOD + EGGS + MILKPROD + OTHDAIRY  + FRSHFRUT + FRSHVEG + PROCVEG + SWEETS +  NONALBEV + OILS + MISCFOOD | 1183<br>Y | NUM(12,5) |
| CEREAL   | Cereal and cereal products<br>010110 010120 010210 010310 010320  | 1195      | NUM(12,5) |
| BAKEPROD | Bakery products<br>020110 020210 020310 020410 020510 020610 020620<br>020710 020810 020820   | 1207      | NUM(12,5) |
| BEEF     | Beef 030110 030210 030310 030410 030510 030610 030710   | 1219      | NUM(12,5) |

| PORK     | Pork<br>040110 040210 040310 040410 040510 040610   | 1231 | NUM(12,5) |
|----------|---|------|-----------|
| OTHMEAT  | Other meats 050110 050210 050310 050410 050900  | 1243 | NUM(12,5) |
| POULTRY  | Poultry 060110 060210 060310  | 1255 | NUM(12,5) |
| SEAFOOD  | Fish and seafood 070110 070230 070240   | 1267 | NUM(12,5) |
| EGGS     | Eggs 080110   | 1279 | NUM(12,5) |
| MILKPROD | 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 110410 110510   | 1315 | NUM(12,5) |
| FRSHVEG  | Fresh vegetables<br>120110 120210 120310 120410   | 1327 | NUM(12,5) |
| PROCFRUT | Processed fruits 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) |
| OILS     | Fats and oils<br>160110 160211 160212 160310 160320   | 1387 | NUM(12,5) |
| MISCFOOD | Miscellaneous foods<br>180110 180210 180310 180320 180410 180420 180510<br>180520 180611 180612 180620 180710 A971 180720 | 1399 | NUM(12,5) |
| FOODAWAY | Food away from home<br>190110 190210 190310 190320 190901 190902  | 1411 | NUM(12,5) |
| ALCBEV   | Alcoholic beverages 200111 200210 200310 200410 200510 200520 200530  | 1423 | NUM(12,5) |

| SMOKSUPP | Tobacco products and smoking supplies 630110 630210 630220 630900                                       | 1435 | NUM(12,5) |
|----------|---|------|-----------|
| PET_FOOD | Pet food<br>610310  | 1447 | NUM(12,5) |
| PERSPROD | Personal care products<br>640110 640120 640130 640210 640220 640310 640410<br>640420                    | 1459 | NUM(12,5) |
| PERSSERV | Personal care services<br>650110 650210 650900  | 1471 | NUM(12,5) |
| DRUGSUPP | Non-prescription drugs and supplies 550110 550210 550310 550320 550330 A971 550410 550900 570901 570902 | 1483 | NUM(12,5) |
| HOUSKEEP | 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 sta tus 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

| VARIABLE | ITEM DESCRIPTION  | START POSITION | FORMAT |
|----------|---|----------------|--------|
| NEWID    | CU identification number. Digits 1-7 (CU sequence number, 0000001 through 9999999) uniquely identify the CU. Digit 8 is the week number, 1 or 2 | 1              | NUM(8) |
|          | BLS derived   |                |        |
| MEMBNO   | Member number   | 135            | NUM(2) |
|          | S01 1   |                |        |

## b. <u>CHARACTERISTICS OF MEMBER</u>

| VARIABLE | ITEM DESCRIPTION  | START<br>POSITION | I FORMAT |
|----------|---|-------------------|----------|
| CU_CODE1 | What is the member's relationship to (reference person)?  CODED  1 Reference person 2 Spouse 3 Child or adopted child 4 Grandchild 5 In-law 6 Brother or sister 7 Mother or father 8 Other related persons 9 Unrelated persons 0 Blank or illegible entry | 70                | CHAR(1)  |
|          | S01 4   |                   |          |
| CU_C_DE1 |   | 71                | CHAR(1)  |
| AGE      | What is the member's date of birth? (Age is verified.) S01 9  | 9                 | NUM(2)   |
| AGE_     |   | 11                | CHAR(1)  |
| RACE     | What is the race of each person in this CU? CODED  1 White 2 Black 3 American Indian, Aleut, or Eskimo 4 Asian or Pacific Islander 5 Other  | 151               | CHAR(1)  |
|          | S01 10  |                   |          |
| RACE_    |   | 152               | CHAR(1)  |
| SEX      | Is the member male or female?  CODED  1 Male 2 Female  S01 6  | 174               | CHAR(1)  |
| SEX_     |   | 175               | CHAR(1)  |
| MARITAL  | Is the member now ? (Marital status)  CODED  1 Married 2 Widowed 3 Divorced 4 Separated 5 Never married   | 133               | CHAR(1)  |

S01 12

| MARITAL_ |  | 134 | CHAR(1) |
|----------|--|-----|---------|
| ORIGIN   | What is the member's ethnic origin or ancestry? CODED  1 European: German Italian Irish French Polish Russian English Scottish Dutch Swedish Hungarian  2 Spanish: Mexican American Chicano Mexican Puerto Rican Cuban Central or South American Other Spanish  3 Afro-American (Black or Negro) 4 Another group not listed / Don't know | 140 | CHAR(1) |
|          | S01 11   |     |         |
| ORIGIN_  |  | 141 | CHAR(1) |
| EDUCA    | What is the highest level of school the member has completed or the highest degree the member has received?  | 72  | CHAR(2) |
|          | ODED ONEVER attended school O1-11 First grade through eleventh grade 38 Twelfth grade - no degree 39 High school graduate 40 Some college - no degree 41 Associate's degree (occupational/vocational) 42 Associate's degree (academic) 43 Bachelor's degree 44 Master's degree 45 Professional degree 46 Doctorate degree                |     |         |
| EDUCA_   |  | 74  | CHAR(1) |
| IN_COLL  | Is the member currently enrolled in a college or university either?  | 244 | CHAR(1) |

|          | CODED 1 Full time 2 Part time 3 Not at all  |     |         |
|----------|---|-----|---------|
|          | S01 13b   |     |         |
| IN_COLL_ |   | 245 | CHAR(1) |
| ARM_FORC | Is member now in the Armed Forces?  CODED  1 Yes 2 No   | 242 | CHAR(1) |
|          | S01 14  |     |         |
| ARM_ORC  |   | 243 | CHAR(1) |
| SCHLNCHQ | During the previous 30 days, how many weeks did the member purchase meals at school or in a preschool program for 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<br>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. | 225               | NUM(2)  |
|          | S04A 2  |                   |         |
| WKSRKD   |   | 227               | CHAR(1) |
| HRSPERWK | In the weeks that the member worked, how many hours did the member usually work per week?   | 113               | NUM(3)  |
|          | S04A 3  |                   |         |
| HRSP_RWK |   | 116               | CHAR(1) |
| OCCULIST | The job in which member received the most earnings during the   | 137               | CHAR(2) |

|          | CODED  Manager, professional 01 Administrator, manager 02 Teacher 03 Professional Administrative support, technical, sales 04 Administrative support, including clerical 05 Sales, retail 06 Sales, business goods and services 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 |     |         |
|----------|---|-----|---------|
|          | S04A 4a   |     |         |
| OCCU_IST |   | 139 | CHAR(1) |
| EMPLTYPE | Was the member ? (Type of employee)  Refers to job where member received the most earnings in the past 12 months.   | 75  | CHAR(1) |
|          | <ul> <li>CODED</li> <li>1 An employee of a PRIVATE company, business, or individual working for wages or salary</li> <li>2 A Federal government employee</li> <li>3 A State government employee</li> <li>4 A local government employee</li> <li>5 Self-employed in OWN business, professional practice or farm</li> <li>6 Working WITHOUT PAY in family business or farm,</li> </ul>  |     |         |
|          | 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/family3 Going to school4 III, disabled, unable to work5 Unable to find work

- 6 Doing something else

S04A 5

 ${\sf WHYN\_WRK}$ CHAR(1) 224

# d. INCOME

| VARIABLE | ITEM DESCRIPTION  | START<br>POSITION | FORMAT  |
|----------|---|-------------------|---------|
| 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) |
| 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?  CODED  1 Yes 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?  CODED  1 Yes 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   | 233 | NUM(8)  |
|          | BLS derived  |     |         |
| SOCRRX_  |  | 241 | CHAR(1) |
| SS_RRX   | What was the amount of the last Social Security or Railroad Retirement payment received? (In past 12 months)                                     | 183 | NUM(8)  |
|          | S04A 7d  |     |         |
| 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?  CODED  1 Yes 2 No | 246 | CHAR(1) |
|          | S04A 7e  |     |         |
| MED_CARE |  | 247 | CHAR(1) |
| SS_RRQ   | During the past 12 months, how many Social Security or Railroad Retirement payments did the member receive?                                      | 228 | NUM(4)  |
|          | S04A 7f  |     |         |
| 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?  CODED  1 Yes 2 No           | 212 | CHAR(1) |
|          | S04A 8a  |     |         |
| 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?  CODED 1 Yes 2 No  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. <u>TAXES</u>

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

# f. <u>RETIREMENT AND PENSION DEDUCTIONS</u>

| VARIABLE | ITEM DESCRIPTION   | START<br>POSITION | FORMAT  |
|----------|--|-------------------|---------|
| JSSDEDX  | Estimated amount of income contributed to Social Security by member in past 12 months      | 126               | NUM(6)  |
|          | BLS derived  |                   |         |
| JSSDEDX_ |  | 132               | CHAR(1) |
| SLFEMPSS | Amount of income contributed to Social Security by member if self-employed                 | 176               | NUM(6)  |
|          | BLS derived  |                   |         |
| SLFE_PSS |  | 182               | CHAR(1) |
| ANRRX    | Annualized amount of Railroad Retirement deducted from last pay ((RRX/GROSPAYX) x WAGEX)   | 39                | NUM(8)  |
|          | BLS derived  |                   |         |
| ANRRX_   |  | 47                | CHAR(1) |
| RRX      | How much was deducted from the member's last pay for Railroad Retirement?                  | 153               | NUM(8)  |
|          | S04A 10d   |                   |         |
| RRX_     |  | 161               | CHAR(1) |
| ANGVX    | Annualized amount of Government Retirement deducted from last pay ((GVX/GROSPAYX) x WAGEX) | 21                | NUM(8)  |
|          | BLS derived  |                   |         |
| ANGVX_   |  | 29                | CHAR(1) |
| GVX      | How much was deducted from the member's last pay for Government Retirement?                | 104               | NUM(8)  |
|          | S04A 10e   |                   |         |
| GVX_     |  | 112               | CHAR(1) |
| ANPVTX   | Annualized amount of private pensions deducted from last pay ((PVTX/GROSPAYX) x WAGEX)     | 30                | NUM(8)  |
|          | BLS derived  |                   |         |
| ANPVTX_  |  | 38                | CHAR(1) |
| PVTX     | How much was deducted from the member's last pay for private                               | 142               | NUM(8)  |

pension fund?

S04A 10f

| 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) | 117 | NUM(8)  |
|       | S04A 13b   |     |         |
| IRAX_ |  | 125 | CHAR(1) |

# 3. <u>DETAILED EXPENDITURES (EXPN) FILE</u>

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.

| VADIADIE | ITEM DECODIDATION   | START    | FORMAT    |
|----------|---|----------|-----------|
| VARIABLE | ITEM DESCRIPTION  | POSITION | FORMAT    |
| NEWID    | CU identification number. Digits 1-7 (CU sequence number, 0000001 through 9999999) uniquely identify the CU. Digit 8 is the week number, 1 or 2     | 1        | NUM(8)    |
|          | BLS derived   |          |           |
| ALLOC    | Adjustment status for cost variable CODED  0 Not allocated or topcoded 1 Allocated, not topcoded 2 Topcoded and allocated 3 Topcoded, not allocated | 9        | CHAR(1)   |
|          | BLS derived   |          |           |
| COST     | Total cost of item, including sales tax   | 10       | NUM(12,5) |
|          | BLS derived   |          |           |
| GIFT     | Was item bought for someone outside the CU? CODED 1 Yes 2 No  | 22       | CHAR(1)   |
|          | BLS derived   |          |           |

| PUB_FLAG | Is cost included in published bulletin? CODED 1 Not published 2 Published in Integrated bulletin BLS derived   | 23 | CHAR(1)  |
|----------|--|----|----------|
| QREDATE  | Purchase date recode field Consists of: Sequential day of the Diary week (1-7) Day of the week, Sunday through Saturday (1-7) Reference month of this expenditure, (01-12) Reference day of this expenditure, (01-31) Reference year of this expenditure, (00-99)  BLS derived | 24 | CHAR(10) |
|          | DES derived  |    |          |
| QREDATE_ |  | 34 | CHAR(1)  |
| UCC      | Universal Classification Code<br>See Section XIII.A. Appendix A for a listing of EXPN UCC<br>codes and titles  | 35 | CHAR(6)  |
|          | 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.

|          |   | START    |         |
|----------|---|----------|---------|
| VARIABLE | ITEM DESCRIPTION  | POSITION | FORMAT  |
| NEWID    | CU identification number. Digits 1-7 (CU sequence number, 0000001 through 9999999) uniquely identify the CU. Digit 8 is the week number, 1 or 2 | 1        | NUM(8)  |
|          | BLS derived   |          |         |
| UCC      | Universal Classification Code<br>See Section XIII for a listing of DTAB UCC codes and titles  | 9        | CHAR(6) |
|          | BLS derived   |          |         |
| AMOUNT   | Amount of UCC   | 15       | NUM(12) |
|          | BLS derived   |          |         |
| AMOUNT_  | CODED<br>T – Topcoded   | 27       | CHAR(1) |

Blank -- Not topcoded

**BLS** derived

PUB\_FLAG Is amount included in published bulletin?

28 CHAR(1)

CODED

1 Not published

2 Published in Integrated bulletin

BLS derived

## 5. PROCESSING FILES

#### a. AGGregation file

X:\DIARY97\AGGD97.TXT (SD2)

The AGG file shows which UCCs go into each category listed in the sample table produced by the microdata file verification and estimation program. (See Section VII.A. SAMPLE PROGRAM). It designates each category with a unique 6-digit line number. It is formatted as follows:

| DESCRIPTION  | POSITION | FORMAT  |
|--|----------|---------|
| UCC (Universal Classification Code)                | 3        | CHAR(6) |
| Line Number: represents a line in the sample table | 15       | CHAR(6) |

#### b. LABel file

X:\DIARY97\LABELD97.TXT (SD2)

The LABEL file assigns an identification label to each AGG file line number. It is formatted as follows:

| DESCRIPTION  | START POSITION FORMAT |          |
|--|-----------------------|----------|
| Line Number: represents a line in the sample table                 | 1 (                   | CHAR(6)  |
| Label: descriptive label in the sample table (with leading blanks) | 10                    | CHAR(48) |

#### c. UCC file

x:\DIARY97\UCCD97.TXT (SD2)

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:

|             | START           |
|-------------|-----------------|
| DESCRIPTION | POSITION FORMAT |
|             |                 |
| UCC         | 1 CHAR(6)       |

UCC title 8 CHAR(50)

See Section XIII.A. EXPENDITURE UCCS ON EXPN FILE and XIII.B. INCOME AND RELATED UCCS ON DTAB FILE for a list of UCCs and their full title by file -- expenditure (EXPN) or income (DTAB)

#### d. SAMPLe program file

x:\DIARY97\ SAMPLD97.TXT (SD2)

The SAMPLD97 file 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 of reference person

AGE2 Age of spouse

ADDEEDX Amount of Federal income tax paid in addition to the

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

AGE REF

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

| OCCEXPNX | 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.

|                 | Upper                 | Lower                 | Upper         | Lower         |
|-----------------|-----------------------|-----------------------|---------------|---------------|
| <u>Variable</u> | <u>critical value</u> | <u>critical value</u> | topcode value | topcode value |
| ADDFEDX         | 20,000                | -                     | 60,675        | -             |
| ADDOTHX         | 3,797                 | -                     | 18,762        | -             |
| ADDSTAX         | 4,000                 | -                     | 9,917         | -             |
| AGE_REF         | 90                    | -                     | 93            | -             |
| AGE2            | 90                    | -                     | 92            | -             |
| ALIOTHX         | 24,000                | -                     | 38,769        | -             |
| CHDLMPX         | 9,600                 | -                     | 17,200        | -             |
| DIVX            | 30,000                | -                     | 209,139       | -             |
| FEDREFX         | 4,800                 | -                     | 8,109         | -             |
| INSREFX         | 15,400                | -                     | 72,500        | -             |
| INTX            | 15,000                | -                     | 53,371        | -             |
| LUMPX           | 75,000                | -                     | 111,714       | -             |
| OCCEXPNX        | 1,981                 | -                     | 10,455        | -             |
| OTHINX          | 25,000                | -                     | 95,724        | -             |
| OTHREFX         | 1,500                 | -                     | 6,054         | -             |
| OTHRNTX         | 36,000                | -17,000               | 51,539        | -30,333       |
| PENSIONX        | 45,000                | -                     | 65,545        | -             |
| PTAXREFX        | 1,500                 | -                     | 4,000         | -             |
| ROOMX           | 20,000                | -7,500                | 60,000        | -22,500       |
| SALEX           | 8,000                 | -                     | 52,375        | -             |
| STATREFX        | 1,300                 | -                     | 2,545         | -             |
| TAXPROPX        | 4,400                 | -                     | 9,166         | -             |
| TAXPROPX        | 4,400                 | -                     | 9,166         | -             |

These variables will 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.

|                 | Upper          | Lower          | Upper         | Lower         |
|-----------------|----------------|----------------|---------------|---------------|
| <u>Variable</u> | critical value | critical value | topcode value | topcode value |
| CHDOTHX         | 15,120         | -              | -             | -             |
| SSREFX          | 2,016          | -              | -             | -             |

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<br>FBSNSX<br>FFARMX<br>FFEDTXX<br>FGVX<br>FINCAFTX<br>FINCBEFX<br>FIRAX<br>FJSSDEDX<br>FPVTX<br>FRRX<br>FSTATXX | Amount of CU income from earnings before taxes Amount of income from non-farm business Amount of income or loss received from own farm Amount of Federal tax deducted from last pay, annualized for all CU members Amount of government retirement deducted from last pay, annualized for all CU members Amount of CU income after taxes Amount of CU income before taxes Amount of money placed in individual retirement plan Estimated amount of annual Social Security contribution Amount of private pension fund deducted from last pay, annualized for all CU members Amount of Railroad Retirement deducted from last pay, annualized for all CU members 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<br>OTHRECX  | Amount of income from sources other than earnings before taxes<br>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 \$100,000 (-\$100,000). The topcode value for BSNSX is \$322,083 (-\$200,000). (See Section IV.B. MEMBER CHARACTERISTICS AND INCOME FILE (MEMB)).

| BSNSX     |                |                      |                      | FBS          | NSX                  |
|-----------|----------------|----------------------|----------------------|--------------|----------------------|
| <u>CU</u> |                | <u>REPORTED</u>      | AFTER<br>TOPCODING   | <u>VALUE</u> | FLAGGED AS TOPCODED? |
| CU 1:     | MEMB1<br>MEMB2 | \$100,000<br>100,000 | \$100,000<br>100,000 | 200,000      | No                   |
| CU 2:     | MEMB1          | 310,000              | 322,083              | ,            |                      |
| CU 3      | MEMB2<br>MEMB1 | -110,000<br>160,000  | -200,000<br>322,083  | 122,083      | Yes                  |
| CU 4      | MEMB2<br>MEMB1 | 60,000<br>150,000    | 60,000<br>322,083    | 382,083      | Yes                  |
| 00 1      | MEMB2          | -250,000             | -200,000             | 122,083      | Yes                  |

While CUs 1 and 2 each originally report \$200,000 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 (\$382,083) is higher than the amount that it reported (\$220,000). The case of CU4 demonstrates that the reported value for FBSNSX can be negative, while the topcoded value

can be positive. This is due to a topcoded positive BSNSX value for MEMB1 that is large enough to change total CU income from negative to 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-avis 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<br><sup>RR</sup> 04 | Alaska               | **29            | Missouri       |
|                        | Arizona              | 31<br>Ran       | Nebraska       |
| *05                    | Arkansas             | <sup>R</sup> 32 | Nevada         |
| **06                   | California           | <sup>R</sup> 33 | New Hampshire  |
| 80                     | Colorado             | 34              | New Jersey     |
| 09                     | Connecticut          | *35             | New Mexico     |
| 10                     | Delaware             | RR**36          | New York       |
| <sup>R</sup> 11        | 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        | <sup>R</sup> 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).
- 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.
- 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.
- 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>.

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.

|                 | Upper          | Lower          | Upper         | Lower         |
|-----------------|----------------|----------------|---------------|---------------|
| <u>Variable</u> | critical Value | critical Value | topcode value | topcode value |
| AGE             | 90             | -              | 94            | -             |
| ANFEDTXX        | 16,064         | -              | 27,447        | -             |
| ANGVX           | 6,000          | -              | 7,280         | -             |
| ANPVTX          | 9,579          | -              | 13,295        | -             |
| ANSTATXX        | 5,455          | -              | 8,928         | -             |
| BSNSX           | 100,000        | -100,000       | 322,083       | -200,000      |
| FARMX           | 42,000         | -10,000        | 85,000        | -123,614      |
| FEDTXX          | 800            | -              | 3,046         | -             |
| GROSPAYX        | 4,500          | -              | 17,644        | -             |
| GVX             | 435            | -              | 487           | -             |
| IRAX            | 12,000         | -              | 57,899        | -             |
| JSSDEDX         | 5,577          | -              | 7,991         | -             |
| PVTX            | 500            | -              | 2,534         | -             |
| RRX             | 300            | -              | 439           | -             |
| SLFEMPSS        | 11,010         | -              | 19,366        | -             |
| STATXX          | 250            | -              | 720           | -             |
| WAGEX           | 80,000         | -              | 119,899       | -             |

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

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

|                 | Upper          | Lower          | Upper         | Lower         |
|-----------------|----------------|----------------|---------------|---------------|
| <u>Variable</u> | critical Value | critical Value | topcode value | topcode value |
| ANRRX           | 8.000          | _              |               | -             |

#### 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) ANFEDTXX = (WAGEX (FEDTXX/GROSPAYX)).

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

(2) WAGEX = (ANFEDTXX (GROSPAYX/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 (blanked 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.

| <u>UCC</u> | <u>Description</u>                            |
|------------|---|
| 001000     | Purchase price of stocks, bonds, mutual funds |
| 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                          |
| 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.

|                 | Upper                 | Lower                 | Upper         | Lower         |
|-----------------|-----------------------|-----------------------|---------------|---------------|
| <u>Variable</u> | <u>critical value</u> | <u>critical value</u> | topcode value | topcode value |
| 210110          | 1,075                 | -                     | 1,486         | -             |
| 210210          | 437                   | -                     | 667           | -             |
| 560110          | 200                   | -                     | 419           | -             |
| 560210          | 738                   | -                     | 1,323         | -             |
| 560310          | 289                   | -                     | 638           | -             |
| 570000          | 801                   | -                     | 2,322         | -             |
| 570230          | 57                    | -                     | 195           | -             |
| 570901          | 100                   | -                     | 406           | -             |

These 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.

|                 | Upper          | Lower          | <u>Upper</u>  | Lower         |
|-----------------|----------------|----------------|---------------|---------------|
| <u>Variable</u> | critical value | critical value | topcode value | topcode value |
| 001000          | 2,300          | -              | -             | -             |
| 210310          | 2,586          | -              | -             | -             |
| 210900          | 1,333          | -              | -             | -             |
| 550320          | 300            | -              | -             | -             |
| 550330          | 580            | -              | -             | -             |
| 560330          | 442            | -              | -             | -             |
| 570220          | 3,000          | -              | -             | -             |

# D. INCOME FILE (DTAB)

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

| UCC    | <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 received from State/local income tax                                      |
| 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.

|                 | Upper          | Lower          | Upper         | Lower         |
|-----------------|----------------|----------------|---------------|---------------|
| <u>Variable</u> | critical Value | critical Value | topcode value | topcode value |
| 900040          | 45,000         | -              | 65,545        | -             |
| 900050          | 30,000         | -              | 209,139       | -             |
| 900060          | 20,000         | -7,000         | 60,000        | -22,500       |
| 900070          | 36,000         | -17,000        | 51,539        | -30,333       |
| 900080          | 15,000         | -              | 53,371        | -             |
| 900132          | 24,000         | -              | 38,769        | -             |
| 900140          | 25,000         | -              | 95,724        | -             |
| 910000          | 75,000         | -              | 111,714       | -             |
| 910010          | 8,000          | -              | 52,375        | -             |
| 910030          | 15,400         | -              | 72,500        | -             |
| 910040          | 1,500          | -              | 4,000         | -             |
| 910041          | 9,600          | -              | 17,200        | -             |
| 950001          | -              | -4,800         | -             | -8,109        |
| 950011          | -              | -1,300         | -             | -2,545        |
| 950021          | 3,797          | -              | 18,762        | -             |
| 950022          | 4,400          | -              | 9,166         | -             |
| 950023          | -              | -1,500         | -             | -6,054        |

| 980020 | 90 | - | 93 | - |
|--------|----|---|----|---|
|--------|----|---|----|---|

These 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.

|                 | Upper          | Lower                 | <u>Upper</u>  | Lower         |
|-----------------|----------------|-----------------------|---------------|---------------|
| <u>Variable</u> | critical value | <u>critical value</u> | topcode value | topcode value |
| 900131          | 15,120         | -                     | -             | -             |
| 910020          | 2,016          | -                     | -             | -             |

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.)

| UCC    | FMLY variable | Description   |
|--------|---------------|---|
| 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 1997*, *Report 927* (1998) used an integration methodology which incorporated information from both Diary and Interview Surveys. 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

 $X_{(i,k,t)}$  = the amount of money  $CU_{(i)}$  spent on item k for a week during month t

 $W_{(i,t,F21)}$  = the weight assigned to  $CU_{(i)}$  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

 $\overline{X}_{(S,k)(q,r)}$  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).

$$X_{(S,k)(12,6)} = 3 {\binom{12}{6}} \sum_{t=1}^{6} \left( \sum_{j=1}^{n} \left( \frac{D_{(t)}}{7} \right) W_{(j,t,F21)} X_{(j,k,t)} \right)_{t}$$
 (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

$$X_{(S,k)(q,r)} = 3 \left( \frac{q}{r} \right) \sum_{t=1}^{r} \left( \sum_{j=1}^{n} \left( \frac{D_{(t)}}{7} \right) W_{(j,t,F21)} X_{(j,k,t)} \right)_{t}$$
(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,  $\overline{X}_{(S,k)(12,6)}$ , 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

$$\overline{X}_{(S,k)(12,6)} = \frac{3\binom{12/6}{5}\sum_{t=1}^{6} \left(\sum_{j=1}^{n} \left(\frac{D_{(t)}}{7}\right) W_{(j,t,F21)} X_{(j,k,t)}\right)_{t}}{3\sum_{t=1}^{6} \left(\sum_{j=1}^{n} W_{(j,t,F21)}\right)_{t}}$$
(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 t, or in this case "6", (representing the 6 month period of collected data in this example).

The above formula generalizes to  $\overline{X}_{(S,k)(q,k)}$ , (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:

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

The estimates for total ( $X_{(S,k)(q,r)}$ ) and mean expenditures ( $\overline{X}_{(S,k)(q,r)}$ ) 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  $\overline{X}_{(S,k)(q,r)}$  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  $\overline{Z}_{(S,r)}$  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  $Z_{(i,t)}$  = the annual income reported by  $CU_{(i)}$  in month t. Then the estimated mean annual income is

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

## 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  $a^{th}$  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:

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

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

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

and

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

where  $\overline{X}_{(S,k)(q,r),a}$  and  $\overline{Z}_{(S,r),a}$  are estimates similar to  $\overline{X}_{(S,k)(q,r)}$  and  $\overline{Z}_{(S,r)}$  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. For example, the average weekly expenditures for beef for total complete income reporters in 1997 was \$4.35. The standard error for this estimate is \$.15. Hence, the 95 percent confidence interval around this estimate is from \$4.05 to \$4.65. Therefore, we could conclude with 95 percent confidence that the mean weekly expenditures for beef for total complete income reporters in 1997 lies within the interval \$4.05 to \$4.65.

## 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 1997 the average weekly expenditures for food for complete income reporters in the second income quintile was 67.44 and for complete income reporters in the third income quintile was 80.76. The apparent difference between the two mean expenditures is 80.76 - 67.44 = 13.32. The standard error on the estimate of 67.44 is 1.61 and the estimated standard error for 80.76 is 2.23. The standard error (S.E.) of a difference is approximately equal to

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

where

$$V(\overline{X}_i) = \left(S.E.(\overline{X}_i)\right)^2$$

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 the second and third income quintile groups of complete income reporters is about

$$\sqrt{((2.23)^2 + (1.61)^2)} = 2.75$$

This means that the 95 percent confidence interval around the difference is from \$7.82 to \$18.82. Since this interval does not include zero, we can conclude with 95 percent confidence that the mean

weekly food expenditures for the third income quintile group of complete income reporters is greater than the mean weekly food expenditures for the second income quintile 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

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

where

$$V(\overline{X}_i) = \left(S.E.(\overline{X}_i)\right)^2$$

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.

### 4. 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 1985 the average weekly expenditures for food for complete income reporters in the second income quintile was \$44.17 and for complete income reporters in the third income quintile was \$55.83. The apparent difference between the two mean expenditures is \$55.83 - \$44.17 = \$11.66. The standard error on the estimate of \$44.17 is \$1.36 and the estimated standard error for \$55.83 is \$1.55. The standard error (S.E.) of a difference is approximately equal to

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

where

$$V(\overline{X}_i) = \left(S.E.(\overline{X}_i)\right)^2$$

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 the second and third income quintile groups of complete income reporters is about

$$\sqrt{\left(\left(1.55\right)^2 + \left(1.36\right)^2\right)} = 2.06$$

This means that the 95 percent confidence interval around the difference is from \$7.54 to \$15.78. Since this interval does not include zero, we can conclude with 95 percent confidence that the mean weekly food expenditures for the third income quintile group of complete income reporters is greater than the mean weekly food expenditures for the second income quintile 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

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

where

$$V(\overline{X}_i) = \left(S.E.(\overline{X}_i)\right)^2$$

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 utilizes the ASCII datasets available on this CD-ROM. A program written in SAS but utilizing the SAS datasets is also present on the CD-ROM but will not be referenced here. Refer to the table following the program 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 of the program extracts the relevant variables from the FMLY files, while the second section extracts the expenditure and income data from the EXPN and DTAB files. These three datasets are then used along with the AGG and LABEL processing files 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.

#### A. SAMPLE PROGRAM

```
1
2
3
   % let y = 97;
                                                           Line 3 sets the year as a macro variable that can be
4
                                                           used throughout the program.
                                                           Lines 5-18 designate the location of the data on the
5 filename fmly1 "x:\diary&y\fmlyd&y.1.txt";
   filename fmly2 "x:\diary&y\fmlyd&y.2.txt";
                                                           cd-rom.
   filename fmly3 "x:\diary&y\fmlyd&y.3.txt";
8 filename fmly4 "x:\diary&y\fmlyd&y.4.txt";
9
10 filename dtab1 "x:\diary&y\dtabd&y.1.txt";
11 filename dtab2 "x:\diary&y\dtabd&y.2.txt";
12 filename dtab3 "x:\diary&y\dtabd&y.3.txt";
13 filename dtab4 "x:\diary&y\dtabd&y.4.txt";
14
15 filename expn1 "x:\diary&y\expnd&y.1.txt";
16 filename expn2 "x:\diary&y\expnd&y.2.txt";
17 filename expn3 "x:\diary&y\expnd&y.3.txt";
18 filename expn4 "x:\diary&y\expnd&y.4.txt";
19
20 filename agg "x:\diary&y\aggd&y..txt";
                                                           Lines 20-21 designate the location of the two
    filename labls "x:\diary&y\labeld&y..txt";
                                                           processing files.
22
23
24
25 options linesize=153 pagesize=52 missing=";
                                                           Line 25 forces the output to be printed landscape.
26
27
28
29 data fmly1;
                                                           Lines 29-51 pull in the necessary variables from the
                                                           fmly files. Newid is the code given to a consumer
30
      infile fmly1 lrecl=1549;
      input @1 newid 8. @148 finlwt21 11.3
                                                           unit each time it participates. Finlwt21 will be used
31
          @1516 inclass $2.:
                                                           to weight each consumer unit such that it represents
32
                                                           some portion of the population. Inclass is a code
                                                           that represents the range within which the
NOTE: The infile FMLY1 is:
   FILENAME=x:\diary97\fmlyd971.txt,
                                                           consumer unit's annual income falls.
   RECFM=V,LRECL=1549
NOTE: 2836 records were read from the infile
FMLY1.
   The minimum record length was 1549.
   The maximum record length was 1549.
NOTE: The data set WORK.FMLY1 has 2836
observations and 3 variables.
33
      proc sort; by newid;
34
NOTE: The data set WORK.FMLY1 has 2836
observations and 3 variables.
35 data fmly2;
36
      infile fmly2 lrecl=1549;
      input @1 newid 8. @148 finlwt21 11.3
37
```

38 @1516 inclass \$2.;

NOTE: The infile FMLY2 is: FILENAME=x:\diary97\fmlyd972.txt, RECFM=V,LRECL=1549

NOTE: 2671 records were read from the infile FMLY2.

The minimum record length was 1549. The maximum record length was 1549. NOTE: The data set WORK.FMLY2 has 2671 observations and 3 variables.

39 proc sort; by newid;40

NOTE: The data set WORK.FMLY2 has 2671 observations and 3 variables.

- 41 data fmly3;
- 42 infile fmly3 lrecl=1549;
- 43 input @1 newid 8. @148 finlwt21 11.3
- 44 @1516 inclass \$2.;

NOTE: The infile FMLY3 is: FILENAME=x:\diary97\fmlyd973.txt, RECFM=V,LRECL=1549

NOTE: 2606 records were read from the infile FMLY3.

The minimum record length was 1549.
The maximum record length was 1549.
NOTE: The data set WORK.FMLY3 has 2606 observations and 3 variables.

45 proc sort; by newid;46

NOTE: The data set WORK.FMLY3 has 2606 observations and 3 variables.

47 data fmly4;

48 infile fmlv4 lrecl=1549:

49 input @1 newid 8. @148 finlwt21 11.3

50 @1516 inclass \$2.;

NOTE: The infile FMLY4 is:

FILENAME=x:\diary97\fmlyd974.txt,

RECFM=V,LRECL=1549

NOTE: 3669 records were read from the infile FMLY4.

The minimum record length was 1549. The maximum record length was 1549. NOTE: The data set WORK.FMLY4 has 3699

observations and 3 variables.

51 proc sort; by newid;

52

53

NOTE: The data set WORK.FMLY4 has 3669 observations and 3 variables.

54 data fmlyall;

55 set fmly1 fmly2 fmly3 fmly4;

56 by newid;

57

58 uspop = finlwt21 / 4;

NOTE: The data set WORK.FMLYALL has 11782 observations and 4 variables.

59 proc sort; by newid;

60

NOTE: The data set WORK.FMLYALL has 11782 observations and 4 variables.

61 proc summary nway data = fmlyall (drop=finlwt21);

62 class inclass; 63 var uspop;

output out = newpop sum = popus;

NOTE: The data set WORK.NEWPOP has 10 observations and 4 variables.

65 proc transpose data = newpop out = transpop prefix = pop;

66 var popus;

67

NOTE: The data set WORK.TRANSPOP has 1 observations and 11 variables.

Lines 54-56 bring each of the 4 quarters of fmly datasets together.

Line 58 divides finlwt21 by 4 so that summing uspop later will yield the total U.S. population. (Since summing finlwt21 for each quarter will yield one U.S. population, this adjustment is necessary).

Lines 61-73 create the total population weights by income group that will be used as the denominator in calculating the average annual expenditures later in the program and prints them.

Lines 65-66 transpose the newpop dataset to match the format of the PUBRAY data set that it will be matched with later in the program.

```
set transpop;
69
70
       popt = sum (of pop1-pop10);
71
       popc = sum (of pop1-pop9);
NOTE: The data set WORK SUBAGG has 1
observations and 12 variables.
72
       proc print data=subagg;
73
       title "Population Counts for 19&y";
74
75
76
77 data dtab1;
     infile dtab1 lrecl=28;
78
     input @1 newid 8. @9 ucc $6. @15 amount 12.
79
NOTE: The infile DTAB1 is:
   FILENAME=x:\diary97\dtabd971.txt,
   RECFM=V,LRECL=28
NOTE: 45010 records were read from the infile
DTAB1.
   The minimum record length was 28.
   The maximum record length was 28.
NOTE: The data set WORK.DTAB1 has 45010
observations and 3 variables.
80
     proc sort; by newid;
81
NOTE: The data set WORK.DTAB1 has 45010
observations and 3 variables.
82 data dtab2:
83
     infile dtab2 lrecl=28;
84
     input @1 newid 8. @9 ucc $6. @15 amount 12.
NOTE: The infile DTAB2 is:
   FILENAME=x:\diary97\dtabd972.txt,
   RECFM=V,LRECL=28
NOTE: 42289 records were read from the infile
DTAB2.
   The minimum record length was 28.
   The maximum record length was 28.
```

NOTE: The data set WORK.DTAB2 has 42289

observations and 3 variables.

68 data subagg (drop = \_name\_);

Lines 68-71 take the transposed dataset and calculate popt, the all consumer units population, and popc, the all complete income reporters population.

Lines 77-95 pull in the dtab files. Newid is the consumer unit code. Ucc is a code that represents the type of income variable. Amount is the value that corresponds to the ucc code.

```
85
     proc sort; by newid;
86
NOTE: The data set WORK.DTAB2 has 42289
observations and 3 variables.
87 data dtab3;
88
     infile dtab3 lrecl=28;
89
     input @1 newid 8. @9 ucc $6. @15 amount 12.
NOTE: The infile DTAB3 is:
   FILENAME=x:\diary97\dtabd973.txt,
   RECFM=V,LRECL=28
NOTE: 41077 records were read from the infile
DTAB3.
   The minimum record length was 28.
   The maximum record length was 28.
NOTE: The data set WORK.DTAB3 has 41077
observations and 3 variables.
90
     proc sort; by newid;
91
NOTE: The data set WORK.DTAB3 has 41077
observations and 3 variables.
92 data dtab4;
     infile dtab4 lrecl=28;
93
     input @1 newid 8. @9 ucc $6. @15 amount 12.
94
NOTE: The infile DTAB4 is:
   FILENAME=x:\diary97\dtabd974.txt,
   RECFM=V,LRECL=28
NOTE: 56792 records were read from the infile
DTAB4.
   The minimum record length was 28.
   The maximum record length was 28.
NOTE: The data set WORK.DTAB4 has 56792
observations and 3 variables.
95
     proc sort; by newid;
97
NOTE: The data set WORK, DTAB4 has 56792
observations and 3 variables.
97 data dtab(rename=(amount=cost));
98
     set dtab1 dtab2 dtab3 dtab4;
99
      by newid;
```

Lines 97-99 bring the 4 quarters of dtab datasets together. The variable amount is renamed cost so that it can be merged with the expn datasets later in the program.

```
100
      proc sort; by newid;
NOTE: The data set WORK DTAB has 185168
observations and 3 variables.
101
      proc datasets;
101
              delete dtab1 dtab2 dtab3 dtab4;
102
103
NOTE: Deleting WORK.DTAB1 (memtype=DATA).
NOTE: Deleting WORK.DTAB2 (memtype=DATA).
NOTE: Deleting WORK.DTAB3 (memtype=DATA).
NOTE: Deleting WORK.DTAB4 (memtype=DATA).
104 data expn1;
105
      infile expn1 Irecl=40:
106
      input @1 newid 8. @35 ucc $6. @10 cost 12.5
NOTE: The infile EXPN1 is:
   FILENAME=x:\diary97\expnd971.txt,
   RECFM=V,LRECL=40
NOTE: 119109 records were read from the infile
EXPN1.
   The minimum record length was 40.
   The maximum record length was 40.
NOTE: The data set WORK.EXPN1 has 119109
observations and 3 variables.
107
      proc sort; by newid;
108
NOTE: The data set WORK.EXPN1 has 119109
observations and 3 variables.
109 data expn2;
      infile expn2 lrecl=40;
110
      input @1 newid 8. @35 ucc $6. @10 cost 12.5
111
NOTE: The infile EXPN2 is:
   FILENAME=x:\diary97\expnd972.txt,
   RECFM=V,LRECL=40
```

NOTE: 118081 records were read from the infile

EXPN2.

NOTE: The data set WORK, DTAB has 185168

observations and 3 variables.

Lines 101-102 delete from memory the datasets that are no longer necessary for processing.

Lines 104-122 pull in the expn files. Newid is the consumer unit code. Ucc is the code designating the type of expenditure. Cost is the amount of the expenditure.

The minimum record length was 40. The maximum record length was 40. NOTE: The data set WORK.EXPN2 has 118081 observations and 3 variables. 112 proc sort; by newid; 113 NOTE: The data set WORK.EXPN2 has 107656 observations and 3 variables. 114 data expn3; infile expn3 lrecl=40; 115 input @1 newid 8. @35 ucc \$6. @10 cost 12.5 116 NOTE: The infile EXPN3 is: FILENAME=x:\diary97\expnd973.txt, RECFM=V,LRECL=40 NOTE: 108024 records were read from the infile EXPN3. The minimum record length was 40. The maximum record length was 40. NOTE: The data set WORK.EXPN3 has 108024 observations and 3 variables. 117 proc sort; by newid; 118 NOTE: The data set WORK.EXPN3 has 108024 observations and 3 variables. 119 data expn4; 120 infile expn4 lrecl=40; 121 input @1 newid 8. @35 ucc \$6. @10 cost 12.5 NOTE: The infile EXPN4 is: FILENAME=x:\diary97\expnd974.txt, RECFM=V,LRECL=40 NOTE: 149473 records were read from the infile EXPN4. The minimum record length was 40. The maximum record length was 40. NOTE: The data set WORK.EXPN4 has 149473 observations and 3 variables.

proc sort; by newid;

122 123

observations and 3 variables. 124 data expn; 125 set expn1 expn2 expn3 expn4; 126 by newid; 127 if cost > 0; NOTE: The data set WORK.EXPN has 494687 observations and 3 variables. 128 proc sort; by newid; NOTE: The data set WORK.EXPN has 494687 observations and 3 variables. NOTE: The PROCEDURE SORT used 1 minute 24.35 seconds. 129 delete expn1 expn2 expn3 expn4; Lines 129-130 delete from memory the datasets no 130 longer needed for processing. 131 132 NOTE: Deleting WORK.EXPN1 (memtype=DATA). NOTE: Deleting WORK.EXPN2 (memtype=DATA). NOTE: Deleting WORK.EXPN3 (memtype=DATA). NOTE: Deleting WORK.EXPN4 (memtype=DATA). 133 data expend: Lines 133-136 pull the dtab and expn files together. 134 set dtab expn;

NOTE: The data set WORK.EXPEND has 679855 observations and 3 variables.

NOTE: The data set WORK.EXPN4 has 149473

136 proc sort; by newid;

by newid;

135

NOTE: The data set WORK.EXPEND has 679855observations and 3 variables.

137 proc datasets; 137 delete dtab expn; 138

NOTE: Deleting WORK.DTAB (memtype=DATA). NOTE: Deleting WORK.EXPN (memtype=DATA).

Lines 137-138 delete from memory the datasets no longer needed for processing.

```
139 data pubfile (drop= uspop);
                                                          Lines 139-147 merge the fmlyall and expend
       merge fmlyall (in = infam)
                                                          datasets together and check the cost variable to
140
141
             expend (in = inexp)
                                                          make sure that there are no missing values.
142
       by newid:
143
       if not inexp then delete;
144
       if cost='.' then cost=0;
145
146
147
       wcost = finlwt21 * cost/4;
                                                          Line 147 weights the cost variable up to the
148
                                                          population level that the consumer unit represents.
NOTE: Character values have been converted to
numeric values at the places given by:
(Line):(Column).145:13
NOTE: The data set WORK.PUBFILE has 679855
observations and 6 variables.
149
       proc summary nway data = pubfile
                                                          Lines 149-152 sum the weighted costs for the
(drop=newid):
                                                          consumer units for each ucc by income group and
150
       class ucc inclass:
                                                          outputs this as a new dataset called aggest.
151
       var wcost:
152
       output out = aggcst sum = ;
153
NOTE: The data set WORK.AGGCST has 4768
observations and 5 variables.
154
       proc datasets;
                                                          Lines 154-155 delete from memory any datasets
155
        delete expend pubfile;
                                                          that are no longer needed for processing.
156
NOTE: Deleting WORK.EXPEND (memtype=DATA).
NOTE: Deleting WORK.PUBFILE (memtype=DATA).
157 data aggray1 (drop = inclass type freq
                                                          Lines 157-167 create the variables grp1-grp10 that
wcost);
                                                          will designate the income groups and then places
                                                          the weighted cost, or expenditure, data into the
158 set aggcst;
                                                          appropriate new variable
159
      by ucc;
160
        array trncost grp1-grp10;
161
         retain grp1-grp10;
         if first.ucc then do over trncost;
162
163
           trncost = 0;
164
         end:
         I =inclass;
165
166
         trncost=wcost:
167
         if last.ucc then output;
168
NOTE: Character values have been converted to
numeric values at the places given by:
(Line):(Column).165:13
```

NOTE: The data set WORK.AGGRAY1 has 532 observations and 11 variables.

```
169 data agfile;
170 infile agg;
171 input @3 ucc $6.
172 @15 line $6.;

NOTE: The infile AGG is:
FILENAME=x:\diaru97\aggd97.txt,
RECFM=V,LRECL=256
```

NOTE: 532 records were read from the infile AGG.

The minimum record length was 20.
The maximum record length was 20.
The data set WORK ACELE has

NOTE: The data set WORK.AGFILE has 532 observations and 2 variables.

```
173 proc sort data = agfile;
174 by ucc;
175
```

NOTE: The data set WORK.AGFILE has 596 observations and 2 variables.

```
176 data pubray;
177 merge aggray1 (in = inray)
178 agfile (in = inagg);
179 by ucc;
180 if inray and inagg;
181
```

NOTE: The data set WORK.PUBRAY has 588 observations and 12 variables.

```
182 proc summary nway data = pubray;
183 class line;
184 var grp1-grp10;
185 output out =aggsum sum = ;
186
```

NOTE: The data set WORK.AGGSUM has 67 observations and 13 variables.

```
187 data cstpop1 (drop = _type_ _freq_ popt popc
pop1-pop10);
188    if _n_ = 1 then set subagg;
189       set aggsum;
190       grpt = sum (of grp1-grp10);
191       grpc = sum (of grp1-grp9);
192       array ex grpt grpc grp1-grp10;
```

Lines 169-174 pull in the file that dictates how each ucc will be summed for aggregation.

Lines 176-180 merge the dataset containing the weighted costs and the agfile. The agfile will give all costs a code called line that will be used for aggregation.

Lines 182-185 sum the weighted costs for each income group (grp1-grp10) by line and output this into a new dataset called aggsum.

Lines 187-197 create two arrays. One array is a vector from the subagg dataset that contains the population counts (popt, popc pop1-pop10). The other is a matrix of the weighted costs by income group. The costs are divided by the population counts.

```
193
       array wt popt popc pop1-pop10;
194
        do over ex;
195
         ex = ex/wt;
196
197
        end:
NOTE: The data set WORK.CSTPOP1 has 67
observations and 13 variables.
198 data numcus (rename=(popt=grpt popc=grpc
pop1=grp1 pop2=grp2
199
                pop3=grp3 pop4=grp4 pop5=grp5
pop6=grp6
200
                pop7=grp7 pop8=grp8 pop9=grp9
pop10=grp10));
       set subagg;
201
       line = '000000':
202
203
NOTE: The data set WORK.NUMCUS has 1
observations and 13 variables.
204 data cstpop;
205
       set numcus cstpop1;
206
        by line;
207
NOTE: The data set WORK.CSTPOP has 68
observations and 13 variables.
208 data addlab:
209
       infile labls:
210
       input @1 line $6. @10 title $char48.;
NOTE: The infile LABLS is:
   FILENAME=x:\diary97\labeld97.txt,
   RECFM=V,LRECL=256
NOTE: 66 records were read from the infile LABLS.
   The minimum record length was 57.
   The maximum record length was 58.
NOTE: The data set WORK.ADDLAB has 66
observations and 2 variables.
211
       proc sort; by line;
212
NOTE: The data set WORK.ADDLAB has 66
observations and 2 variables.
```

213 data pubtab (drop = line);

Lines 198-206 give the population counts a line value so that they can be printed as part of the final output, and then brings them together with the summed cost dataset that was calculated with the arrays.

Lines 208-211 pull in the label file that will put titles on the final output.

```
214 merge cstpop (in = inline)
215 addlab (in = inlabl);
216 by line;
217 if not inlabl then delete;
218
```

NOTE: The data set WORK.PUBTAB has 66 observations and 13 variables.

```
219
       proc print split='*' uniform;
220
        label
221
        grpt='
                 All* Consumer*
                                  Units*
222
        grpc='
                Total*
Complete*Reporting*_
                         Than*
        grp1='
                 Less*
$5,000*
        grp2=
               $5,000*
224
                           To*
$9.999*
        grp3=' $10,000*
225
                            To*
$14,999*
        grp4=' $15,000*
226
                            To*
$19.999*
227
        grp5=' $20,000*
                            To*
$29,999*
228
        grp6=' $30,000*
                            To*
$39,999*
        grp7=' $40,000*
229
                            To*
$49,999*
230
        grp8=' $50,000*
                            To*
$69,999*
        grp9=' $70,000*
231
                           And*
Over*
       grp10='Incomplete*
232
Income*Reporters*
       format title $char40.;
233
234
       format grpt grpc grp1-grp10 comma9.2;
235
       id title;
236
       var grpc grp1-grp9;
237
       title "CE Microdata Diary Survey Average
Weekly Expenditures, for Calendar Year 19&y by
Income";
238
       title2 ' ';
239
240 run;
```

NOTE: At least one W.D format was too small for the number to be printed. The decimal may be shifted by the "BEST" format.

Lines 213-238 merge the summed cost dataset with the titles for printing. The output is formatted and the income groups are given labels. Note that not all groups are printed – the incomplete reporters (grp10) and all consumer units (grpt).

### **B. OUTPUT**

The following observation shows the contents of the subagg data set created in lines 68-73. It represents the weighted number of CUs in each INCLASS category as well as for the total population and the population of complete income reporters.

Population Counts for 1997 09:11 Friday, September 24, 1999 OBS POP1 POP2 POP3 POP4 POP5 POP7 POP8 POP9 POP10 POPT POPC POP6 1 3443461.70 8374905.05 8207631.48 7300994.86 12091952.31 10561899.28 8095905.90 10811348.43 12482513.39 23951160.40 105321772.78 81370612.38 CE Microdata Diary Survey Average Weekly Expenditures, for Calendar Year 1997 by Income 09:11 Friday, September 24, 1999 Total \$5,000 \$10,000 \$15,000 \$20,000 \$30,000 \$40,000 \$50,000 Less \$70,000 Complete Than Тο To Тο Тο To To To And Reporting \$5,000 \$9,999 \$14,999 \$19,999 \$29,999 \$39,999 \$49,999 \$69,999 Over TITLE Number of consumer units ..... 81370612 3443461.7 8374905.0 8207631.5 7300994.9 12091952 10561899 8095905.9 Income before taxes ..... 41,371.40 2,147.10 7,611.26 12,165.50 17,436.91 24,582.71 34,610.38 44,589.29 Income after taxes..... 37,920.11 2,172.96 7,425.86 11,807.77 17,027.15 23,475.84 32,047.62 40,950.98 52,694.21 101830.24 Age of reference person...... 47.73 41.14 54.01 55.04 51.51 48.19 45.21 44.38 Average number in consumer unit: Persons ..... 2.54 1.77 1.73 2.04 2.26 2.47 2.64 2.87 2.99 3.15 Children under 18..... 0.70 0.47 0.41 0.47 0.62 0.68 0.73 0.88 0.92 0.87 Persons 65 and over..... 0.31 0.17 0.49 0.55 0.51 0.41 0.29 0.17 0.14 0.12 Earners..... 1.41 0.85 0.59 0.83 0.97 1.29 1.53 1.80 1.90 2.10 Vehicles..... 1.69 0.85 0.90 1.14 1.32 1.55 1.82 2.04 2.21 2.37 Percent distribution: 42.27 54.15 64.72 69.43 Male ..... 57.54 34.07 41.97 56.62 63.90 70.37 Female ..... 42.46 57.73 65.93 58.03 45.85 43.38 36.10 35.28 29.63 30.57 61.37 55.05 Homeowner ..... 25.25 37.66 47.44 56.10 59.43 71.24 78 25 85.85 Renter ..... 36.49 71.89 61.12 50.91 43.03 42.06 37.78 26.23 20.15 11.20 Black ..... 11.45 19.24 20.18 15.50 15.06 10.03 10.71 7.61 8.55 5.66 White and other ..... 89.97 89.29 92.39 91.45 94.34 88.55 80.76 79.82 84.50 84.94 Elementary education ..... 7.12 8.83 17.42 15.88 10.44 8.28 3.86 1.59 2.45 1.29 High school education ..... 38.05 43.61 46.07 53.05 46.33 44.31 40.94 36.60 28.62 17.01 College education ..... 54.56 45.96 35.87 30.60 43.23 47.26 55.04 61.65 68.93 81.45 Never attended and other ..... 0.28 1.60 0.64 0.47 0.00 0.15 0.15 0.16 0.00 0.24 88.76 87.88 92.47 97.34 At least one vehicle owned ...... 56.38 62.00 80.86 95.80 98.32 98.16 Food, total..... 86.00 46.68 47.24 54.81 67.55 74.05 87.24 95.68 108.16 139.22 Food at home..... 56.07 32.33 35.32 40.95 49.96 51.32 57.91 60.81 80.61 3.18 1.91 2.45 Cereals and cereal products..... 1.85 3.06 2.74 3.53 3.23 3 77 4.56 Bakery products..... 5.75 3.48 3.37 3.75 4.87 5.35 5.87 6.79 8.71 6 49 Beef..... 4.35 2.31 2 58 3.42 4.07 4 21 4 58 4 58 5 60 5.62 3.10 2.33 2.99 3.17 3.10 3.16 3.07 3.28 3.91 Pork..... 1.46 Other meats..... 1.90 1.16 1.23 1.36 1.81 1.78 1.92 2.22 2.20 2.60 Poultry..... 2.80 1.73 1.85 2.30 2.55 2.54 2.83 2.92 3.25 3.97 Fish and seafood..... 1.00 1.74 1.57 1.09 1.69 1.69 1.70 1.46 1.91 2.88 0.65 0.45 0.49 0.55 0.67 0.68 0.71 0.64 0.69 0.73 Eggs..... Fresh milk and cream..... 2.58 1.56 1.64 2.07 2.35 2.53 2.75 2.95 2.95 3.33 6.04 3 74 2 09 2 10 2.59 3 05 3.14 3 63 4 24 4 65 Other dairy products..... Fresh fruits..... 2.96 1.80 1 80 2.15 2.41 2.84 2.95 2.94 3 78 4.35 Fresh vegetables..... 2.79 1.52 1.88 2.03 2.63 2.68 2.66 2.59 3.06 4.44 Processed fruits..... 1.36 1.42 1.92 1.61 1.99 2.15 2 01 1 25 2 34 3 16 Processed vegetables..... 1.57 0.98 1.05 1 33 1.37 1.41 1 61 1.85 1 69 2.18 Sugar and other sweets..... 2.28 1.18 1.61 1 49 1.94 1 93 2.45 2 44 2.92 3.26 \$5,000 \$10,000 \$15,000 \$20,000 \$30,000 \$40,000 \$50,000 \$70,000 Total Less Complete Than To To Tο Тο Tο Tο And

| mrm. p                 | Reporting | \$5,000 | \$9,999 | \$14,999 | \$19,999 | \$29,999 | \$39,999 | \$49,999 | \$69,999 | Over  |
|------------------------|-----------|---------|---------|----------|----------|----------|----------|----------|----------|-------|
| TITLE                  |           |         |         |          |          |          |          |          |          |       |
| Fats and oils          | 1.60      | 0.97    | 1.14    | 1.27     | 1.71     | 1.46     | 1.77     | 1.62     | 1.84     | 2.02  |
| Miscellaneous foods    | 8.17      | 4.28    | 4.65    | 5.07     | 6.87     | 7.18     | 8.67     | 9.63     | 10.23    | 12.18 |
| Nonalcoholic beverages | 4.89      | 2.67    | 3.23    | 3.71     | 3.82     | 4.45     | 5.14     | 5.80     | 5.97     | 6.68  |
| Food away from home    | 29.94     | 14.35   | 11.92   | 13.86    | 17.59    | 22.73    | 29.33    | 34.87    | 41.25    | 58.61 |
| Alcoholic beverages    | 5.68      | 2.99    | 2.63    | 2.24     | 3.35     | 4.48     | 5.66     | 6.30     | 7.18     | 11.56 |

CE Microdata Diary Survey Average Weekly Expenditures, for Calendar Year 1997 by Income 9
09:11 Friday, September 24, 1999

|   | Total<br>Complete | Less<br>Than | \$5,000<br>To | \$10,000<br>To | \$15,000<br>To   | \$20,000<br>To | \$30,000<br>To | \$40,000<br>To | \$50,000<br>To | \$70,000<br>And |
|---|-------------------|--------------|---------------|----------------|------------------|----------------|----------------|----------------|----------------|-----------------|
| TITLE                                   | Reporting         | \$5,000<br>  | \$9,999       | \$14,999<br>   | \$19,999<br>———— | \$29,999<br>   | \$39,999<br>   | \$49,999<br>   | \$69,999<br>   | Over            |
| Housing                                 | 57.46             | 33.01        | 32.61         | 41.70          | 42.08            | 52.75          | 56.27          | 60.78          | 74.25          | 89.15           |
| Fuel and utilities                      | 38.47             | 23.93        | 23.59         | 31.57          | 29.92            | 38.23          | 37.64          | 37.39          | 49.61          | 53.99           |
| Household operations                    | 0.22              | 0.09         | 0.03          | 0.08           | 0.06             | 0.11           | 0.22           | 0.17           | 0.39           | 0.58            |
| Housekeeping supplies                   | 9.33              | 4.62         | 4.82          | 5.79           | 6.67             | 7.58           | 9.26           | 10.08          | 12.53          | 16.01           |
| Household furnishings and equipment     | 9.45              | 4.37         | 4.17          | 4.26           | 5.42             | 6.82           | 9.15           | 13.14          | 11.72          | 18.57           |
| Apparel and services                    | 29.78             | 15.92        | 13.53         | 12.78          | 20.29            | 22.69          | 30.18          | 29.58          | 43.83          | 55.71           |
| Men, 16 and over                        | 5.20              | 2.07         | 2.15          | 2.17           | 3.05             | 3.33           | 5.59           | 5.67           | 8.06           | 10.05           |
| Boys, 2 to 15                           | 0.59              | 0.28         | 0.15          | 0.47           | 0.38             | 0.52           | 0.38           | 0.76           | 0.69           | 1.20            |
| Women, 16 and over                      | 10.61             | 4.57         | 5.38          | 4.28           | 7.19             | 8.71           | 10.21          | 9.62           | 16.30          | 19.88           |
| Girls, 2 to 15                          | 1.11              | 0.57         | 0.28          | 0.36           | 0.85             | 0.65           | 1.45           | 1.75           | 1.34           | 2.01            |
| Children under 2                        | 1.46              | 0.36         | 0.77          | 0.65           | 1.17             | 1.41           | 1.63           | 1.64           | 2.10           | 2.14            |
| Footwear                                | 6.26              | 5.05         | 3.44          | 3.23           | 5.71             | 5.01           | 6.52           | 6.60           | 8.66           | 9.50            |
| Other apparel products and services     | 4.55              | 3.01         | 1.35          | 1.62           | 1.93             | 3.06           | 4.40           | 3.54           | 6.68           | 10.93           |
| Transportation                          | 21.45             | 10.59        | 8.29          | 13.54          | 13.49            | 19.16          | 21.11          | 24.64          | 28.07          | 37.86           |
| Non-prescription drugs and supplies     | 2.88              | 1.66         | 1.94          | 2.28           | 2.13             | 2.93           | 3.65           | 3.10           | 2.86           | 3.84            |
| Entertainment                           | 8.23              | 3.08         | 3.13          | 5.25           | 5.53             | 5.51           | 7.86           | 8.30           | 12.26          | 16.00           |
| Radios, sound equipment                 | 0.53              | 0.00         | 0.08          | 0.90           | 0.72             | 0.32           | 1.00           | 0.29           | 0.32           | 0.78            |
| Pet food and supplies                   | 2.58              | 1.25         | 1.10          | 1.61           | 1.59             | 2.28           | 2.29           | 2.99           | 3.56           | 4.60            |
| Toys, games, playground equipment       | 2.52              | 1.03         | 0.95          | 0.99           | 1.31             | 1.73           | 2.64           | 2.50           | 4.57           | 4.63            |
| Other entertainment supplies, equipment | 2.59              | 0.80         | 1.00          | 1.75           | 1.91             | 1.18           | 1.94           | 2.52           | 3.81           | 5.98            |
| Personal care products and services     | 4.94              | 1.65         | 2.32          | 2.84           | 3.69             | 4.89           | 6.22           | 4.86           | 6.02           | 7.78            |
| Miscellaneous                           | 2.81              | 0.86         | 1.31          | 1.45           | 1.89             | 1.75           | 3.47           | 4.76           | 3.72           | 4.22            |

# 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 Census Bureau 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 Census Bureau 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 processing carried out by the Bureau of the Census includes clerical data edits and adjustments. Upon completion by respondents, the diaries are returned to the regional offices, where they undergo a cursory field edit. They are then sent to the Data Preparation Division in Jeffersonville, Indiana, where more detailed edits are done for completeness and consistency. Codes are also assigned to reported expenditure items and to demographic characteristics of CU members.

After clerical processing, the data are keyed and transmitted to the Census Processing Center in Washington, D.C. Here computer programs are run which derive CU weights based on BLS specifications, impute demographic and work experience characteristics when missing or invalid, and apply appropriate sales taxes to expenditure items. Final tapes of the edited and coded data are then transmitted to the BLS on a monthly basis.

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

Upon receipt of the data from the Bureau of the Census, 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 viewing diaries on microfilm. Errors discovered through this procedure are corrected prior to release of the data for public use.

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 1997 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 1997 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 6,050 participating sample units. To achieve this target the total estimated work load is 8,180 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 1997 Diary Survey is 77.1% as shown below. This response rate refers to all diaries in the year.

| Number of          |                  | Eligible housing unit interviews |                    |                   |  |  |  |
|--------------------|------------------|----------------------------------|--------------------|-------------------|--|--|--|
| diaries designated | Type B or C      | Number of                        | Type A             | Total respondent  |  |  |  |
| for the survey     | ineligible cases | potential diaries                | <u>nonresponse</u> | <u>interviews</u> |  |  |  |
| 19,062             | 3.788            | 15.274                           | 3.492              | 11.782            |  |  |  |

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.
- 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.

Underlined UCCs may not be represented in all quarters. The quarter in which the deletion (addition) occurs is denoted by a leading superscript directly prior to the UCC code. For example, A(D)971 (UCC) identifies an addition (deletion) of a given UCC code beginning in Q971.

## 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

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004100 Cash gifts
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- 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

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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
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180420 Olives, pickles, relishes

180510 Sauces and gravies

180520 Other condiments

100020 Other conditions

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

A971 180720 Vitamin supplements

- 190110 Lunch at restaurants, cafes, etc...
- 190210 Dinner at restaurants, cafes, etc...
- 190310 Snacks and non alcoholic beverages, including tip
- 190320 Breakfast and brunch at restaurants, cafes, etc...
- 190901 Food or board, at school and rooming/boarding houses
- 190902 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
- 200510 Beer and ale away from home
- 200520 Wine away from home
- 200530 Other alcoholic beverages away from home
- 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
- 220310 Contracted mortgage interest
- 220400 Purchase of property or real estate
- 220410 Home purchase
- 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
- 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

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270310 Community antenna or cable TV
270410 Garbage, trash collection
270510 Telephone interstate calls
270610 Telephone intrastate calls
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
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
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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, nonpermanent 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, refurnishing, 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 freshner, etc...
- 480213 Battery replacement, floormats, seatcovers, 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

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490412 Electrical system repair
490413 Motor repair and replacement
490900 Auto repair service policy
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, guaze, 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
<sup>1</sup>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)
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| 590220   | Books purchased through book clubs   |
|--|--|
|  | Books not purchased through book clubs   |
| 590900   | Newsletters  |
| 600110   | Outboard motor   |
| 600120   | Unpowered boats, trailers  |
| 600130   | Powered sports vehicles  |
|  | Ping pong, pool tables, other similar items, general sports equipment, and health and  |
| 600210   | exercise equipment   |
|  | Bicycles Comping aguipment   |
|  | Camping equipment Hunting and fishing equipment  |
|  | Winter sports equipment  |
|  | Water sports and miscellaneous sports equipment  |
|  | Toys, games, hobbies, tricycles, and battery powered riders  |
|  | Playground equipment   |
|  | Musical instruments and accessories  |
| 610210   |  |
|  | Other photographic supplies  |
|  | Photographic equipment   |
| 610310   | Pet food   |
| 610320   | Pets, pet supplies and medicine for pets   |
| 610901   | Fireworks  |
|  | Souvenirs  |
|  | Visual goods   |
| 620111   | Membership fees for country clubs, health clubs, swimming pools tennis clubs, social or  |
|  | other recreational organizations, civic, service, or fraternal organizations   |
|  | Membership fees for credit card memberships  |
|  | Membership fees for automobile service clubs   |
| 620121   | Fees for participant sports, such as golf, tennis, and bowling   |
| 000011   |  |
| 620211   | Admission fees for entertainment activities, including lectures, movie, theatre, concert, opera  |
|  | Admission fees for entertainment activities, including lectures, movie, theatre, concert, opera or other musical series  |
| 620221   | Admission fees for entertainment activities, including lectures, movie, theatre, concert, opera or other musical series  Admission fees to sporting events   |
| 620221<br>620310   | Admission fees for entertainment activities, including lectures, movie, theatre, concert, opera or other musical series  Admission fees to sporting events  Fees for recreational lessons or other instructions  |
| 620221<br>620310<br>620320   | Admission fees for entertainment activities, including lectures, movie, theatre, concert, opera or other musical series  Admission fees to sporting events  Fees for recreational lessons or other instructions  Photographer fees   |
| 620221<br>620310<br>620320<br>620330   | Admission fees for entertainment activities, including lectures, movie, theatre, concert, opera or other musical series  Admission fees to sporting events  Fees for recreational lessons or other instructions  Photographer fees  Film processing  |
| 620221<br>620310<br>620320<br>620330<br>620410   | Admission fees for entertainment activities, including lectures, movie, theatre, concert, opera or other musical series  Admission fees to sporting events Fees for recreational lessons or other instructions  Photographer fees Film processing Pet services   |
| 620221<br>620310<br>620320<br>620330<br>620410<br>620420   | Admission fees for entertainment activities, including lectures, movie, theatre, concert, opera or other musical series  Admission fees to sporting events Fees for recreational lessons or other instructions Photographer fees Film processing Pet services Veterinarian expenses for pets   |
| 620221<br>620310<br>620320<br>620330<br>620410<br>620420<br>620510   | Admission fees for entertainment activities, including lectures, movie, theatre, concert, opera or other musical series  Admission fees to sporting events Fees for recreational lessons or other instructions Photographer fees Film processing Pet services Veterinarian expenses for pets Miscellaneous fees for admissions   |
| 620221<br>620310<br>620320<br>620330<br>620410<br>620420<br>620510<br>620610   | Admission fees for entertainment activities, including lectures, movie, theatre, concert, opera or other musical series  Admission fees to sporting events Fees for recreational lessons or other instructions Photographer fees Film processing Pet services Veterinarian expenses for pets Miscellaneous fees for admissions Miscellaneous entertainment services  |
| 620221<br>620310<br>620320<br>620330<br>620410<br>620420<br>620510<br>620610<br>620710   | Admission fees for entertainment activities, including lectures, movie, theatre, concert, opera or other musical series  Admission fees to sporting events Fees for recreational lessons or other instructions Photographer fees Film processing Pet services Veterinarian expenses for pets Miscellaneous fees for admissions Miscellaneous entertainment services Camp fees  |
| 620221<br>620310<br>620320<br>620330<br>620410<br>620420<br>620510<br>620610<br>620710<br>620810   | Admission fees for entertainment activities, including lectures, movie, theatre, concert, opera or other musical series  Admission fees to sporting events Fees for recreational lessons or other instructions Photographer fees Film processing Pet services Veterinarian expenses for pets Miscellaneous fees for admissions Miscellaneous entertainment services  |
| 620221<br>620310<br>620320<br>620330<br>620410<br>620420<br>620510<br>620610<br>620710<br>620810   | Admission fees for entertainment activities, including lectures, movie, theatre, concert, opera or other musical series  Admission fees to sporting events Fees for recreational lessons or other instructions Photographer fees Film processing Pet services Veterinarian expenses for pets Miscellaneous fees for admissions Miscellaneous entertainment services Camp fees Rental and repair of sports, photographic and music equipment  |
| 620221<br>620310<br>620320<br>620330<br>620410<br>620420<br>620510<br>620610<br>620710<br>620810<br>620911   | Admission fees for entertainment activities, including lectures, movie, theatre, concert, opera or other musical series  Admission fees to sporting events Fees for recreational lessons or other instructions Photographer fees Film processing Pet services Veterinarian expenses for pets Miscellaneous fees for admissions Miscellaneous entertainment services Camp fees Rental and repair of sports, photographic and music equipment Miscellaneous fees and pari-mutuel losses, licenses for sports and entertainment, passport   |
| 620221<br>620310<br>620320<br>620330<br>620410<br>620420<br>620510<br>620610<br>620710<br>620810<br>620911<br>620912<br>620913   | Admission fees for entertainment activities, including lectures, movie, theatre, concert, opera or other musical series  Admission fees to sporting events Fees for recreational lessons or other instructions Photographer fees Film processing Pet services Veterinarian expenses for pets Miscellaneous fees for admissions Miscellaneous entertainment services Camp fees Rental and repair of sports, photographic and music equipment Miscellaneous fees and pari-mutuel losses, licenses for sports and entertainment, passport fees, taxidermist fees Rental of video cassettes, tapes, and discs Coin-operated pinball/electronic video games   |
| 620221<br>620310<br>620320<br>620330<br>620410<br>620420<br>620510<br>620610<br>620710<br>620810<br>620911<br>620912<br>620913<br>620915   | Admission fees for entertainment activities, including lectures, movie, theatre, concert, opera or other musical series  Admission fees to sporting events Fees for recreational lessons or other instructions Photographer fees Film processing Pet services Veterinarian expenses for pets Miscellaneous fees for admissions Miscellaneous entertainment services Camp fees Rental and repair of sports, photographic and music equipment Miscellaneous fees and pari-mutuel losses, licenses for sports and entertainment, passport fees, taxidermist fees Rental of video cassettes, tapes, and discs Coin-operated pinball/electronic video games Passport fees   |
| 620221<br>620310<br>620320<br>620330<br>620410<br>620420<br>620510<br>620610<br>620710<br>620810<br>620911<br>620913<br>620915<br>630110   | Admission fees for entertainment activities, including lectures, movie, theatre, concert, opera or other musical series  Admission fees to sporting events Fees for recreational lessons or other instructions Photographer fees Film processing Pet services Veterinarian expenses for pets Miscellaneous fees for admissions Miscellaneous entertainment services Camp fees Rental and repair of sports, photographic and music equipment Miscellaneous fees and pari-mutuel losses, licenses for sports and entertainment, passport fees, taxidermist fees Rental of video cassettes, tapes, and discs Coin-operated pinball/electronic video games Passport fees Cigarettes  |
| 620221<br>620310<br>620320<br>620330<br>620410<br>620420<br>620510<br>620610<br>620710<br>620911<br>620911<br>620913<br>620915<br>630110<br>630210   | Admission fees for entertainment activities, including lectures, movie, theatre, concert, opera or other musical series  Admission fees to sporting events Fees for recreational lessons or other instructions Photographer fees Film processing Pet services Veterinarian expenses for pets Miscellaneous fees for admissions Miscellaneous entertainment services Camp fees Rental and repair of sports, photographic and music equipment Miscellaneous fees and pari-mutuel losses, licenses for sports and entertainment, passport fees, taxidermist fees Rental of video cassettes, tapes, and discs Coin-operated pinball/electronic video games Passport fees Cigarettes Cigars, pipe tobacco, and other tobacco products   |
| 620221<br>620310<br>620320<br>620330<br>620410<br>620420<br>620510<br>620610<br>620710<br>620911<br>620911<br>620915<br>630110<br>630210<br>630220   | Admission fees for entertainment activities, including lectures, movie, theatre, concert, opera or other musical series  Admission fees to sporting events Fees for recreational lessons or other instructions Photographer fees Film processing Pet services Veterinarian expenses for pets Miscellaneous fees for admissions Miscellaneous entertainment services Camp fees Rental and repair of sports, photographic and music equipment Miscellaneous fees and pari-mutuel losses, licenses for sports and entertainment, passport fees, taxidermist fees Rental of video cassettes, tapes, and discs Coin-operated pinball/electronic video games Passport fees Cigarettes Cigars, pipe tobacco, and other tobacco products Smoking accessories   |
| 620221<br>620310<br>620320<br>620330<br>620410<br>620420<br>620510<br>620610<br>620710<br>620911<br>620911<br>620915<br>630110<br>630210<br>630220<br>630900   | Admission fees for entertainment activities, including lectures, movie, theatre, concert, opera or other musical series  Admission fees to sporting events Fees for recreational lessons or other instructions Photographer fees Film processing Pet services Veterinarian expenses for pets Miscellaneous fees for admissions Miscellaneous entertainment services Camp fees Rental and repair of sports, photographic and music equipment Miscellaneous fees and pari-mutuel losses, licenses for sports and entertainment, passport fees, taxidermist fees Rental of video cassettes, tapes, and discs Coin-operated pinball/electronic video games Passport fees Cigarettes Cigars, pipe tobacco, and other tobacco products Smoking accessories Marijuana   |
| 620221<br>620310<br>620320<br>620330<br>620410<br>620420<br>620510<br>620610<br>620710<br>620911<br>620911<br>620915<br>630110<br>630210<br>630220<br>630900<br>640110                               | Admission fees for entertainment activities, including lectures, movie, theatre, concert, opera or other musical series  Admission fees to sporting events Fees for recreational lessons or other instructions Photographer fees Film processing Pet services Veterinarian expenses for pets Miscellaneous fees for admissions Miscellaneous entertainment services Camp fees Rental and repair of sports, photographic and music equipment Miscellaneous fees and pari-mutuel losses, licenses for sports and entertainment, passport fees, taxidermist fees Rental of video cassettes, tapes, and discs Coin-operated pinball/electronic video games Passport fees Cigarettes Cigarettes Cigars, pipe tobacco, and other tobacco products Smoking accessories Marijuana Hair care products   |
| 620221<br>620310<br>620320<br>620330<br>620410<br>620420<br>620510<br>620610<br>620710<br>620911<br>620911<br>620913<br>620915<br>630110<br>630210<br>630220<br>630900<br>640110<br>640120           | Admission fees for entertainment activities, including lectures, movie, theatre, concert, opera or other musical series  Admission fees to sporting events Fees for recreational lessons or other instructions Photographer fees Film processing Pet services Veterinarian expenses for pets Miscellaneous fees for admissions Miscellaneous entertainment services Camp fees Rental and repair of sports, photographic and music equipment Miscellaneous fees and pari-mutuel losses, licenses for sports and entertainment, passport fees, taxidermist fees Rental of video cassettes, tapes, and discs Coin-operated pinball/electronic video games Passport fees Cigarettes Cigars, pipe tobacco, and other tobacco products Smoking accessories Marijuana Hair care products Non-electric articles for the hair   |
| 620221<br>620310<br>620320<br>620330<br>620410<br>620420<br>620510<br>620610<br>620710<br>620911<br>620911<br>620915<br>630110<br>630210<br>630220<br>630900<br>640110<br>640120<br>640130           | Admission fees for entertainment activities, including lectures, movie, theatre, concert, opera or other musical series  Admission fees to sporting events Fees for recreational lessons or other instructions Photographer fees Film processing Pet services Veterinarian expenses for pets Miscellaneous fees for admissions Miscellaneous entertainment services Camp fees Rental and repair of sports, photographic and music equipment Miscellaneous fees and pari-mutuel losses, licenses for sports and entertainment, passport fees, taxidermist fees Rental of video cassettes, tapes, and discs Coin-operated pinball/electronic video games Passport fees Cigarettes Cigars, pipe tobacco, and other tobacco products Smoking accessories Marijuana Hair care products Non-electric articles for the hair Wigs, hairpieces, and toupees   |
| 620221<br>620310<br>620320<br>620330<br>620410<br>620420<br>620510<br>620610<br>620710<br>620911<br>620913<br>620915<br>630110<br>630210<br>630220<br>630900<br>640110<br>640120<br>640130<br>640210 | Admission fees for entertainment activities, including lectures, movie, theatre, concert, opera or other musical series Admission fees to sporting events Fees for recreational lessons or other instructions Photographer fees Film processing Pet services Veterinarian expenses for pets Miscellaneous fees for admissions Miscellaneous entertainment services Camp fees Rental and repair of sports, photographic and music equipment Miscellaneous fees and pari-mutuel losses, licenses for sports and entertainment, passport fees, taxidermist fees Rental of video cassettes, tapes, and discs Coin-operated pinball/electronic video games Passport fees Cigarettes Cigarettes Cigars, pipe tobacco, and other tobacco products Smoking accessories Marijuana Hair care products Non-electric articles for the hair Wigs, hairpieces, and toupees Oral hygiene products, articles |
| 620221<br>620310<br>620320<br>620330<br>620410<br>620420<br>620510<br>620610<br>620710<br>620911<br>620913<br>620915<br>630110<br>630210<br>630220<br>630900<br>640110<br>640120<br>640210<br>640220 | Admission fees for entertainment activities, including lectures, movie, theatre, concert, opera or other musical series  Admission fees to sporting events Fees for recreational lessons or other instructions Photographer fees Film processing Pet services Veterinarian expenses for pets Miscellaneous fees for admissions Miscellaneous entertainment services Camp fees Rental and repair of sports, photographic and music equipment Miscellaneous fees and pari-mutuel losses, licenses for sports and entertainment, passport fees, taxidermist fees Rental of video cassettes, tapes, and discs Coin-operated pinball/electronic video games Passport fees Cigarettes Cigars, pipe tobacco, and other tobacco products Smoking accessories Marijuana Hair care products Non-electric articles for the hair Wigs, hairpieces, and toupees   |

|        | care products, nail preparations, manicure and eyemake-up implements and accessories  |
|--------|---|
| 640410 | Deodorant, female hygiene products, miscellaneous personal care products and supplies |
|        | Electrical personal care appliances   |
|        | Personal care services for females, including haircuts                                |
|        | Personal care services for males, including haircuts                                  |
| 650900 | Rental and repair of personal care appliances   |
|        | 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  |
|        | School books, supplies, and equipment for day care center, nursery school and other   |
|        | Tuition for college   |
|        | Tuition for elementary and high school  |
|        | Other expenses for day care centers and nursery schools, including tuition            |
|        | Tuition for other schools   |
|        | Rentals of books and equipment, and other school-related expenses                     |
|        | Legal fees, excluding real estate closing costs                                       |
|        | Funeral, burial or cremation expenses   |
|        | Safe deposit box rental   |
|        | Charges for checking accounts and other banking services, excluding safe deposit      |
|        | Purchase and upkeep of cemetery lots or vaults  |
|        | Accounting fees   |
|        | Miscellaneous personal services, advertising, fines, duplicating services             |
|        | Computers for non-business use, hardware and software excluding video games           |
|        | Computer information services   |
|        | Telephone answering devices   |
|        | Calculators   |
|        | Typewriters and other office machines for non-business use                            |
|        | Home ownership expense not specified  |
|        | Taxes not specified   |
|        | Unidentifiable items - Parts 1 and 2  |
| 999935 | Unidentifiable items - Parts 3, 4, and 5  |

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

# \*L denotes UCC's could have negative values

| *L<br>*L<br>*L | 800700<br>800710<br>800910<br>800920<br>800931<br>800932<br>800940<br>900000<br>900010<br>900020<br>900030<br>900040<br>900050<br>900060<br>900070 | Meals received as pay Rent received as pay Payroll deductions for government retirement Payroll deductions for railroad retirement Payroll deductions for private pensions Non-payroll deposit to individual retirement plan, such as IRA's Payroll deductions for social security Wages and salaries Net business income Net farm income Social security and railroad retirement income Pensions and annuities Dividends, royalties, estates, or trusts Income from roomers and boarders 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 either 100 or 0 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, if not, the UCC will have a value of zero. 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 |
| 980330 | Percent vehicle owner                                |

# XIV. APPENDIX 3 -- UCC AGGREGATION

The following shows the UCC aggregation used in the sample program. This information is provided on the AGGregation and LABel files (Section III.E.5. PROCESSING FILES)

| Food                                    | 040440 400002 200442                          |
|---|---|
| Food                                    | 010110-190902, 200112                         |
| Food at home                            | 010110-180720, 200112                         |
| Cereal and cereal products              | 010110-010320                                 |
| Bakery products                         | 020110-020820                                 |
| Beef                                    | 030110-030810                                 |
| Pork                                    | 040110-040610                                 |
| Other meats                             | 050110-050900                                 |
| Poultry                                 | 060110-060310                                 |
| Fish and seafood                        | 070110-070240                                 |
| Eggs                                    | 080110  |
| Fresh milk and cream                    | 090110-090210                                 |
| Other dairy products                    | 100110-100510                                 |
| Fresh fruits                            | 110110-110510                                 |
| Fresh vegetables                        | 120110-120410                                 |
| Processed fruits                        | 130110-130320                                 |
| Processed vegetables                    | 140110-140420                                 |
| Sugar and other sweets                  | 150110-150310                                 |
| Fats and oils                           | 160110-160320                                 |
| Miscellaneous foods                     | 180110-180720                                 |
| Nonalcoholic beverages                  | 170110-170530, 200112                         |
| Food away from home                     | 190110-190902                                 |
| Alcoholic beverages                     | 200111, 200210-200530                         |
| Housing                                 | 250110-300900, 320110-340913                  |
| Fuel and utilities                      | 250110-270000                                 |
| Household operations                    | 340520, 340913                                |
| Housekeeping supplies                   | 330110-340120                                 |
| Household furnishings and equipment     | 300900-320905                                 |
| Apparel and services                    | 360110-360901, 370110-370901, 380110-380902,  |
| Apparer and services                    | 390110-390901, 410110-410140, 410901, 400110- |
|   | 400310, 420110-430120, 440110-440900          |
| Men, 16 and over                        | 360210-360901                                 |
|   |   |
| Boys, 2 to 15                           | 370130-370220                                 |
| Women, 16 and over                      | 380110-380902                                 |
| Girls, 2 to 15                          | 390120-390322                                 |
| Children under 2                        | 410120-410901                                 |
| Footwear                                | 400110-400310                                 |
| Other apparel products and services     | 420110-430120, 440120-440210                  |
| Transportation                          | 470111-470220, 480212-49000, 49316, 520541    |
| Non-prescription drugs and supplies     | 550210-550410, 570902                         |
| Entertainment                           | 310311-310332, 310334, 600210-620913          |
| Radios, sound equipment                 | 310311-310332, 310334                         |
| Pet food and supplies                   | 610310-610320                                 |
| Toys, games, playground equipment       | 610110-610120                                 |
| Other entertainment supplies, equipment | 600210-600420, 610220-610903, 620320, 620913  |
| Personal care products and services     | 640110-640410                                 |
| Miscellaneous                           | 620911, 630220, 680903                        |

# 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

|          | Start    |          | Start    |          | Start    |
|----------|----------|----------|----------|----------|----------|
| Variable | Position | Variable | Position | Variable | Position |
| NEWID    | 1        | FBSNSX_  | 91       | FS_AMT5_ | 248      |
| ADDFEDX  | 9        | FD_STMPS | 92       | FS_AMT6  | 249      |
| ADDFEDX_ | 17       | FD_S_MPS | 93       | FS_AMT6_ | 257      |
| ADDOTHX  | 18       | FEDREFX  | 94       | FS_AMT7  | 258      |
| ADDOTHX_ | 26       | FEDREFX_ | 102      | FS_AMT7_ | 266      |
| ADDSTAX  | 27       | FFARMX   | 103      | FS_AMT8  | 267      |
| ADDSTAX_ | 35       | FFARMX_  | 111      | FS_AMT8_ | 275      |
| AGE_REF  | 36       | FFEDTXX  | 112      | FS_DATE1 | 276      |
| AGE_REF_ | 38       | FFEDTXX_ | 120      | FS_D_TE1 | 284      |
| AGE2     | 39       | FGVX     | 121      | FS_DATE2 | 285      |
| AGE2_    | 41       | FGVX_    | 129      | FS_D_TE2 | 293      |
| BLS_URBN | 42       | FINCAFTX | 130      | FS_DATE3 | 294      |
| CUTENURE | 43       | FINC_FTX | 138      | FS_D_TE3 | 302      |
| CUTE_URE | 44       | FINCBEFX | 139      | FS_DATE4 | 303      |
| DESCRIP  | 45       | FINC_EFX | 147      | FS_D_TE4 | 311      |
| DESCRIP_ | 47       | FINLWT21 | 148      | FS_DATE5 | 312      |
| DIVX     | 48       | FIRAX    | 159      | FS_D_TE5 | 320      |
| DIVX_    | 56       | FIRAX_   | 167      | FS_DATE6 | 321      |
| EARNCOMP | 57       | FJSSDEDX | 168      | FS_D_TE6 | 329      |
| EARN_OMP | 58       | FJSS_EDX | 176      | FS_DATE7 | 330      |
| EARNX    | 59       | FPVTX    | 177      | FS_D_TE7 | 338      |
| EARNX_   | 67       | FPVTX_   | 185      | FS_DATE8 | 339      |
| EDUC_REF | 68       | FREEMLX  | 186      | FS_D_TE8 | 347      |
| EDUC0REF | 70       | FREEMLX_ | 194      | FS_MTHI  | 348      |
| EDUCA2   | 71       | FRRX     | 195      | FS_MTHI_ | 350      |
| EDUCA2_  | 73       | FRRX_    | 203      | FSS_RRX  | 351      |
| EMPLTYP1 | 74       | FS_AMT1  | 204      | FSS_RRX_ | 359      |
| EMPL_YP1 | 75       | FS_AMT1_ | 212      | FSTATXX  | 360      |
| EMPLTYP2 | 76       | FS_AMT2  | 213      | FSTATXX_ | 368      |
| EMPL_YP2 | 77       | FS_AMT2_ | 221      | FSUPPX   | 369      |
| FAM_SIZE | 78       | FS_AMT3  | 222      | FSUPPX_  | 377      |
| FAMIZE   | 80       | FS_AMT3_ | 230      | FWAGEX   | 378      |
| FAM_TYPE | 81       | FS_AMT4  | 231      | FWAGEX_  | 386      |
| FAMYPE   | 82       | FS_AMT4_ | 239      | HRSPRWK1 | 387      |
| FBSNSX   | 83       | FS_AMT5  | 240      | HRSP_WK1 | 390      |

| Variable   | Start<br>Position | Variable | Start<br>Position | Variable           | Start<br>Position      |
|------------|-------------------|----------|-------------------|--------------------|------------------------|
| HRSPRWK2   | 391               | PICK_UP  | 559               | WK_W_KD1           | 674                    |
| HRSP_WK2   | 394               | OCCULIS1 | 561               | WK_WRKD2           | 675                    |
| INC_RNKU   | 395               | OCCU_IS1 | 563               | WK_W_KD2           | 677                    |
| INCNKU     | 404               | POPSIZE  | 564               | WRKRSX             | 678                    |
| INSREFX    | 405               | PTAXREFX | 565               | WRKRSX_            | 686                    |
| INSREFX    | 413               | PTAX_EFX | 573               | WTREP01            | 687                    |
| INTX       | 414               | RACE2    | 574               | WTREP02            | 698                    |
| INTX_      | 422               | RACE2_   | 575               | WTREP03            | 709                    |
| JFS_AMT    | 423               | REC FS   | 576               | WTREP04            | 720                    |
| JFS_AMT_   | 431               | REC_FS_  | 577               | WTREP05            | 731                    |
| JGRCFDMV   | 432               | REF_RACE | 578               | WTREP06            | 742                    |
| JGRC_DMV   | 438               | REFACE   | 579               | WTREP07            | 753                    |
| JGRCFDWK   | 439               | REGION   | 580               | WTREP08            | 764                    |
| JGRC_DWK   | 445               | REGION   | 581               | WTREP09            | 70 <del>4</del><br>775 |
| JGROCYMV   | 446               | RESPSTAT | 582               | WTREP10            | 775<br>786             |
| JGRO_YMV   | 440<br>452        | RESP_TAT | 583               | WTREP10            | 797                    |
|            |                   |          |                   | WTREP11<br>WTREP12 |                        |
| JGROCYWK   | 453               | ROOMX    | 584               |                    | 808                    |
| JGRO_YWK   | 459<br>460        | ROOMX_   | 592               | WTREP13            | 819                    |
| LUMPX      | 460               | SALEX    | 593               | WTREP14            | 830                    |
| LUMPX_     | 468               | SALEX_   | 601               | WTREP15            | 841                    |
| MARITAL1   | 469               | SEX_REF  | 602               | WTREP16            | 852                    |
| MARI_AL1   | 470               | SEX_REF_ | 603               | WTREP17            | 863                    |
| NO_EARNR   | 471               | SEX2     | 604               | WTREP18            | 874                    |
| NO_E_RNR   | 473               | SEX2_    | 605               | WTREP19            | 885                    |
| NONERNX    | 474               | SMSASTAT | 606               | WTREP20            | 896                    |
| NONERNX_   | 482               | SSREFX   | 607               | WTREP21            | 907                    |
| OCCEXPNX   | 483               | SSREFX_  | 615               | WTREP22            | 918                    |
| OCCE_PNX   | 491               | STATREFX | 616               | WTREP23            | 929                    |
| OCCULIS2   | 492               | STAT_EFX | 624               | WTREP24            | 940                    |
| OCCU_IS2   | 494               | STRTDAY  | 625               | WTREP25            | 951                    |
| ORIGIN1    | 495               | STRTMNTH | 627               | WTREP26            | 962                    |
| ORIGIN1_   | 497               | STRTYEAR | 629               | WTREP27            | 973                    |
| ORIGIN2    | 497               | TAXPROPX | 633               | WTREP28            | 984                    |
| ORIGIN2_   | 498               | TAXP_OPX | 641               | WTREP29            | 995                    |
| OTHINX     | 499               | TYPOWND  | 642               | WTREP30            | 1006                   |
| OTHINX_    | 507               | TYPOWND_ | 643               | WTREP31            | 1017                   |
| OTHRECX    | 508               | UNEMPX   | 644               | WTREP32            | 1028                   |
| OTHRECX_   | 516               | UNEMPX_  | 652               | WTREP33            | 1039                   |
| OTHREFX    | 517               | VEHQ     | 653               | WTREP34            | 1050                   |
| OTHREFX_   | 525               | VEHQ_    | 655               | WTREP35            | 1061                   |
| OTHRNTX    | 526               | WEEKI    | 656               | WTREP36            | 1072                   |
| OTHRNTX_   | 534               | WEEKI_   | 657               | WTREP37            | 1083                   |
| PENSIONX   | 535               | WEEKN    | 658               | WTREP38            | 1094                   |
| PENS_ONX   | 543               | WELFRX   | 659               | WTREP39            | 1105                   |
| PERSLT18   | 544               | WELFRX   | 667               | WTREP40            | 1116                   |
| PERS_T18   | 546               | WHYNWRK1 | 668               | WTREP41            | 1127                   |
| PERSOT64   | 547               | WHYN_RK1 | 669               | WTREP42            | 1138                   |
| PERS_T64   | 549               | WHYNWRK2 | 670               | WTREP43            | 1149                   |
| PERSTAX    | 550               | WHYN_RK2 | 671               | WTREP43            | 1160                   |
| PERSTAX_   | 558               | WK_WRKD1 | 672               | FOODTOT            | 1171                   |
| I LINGTAA_ | 550               | MUZMUNDI | 012               | וטועטטו            | 11/1                   |

| Variable | Start<br>Position | Variable | Start<br>Position | Variable | Start<br>Position |
|----------|-------------------|----------|-------------------|----------|-------------------|
| FOODHOME | 1183              | NONALBEV | 1375              | CHIL_AGE | 1515              |
| CEREAL   | 1195              | OILS     | 1387              | INCLASS  | 1516              |
| BAKEPROD | 1207              | MISCFOOD | 1399              | STATE    | 1518              |
| BEEF     | 1219              | FOODAWAY | 1411              | STATE_   | 1520              |
| PORK     | 1231              | ALCBEV   | 1423              | CHDOTHX  | 1521              |
| OTHMEAT  | 1243              | SMOKSUPP | 1435              | CHDOTHX_ | 1529              |
| POULTRY  | 1255              | PET_FOOD | 1447              | ALIOTHX  | 1530              |
| SEAFOOD  | 1267              | PERSPROD | 1459              | ALIOTHX_ | 1538              |
| EGGS     | 1279              | PERSSERV | 1471              | CHDLMPX  | 1539              |
| MILKPROD | 1291              | DRUGSUPP | 1483              | CHDLMPX_ | 1547              |
| OTHDAIRY | 1303              | HOUSKEEP | 1495              | POVERTY  | 1548              |
| FRSHFRUT | 1315              | HH_CU_Q  | 1507              | POVERTY_ | 1549              |
| FRSHVEG  | 1327              | HH_CU_Q_ | 1509              |          |                   |
| PROCFRUT | 1339              | HHID     | 1510              |          |                   |
| PROCVEG  | 1351              | HHID_    | 1513              |          |                   |
| SWEETS   | 1363              | CHILDAGE | 1514              |          |                   |

# **B. MEMB FILE**

| Variable | Start<br>Position | Variable | Start<br>Position | Variable | Start<br>Position |
|----------|-------------------|----------|-------------------|----------|-------------------|
|          |                   |          |                   |          |                   |
| NEWID    | 1                 | FEDTXX   | 86                | SCHLNCHX | 165               |
| AGE      | 9                 | FEDTXX_  | 94                | SCHL_CHX | 173               |
| AGE_     | 11                | GROSPAYX | 95                | SEX      | 174               |
| ANFEDTXX | 12                | GROS_AYX | 103               | SEX_     | 175               |
| ANFE_TXX | 20                | GVX      | 104               | SLFEMPSS | 176               |
| ANGVX    | 21                | GVX_     | 112               | SLFE_PSS | 182               |
| ANGVX_   | 29                | HRSPERWK | 113               | SS_RRX   | 183               |
| ANPVTX   | 30                | HRSP_RWK | 116               | SS_RRX_  | 191               |
| ANPVTX_  | 38                | IRAX     | 117               | STA_SUPP | 192               |
| ANRRX    | 39                | IRAX_    | 125               | STAUPP   | 193               |
| ANRRX_   | 47                | JSSDEDX  | 126               | STATXX   | 194               |
| ANSTATXX | 48                | JSSDEDX_ | 132               | STATXX_  | 202               |
| ANST_TXX | 56                | MARITAL  | 133               | SUPPX    | 203               |
| ANYRAIL  | 57                | MARITAL_ | 134               | SUPPX_   | 211               |
| ANYRAIL_ | 58                | MEMBNO   | 135               | US_SUPP  | 212               |
| ANYSSINC | 59                | OCCULIST | 137               | US_SUPP_ | 213               |
| ANYS_INC | 60                | OCCU_IST | 139               | WAGEX    | 214               |
| BSNSX    | 61                | ORIGIN   | 140               | WAGEX_   | 222               |
| BSNSX_   | 69                | ORIGIN_  | 141               | WHYNOWRK | 223               |
| CU_CODE1 | 70                | PVTX     | 142               | WHYN_WRK | 224               |
| CU_C_DE1 | 71                | PVTX_    | 150               | WKS_WRKD | 225               |
| EDUCA    | 72                | RACE     | 151               | WKSRKD   | 227               |
| EDUCA_   | 74                | RACE_    | 152               | SS_RRQ   | 228               |
| EMPLTYPE | 75                | RRX      | 153               | SS_RRQ_  | 232               |
| EMPL_YPE | 76                | RRX_     | 161               | SOCRRX   | 233               |
| FARMX    | 77                | SCHLNCHQ | 162               | SOCRRX_  | 241               |
| FARMX_   | 85                | SCHL_CHQ | 164               | ARM_FORC | 242               |

|          | Start    |          | Start    |          | Start    |
|----------|----------|----------|----------|----------|----------|
| Variable | Position | Variable | Position | Variable | Position |
| ARM ORC  | 243      | IN COLL  | 245      | MEDI ARE | 247      |
| IN_COLL  | 244      | MEDICARE | 246      | _        |          |

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

A list of publications containing data from the CE program appears below. Bulletins may be purchased from the Chicago regional sales center, from the U.S. Government Printing Office, Washington D.C., 20402, or from National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia 22161. To place a telephone order with National Technical Information Service, call (703)-487-4650, or for a rush order, call 1(800)-553-NTIS.

| Consumer Expenditure Survey, 1996-<br>97,<br>Bulletin (expected release Autumn<br>1999) | 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 1997,<br>Report 927 (1999)                                     | Consumer unit income and expenditures, integrated data from Diary and Interview Surveys, classified by consumer unit characteristics. 10 tables. Available on request (202)-606-6900.  |
| Consumer Expenditures in 1996,<br>Report 926 (1998)                                     | Consumer unit income and expenditures, integrated data from Diary and Interview Surveys, classified by consumer unit characteristics. 10 tables. Available on request (202)-606-6900.  |
| Consumer Expenditure Survey, 1994-<br>95,<br>Bulletin 2492 (1997)                       | 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 Expenditure Survey, 1992-<br>93,<br>Bulletin 2462 (1995)                       | Consumer unit income and expenditures, integrated data from Diary and Interview Surveys, classified by consumer unit characteristics: one way and cross tabulations, relative and aggregate shares. 60 tables, 245 pages.  Available at the Government Printing Office, stock number 029-001-03214-5, \$15.00. |
| Consumer Expenditure Survey, 1990-<br>91,<br>Bulletin 2425 (1993)                       | Consumer unit income and expenditures, integrated data from Diary and Interview Surveys, classified by consumer unit characteristics: one way and cross tabulations, relative and aggregate shares. 60 tables, 256 pages. NTIS Accession No. PB95-190948, \$36.50 for paper copy, \$17.50 for microfiche.      |
| Consumer Expenditure Survey, 1988-<br>89,<br>Bulletin 2383 (1991)                       | Consumer unit income and expenditures, integrated data from Interview and Diary Surveys, classified by consumer unit characteristics: one way and cross tabulations. 40 tables, 199 pages. NTIS Accession #PB92130061, \$36.00 for paper copy, \$17.50 for microfiche.   |

Bulletin 2354 (1990)

Consumer Expenditure Survey, 1987, Consumer unit income and expenditures, integrated data from Interview and Diary Surveys, classified by consumer unit characteristics; one way and cross tabulations. 29 tables, 153 pages. NTIS Accession #PB92131622, \$27.00 for paper copy. \$12.50 for microfiche.

Consumer Expenditure Survey: Integrated Survey Data, 1984-86, Bulletin 2333 (1989)

Consumer unit income and expenditures, integrated data from Interview and Diary Surveys, classified by consumer unit characteristics: one way and cross tabulation. 34 tables, 171 pages. NTIS Accession #PB92131515, \$27.00 for paper copy, \$12.50 for microfiche.

Consumer Expenditure Interview Survey: Quarterly Data, 1984-1987, Bulletin 2332 (1989)

Consumer unit income and expenditures from the Interview Survey presented by quarter, classified by consumer unit characteristics; region, size, age, quintiles, income before taxes, and tenure tables included. 100 tables, 113 pages. NTIS Accession #PB92131523. \$27.00 for paper copy, \$12.50 for microfiche.

#### CONSUMER EXPENDITURE SURVEY: QUARTERLY DATA FROM THE INTERVIEW SURVEY

These quarterly reports present selected expenditure data and include a brief analysis of trends in consumer spending or other topics related to the Consumer Expenditure Survey. Requests for these reports can be made at (202)606-6900.

## **CONSUMER EXPENDITURE DATA ON THE INTERNET**

Commonly-requested CE data tables can be found on-line at http://stats.bls.gov/csxhome.htm. Tables of integrated Diary and Interview data from 1984 forward are available under the following headings: Standard tables, Cross-tabulated tables, and Metropolitan Statistical Area tables.

#### **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) 606-6325 and follow the voice prompts. CE data that are accessible on FAXSTAT are for the most recent year available

#### **PUBLIC-USE TAPES**

Public-use tapes for the Diary and Interview Surveys are available for single years from 1984 to 1995, and as two-year tapes for 1982-83 and 1980-81. Seven public-use tapes are available from the 1972-73 survey including Diary Survey, detailed food quantity tapes; and integrated adjusted Quarterly Interview Survey- Summary, Detailed, Consumer Durables, and Clothing and Household Textiles tapes. Information about the tapes is available from the BLS national office. (See Section XVII. INQUIRIES, SUGGESTIONS, AND COMMENTS)

#### **COMPACT DISKS**

CE microdata on compact disk are available from the Bureau of Labor Statistics for 1972-73. 1984-85, 1990-91, 1992-93, 1994, 1995, 1996, and 1997. The 1984-85 through 1997 releases contain Interview and Diary data, while the 1972-73 CD includes Interview data only. The 1984-85, 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 1994-1996 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 that are found on the Consumer Expenditure Survey data diskettes. (see DISKETTES below)

#### DISKETTES

Diskettes containing integrated Diary and Interview survey data on consumer expenditures, income, and characteristics are available for the years 1984 through 1997. The diskettes are for use with IBM-compatible microcomputers with 3 1/2" disk drives. Users may specify either a Lotus 1-2-3 or an ASCII format.

The data on the diskettes are average annual expenditures by American consumers. They are presented in tables classified by 12 standard characteristics: quintiles of income, income class, age, size of consumer unit, composition of consumer unit, number of earners, housing tenure, race, type of area (urban-rural), region, occupation, and origin. Also on these diskettes are: data classified by income before taxes, cross-tabulated by age, by family size, or by region; data for selected Metropolitan Statistical Areas; and data for single persons classified by gender, cross-tabulated by age or by income. Expenditure categories in these tables are similar to those shown in the tables of the bulletin publications. For a more detailed description and an order form contact the BLS national office. (See Section XVII. INQUIRIES, SUGGESTIONS, AND COMMENTS)

#### STANDARD ERROR TABLES

Standard error tables for 1997 Interview and Diary data are available from the BLS national office upon request. These are cell specific, and therefore extensive.

### STATE CODES ON DISKETTE

State codes from 1980 to 1993 are available on diskette for the Interview Survey. The diskettes contain the variables NEWID and STATE, thus enabling the microdata user to identify the states in which consumer units reside. Caution should be exercised when analysis is done by state, due to the composition of some PSU's. PSU's in some state border areas may not be unique to one state, but may contain CU's from two or more states. (See Section X.D. STATE IDENTIFIER) Also, because of nondisclosure requirements STATE has been suppressed for some sampled CU's. (See Section IV.A. CU CHARACTERISTICS AND INCOME FILE (FMLY)) The state data diskettes are free and may be obtained by contacting the BLS national office. (See Section XVII. INQUIRIES, SUGGESTIONS, AND COMMENTS)

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

If you have any questions, suggestions, or comments about the survey, the microdata, or its documentation, please call. (202) 606-6900

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.