

1999 CONSUMER EXPENDITURE 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, and articles in the Monthly Labor Review. Tabulated CE data are also available on the Internet and by facsimile transmission (see Section XV. Appendix 4). The microdata are available online at the Consumer Expenditure website.

These microdata files present detailed expenditure and income data for the Diary component of the CE for 1999. They include weekly expenditure (EXPD) and annual income (DTBD) files. The data in EXPD and DTBD files are categorized by a Universal Classification Code (UCC). The advantage of the EXPD and DTBD files is that with the data classified in a standardized format, the user may perform comparative expenditure (income) analysis with relative ease. The FMLD and MEMD files present data on the characteristics and demographics of CUs and CU members. The summary level expenditure and income information on the FMLD 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 1999 from the Diary survey, integrated with data from the Interview survey, are published in *Consumer Expenditures in 1999 Report 949 (2001)*. 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, 1999".

II. Changes from the 1998 Microdata Files

Beginning with 1999Q1, the sample size increased by approximately 50 percent.

a. FMLD files

- 1) The following variables have been added to the FMLD file. Fields were appended to the end of the file.

Variable	Format
POVLEV	NUM(8)
POVLEV_	CHAR(1)

- 2) Code 5 (RACE = Other) for the variables REF_RACE and RACE2 has been deleted.

b. MEMD files

- 1) Code 5 (RACE = Other) for the variable RACE has been deleted.

c. EXPD files

- 1) The following are EXPD file PUB_FLAG value changes beginning in 1999Q1.

UCC	New Pub_Flag value
270310	1
320110	1
650900	2

III. File Information

The microdata are available as SAS, STATA, and SPSS data sets or ASCII comma-delimited files. The 1999 Diary release contains four sets of data files (FMLD, MEMD, EXPD, DTBD) and four processing files. The FMLD, MEMD, EXPD, and DTBD 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 FMLD files contain CU characteristics, income, and summary level expenditures; the MEMD files contain member characteristics and income data; the EXPD files contain detailed weekly expenditures at the UCC level; and the DTBD 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 (LABELD), 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.

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

A. Data Set Names

The file naming convention is as follows:

(where "X" references the designated drive where you have saved the microdata)

X:\DIARY99\FMLD991.*	(Diary FMLD file for first quarter, 1999)
X:\DIARY99\MEMD991.*	(Diary MEMD file for first quarter, 1999)
X:\DIARY99\EXPD991.*	(Diary EXPD file for first quarter, 1999)
X:\DIARY99\DTBD991.*	(Diary DTBD file for first quarter, 1999)
X:\DIARY99\FMLD992.*	(etc.)
X:\DIARY99\MEMD992.*	
X:\DIARY99\EXPD992.*	
X:\DIARY99\DTBD992.*	
X:\DIARY99\FMLD993.*	
X:\DIARY99\MEMD993.*	
X:\DIARY99\EXPD993.*	
X:\DIARY99\DTBD993.*	
X:\DIARY99\FMLD994.*	
X:\DIARY99\MEMD994.*	
X:\DIARY99\EXPD994.*	
X:\DIARY99\DTBD994.*	
X:\DIARY99\AGGD99.txt	
X:\DIARY99\LABELD99.txt	
X:\DIARY99\UCCD99.txt	

B. Record Counts per Quarter

The following are number of records in each data set:

Data set	1999 Record Count
FMLD991.*	3863
MEMD991.*	9979
EXPD991.*	163323
DTBD991.*	58544
FMLD992.*	3796
MEMD992.*	9752
EXPD992.*	160783
DTBD992.*	57627
FMLD993.*	3796
MEMD993.*	9767
EXPD993.*	160809
DTBD993.*	56969
FMLD994.*	3740
MEMD994.*	9451
EXPD994.*	160162
DTBD994.*	55924

C. Data Flags

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

The flag values are defined as follows:

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

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

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

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

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

A flag value of "R" for recode has been created for the variable STATE_. Some Primary Sampling Units (PSUs) in some states are given "false" STATE codes for nondisclosure reasons. CUs with STATE_='R' (for recode) indicate that not all CUs with that particular STATE code are from that state. See Section IV.A.CU CHARACTERISTICS AND INCOME FILE (FMLD) 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, and identification of codes where applicable 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.

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(Y991) indicates the variable is deleted starting with the data file of the first quarter of 1999.

*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 (FMLD)

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

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

a. CU and Diary Identifiers

Variable	Item Description	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	NUM(8)
	BLS derived	

HH_CU_Q	Count of CUs in this household BLS derived	NUM(2)
HH_CU_Q -		CHAR(1)
HHID	Identifier for household with more than one CU. Household with only one CU will be set to missing. BLS derived	NUM(3)
HHID_		CHAR(1)
WEEKI	Week of the Diary CODED 1 First week Diary 2 Second week Diary Census derived	CHAR(1)
WEEKI_		CHAR(1)
WEEKN	Number of Diary weeks surveyed, 1 or 2 BLS derived	NUM(1)
STRTDAY	Diary start date - date Cover 19	CHAR(2)
STRTMNT H	Diary start date - month Cover 19	CHAR(2)
STRTYEA R	Diary start date - year Cover 19	CHAR(4)
PICK_UP	Final interview status CODED 01 Diary placed or completed 03 Temporarily absent during ENTIRE reference period Cover 20	CHAR(2)

b. CU Characteristics

Variable	Item Description	Format
REGION	Region CODED 1 Northeast 2 Midwest 3 South 4 West BLS derived	CHAR(1)

REGION_ CHAR(1)

BLS_URB Urban/Rural CHAR(1)
N CODED
1 Urban
2 Rural

BLS derived

POPSIZE Population size of the PSU 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

SMSASTA Does CU reside inside a Metropolitan Statistical Area (MSA)? CHAR(1)
T CODED
1 Yes
2 No

BLS derived

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

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

- * indicates that the STATE code has been suppressed for all sampled CUs in that state (STATE_ = 'T' for all observations).
- ** indicates that the STATE code has been suppressed for some sampled CUs in that state (STATE_ = 'T' for some observations).
- R indicates that either all observations from this state have been re-coded or all strata¹ of observations from this state include "re-codes" from other states.
- RR indicates that either some observations from this state have been re-coded or at least one stratum¹ of observations from this state includes "re-codes" from other states.
- R* indicates that the STATE code has been suppressed for some sampled CUs in that state and, either STATE has been re-coded or the state includes "re-codes" from other states in all strata¹.
- 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 stratum¹.

¹ A STATE stratum is a unique POPSIZE and BLS_URBN combination.

States not listed are not in the CE sample.

Census derived

STATE_		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	CHAR(1)
	BLS derived	
CUTE_URE		CHAR(1)
FAM_SIZE	Number of members in CU	NUM(2)
	BLS derived	
FAM__IZE		CHAR(1)
PERSLT18	Number of children less than 18 in CU	NUM(2)
	BLS derived	
PERS_T18		CHAR(1)
PERSOT64	Number of persons over 64 in CU	NUM(2)
	BLS derived	
PERS_T64		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 BLS derived	CHAR(1)
CHIL_AGE		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	CHAR(1)
FAM__YPE		CHAR(1)
NO_EARNR	Number of earners BLS derived	NUM(2)
NO_E_RNR		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 8 No earners BLS derived	CHAR(1)

EARN_OMP		CHAR(1)
VEHQ	How many automobiles, trucks, or other vehicles do you own? S02 4B	NUM(2)
VEHQ_		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 BLS derived	CHAR(2)
RESPSTAT	Completeness of income response CODED 1 Complete income respondent 2 Incomplete income respondent BLS derived	CHAR(1)
RESP_TAT		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. BLS derived	NUM(9,7)
INC__NKU		CHAR(1)
POVERTY	Is CU income below current year's poverty threshold? (Income is defined as FINCBEFX - JFS_AMT) CODED 1 Yes 2 No BLS derived	CHAR(1)
POVERTY_		CHAR(1)
POVLEV	Poverty level threshold for this CU N(991) BLS derived	NUM (8)

POVLEV_ N(991) CHAR (1)

c. Characteristics of Reference Person and Spouse

Variable	Item Description	Format
AGE_REF	Age of reference person BLS derived	NUM(2)
AGE_REF_		CHAR(1)
*REF_RACE	Race of reference person CODED 1 White 2 Black 3 American Indian, Aleut, or Eskimo 4 Asian or Pacific Islander BLS derived	CHAR(1)
REF__ACE		CHAR(1)
SEX_REF	Sex of reference person CODED 1 Male 2 Female BLS derived	CHAR(1)
SEX_REF_		CHAR(1)
MARITAL1	Marital status of reference person CODED 1 Married 2 Widowed 3 Divorced 4 Separated 5 Never married BLS derived	CHAR(1)
MARI_AL1		CHAR(1)

ORIGIN1	Origin or ancestry of reference person 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 BLS derived	CHAR(1)
ORIGIN1_		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 BLS derived	CHAR(2)
EDUC0REF		CHAR(1)
AGE2	Age of spouse BLS derived	NUM(2)
AGE2_		CHAR(1)
*RACE2	Race of spouse CODED - same as REF_RACE BLS derived	CHAR(1)
RACE2_		CHAR(1)

SEX2	Sex of spouse CODED - same as SEX_REF BLS derived	CHAR(1)
SEX2_		CHAR(1)
ORIGIN2	Origin or ancestry of spouse CODED - same as ORIGIN1 BLS derived	CHAR(1)
ORIGIN2_		CHAR(1)
EDUCA2	Education of spouse CODED - same as EDUC_REF BLS derived	CHAR(2)
EDUCA2_		CHAR(1)

d. Work Experience of Reference Person and Spouse

Variable	Item Description	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. BLS derived	NUM(2)
WK_W_KD1		CHAR(1)
HRSPRWK1	Number of hours usually worked per week by reference person BLS derived	NUM(3)
HRSP_WK1		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 11 Machine operator, assembler, inspector	CHAR(2)

- 12 Transportation operator
- 13 Handler, helper, laborer, precision production, craft, repair
- 14 Mechanic, repairer, precision production
- 15 Construction, mining
- 16 Farming
- 17 Forestry, fishing, groundskeeping
- 18 Armed forces

BLS derived

OCCU_IS1 CHAR(1)

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

CODED

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

BLS derived

EMPL_YP1 CHAR(1)

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

CODED

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

BLS derived

WHYN_RK1 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. NUM(2)

BLS derived

WK_W_KD2 CHAR(1)

HRSPRWK2 Number of hours usually worked per week by spouse NUM(3)

BLS derived

HRSP_WK2 CHAR(1)

OCCULIS2	Job in which spouse received the most earnings during the past 12 months CODED - same as OCCULIS1 S04A 4a	CHAR(2)
OCCU_IS2		CHAR(1)
EMPLTYP2	Employer from which spouse received the most earnings during the past 12 months CODED - Same as EMPLTYP1 BLS derived	CHAR(1)
EMPL_YP2		CHAR(1)
WHYNWRK2	Reason spouse did not work during the past 12 months CODED - same as WHYNWRK1 BLS derived	CHAR(1)
WHYN_RK2		CHAR(1)
OCCEXPDX	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? S04B 5	NUM(8)
OCCE_PNX		CHAR(1)

e. Income

Variable	Item Description	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 BLS derived	NUM(8)
FINC_EFX		CHAR(1)
FINCAFTX	Amount of CU income after taxes in past 12 months (FINCBEFX - PERSTAX) *L BLS derived	NUM(8)
FINC_FTX		CHAR(1)

EARNX	Amount of earned income before taxes by CU in past 12 months (FWAGEX + FBSNSX + FFARMX) *L BLS derived	NUM(8)
EARNX_		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 BLS derived	NUM(8)
NONERNX_		CHAR(1)
FWAGEX	Amount of wage and salary income before deductions received by all CU members in past 12 months (Sum WAGEX from MEMD file for all CU members) BLS derived	NUM(8)
FWAGEX_		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 MEMD file for all CU members) *L BLS derived	NUM(8)
FBSNSX_		CHAR(1)
FFARMX	Amount of income or loss from own farm received by all CU members in past 12 months (Sum FARMX from MEMD file for all CU members) *L BLS derived	NUM(8)
FFARMX_		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 MEMD file for all CU members) BLS derived	NUM(8)
FSS_RRX_		CHAR(1)

FSUPPX	Amount of Supplemental Security Income from all sources received by all CU members in past 12 months (Sum SUPPX from MEMD file for all CU members)	NUM(8)
	BLS derived	
FSUPPX_		CHAR(1)
UNEMPX	During the past 12 months, what was the total amount of income from unemployment compensation received by ALL CU members?	NUM(8)
	S04B 1a	
UNEMPX_		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?	NUM(8)
	S04B 1b	
WRKRSX_		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?	NUM(8)
	S04B 1c	
WELFRX_		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?	NUM(8)
	S04B 1d	
INTX_		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?	NUM(8)
	S04B 1e	
DIVX_		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?	NUM(8)
	S04B 1f	
PENS_ONX		CHAR(1)

ROOMX	During the past 12 months, how much net income or loss was received from roomers or boarders? *L S04B 1g(1)	NUM(8)
ROOMX_		CHAR(1)
OTHRNTX	During the past 12 months, how much net income or loss was received from payments from other rental units? *L S04B 1g(2)	NUM(8)
OTHRNTX_		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? S04B 2c	NUM(8)
OTHINX_		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? S04B 1h(2)	NUM(8)
CHDOTHX_		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? S04B 1i(2)	NUM(8)
ALIOTHX_		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 BLS derived	NUM(8)
JFS_AMT_		CHAR(1)

f. **Other Money Receipts**

Variable	Item Description	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) BLS derived	NUM(8)
OTHRECX_		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? S04B 2a	NUM(8)
LUMPX_		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? S04B 1h(1)	NUM(8)
CHDLMPX_		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? S04B 2b	NUM(8)
SALEX_		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? S04B 3c	NUM(8)
SSREFX_		CHAR(1)
INSREFX	During the past 12 months, what was the total amount of refund received from insurance policies by ALL CU members? S04B 3d	NUM(8)
INSREFX_		CHAR(1)

PTAXREFX	During the past 12 months, what was the total amount of refund received from property taxes by ALL CU members?	NUM(8)
	S04B 3e	
PTAX_EFX		CHAR(1)

g. Taxes

Variable	Item Description	Format
PERSTAX	Amount of personal taxes paid by CU in past 12 months (ADDFEDX + ADDSTAX + ADDOTHX + FFEDTXX + FSTATXX + TAXPROPX) - (FEDREFX + STATREFX + OTHREFX) *L BLS derived	NUM(8)
PERSTAX_		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? S04B 4c	NUM(8)
TAXP_OPX		CHAR(1)
FFEDTXX	Amount of Federal income tax deducted from last pay annualized for all CU members (sum ANFEDTXX from MEMD file for all CU members) BLS derived	NUM(8)
FFEDTXX_		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? S04B 4a	NUM(8)
ADDFEDX_		CHAR(1)
FEDREFX	During the past 12 months, what was the total amount of refund received from Federal income tax by ALL CU members? S04B 3a	NUM(8)
FEDREFX_		CHAR(1)

FSTATXX	Amount of state and local income taxes deducted from last pay annualized for all CU members (sum ANSTATXX from MEMD file for all CU members)	NUM(8)
	BLS derived	
FSTATXX_		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?	NUM(8)
	S04B 4b	
ADDSTAX_		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?	NUM(8)
	S04B 3b	
STAT_EFX		CHAR(1)
ADDOTHX	During the past 12 months, what was the total amount PAID for other taxes not reported elsewhere by ALL CU members?	NUM(8)
	S04B 4d	
ADDOTHX_		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?	NUM(8)
	S04B 3f	
OTHREFX_		CHAR(1)

h. Retirement and Pension Deductions

Variable	Item Description	Format
FJSSDEDX	Estimated amount of income contributed to Social Security by all CU members in past 12 months (Sum JSSDEDX from MEMD file for all CU members)	NUM(8)
	BLS derived	
FJSS_EDX		CHAR(1)

FRRX	Amount of Railroad Retirement deducted from last pay annualized for all CU members (Sum ANRRX from MEMD file for all CU members)	NUM(8)
	BLS derived	
FRRX_		CHAR(1)
FGVX	Amount of government retirement deducted from last pay annualized for all CU members (Sum ANGVX from MEMD file for all CU members)	NUM(8)
	BLS derived	
FGVX_		CHAR(1)
FPVTX	Amount of private pension fund deducted from last pay annualized for all CU members (sum ANPVTX from MEMD file for all CU members)	NUM(8)
	BLS derived	
FPVTX_		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 MEMD file for all CU members)	NUM(8)
	BLS derived	
FIRAX_		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

<u>Variable</u>	<u>Item Description</u>	<u>Format</u>
REC_FS	Have any members of your CU received any Food Stamps, during the past 12 months? CODED 1 Yes 2 No S04B 8a	CHAR(1)
REC_FS_		CHAR(1)
FD_STMPS	Have any members of your CU received any Food Stamps, in the past month? CODED 1 Yes 2 No S04B 9a	CHAR(1)

FD_S_MPS		CHAR(1)
FS_MTHI	In how many of the past 12 months were Food Stamps received? S04B 8b	NUM(2)
FS_MTHI_		CHAR(1)
FS_AMT1	What is the dollar value of Food Stamps received on <i>(Date in 9b)</i> - first entry S04B 9c	NUM(8)
FS_AMT1_		CHAR(1)
FS_AMT2	See FS_AMT1 for question and source - second entry	NUM(8)
FS_AMT2_		CHAR(1)
FS_AMT3	See FS_AMT1 for question and source - third entry	NUM(8)
FS_AMT3_		CHAR(1)
FS_AMT4	See FS_AMT1 for question and source - fourth entry	NUM(8)
FS_AMT4_		CHAR(1)
FS_AMT5	See FS_AMT1 for question and source - fifth entry	NUM(8)
FS_AMT5_		CHAR(1)
FS_AMT6	See FS_AMT1 for question and source - sixth entry	NUM(8)
FS_AMT6_		CHAR(1)
FS_AMT7	See FS_AMT1 for question and source - seventh entry	NUM(8)
FS_AMT7_		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 S04B 9b	NUM(8)
FS_D_TE1		CHAR(1)
FS_DATE2	See FS_DATE1 for question and source - second entry	NUM(8)
FS_D_TE2		CHAR(1)
FS_DATE3	See FS_DATE1 for question and source - third entry	NUM(8)
FS_D_TE3		CHAR(1)
FS_DATE4	See FS_DATE1 for question and source - fourth entry	NUM(8)

FS_D_TE4		CHAR(1)
FS_DATE5	See FS_DATE1 for question and source - fifth entry	NUM(8)
FS_D_TE5		CHAR(1)
FS_DATE6	See FS_DATE1 for question and source - sixth entry	NUM(8)
FS_D_TE6		CHAR(1)
FS_DATE7	See FS_DATE1 for question and source - seventh entry	NUM(8)
FS_D_TE7		CHAR(1)

j. Free Meals and Groceries

Variable	Item Description	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? S04B 6b	NUM(8)
FREEMLX_		CHAR(1)
JGROCYMV	Monthly expenditure for grocery store purchases BLS derived	NUM(6)
JGRO_YMV		CHAR(1)
GROCYWK	Weekly expenditure for grocery store purchases BLS derived	NUM(6)
JGRO_YWK		CHAR(1)
JGRCFDMV	Monthly expenditure for food and non-alcoholic beverages purchased at grocery store BLS derived	NUM(6)
JGRC_DMV		CHAR(1)
JGRCFDWK	Weekly expenditure for food and non-alcoholic beverages purchased at grocery store BLS derived	NUM(6)
JGRC_DWK		CHAR(1)

k. Housing Structure

Variable	Item Description	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 Cover 13c and 13d	CHAR(2)
DESCRIP_		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 S02 1c	CHAR(1)
TYPOWND_		CHAR(1)

l. Weights

Variable	Item Description	Format
FINLWT21	CU replicate weight # 45 (total sample weight) BLS derived	NUM(11,3)
The following are the 44 half sample replicate weights, WTREP01 through WTREP44, which are used for variance computation. They are all BLS derived variables.		
WTREP01	CU replicate weight # 01	NUM(11,3)
WTREP02	CU replicate weight # 02	NUM(11,3)
WTREP03	CU replicate weight # 03	NUM(11,3)
WTREP04	CU replicate weight # 04	NUM(11,3)
WTREP05	CU replicate weight # 05	NUM(11,3)
WTREP06	CU replicate weight # 06	NUM(11,3)

WTREP07	CU replicate weight # 07	NUM(11,3)
WTREP08	CU replicate weight # 08	NUM(11,3)
WTREP09	CU replicate weight # 09	NUM(11,3)
WTREP10	CU replicate weight # 10	NUM(11,3)
WTREP11	CU replicate weight # 11	NUM(11,3)
WTREP12	CU replicate weight # 12	NUM(11,3)
WTREP13	CU replicate weight # 13	NUM(11,3)
WTREP14	CU replicate weight # 14	NUM(11,3)
WTREP15	CU replicate weight # 15	NUM(11,3)
WTREP16	CU replicate weight # 16	NUM(11,3)
WTREP17	CU replicate weight # 17	NUM(11,3)
WTREP18	CU replicate weight # 18	NUM(11,3)
WTREP19	CU replicate weight # 19	NUM(11,3)
WTREP20	CU replicate weight # 20	NUM(11,3)
WTREP21	CU replicate weight # 21	NUM(11,3)
WTREP22	CU replicate weight # 22	NUM(11,3)
WTREP23	CU replicate weight # 23	NUM(11,3)
WTREP24	CU replicate weight # 24	NUM(11,3)
WTREP25	CU replicate weight # 25	NUM(11,3)
WTREP26	CU replicate weight # 26	NUM(11,3)
WTREP27	CU replicate weight # 27	NUM(11,3)
WTREP28	CU replicate weight # 28	NUM(11,3)
WTREP29	CU replicate weight # 29	NUM(11,3)
WTREP30	CU replicate weight # 30	NUM(11,3)
WTREP31	CU replicate weight # 31	NUM(11,3)
WTREP32	CU replicate weight # 32	NUM(11,3)
WTREP33	CU replicate weight # 33	NUM(11,3)
WTREP34	CU replicate weight # 34	NUM(11,3)
WTREP35	CU replicate weight # 35	NUM(11,3)
WTREP36	CU replicate weight # 36	NUM(11,3)

WTREP37	CU replicate weight # 37	NUM(11,3)
WTREP38	CU replicate weight # 38	NUM(11,3)
WTREP39	CU replicate weight # 39	NUM(11,3)
WTREP40	CU replicate weight # 40	NUM(11,3)
WTREP41	CU replicate weight # 41	NUM(11,3)
WTREP42	CU replicate weight # 42	NUM(11,3)
WTREP43	CU replicate weight # 43	NUM(11,3)
WTREP44	CU replicate weight # 44	NUM(11,3)

m. Summary Expenditure Data

The variables FOODTOT through HOUSKEEP contain summary expenditure data. They are all BLS derived. The UCCs comprising each summary expenditure variable are listed below the variable description. Underlined UCCs may not be represented in all Diary quarters. The quarter in which the addition (deletion) to the summary expenditure variable occurs is denoted by a leading superscript directly prior to the UCC code. For example, ^{N991}<UCC> or ^{D991}<UCC> identifies a new or deleted UCC for a given summary expenditure variable beginning in Q991.

Variable	Item Description	Format
FOODTOT	Food, total FOODHOME + FOODAWAY	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	NUM(12,5)
CEREAL	Cereal and cereal products 010110 010120 010210 010310 010320	NUM(12,5)
BAKEPROD	Bakery products 020110 020210 020310 020410 020510 020610 020620 020710 020810 020820	NUM(12,5)
BEEF	Beef 030110 030210 030310 030410 030510 030610 030710 030810	NUM(12,5)
PORK	Pork 040110 040210 040310 040410 040510 040610	NUM(12,5)
OTHMEAT	Other meats 050110 050210 050310 050410 050900	NUM(12,5)
POULTRY	Poultry 060110 060210 060310	NUM(12,5)

SEAFOOD	Fish and seafood 070110 070230 070240	NUM(12,5)
EGGS	Eggs 080110	NUM(12,5)
MILKPROD	Fresh milk and cream 090110 090210	NUM(12,5)
OTHDAIRY	Other dairy products 100110 100210 100410 100510	NUM(12,5)
FRSHFRUT	Fresh fruits 110110 110210 110410 110510	NUM(12,5)
FRSHVEG	Fresh vegetables 120110 120210 120310 120410	NUM(12,5)
PROCFRUT	Processed fruits 130110 130121 130122 130211 130212 130310 130320	NUM(12,5)
PROCVEG	Processed vegetables 140110 140210 140220 140230 140310 140320 140330 140340 140410 140420	NUM(12,5)
SWEETS	Sugar and other sweets 150110 150211 150212 150310	NUM(12,5)
NONALBEV	Nonalcoholic beverages 170110 170210 170310 170410 170510 170520 170530 200112	NUM(12,5)
OILS	Fats and oils 160110 160211 160212 160310 160320	NUM(12,5)
MISCFOOD	Miscellaneous foods 180110 180210 180310 180320 180410 180420 180510 180520 180611 180612 180620 180710 180720	NUM(12,5)
FOODAWAY	Food away from home 190111 190112 190113 190114 190115 190116 190211 190212 190213 190214 190215 190216 190311 190312 190313 190314 190315 190316 190321 190322 190323 190324 190325 190326 190921 190922 190923 190924 190925 190926 190911 190912 190913 190914 190915 190916	NUM(12,5)
ALCBEV	Alcoholic beverages 200111 200210 200310 200410 200511 200512 200513 200516 200521 200522 200523 200526 200531 200532 200533 200536	NUM(12,5)
SMOKSUPP	Tobacco products and smoking supplies 630110 630210 630220 630900	NUM(12,5)
PET_FOOD	Pet food 610310	NUM(12,5)

PERSPROD	Personal care products 640110 640120 640130 640210 640220 640310 640410 640420	NUM(12,5)
PERSSERV	Personal care services 650110 650210 650900	NUM(12,5)
DRUGSUPP	Non-prescription drugs and supplies 550110 550210 550310 550320 550330 550410 550900 570901 570902	NUM(12,5)
HOUSKEEP	Housekeeping supplies and services 330110 330210 330310 330410 330510 330610 340110 340120	NUM(12,5)

2. **Member Characteristics and Income File (MEMD)**

The "MEMD" 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 MEMD file and FMLD file.

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

a. **CU and Member Identifiers**

Variable	Item Description	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	NUM(8)
	BLS derived	
MEMDNO	Member number	NUM(2)
	S01 1	

b. Characteristics of Member

Variable	Item Description	Format
CU_CODE1	What is the member's relationship to (<i>reference person</i>)? 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 S01 4	CHAR(1)
CU_C_DE1		CHAR(1)
AGE	What is the member's date of birth? (Age is verified.) S01 9	NUM(2)
AGE_		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 S01 10	CHAR(1)
RACE_		CHAR(1)
SEX	Is the member male or female? CODED 1 Male 2 Female S01 6	CHAR(1)
SEX_		CHAR(1)
MARITAL	Is the member now . . . ? (Marital status) CODED 1 Married 2 Widowed 3 Divorced 4 Separated 5 Never married S01 12	CHAR(1)
MARITAL_		CHAR(1)

ORIGIN What is the member's ethnic origin or ancestry? CHAR(1)
 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 African-American
 4 Another group not listed / Don't know
 S01 11

ORIGIN_ CHAR(1)

EDUCA What is the highest level of school the member has completed or the highest degree the member has received? CHAR(2)
 CODED
 00 Never attended school
 01-11 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
 S01 13a

EDUCA_ CHAR(1)

IN_COLL Is the member currently enrolled in a college or university either . . .? CHAR(1)
 CODED
 1 Full time
 2 Part time
 3 Not at all
 S01 13b

IN_COLL_		CHAR(1)
ARM_FORC	Is member now in the Armed Forces? CODED 1 Yes 2 No S01 14	CHAR(1)
ARM__ORC		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? S02 5b(d)	NUM(2)
SCHL_CHQ		CHAR(1)
SCHLNCHX	What is the usual weekly expense for the meals the member purchased at school? S02 5b(c)	NUM(8)
SCHL_CHX		CHAR(1)

c. Work Experience of Members

Variable	Item Description	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. S04A 2	NUM(2)
WKS__RKD		CHAR(1)
HRSPERWK	In the weeks that the member worked, how many hours did the member usually work per week? S04A 3	NUM(3)
HRSP_RWK		CHAR(1)
OCCULIST	The job in which member received the most earnings during the past 12 months fits best in 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	CHAR(2)

- 09 Private household service
- 10 Other service
- 11 Machine operator, assembler, inspector
- 12 Transportation operator
- 13 Handler, helper, laborer
- 14 Mechanic, repairer, precision production
- 15 Construction, mining
- 16 Farming
- 17 Forestry, fishing, groundskeeping
- 18 Armed forces

S04A 4a

OCCU_IST CHAR(1)

EMPLTYPE Was the member . . . ? (Type of employee) CHAR(1)
 Refers to job where member received the most earnings in the past 12 months.

CODED

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

S04A 4b

EMPL_YPE CHAR(1)

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

CODED

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

S04A 5

WHYN_WRK CHAR(1)

d. Income

Variable	Item Description	Format
WAGEX	During the past 12 months, what was the amount of wages or salary income received before any deductions? S04A 6a	NUM(8)
WAGEX_		CHAR(1)
GROSPAYX	What was the gross amount of the member's last pay? S04A 9	NUM(8)
GROS_AYX		CHAR(1)
PAYPERD	Time period covered for last pay 1 week 2 2 weeks 3 month 4 quarter 5 year 6 other 7 twice a month S04A 10a	CHAR(1)
PAYPERD_		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? *L S04A 6b	NUM(8)
BSNSX_		CHAR(1)
FARMX	During the past 12 months, what was the amount of income or loss from the member's own farm after expenses? *L S04A 6c	NUM(8)
FARMX_		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 S04A 7a	CHAR(1)

ANYS_INC		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 S04A 7b	CHAR(1)
ANYRAIL_		CHAR(1)
SOCRRX	Annual amount of Social Security and Railroad Retirement income received by member in past 12 months BLS derived	NUM(8)
SOCRRX_		CHAR(1)
SS_RRX	What was the amount of the last Social Security or Railroad Retirement payment received? (In past 12 months) S04A 7d	NUM(8)
SS_RRX_		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 S04A 7e	CHAR(1)
MED_CARE		CHAR(1)
SS_RRQ	During the past 12 months, how many Social Security or Railroad Retirement payments did the member receive? S04A 7f	NUM(4)
SS_RRQ_		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 S04A 8a	CHAR(1)
US_SUPP_		CHAR(1)

STA_SUPP During the past 12 months, did the member receive any Supplemental Security Income checks from the State or local government? CHAR(1)

CODED
1 Yes
2 No

S04A 8b

STA__UPP 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) NUM(8)

S04A 8b

SUPPX_ CHAR(1)

e. Taxes

Variable	Item Description	Format
ANFEDTXX	Annualized amount of Federal income tax deducted from last pay ((FEDTXX/GROSPAYX) x WAGEX) BLS derived	NUM(8)
ANFE_TXX		CHAR(1)
FEDTXX	How much was deducted from the member's last pay for Federal income tax? S04A 10a	NUM(8)
FEDTXX_		CHAR(1)
ANSTATXX	Annualized amount of state and local income taxes deducted from last pay ((STATXX/GROSPAYX) x WAGEX) BLS derived	NUM(8)
ANST_TXX		CHAR(1)
STATXX	How much was deducted from the member's last pay for state and local income tax? S04A 10b	NUM(8)
STATXX_		CHAR(1)

f. Retirement and Pension Deductions

Variable	Item Description	Format
JSSDEDX	Estimated amount of income contributed to Social Security by member in past 12 months BLS derived	NUM(6)
JSSDEDX_		CHAR(1)
SLFEMPSS	Amount of income contributed to Social Security by member if self-employed BLS derived	NUM(6)
SLFE_PSS		CHAR(1)
ANRRX	Annualized amount of Railroad Retirement deducted from last pay ((RRX/GROSPAYX) x WAGEX) BLS derived	NUM(8)
ANRRX_		CHAR(1)
RRX	How much was deducted from the member's last pay for Railroad Retirement? S04A 10d	NUM(8)
RRX_		CHAR(1)
ANGVX	Annualized amount of Government Retirement deducted from last pay ((GVX/GROSPAYX) x WAGEX) BLS derived	NUM(8)
ANGVX_		CHAR(1)
GVX	How much was deducted from the member's last pay for Government Retirement? S04A 10e	NUM(8)
GVX_		CHAR(1)
ANPVTX	Annualized amount of private pensions deducted from last pay ((PVTX/GROSPAYX) x WAGEX) BLS derived	NUM(8)
ANPVTX_		CHAR(1)
PVTX	How much was deducted from the member's last pay for private pension fund? S04A 10f	NUM(8)

PVTX_		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)	NUM(8)
	S04A 13b	
IRAX_		CHAR(1)

3. **Detailed Expenditures File (EXPD)**

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

Variable	Item Description	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 BLS derived	NUM(8)
ALLOC	Adjustment status for cost variable CODED 0 Not allocated or topcoded 1 Allocated, not topcoded 2 Topcoded and allocated 3 Topcoded, not allocated BLS derived	CHAR(1)
COST	Total cost of item, including sales tax BLS derived	NUM(12,5)
GIFT	Was item bought for someone outside the CU? CODED 1 Yes 2 No BLS derived	CHAR(1)
PUB_FLAG	Is cost included in published reports? CODED 1 Not published 2 Published in Integrated reports BLS derived	CHAR(1)

QREDATE	Purchase date recode field Consists of: a Sequential day of the Diary week (1-7) b Day of the week, Sunday through Saturday (1-7) cc Reference month of this expenditure, (01-12) dd Reference day of this expenditure, (01-31) eeee Reference year of this expenditure, (0000-9999) abccddeeee BLS derived	CHAR(10)
QREDATE_		CHAR(1)
UCC	Universal Classification Code See Section XIII.A. Appendix A for a listing of EXPD UCC codes and titles BLS derived	CHAR(6)

4. **Income File (DTBD)**

The "DTBD" file, also referred to as the "Income" file, contains CU characteristic and income data. This file is created directly from the FMLD 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 EXPD expenditure data. As such, the file structure is similar to EXPD. 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 DTBD. If the corresponding FMLD file variable contained a missing value, there is no record for the UCC.

Variable	Item Description	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 BLS derived	NUM(8)
UCC	Universal Classification Code See Section XIII for a listing of DTBD UCC codes and titles BLS derived	CHAR(6)
AMOUNT	Amount of UCC BLS derived	NUM(12)
AMOUNT_	CODED T – Topcoded Blank -- Not topcoded BLS derived	CHAR(1)

PUB_FLAG Is amount included in published reports? CHAR(1)
 CODED
 1 Not published
 2 Published in Integrated reports

BLS derived

5. Processing Files

a. Aggregation file

X:\DIARY99\AGGD99.TXT

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	Format
UCC (Universal Classification Code)	CHAR(6)
Line Number: represents a line in the sample table	CHAR(6)

b. Label file

X:\DIARY99\LABELD99.TXT

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

DESCRIPTION	Format
Line Number: represents a line in the sample table	CHAR(6)
Label: descriptive label in the sample table (with leading blanks)	CHAR(48)

c. UCC file

x:\DIARY99\UCCD99.TXT

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

DESCRIPTION	Format
UCC	CHAR(6)
UCC title See Section XIII.A. EXPENDITURE UCCS ON EXPD FILE and XIII.B. INCOME AND RELATED UCCS ON DTBD FILE for a list of UCCs and their full title by file – expenditure (EXPD) or income (DTBD)	CHAR(50)

d. Sample program file

x:\PROGRAMS\ SAMPLD99.TXT (SAS)

The SAMPLD99 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 (FMLD)

The following FMLD file variables are subject to topcoding.

AGE_REF	Age of reference person
AGE2	Age of spouse
ADDFEDX	Amount of Federal income tax paid in addition to that withheld
ADDOTHX	Amount of other taxes paid but not reported elsewhere
ADDSTAX	Amount of state and local income tax paid in addition to that withheld
ALIOTHX	Amount received from regular contributions by all CU members
CHDLMPX	Amount received by all CU members for a lump sum child support payment in last 12 months
CHDOTHX	Amount received by all CU members in last 12 months for other child support
DIVX	Amount received from dividends, royalties, estates, or trusts
FEDREFX	Amount of refund from Federal income tax
INSREFX	Amount of refund from insurance policies
INTX	Amount received from interest on savings accounts, or bonds
LUMPX	Amount from lump sum payments from estates, trusts, royalties, alimony, child support, prizes, games of chance, or persons outside CU
OCCEXPDX	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.

Variable	1999 Upper critical value	1999 Lower critical value	1999 Upper topcode value	1999 Lower topcode value
ADDFEDX	23,000	-	87,745	-
ADDOTHX	4,800	-	7,900	-
ADDSTAX	5,000	-	43,511	-
AGE_REF	90	-	93	-
AGE2	90	-	93	-
ALIOTHX	24,000	-	48,273	-
CHDLMPX	8,600	-	13,950	-
CHDOTHX	14,400	-	22,800	-
DIVX	45,000	-	71,761	-
FEDREFX	5,000	-	9,323	-
INSREFX	12,000	-	32,714	-
INTX	35,000	-	208,243	-
LUMPX	128,000	-	239,429	-
OCCEXPDX	2,100	-	7,022	-
OTHINX	50,000	-	NA	-
OTHREFX	10,000	-	34,457	-
OTHRNTX	56,400	-13,000	142,795	-21,325
PENSIONX	50,000	-	73,033	-
PTAXREFX	2,098	-	4,290	-
ROOMX	18,000	-18,000	33,805	NA
SALEX	7,000	-	17,556	-
SSREFX	1,500	-	4,131	-
STATREFX	1,500	-	2,952	-
TAXPROPX	5,000	-	9,594	-

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

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

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

EARNX Amount of CU income from earnings before taxes
 FBSNSX Amount of income from non-farm business
 FFARMX Amount of income or loss received from own farm
 FFEDTXX Amount of Federal tax deducted from last pay, annualized for all CU members
 FGVX Amount of government retirement deducted from last pay, annualized for all CU members
 FINCAFTX Amount of CU income after taxes
 FINCBEFX Amount of CU income before taxes

FIRAX	Amount of money placed in individual retirement plan
FJSSDEDX	Estimated amount of annual Social Security contribution
FPVTX	Amount of private pension fund deducted from last pay, annualized for all CU members
FRRX	Amount of Railroad Retirement deducted from last pay, annualized for all CU members
FSTATXX	Amount of State and local income taxes deducted from last pay, annualized for all CU members
FWAGEX	Amount received from wage and salary income before deduction
NONERNX	Amount of income from sources other than earnings before taxes
OTHRECX	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 MEMD file. BSNSX is subject to topcoding beyond the critical value of \$150,000 (-\$9,999). The topcode value for BSNSX is \$238,133 (-\$30,708).

CU	BSNSX		FBSNSX		Flagged as Topcoded?
		Reported	After Topcoding	Value	
CU 1:	Member 1	\$145,000	\$145,000	290,000	No
	Member 2	145,000	145,000		
CU 2:	Member 1	350,000	238,133	176,717	Yes
	Member 2	-25,000	-30,708		
	Member 3	-35,000	-30,708		
CU 3	Member 1	160,000	238,133	368,133	Yes
	Member 2	130,000	130,000		
CU 4	Member 1	160,000	238,133	207,425	Yes
	Member 2	-200,000	-30,708		

While CUs 1 and 2 each originally report \$290,000 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 (\$368,133) is higher than the amount that it reported (\$290,000). The case of CU4 demonstrates that the reported value for FBSNSX can be negative, while the topcoded value can be positive. This is due to a topcoded positive BSNSX value for Member 1 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-a-vis variables POPSIZE, REGION, and BLS_URBN, which show the population size of the geographic area that is sampled, the four Census regions, and the urban/rural status respectively. Some STATE codes were suppressed because, in combination with these variables, they could be used to identify areas of 100,000 or less. On approximately 17 percent of the records on the FMLD files the STATE variable is blank. The STATE flag (STATE_) is given a value of 'T' if STATE is suppressed.

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

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

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

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

R indicates that either all observations from this state have been re-coded or all strata¹ of observations from this state include "re-codes" from other states.

RR indicates that either some observations from this state have been re-coded or at least one stratum¹ of observations from this state includes "re-codes" from other states.

R* indicates that the STATE code has been suppressed for some sampled CUs in that state and, either STATE has been re-coded or the state includes "re-codes" from other states in all strata¹.

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 stratum¹.

¹ A STATE stratum is a unique POPSIZE and BLS_URBN combination.

States not listed are not in the CE sample.

B. Member Characteristics and Income File (MEMD)

The following MEMD 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.

Variable	1999 Upper critical Value	1999 Lower critical Value	1999 Upper topcode value	1999 Lower topcode value
AGE	90	-	93	-
ANFEDTXX	19,592	-	36,966	-
ANGVX	6,284	-	10,548	-
ANPVTX	11,678	-	19,638	-
ANRRX	6,100	-	6,940	-
ANSTATXX	6,250	-	10,940	-
BSNSX	150,000	-9,999	238,133	-30,708
FARMX	150,000	-9,999	NA	-15,733
FEDTXX	960	-	2,841	-
GROSPAYX	5,600	-	19,556	-
GVX	403	-	3,684	-
IRAX	15,000	-	29,926	-
JSSDEDX	6,221	-	8,503	-
PVTX	597	-	1,673	-
RRX	313	-	389	-
SLFEMPSS	12,018	-	13,933	-
STATXX	300	-	888	-
WAGEX	150,000	-	272,709	-

Special suppression for MEMD file variables

The five MEMD 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

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

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

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

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

C. Detailed Expenditure File (EXPD)

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

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

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

Variable	1999 Upper critical value	1999 Lower critical value	1999 Upper topcode value	1999 Lower topcode value
001000	1,788	-	12,579	-
009000	2,116	-	2,849	-
210110	1,200	-	1,565	-
210210	1,200	-	1,935	-
550320	107	-	167	-
560110	314	-	1,980	-
560210	1,000	-	1,845	-
560310	345	-	479	-
560330	500	-	1,084	-
560400	500	-	668	-
570000	727	-	832	-
570220	6,046	-	6,047	-

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.

Variable	1999 Upper critical value	1999 Lower critical value	1999 Upper topcode value	1999 Lower topcode value
210310	4,413	-	-	-
210900	1,050	-	-	-
220400	400,000	-	-	-
550330	620	-	-	-
570230	1,000	-	-	-
570901	389	-	-	-

D. Income File (DTBD)

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

UCC	Description
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.

Variable	1999 Upper critical Value	1999 Lower critical Value	1999 Upper topcode value	1999 Lower topcode value
900040	50,000	-	73,033	-
900050	45,000	-	71,761	-
900060	18,000	-18,000	33,805	NA

900070	56,400	-13,000	142,795	-21,325
900080	35,000	-	208,243	-
900131	14,400	-	22,800	-
900132	24,000	-	48,273	-
900140	50,000	-	NA	-
910000	128,000	-	239,429	-
910010	7,000	-	17,556	-
910020	1,500	-	4,131	-
910030	12,000	-	32,714	-
910040	2,098	-	4,290	-
910041	8,600	-	13,950	-
950001	-	-5,000	-	-9,323
950011	-	-1,500	-	-2,952
950021	4,800	-	7,900	-
950022	5,000	-	9,594	-
950023	-	-10,000	-	-34,457
980020	90	-	93	-

The UCC 900140 has a critical value but no topcode amount. This implies that there are no observations outside the critical value on the current four-quarter release.

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

UCC	FMLD 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	FINCBFX	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 1999, Report 949* (2001) used an integration methodology which incorporated information from both Diary and Interview Surveys. Diary data users will not be able to match published CE estimates because of this. In addition, users will not be able to match all values because of suppression of some values, due to topcoding. See the topcoding and other nondisclosure requirements in Section IV.

A. Definition of Terms

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

Definition of Terms:

Let

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

Then

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

The F21 denotes FINLWT21 which is used for population estimates.

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

Using the above terminology, we may define:

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

and

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

B. Estimation of Total and Mean Expenditures

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

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

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

The above formula can be generalized to estimate the total expenditures of subpopulation S on

item k for q months, but using data collected over r months. The generalization is

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

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

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

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

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

6

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

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

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

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

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

C. Estimation of Mean Annual Income

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

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

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

VI. Reliability Statement

A. Description of Sampling Error and Nonsampling Error

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

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

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

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

B. Estimating Sampling Error

1. Variance Estimation

Variance estimation can be done in many ways. The method illustrated below (a pseudo-replication technique) is chosen because it is accurate yet simple to understand. The basic idea is to artificially construct

several "subsamples" from the original sample data. This construction is done in a manner so that the variance information of the original data is preserved in these subsamples. These subsamples (or pseudo-replications) can then be used to obtain approximate variances for the estimates.

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

$X_{(S,k)(q,r),a}$ = an estimate of the same quantity as $X_{(S,k)(q,r)}$, but using the weights of the a^{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 $\bar{X}_{(S,k)(q,r)}$ and $\bar{Z}_{(S,r)}$ are similar and are given below.

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

and

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

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

2. Standard Error of the Mean

The standard error of the mean, $S.E.(\bar{x})$, is defined as the square root of the variance of the mean. $S.E.(\bar{x})$, is used to obtain confidence intervals that evaluate how close the estimate may be to the true population mean. A 95 percent confidence interval can be constructed around an estimate, bounded by values two times the standard error less than and greater than the estimate. For example, the average weekly expenditures for beef for total complete income reporters in 1999 was \$4.22. The standard error for this estimate is \$.13. Hence, the 95 percent confidence interval around this estimate is from \$3.96 to \$4.48. Therefore, we could conclude with 95 percent confidence that the mean weekly expenditures for beef for total complete income reporters in 1999 lies within the interval \$3.96 to \$4.48.

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 1999 the estimated average weekly expenditures for total food for complete income reporters in the \$30,000 to \$39,999 income range is \$90.29 and the estimate for complete income reporters in the \$40,000 to \$49,999 income range is \$103.78. The apparent difference between the two mean expenditures is \$103.78 – \$90.29 = \$13.49. The standard error on the estimate of \$103.78 is \$3.24 and the estimated standard error for the \$90.29 estimate is \$2.91. The standard error (S.E.) of a difference is approximately equal to

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

where

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

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

$$\sqrt{((3.24)^2 + (2.91)^2)} = 4.35$$

This means that the 95 percent confidence interval around the difference is from \$4.79 to \$22.19. Since this interval does not include zero, we can conclude with 95 percent confidence that the mean weekly food expenditures for the \$40,000 to \$49,999 income group is greater than the mean weekly food expenditures for the \$30,000 to \$39,999 income group.

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

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

where

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

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

VII. Microdata Verification and Estimation Methodology

This section is designed to help users become familiar with the microdata files. The following program gives users a benchmark to verify that their copy of the CD-ROM contains valid data, illustrate the methodology CE uses in producing publication tables, and offer an example of coding to access the data and produce a sample table. The program is written in SAS and 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 FMLD files, while the second section extracts the expenditure and income data from the EXPD and DTBD 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

<pre> 1 %let y =99; 2 3 filename fml d1 "i:\diary&y\fml d d&y.1.txt"; 4 filename fml d2 "i:\diary&y\fml d d&y.2.txt"; 5 filename fml d3 "i:\diary&y\fml d d&y.3.txt"; 6 filename fml d4 "i:\diary&y\fml d d&y.4.txt"; 7 8 filename dtbd1 "i:\diary&y\dtbd d&y.1.txt"; 9 filename dtbd2 "i:\diary&y\dtbd d&y.2.txt"; 10 filename dtbd3 "i:\diary&y\dtbd d&y.3.txt"; 11 filename dtbd4 "i:\diary&y\dtbd d&y.4.txt"; 12 13 filename expd1 "i:\diary&y\expd d&y.1.txt"; 14 filename expd2 "i:\diary&y\expd d&y.2.txt"; 15 filename expd3 "i:\diary&y\expd d&y.3.txt"; 16 filename expd4 "i:\diary&y\expd d&y.4.txt"; 17 18 filename agg "i:\diary&y\aggd&y..txt"; 19 filename labls "i:\diary&y\label d&y..txt"; 20 21 22 23 options linesize=153 pagesize=52 missing=''; 24 25 26 27 data fml d1; 28 infile fml d1 lrecl=1549; 29 input @1 newid 8. @148 finlwt21 11.3 30 @1516 inclass \$2.; </pre> <p>NOTE: The infile FMLD1 is: FILENAME=i:\diary99\fml d d991.txt, RECFM=V,LRECL=1549</p> <p>NOTE: 3863 records were read from the infile FMLD1. The minimum record length was 1549. The maximum record length was 1549.</p>	<p>Line 1 sets the year as a macro variable that can be used throughout the program.</p> <p>Lines 3-16 designate the location of the data on the cd-rom.</p> <p>Lines 18-19 designate the location of the two processing files.</p> <p>Line 23 forces the output to be printed landscape.</p> <p>Lines 27-49 pull in the necessary variables from the fml d files. Newid is the code given to a consumer unit each time it participates. Finlwt21 will be used to weight each consumer unit such that it represents</p>
--	---

One or more lines were truncated.
NOTE: The data set WORK.FMLD1 has 3863 observations and 3 variables.
NOTE: The DATA statement used 2.52 seconds.

```
31      proc sort; by newid;  
32
```

NOTE: The data set WORK.FMLD1 has 3863 observations and 3 variables.
NOTE: The PROCEDURE SORT used 0.33 seconds.

```
33  data fmlD2;  
34      infile fmlD2 lrecl=1549;  
35      input @1 newid 8. @148 finlwt21 11.3  
36          @1516 inclass $2.;
```

NOTE: The infile FMLD2 is:
FILENAME=i:\diary99\fmlDD992.txt,
RECFM=V,LRECL=1549

NOTE: 3796 records were read from the infile FMLD2.
The minimum record length was 1549.
The maximum record length was 1549.
One or more lines were truncated.

NOTE: The data set WORK.FMLD2 has 3796 observations and 3 variables.
NOTE: The DATA statement used 0.59 seconds.

```
37      proc sort; by newid;  
38
```

NOTE: The data set WORK.FMLD2 has 3796 observations and 3 variables.
NOTE: The PROCEDURE SORT used 0.11 seconds.

```
39  data fmlD3;  
40      infile fmlD3 lrecl=1549;  
41      input @1 newid 8. @148 finlwt21 11.3  
42          @1516 inclass $2.;
```

NOTE: The infile FMLD3 is:
FILENAME=i:\diary99\fmlDD993.txt,
RECFM=V,LRECL=1549

NOTE: 3796 records were read from the infile FMLD3.
The minimum record length was 1549.
The maximum record length was 1549.
One or more lines were truncated.

NOTE: The data set WORK.FMLD3 has 3796 observations and 3 variables.
NOTE: The DATA statement used 0.59 seconds.

```
43      proc sort; by newid;  
44
```

NOTE: The data set WORK.FMLD3 has 3796 observations and 3 variables.

some portion of the population. Inclass is a code that represents the range within which the consumer unit's annual income falls.

NOTE: The PROCEDURE SORT used 0.11 seconds.

```
45 data fml4;  
46   infile fml4 lrecl=1549;  
47   input @1 newid 8. @148 finlwt21 11.3  
48       @1516 inclass $2.;
```

NOTE: The infile FMLD4 is:
FILENAME=i:\diary99\fml4dd994.txt,
RECFM=V,LRECL=1549

NOTE: 3740 records were read from the infile FMLD4.
The minimum record length was 1549.
The maximum record length was 1549.
One or more lines were truncated.

NOTE: The data set WORK.FMLD4 has 3740 observations and 3 variables.

NOTE: The DATA statement used 0.6 seconds.

```
49   proc sort; by newid;  
50  
51
```

NOTE: The data set WORK.FMLD4 has 3740 observations and 3 variables.

NOTE: The PROCEDURE SORT used 0.16 seconds.

```
52 data fml4all;  
53   set fml41 fml42 fml43 fml44 ;  
54   by newid;  
55  
56   uspop = finlwt21 / 4;
```

NOTE: The data set WORK.FML4ALL has 15195 observations and 4 variables.

NOTE: The DATA statement used 0.33 seconds.

```
57   proc sort; by newid;  
58
```

NOTE: The data set WORK.FML4ALL has 15195 observations and 4 variables.

NOTE: The PROCEDURE SORT used 0.33 seconds.

```
59   proc summary nway data = fml4all (drop=finlwt21);  
60     class inclass;  
61     var uspop;  
62     output out = newpop sum = popus;
```

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

NOTE: The PROCEDURE SUMMARY used 0.48 seconds.

```
63   proc transpose data = newpop out = transpop prefix =  
64     pop;  
65     var popus;
```

Lines 52-54 bring each of the 4 quarters of fml4 datasets together.

Line 56 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 59-71 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 63-64 transpose the newpop dataset to match the format

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

NOTE: The PROCEDURE TRANSPOSE used 0.22 seconds.

```
66 data subagg (drop = _name_);
67     set transpop;
68     popt = sum (of pop1-pop10);
69     popc = sum (of pop1-pop9);
```

NOTE: The data set WORK.SUBAGG has 1 observations and 12 variables.

NOTE: The DATA statement used 0.11 seconds.

```
70     proc print data=subagg;
71     title "Population Counts for 19&y";
72
73
74
```

NOTE: The PROCEDURE PRINT used 0.7 seconds.

```
75 data dtbd1;
76     infile dtbd1 lrecl=28;
77     input @1 newid 8. @9 ucc $6. @15 amount 12. ;
```

NOTE: The infile DTBD1 is:
FILENAME=i:\diary99\dtbdd991.txt,
RECFM=V,LRECL=28

NOTE: 58544 records were read from the infile DTBD1.
The minimum record length was 28.
The maximum record length was 28.

NOTE: The data set WORK.DTBD1 has 58544 observations and 3 variables.

NOTE: The DATA statement used 1.27 seconds.

```
78     proc sort; by newid;
79
```

NOTE: The data set WORK.DTBD1 has 58544 observations and 3 variables.

NOTE: The PROCEDURE SORT used 1.47 seconds.

```
80 data dtbd2;
81     infile dtbd2 lrecl=28;
82     input @1 newid 8. @9 ucc $6. @15 amount 12. ;
```

NOTE: The infile DTBD2 is:
FILENAME=i:\diary99\dtbdd992.txt,
RECFM=V,LRECL=28

NOTE: 57627 records were read from the infile DTBD2.
The minimum record length was 28.
The maximum record length was 28.

NOTE: The data set WORK.DTBD2 has 57627 observations and 3 variables.

NOTE: The DATA statement used 1.37 seconds.

of the PUBRAY data set that it will be matched with later in the program.

Lines 66-69 take the transposed dataset and calculate popt, the all consumer units population, and popc, the all complete income reporters population.

Lines 75-93 pull in the dtbd 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.

```
83     proc sort; by newid;
84
```

NOTE: The data set WORK.DTBD2 has 57627 observations and 3 variables.

NOTE: The PROCEDURE SORT used 1.2 seconds.

```
85     data dtbd3;
86         infile dtbd3 lrecl=28;
87         input @1 newid 8. @9 ucc $6. @15 amount 12. ;
```

NOTE: The infile DTBD3 is:
FILENAME=i:\diary99\dtbdd993.txt,
RECFM=V,LRECL=28

NOTE: 56969 records were read from the infile DTBD3.
The minimum record length was 28.
The maximum record length was 28.

NOTE: The data set WORK.DTBD3 has 56969 observations and 3 variables.

NOTE: The DATA statement used 1.27 seconds.

```
88     proc sort; by newid;
89
```

NOTE: The data set WORK.DTBD3 has 56969 observations and 3 variables.

NOTE: The PROCEDURE SORT used 1.31 seconds.

```
90     data dtbd4;
91         infile dtbd4 lrecl=28;
92         input @1 newid 8. @9 ucc $6. @15 amount 12. ;
```

NOTE: The infile DTBD4 is:
FILENAME=i:\diary99\dtbdd994.txt,
RECFM=V,LRECL=28

NOTE: 55924 records were read from the infile DTBD4.
The minimum record length was 28.
The maximum record length was 28.

NOTE: The data set WORK.DTBD4 has 55924 observations and 3 variables.

NOTE: The DATA statement used 1.48 seconds.

```
93     proc sort; by newid;
94
```

NOTE: The data set WORK.DTBD4 has 55924 observations and 3 variables.

NOTE: The PROCEDURE SORT used 1.14 seconds.

```
95     data dtbd(rename=(amount=cost));
96         set dtbd1 dtbd2 dtbd3 dtbd4 ;
97         by newid;
```

NOTE: The data set WORK.DTBD has 229064 observations and 3

Lines 95-97 bring the 4 quarters of dtbd datasets together. The variable amount is renamed cost so

```

variables.
NOTE: The DATA statement used 3.62 seconds.

98      proc sort; by newid;

NOTE: The data set WORK.DTBD has 229064 observations and 3
variables.
NOTE: The PROCEDURE SORT used 7.08 seconds.

99      proc datasets;

-----Directory-----

Libref:          WORK
Engine:          V612
Physical Name:   h:\saswork\#TD46705

#  Name          Memtype  Indexes
#####
1  DTBD          DATA
2  DTBD1         DATA
3  DTBD2         DATA
4  DTBD3         DATA
5  DTBD4         DATA
6  FMLD1         DATA
7  FMLD2         DATA
8  FMLD3         DATA
9  FMLD4         DATA
10 FMLDALL       DATA
11 NEWPOP        DATA
12 SUBAGG        DATA
13 TRANSPOP      DATA
99          delete dtbd1 dtbd2 dtbd3 dtbd4 ;
100
101

NOTE: Deleting WORK.DTBD1 (memtype=DATA).
NOTE: Deleting WORK.DTBD2 (memtype=DATA).
NOTE: Deleting WORK.DTBD3 (memtype=DATA).
NOTE: Deleting WORK.DTBD4 (memtype=DATA).
NOTE: The PROCEDURE DATASETS used 1.32 seconds.

```

that it can be merged with the expd datasets later in the program.

Lines 99-100 delete from memory the datasets that are no longer necessary for processing.

```
102 data expd1;
103     infile expd1 lrecl=40;
104     input @1 newid 8. @35 ucc $6. @10 cost 12.5 ;

NOTE: The infile EXPD1 is:
      FILENAME=i:\diary99\expdd991.txt,
      RECFM=V,LRECL=40

NOTE: 163323 records were read from the infile EXPD1.
      The minimum record length was 40.
      The maximum record length was 40.
NOTE: The data set WORK.EXPD1 has 163323 observations and 3
      variables.
NOTE: The DATA statement used 3.83 seconds.
```

```
105     proc sort; by newid;
106

NOTE: The data set WORK.EXPD1 has 163323 observations and 3
      variables.
NOTE: The PROCEDURE SORT used 5.61 seconds.
```

```
107 data expd2;
108     infile expd2 lrecl=40;
109     input @1 newid 8. @35 ucc $6. @10 cost 12.5 ;

NOTE: The infile EXPD2 is:
      FILENAME=i:\diary99\expdd992.txt,
      RECFM=V,LRECL=40

NOTE: 160783 records were read from the infile EXPD2.
      The minimum record length was 40.
      The maximum record length was 40.
NOTE: The data set WORK.EXPD2 has 160783 observations and 3
      variables.
NOTE: The DATA statement used 3.79 seconds.
```

```
110     proc sort; by newid;
111

NOTE: The data set WORK.EXPD2 has 160783 observations and 3
      variables.
NOTE: The PROCEDURE SORT used 4.83 seconds.
```

```
112 data expd3;
113     infile expd3 lrecl=40;
114     input @1 newid 8. @35 ucc $6. @10 cost 12.5 ;

NOTE: The infile EXPD3 is:
      FILENAME=i:\diary99\expdd993.txt,
      RECFM=V,LRECL=40

NOTE: 160809 records were read from the infile EXPD3.
      The minimum record length was 40.
      The maximum record length was 40.
NOTE: The data set WORK.EXPD3 has 160809 observations and 3
      variables.
NOTE: The DATA statement used 2.68 seconds.
```

Lines 102-120 pull in the expd files. Newid is the consumer unit code. Ucc is the code designating the type of expenditure. Cost is the amount of the expenditure.

```
115     proc sort; by newid;
116
```

NOTE: The data set WORK.EXPD3 has 160809 observations and 3 variables.

NOTE: The PROCEDURE SORT used 4.5 seconds.

```
117 data expd4;
118     infile expd4 lrecl=40;
119     input @1 newid 8. @35 ucc $6. @10 cost 12.5 ;
```

NOTE: The infile EXPD4 is:
FILENAME=i:\diary99\expdd994.txt,
RECFM=V,LRECL=40

NOTE: 160162 records were read from the infile EXPD4.
The minimum record length was 40.
The maximum record length was 40.

NOTE: The data set WORK.EXPD4 has 160162 observations and 3 variables.

NOTE: The DATA statement used 2.7 seconds.

```
120     proc sort; by newid;
121
```

NOTE: The data set WORK.EXPD4 has 160162 observations and 3 variables.

NOTE: The PROCEDURE SORT used 4.33 seconds.

```
122 data expd;
123     set expd1 expd2 expd3 expd4 ;
124     by newid;
125     if cost > 0;
```

NOTE: The data set WORK.EXPD has 645077 observations and 3 variables.

NOTE: The DATA statement used 7.13 seconds.

```
126     proc sort; by newid;
```

NOTE: The data set WORK.EXPD has 645077 observations and 3 variables.

NOTE: The PROCEDURE SORT used 16.87 seconds.

```
127     proc datasets;
```

```
-----Directory-----
```

```
Libref:          WORK
```

```
Engine:          V612
```

```
Physical Name:  h:\saswork\#TD46705
```

```
#  Name          Memtype  Indexes
```

Lines 127-128 delete
from memory the
datasets no longer
needed for
processing.

ffffffffffffffffffffffffffffffff

```
1 DTBD DATA
2 EXPD DATA
3 EXPD1 DATA
4 EXPD2 DATA
5 EXPD3 DATA
6 EXPD4 DATA
7 FMLD1 DATA
8 FMLD2 DATA
9 FMLD3 DATA
10 FMLD4 DATA
11 FMLDALL DATA
12 NEWPOP DATA
13 SUBAGG DATA
14 TRANSPOP DATA
127 delete expd1 expd2 expd3 expd4;
128
129
130
```

NOTE: Deleting WORK.EXPD1 (memtype=DATA).
NOTE: Deleting WORK.EXPD2 (memtype=DATA).
NOTE: Deleting WORK.EXPD3 (memtype=DATA).
NOTE: Deleting WORK.EXPD4 (memtype=DATA).
NOTE: The PROCEDURE DATASETS used 0.11 seconds.

```
131 data expend ;
132 set dtbd expd;
133 by newid;
```

NOTE: The data set WORK.EXPEND has 874141 observations and 3 variables.
NOTE: The DATA statement used 9.22 seconds.

```
134 proc sort; by newid;
```

NOTE: The data set WORK.EXPEND has 874141 observations and 3 variables.
NOTE: The PROCEDURE SORT used 22.96 seconds.

```
135 proc datasets;
-----Directory-----
```

Lines 131-134 pull the dtbd and expd files together.

Lines 135-136 delete from memory the datasets no longer needed for

Libref: WORK
Engine: V612
Physical Name: h:\saswork\#TD46705

Name Memtype Indexes

ffffffffffffffffffffffffffffffff

1 DTBD DATA
2 EXPEND DATA
3 EXPD DATA
4 FMLD1 DATA
5 FMLD2 DATA
6 FMLD3 DATA
7 FMLD4 DATA
8 FMLDALL DATA
9 NEWPOP DATA
10 SUBAGG DATA
11 TRANSPOP DATA

135 delete dtbd expd;
136

NOTE: Deleting WORK.DTBD (memtype=DATA).
NOTE: Deleting WORK.EXPD (memtype=DATA).
NOTE: The PROCEDURE DATASETS used 0.05 seconds.

137 data pubfile (drop= uspop) ;
138 merge fml dall (in = infam)
139 expend (in = inexp)
140 ;
141 by newid ;
142 if not in exp then delete;
143 if cost='.' then cost=0;
144
145 wcost = finlwt21 * cost/4;
146

NOTE: Character values have been converted to numeric values
at the places given by: (Line):(Column).
143:13

NOTE: The data set WORK.PUBFILE has 874141 observations and 6
variables.

NOTE: The DATA statement used 15.71 seconds.

147 proc summary nway data = pubfile (drop=newid);
148 class ucc inclass;
149 var wcost ;
150 output out = aggcst sum = ;

processing.

Lines 137-145 merge the fml dall and expend datasets together and check the cost variable to make sure that there are no missing values.

Line 145 weights the cost variable up to the population level that the consumer unit represents.

Lines 147-150 sum the weighted costs for the consumer units for each ucc by income group and outputs this as a new

151

NOTE: The data set WORK.AGGCST has 5106 observations and 5 variables.
NOTE: The PROCEDURE SUMMARY used 13.17 seconds.

152 proc datasets;

-----Directory-----

Libref: WORK

Engine: V612

Physical Name: h:\saswork\#TD46705

Name Memtype Indexes

ffffffffffffffffffffffffffffffff

1 AGGCST DATA

2 EXPEND DATA

3 FMLD1 DATA

4 FMLD2 DATA

5 FMLD3 DATA

6 FMLD4 DATA

7 FMLDALL DATA

8 NEWPOP DATA

9 PUBFILE DATA

10 SUBAGG DATA

11 TRANSPOP DATA

153 delete expend pubfile;

154

NOTE: Deleting WORK.EXPEND (memtype=DATA).
NOTE: Deleting WORK.PUBFILE (memtype=DATA).
NOTE: The PROCEDURE DATASETS used 0.05 seconds.

155 data aggray1 (drop = inclass _type_ _freq_ wcost);

156 set aggcst;

157 by ucc ;

158 array trncost grp1-grp10;

159 retain grp1-grp10;

160 if first.ucc then do over trncost;

161 trncost = 0;

162 end;

163 _I_=inclass;

164 trncost=wcost;

165 if last.ucc then output;

dataset called aggcst.

Lines 152-153 delete from memory any datasets that are no longer needed for processing.

Lines 155-165 create the variables grp1-grp10 that will designate the income groups and then places the weighted cost, or expenditure, data into the appropriate new variable.

166

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

163:13

NOTE: The data set WORK.AGGRAY1 has 569 observations and 11
variables.

NOTE: The DATA statement used 0.39 seconds.

```
167 data agfile;
168     infile agg missover pad;
169     input @3 ucc $6.
170           @15 line $6.;
```

NOTE: The infile AGG is:
FILENAME=i:\diary99\aggd99.txt,
RECFM=V,LRECL=256

NOTE: 776 records were read from the infile AGG.
The minimum record length was 20.
The maximum record length was 20.

NOTE: The data set WORK.AGFILE has 776 observations and 2
variables.

NOTE: The DATA statement used 0.11 seconds.

```
171     proc sort data = agfile;
172     by ucc ;
173
```

NOTE: The data set WORK.AGFILE has 776 observations and 2
variables.

NOTE: The PROCEDURE SORT used 0.11 seconds.

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

NOTE: The data set WORK.PUBRAY has 770 observations and 12
variables.

NOTE: The DATA statement used 0.11 seconds.

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

NOTE: The data set WORK.AGGSUM has 65 observations and 13
variables.

NOTE: The PROCEDURE SUMMARY used 0.11 seconds.

```
185 data cstpop1 (drop = _type_ _freq_ popt popc popl-
186     popl0);
186     if _n_ = 1 then set subagg;
187     set aggsum;
```

Lines 167-172 pull in the
file that dictates how
each ucc will be
summed for
aggregation.

Lines 174-178 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 180-183 sum the
weighted costs for
each income group
(grp1-grp10) by line
and output this into a
new dataset called
aggsum.

Lines 185-195 create
two arrays. One
array is a vector from

```

188     grpt = sum (of grp1-grp10);
189     grpc = sum (of grp1-grp9);
190     array ex grpt grpc grp1-grp10;
191     array wt popt popc pop1-pop10;
192     do over ex;
193         ex = ex/wt;
194     end;
195

```

NOTE: The data set WORK.CSTPOP1 has 65 observations and 13 variables.

NOTE: The DATA statement used 0.16 seconds.

```

196 data numcus (rename=(popt=grpt popc=grpc pop1=grp1
197     pop2=grp2
198     pop3=grp3 pop4=grp4 pop5=grp5
199     pop6=grp6
200     pop7=grp7 pop8=grp8 pop9=grp9
201     pop10=grp10));
199     set subagg;
200     line = '000000';
201

```

NOTE: The data set WORK.NUMCUS has 1 observations and 13 variables.

NOTE: The DATA statement used 0.11 seconds.

```

202 data cstpop;
203     set numcus cstpop1;
204     by line;
205

```

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

NOTE: The DATA statement used 0.11 seconds.

```

206 data addlab ;
207     infile labls missover pad;
208     input @1 line $6. @10 title $char40.;

```

NOTE: The infile LABLS is:
FILENAME=i:\diary99\labeld99.txt,
RECFM=V,LRECL=256

NOTE: 64 records were read from the infile LABLS.
The minimum record length was 56.
The maximum record length was 57.

NOTE: The data set WORK.ADDLAB has 64 observations and 2 variables.

NOTE: The DATA statement used 0.11 seconds.

```

209     proc sort; by line;
210

```

NOTE: The data set WORK.ADDLAB has 64 observations and 2 variables.

NOTE: The PROCEDURE SORT used 0.05 seconds.

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.

Lines 196-204 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 206-209 pull in the label file that will put titles on the final output.

```

211 data pubtab (drop = line);
212     merge cstpop (in = inline)
213         addlab (in = inlabl);
214     by line;
215     if not inlabl then delete;
216

```

NOTE: The data set WORK.PUBTAB has 64 observations and 13 variables.

NOTE: The DATA statement used 0.11 seconds.

```

217     proc print split='*' uniform;
218         label
219         grpt='      All* Consumer*   Units*_____ '
220         grpc='      Total* Complete*Reporting*_____ '
221         grp1='      Less*      Than*   $5,000*_____ '
222         grp2='      $5,000*      To*    $9,999*_____ '
223         grp3='      $10,000*     To*   $14,999*_____ '
224         grp4='      $15,000*     To*   $19,999*_____ '
225         grp5='      $20,000*     To*   $29,999*_____ '
226         grp6='      $30,000*     To*   $39,999*_____ '
227         grp7='      $40,000*     To*   $49,999*_____ '
228         grp8='      $50,000*     To*   $69,999*_____ '
229         grp9='      $70,000*     And*   Over*_____ '
230         grp10='Incomplete* Income*Reporters*_____ ' ;
231         format title $char40.;
232         format grpt grpc grp1-grp10 comma9.2;
233         id title;
234         var grpc grp1-grp9;
235         title "CE Microdata Diary Survey Average Weekly
      Expenditures, for Calendar Year 19&y by Income";
236         title2 ' ' ;
237
238     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.

NOTE: The PROCEDURE PRINT used 0.16 seconds.

Lines 211-236 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 66-71. 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 1999

OBS	POP1	POP2	POP3	POP4	POP5	POP6	POP7	POP8
POP9	POP10	POPT	POPC					
1	3245528.24	7354274.53	8174871.92	6975403.77	10901219.36	9128825.54	6871751.36	9950742.92
	14019995.98	31802464.60	108425078.21	76622613.61				

CE Microdata Diary Survey Average Weekly Expenditures, for Calendar Year 1999 by Income

	\$20,000	\$30,000	\$40,000	\$50,000	Total \$70,000 Complete And Reporting Over	Less Than \$5,000	\$5,000 To \$9,999	\$10,000 To \$14,999	\$15,000 To \$19,999
TITLE									
Number of consumer units					76622614	3245528.2	7354274.5	8174871.9	6975403.8
10901219	9128825.5	6871751.4	9950742.9	14019996					
Income before taxes					43,417.13	1,923.52	7,636.16	12,255.11	17,302.61
24,405.54	34,319.08	44,341.71	58,998.19	112149.27					
Income after taxes.....					39,806.93	1,917.86	7,539.51	12,050.25	17,006.58
23,526.42	32,201.08	41,176.64	54,498.63	99,544.93					
Age of reference person.....					47.94	38.88	56.95	55.84	52.62
47.29	44.33	45.28	43.82	45.46					
Average number in consumer unit:									
Persons					2.49	1.83	1.73	1.96	2.18
2.36	2.63	2.78	2.89	3.10					
Children under 18.....					0.68	0.51	0.38	0.46	0.50
0.62	0.79	0.82	0.85	0.89					
Persons 65 and over.....					0.30	0.15	0.51	0.51	0.55
0.41	0.21	0.21	0.12	0.13					
Earners.....					1.35	0.91	0.52	0.71	0.92
1.16	1.47	1.67	1.83	2.02					
Vehicles.....					1.66	0.89	0.79	1.08	1.39
1.56	1.72	1.93	2.13	2.32					

Percent distribution:

Male				52.42	38.22	28.30	37.98	52.12	
51.57	54.89	56.45	62.34	66.98					
Female				47.58	61.78	71.70	62.02	47.88	
48.43	45.11	43.55	37.66	33.02					
Homeowner				63.83	28.67	43.81	53.52	60.16	
57.69	59.30	71.22	76.41	85.48					
Renter				36.17	71.33	56.19	46.48	39.84	
42.31	40.70	28.78	23.59	14.52					
Black				11.66	15.71	17.41	18.05	16.89	
10.79	10.79	11.94	7.77	5.23					
White and other				88.34	84.29	82.59	81.95	83.11	
89.21	89.21	88.06	92.23	94.77					
Elementary education				6.79	7.30	19.34	16.00	12.26	
5.93	4.21	2.60	0.90	0.58					
High school education				39.14	48.21	48.74	49.98	51.49	
47.52	38.75	38.65	34.91	16.55					
College education				53.91	44.49	31.60	33.23	36.12	
46.54	56.99	58.48	64.19	82.88					
Never attended and other				0.16	0.00	0.32	0.79	0.13	
0.00	0.06	0.27	0.00	0.00					
At least one vehicle owned				87.98	63.80	60.67	76.32	88.88	
93.19	93.55	95.46	97.32	96.30					
Food, total.....				91.58	50.85	47.12	53.04	69.94	
78.08	90.29	103.78	115.08	146.24					
Food at home.....				57.05	34.19	34.67	37.97	48.10	
51.29	55.44	65.41	70.65	81.47					
Cereals and cereal products.....				3.13	1.82	2.30	2.17	2.73	
2.69	3.26	3.71	3.74	4.17					
Bakery products.....				5.73	3.40	3.49	3.72	4.67	
4.91	5.21	6.25	7.43	8.65					
Beef.....				4.22	2.32	2.83	2.78	3.53	
3.69	4.08	5.01	5.28	5.92					
				Total	Less	\$5,000	\$10,000	\$15,000	
\$20,000	\$30,000	\$40,000	\$50,000	\$70,000					
To	To	To	To	Complete	Than	To	To	To	
				And					
\$29,999	\$39,999	\$49,999	\$69,999	Reporting	\$5,000	\$9,999	\$14,999	\$19,999	
				Over					
TITLE									
Pork.....				3.03	1.61	2.17	2.13	2.82	
3.26	3.01	3.59	3.58	3.60					

Other meats.....	1.91	1.35	1.16	1.55	1.72
1.94 1.80 1.99 2.39	2.41				
Poultry.....	2.69	2.16	1.69	1.87	2.10
2.47 2.55 3.03 3.21	3.83				
Fish and seafood.....	2.10	1.46	1.41	1.22	2.11
1.66 2.16 2.16 2.40	3.16				
Eggs.....	0.64	0.55	0.48	0.56	0.61
0.62 0.69 0.63 0.69	0.75				
Fresh milk and cream.....	2.46	1.78	1.52	1.73	2.10
2.16 2.69 2.64 3.11	3.27				
Other dairy products.....	4.03	2.14	2.14	2.50	3.02
3.53 3.73 4.72 5.12	6.33				
Fresh fruits.....	3.03	2.12	1.73	2.14	2.51
2.77 2.76 3.49 3.40	4.59				
Fresh vegetables.....	2.94	1.73	1.79	2.06	2.52
2.71 2.87 3.30 3.38	4.30				
Processed fruits.....	2.24	1.22	1.33	1.61	1.85
2.04 2.08 2.47 2.72	3.30				
Processed vegetables.....	1.69	1.14	1.06	1.12	1.58
1.54 1.64 2.10 2.00	2.29				
Sugar and other sweets.....	2.29	1.49	1.35	1.40	2.08
2.10 2.16 2.47 3.06	3.17				
Fats and oils.....	1.63	1.07	0.99	1.05	1.66
1.58 1.69 2.05 1.82	2.06				
Miscellaneous foods.....	8.42	4.08	4.34	5.02	6.54
7.27 8.28 10.22 10.89	12.84				
Nonalcoholic beverages.....	4.88	2.74	2.88	3.33	3.95
4.34 4.80 5.56 6.41	6.82				
Food away from home.....	34.53	16.66	12.45	15.07	21.84
26.79 34.86 38.37 44.43	64.77				
Alcoholic beverages.....	6.04	4.97	1.61	3.15	3.58
4.80 5.10 6.06 7.77	11.83				
Fuel and utilities	43.51	21.48	26.13	36.01	42.80
38.56 42.76 53.33 51.56	56.27				
Housekeeping supplies	10.55	4.58	4.95	5.49	6.67
8.68 9.90 11.07 15.07	18.18				
Household furnishings and equipment	38.75	10.68	10.31	12.46	28.32
27.75 28.83 36.51 42.02	94.44				
Apparel and services.....	34.98	19.91	13.74	16.57	26.09
30.07 35.55 33.62 40.27	65.11				
Men, 16 and over.....	6.51	3.13	1.71	1.59	3.04
5.08 7.70 6.06 8.03	13.89				
Boys, 2 to 15.....	2.05	2.18	0.67	1.17	2.04
1.75 2.07 1.81 2.89	3.02				

Women, 16 and over.....	11.36	7.93	5.26	6.12	11.79
8.70 11.14 9.77 12.41	20.45				
Girls, 2 to 15.....	1.92	0.38	0.94	1.58	1.05
2.07 1.63 1.61 2.55	3.19				
Children under 2.....	1.41	0.76	0.81	0.74	0.62
1.26 1.41 2.01 1.61	2.35				
Footwear.....	6.29	3.19	2.43	3.37	5.39
6.82 8.18 5.75 7.21	9.13				
Other apparel products and services...	5.44	2.34	1.92	2.00	2.15
4.40 3.41 6.60 5.57	13.09				
Gasoline and motor oil	18.15	9.59	6.49	9.81	12.97
16.32 18.27 22.74 25.21	27.80				
Non-prescription drugs and supplies ...	5.83	4.10	4.16	5.28	4.83
4.28 4.99 4.21 7.49	9.30				
Entertainment	38.21	12.28	11.29	17.73	20.53
28.50 29.10 40.47 48.38	84.21				
Fees and admissions	10.48	3.25	1.96	3.42	3.27
6.16 7.03 9.46 12.84	28.74				
Television, radios, sound equipment ...	14.59	5.27	5.69	7.99	11.20
13.70 11.91 17.82 18.42	25.08				
Pets, toys, and playground equipment ..	7.49	2.95	2.91	3.38	4.39
5.39 6.29 9.02 10.34	14.56				
Other entertainment supplies, equipment	5.65	0.81	0.73	2.93	1.67
3.26 3.86 4.17 6.78	15.83				
Personal care products and services.....	8.56	4.44	4.18	3.97	5.63
7.39 8.68 9.56 10.03	15.25				
Miscellaneous	17.80	8.81	6.79	20.82	9.92
11.98 18.56 15.26 17.27	33.48				

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 data processing carried out by the

Census Bureau includes keying the data from the questionnaires, clerical data editing, and correcting for inconsistencies in the collected data.

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

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

B. Bureau of Labor Statistics Activities

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

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

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

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

X. Sampling Statement

A. Survey Sample Design

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

The first step in sampling is the selection of primary sampling units (PSUs), which consist of counties (or parts thereof) or groups of counties. The set of sample PSUs used for the 1999 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 1999 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 pre-designated with each day of the week having an equal chance to be the first of the reference week. The diaries are evenly spaced throughout the year. During the last 6 weeks of the year, however, the Diary Survey sample is supplemented to twice its normal size to increase the reporting of types of expenditures unique to the holidays.

B. Cooperation Levels

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

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

The response rate for the 1999 Diary Survey is 74.9% as shown below. This response rate refers to all diaries in the year.

Number of diaries designated for the survey	Type B or C ineligible cases	Eligible housing unit interviews		Total respondent interviews
		Number of potential diaries	Type A nonresponse	
24,784	4,486	20,298	5,103	15,195

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

C. Weighting

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

- 1) The basic weight is assigned to an address and is the inverse of the probability of selection of the housing unit.

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

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

D. State Identifier

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

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

XI. Interpreting the Data

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

Expenditures reported are the direct out-of-pocket expenditures. Indirect expenditures, which may be significant, may be reflected elsewhere. For example, rental contracts often include utilities. Renters with such contracts would record no direct expense for utilities, and therefore, appear to have no utility expenses. Employers or insurance companies frequently pay other costs. CUs with members whose employers pay for all or part of their health insurance or life insurance would have lower direct expenses for these items than those who pay the entire amount themselves. These points should be considered when relating reported averages to individual circumstances.

XII. Appendix 1—Glossary

Population

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

Consumer unit (CU)

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

Reference person

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

Income before taxes

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

Income after taxes

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

Complete income reporters

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

Geographic regions

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

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

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

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

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

XIII. Appendix 2—Universal Classification Code (UCC) Titles

*L denotes UCCs that could have negative values.

An underlined UCC represents either a new UCC or a deleted UCC. Please note that new UCCs may not be represented in all quarters. The quarter in which the addition (deletion) occurs is denoted by a leading superscript directly prior to the UCC code. For example, ^{N(D)991}(UCC) identifies a new (deleted) UCC beginning in Q991.

A. Expenditure UCC's on EXPD File

001000	Stocks, bonds, mutual funds
001100	Precious metals
001200	Miscellaneous investments
001400	Employment counseling & fees
002000	Savings account deposit
002100	Insurance other than health, hospital, vehicle and property
002200	Retirement plans
004000	Contributions
004100	Cash gifts
004190	Gifts not specified
005000	Alimony and child support
009000	Mortgage payment including coop
009900	Property assessment
010110	Flour
010120	Prepared flour mixes
010210	Cereal
010310	Rice
010320	Pasta, cornmeal, other cereal products
020110	White bread
020210	Bread other than white
020310	Fresh biscuits, rolls, muffins
020410	Cakes and cupcakes, fresh and other, excluding frozen
020510	Cookies, excluding refrigerated dough
020610	Crackers, excluding crumbs
020620	Bread and cracker products
020710	Doughnuts, sweet rolls, coffeecakes, fresh and other, excluding frozen
020810	Frozen refrigerated and canned bakery products, such as biscuits, rolls, muffins, cakes, cupcakes, doughnuts, pies, tarts, turnovers, and miscellaneous products, including dough and batter
020820	Pies, tarts, turnovers, fresh and other, excluding frozen
030110	Ground beef, excluding canned
030210	Chuck roast, excluding canned
030310	Round roast, excluding canned

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

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

190912	Board at Full Service
190913	Board at Vending Machine
190914	Board at Employer
190915	Board
190916	Board at Catered Affairs
190921	Catered Affairs at Fast Food
190922	Catered Affairs at Full Service
190923	Catered Affairs at Vending Machine
190924	Catered Affairs at Employer
190925	Catered Affairs at Board
190926	Catered Affairs
200111	Beer and ale at home
200112	Nonalcoholic beer
200210	Whiskey at home
200310	Wine at home
200410	Other alcoholic beverages at home
200511	Beer at Fast Food
200512	Beer at Full Service
200513	Beer at Vending Machine
200514	Beer at Employer
200515	Beer at Board
200516	Beer at Catered Affairs
200521	Wine at Fast Food
200522	Wine at Full Service
200523	Wine at Vending Machine
200524	Wine at Employer
200525	Wine at Board
200526	Wine at Catered Affairs
200531	Alcoholic Beverage Excluding Beer/Wine Fast Food
200532	Alcoholic Beverage Excluding Beer/Wine Full Service
200533	Alcoholic Beverage Excluding Beer/Wine Vending Machine
200534	Alcoholic Beverage Excluding Beer/Wine at Employer
200535	Alcoholic Beverage Excluding Beer/Wine at Board
200536	Alcoholic Beverage Excluding Beer/Wine Catered Affairs
210110	Rent of dwelling, including deposit and parking fees
210210	Lodging away from home
210310	Housing for someone at school
210900	Ground or land rent
220000	Capital improvements, not specified
220110	Fire/extended coverage insurance
220120	Homeowners insurance
220210	Property taxes
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
270310	Community antenna or cable TV
270410	Garbage, trash collection
270900	Septic tank cleaning
270905	Steam heat
280110	Bathroom linens
280120	Bedroom linens
280130	Kitchen and dining room linens
280210	Curtains and drapes, excluding shower
280220	Slipcovers, decorative pillows, and cushions
280230	Sewing materials for slipcovers, curtains, and other home handiwork
280900	Other linens
290110	Mattress and springs
290120	Other bedroom furniture
290210	Sofas
290310	Living room chairs
290320	Living room tables
290410	Kitchen and dining room furniture
290420	Infants' furniture
290430	Patio, porch or outdoor furniture
290440	Modular wall units, shelves or cabinets, or other living room, family or rec-room furniture including desks
300110	Refrigerator, home freezer
300210	Washers
300220	Dryers
300310	Stoves, ovens
300320	Microwave ovens
300330	Portable dishwashers
300410	Window air conditioners
300900	Miscellaneous household appliances
310110	Black and white TV's, and combination of TV with other items
310120	Color TV console and combinations of TV with other items, such as TV with VCR
310130	Color TV (portable and table models) and combinations of portable model color TV with other items, such as TV with radio
310210	Video players, video recorders, video tape player, video tape recorder, video disc player, video camera receiver and recorder, and camcorder

310220	Video cassettes, tapes and discs, laser discs, reels, prerecorded and blank video cassettes, video tapes, and diskettes
310230	Video game cartridges, TV computer games and software, Atari cartridges and supplies, computer joystick, games, and game cartridges
310311	Radio, not installed in vehicles
310312	Phonograph or record player
310313	Tape recorder and player
310320	Sound components, component systems, amplifiers, receivers, turn tables, tape decks, tuners, stereos, speakers, and compact disc sound systems
310331	Miscellaneous sound equipment
310332	Sound equipment accessories
310334	Satellite dishes
310340	Records, tapes, CD's, needles, styli, and record clubs
310900	Accessories for electronic equipment
320110	Room-size rugs and other non-permanent floor coverings
320120	Venetian blinds, window shades and other window coverings
320130	Infants' equipment
320140	Laundry and cleaning equipment
320150	Outdoor equipment
320210	Clocks
320220	Lamps and other lighting fixtures
320231	Other household decorative items, including fireplace equipment and accessories
320232	Telephones and accessories
320310	Plastic dinnerware
320320	China and other dinnerware
320330	Stainless, silver and other flatware
320340	Glassware
320350	Silver serving pieces
320360	Serving pieces other than silver
320370	Nonelectric cookware
320380	Tableware, nonelectric kitchenware
320410	Lawnmowing equipment and other yard machinery, powered and nonpowered
320420	Power tools
320430	Other hardware, including curtain and drapery hardware, rope, portable ladders, sheds, non-permanent shelves and shelving
320511	Electric floor cleaning equipment
320512	Sewing machines
320521	Small electrical kitchen appliances
320522	Portable heating and cooling equipment
320610	Miscellaneous supplies and equipment, such as caulking compound, duct tape, carpet tape, carpet knife, bolts, screws, drill bits, door knobs, tool box, keys, mailbox, gutter screens, clamps, shelf brackets, tool table, work bench, etc...
320620	Permanent hard surface floor covering
320630	Landscaping items, such as grass, grass seed, trees, shrubs, plants, sod, and fork lift
320901	Office furniture for home use
320902	Non-powered tools
320903	Fresh flowers or potted plants
320904	Closet and storage items
320905	Miscellaneous household equipment and parts
320906	Electronic testing equipment
330110	Soaps and detergents, excluding hand soaps
330210	Other laundry and cleaning products
330310	Paper towels, napkins, toilet tissue, facial tissue
330410	Stationery, giftwrap and wrap accessories, greeting cards, pens, pencils, tape
330510	Miscellaneous household products, including paper, plastic and foil products

330610 Lawn and garden supplies, including outdoor plants
 340110 Postage
 340120 Delivery services
 340210 Babysitting or other home care for children
 340310 Housekeeping service, such as housekeeping, cooking, maid service, interior decorating,
 and carpet and upholstery cleaning services
 340410 Gardening and lawn care services, such as mowing, tree services, fertilizing, and yard
 work
 340510 Moving, storage, and freight express
 340520 Non-clothing household laundry or dry cleaning not coin operated
 340530 Non-clothing household laundry or dry cleaning - coin-operated
 340610 Repair of television, radio, and sound equipment, excluding installed in vehicles
 340620 Repair of household appliances; including stove, vacuum, washer, dryer, sewing
 machine, refrigerator, and calculator; excluding garbage disposal, range hood, and
 built-in dishwasher
 340630 Furniture repair, refurbishing, or reupholstery
 340901 Rental or repair of lawnmowing equipment and other yard machinery, power and non-
 power tools
 340903 Miscellaneous home services and small repair jobs not already specified
 340904 Rental of furniture
 340906 Care for invalids, convalescents, handicapped or elderly persons in the CU
 340907 Rental of household equipment items, such as refrigerators, home freezers, washers,
 microwave ovens, dishwashers, water cooler, stroller, china; excluding tools and
 lawn/garden equipment
 340908 Rental of office equipment for non-business use, includes items such as calculators,
 typewriters, projectors, and other office machines.
 340909 Rental of TV or radio sound equipment
 340913 Repair and alterations of miscellaneous household equipment, furnishings, and textiles
 350110 Tenants' insurance
 360110 Men's suits
 360120 Men's sportcoats and tailored jackets
 360210 Men's coats, jackets, and furs
 360311 Men's underwear
 360312 Men's hosiery
 360320 Men's sleepwear/loungewear
 360330 Men's accessories
 360340 Men's sweaters and vests
 360350 Men's active sportswear
 360410 Men's shirts
 360511 Men's pants
 360512 Men's shorts and shorts sets, excluding athletic
 360901 Men's uniforms
 370110 Boys' coats, jackets, and furs
 370120 Boys' sweaters
 370130 Boys' shirts
 370211 Boys' underwear
 370212 Boys' sleepwear/loungewear
 370213 Boys' hosiery
 370220 Boys' accessories
 370311 Boys' suits, sportcoats, and vests
 370312 Boys' pants
 370313 Boys' shorts and shorts sets, excluding athletic
 370901 Boys' uniforms and active sportswear
 380110 Women's coats, jackets and furs
 380210 Women's dresses
 380311 Women's sportcoats and tailored jackets

380312	Women's vests, sweaters, and sweater sets
380313	Women's shirts, tops, and blouses
380320	Women's skirts and culottes
380331	Women's pants
380332	Women's shorts and shorts sets, excluding athletic
380340	Women's active sportswear
380410	Women's sleepwear/loungewear
380420	Women's undergarments
380430	Women's hosiery
380510	Women's suits
380901	Women's accessories
380902	Women's uniforms
390110	Girls' coats, jackets, and furs
390120	Girls' dresses and suits
390210	Girls' sport coats, tailored jackets, shirts, blouses, sweaters, sweater sets, and vests
390221	Girls' skirts, culottes, and pants
390222	Girls' shorts and shorts sets, excluding athletic
390230	Girls' active sportswear
390310	Girls' undergarments and sleepwear/loungewear
390321	Girls' hosiery
390322	Girls' accessories
390901	Girls' uniforms
400110	Men's footwear
400210	Boys' footwear
400220	Girls' footwear
400310	Women's footwear
410110	Infants' coats, jackets, and snowsuits
410120	Infants' rompers, dresses, and sweaters
410130	Infants' undergarments, including diapers
410140	Infants' sleeping garments
410901	Infants' accessories, hosiery, and footwear
420110	Sewing material for making clothes
420120	Sewing notions, patterns
430110	Watches
430120	Jewelry
430130	Travel items, including luggage, and luggage carriers
440110	Shoe repair and other shoe services
440120	Apparel laundry and dry cleaning - coin-operated
440130	Alteration, repair, tailoring of apparel and accessories
440140	Clothing rental
440150	Watch and jewelry repair
440210	Apparel laundry and dry cleaning not coin operated
440900	Clothing storage
450110	New cars
450210	New trucks, pick-ups, vans, or jeeps
450220	New motorcycles, motor scooters, or mopeds
450310	Lease payment (car lease)
450410	Lease payment (truck/pick-up/van/jeep lease)
460110	Used cars
460901	Used trucks or vans
460902	Used motorcycles, motor scooters, or mopeds
460903	Used aircraft
470111	Gasoline
470112	Diesel fuel
470114	Gasohol
470211	Motor oil

470220 Coolant/antifreeze, oil, brake & transmission fluids, additives, and radiator/cooling system protectant

480110 Tires (new, used or recapped); replacement and mounting of tires, and belting

480212 Vehicle products, such as wax, touch up paint, de-icer, protectant, polish, tar and bug remover, polish cloth, rubbing compound, auto 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

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
550410	Nonprescription vitamins
550900	Recreational drugs
560110	Physicians' services
560210	Dental services
560310	Eye exams, treatment or surgery, glass/lens service, glasses repaired
560330	Lab tests and x-rays
560400	Services by medical professionals other than physicians
570000	Hospital care not specified
570220	Care in convalescent in nursing home
570230	Other medical care service, such as ambulance service
570901	Rental of medical or surgical equipment for general use
570902	Repair of medical equipment
570903	Rental of supportive and convalescent equipment
580000	Hospital and health insurance not spec.
580110	Commercial health insurance
580210	Blue Cross or Blue Shield
580310	Health maintenance plans
580901	Medicare payments
590110	Newspapers (single copy and subscriptions)
590210	Magazines and periodicals (single copy and subscriptions)
590220	Books purchased through book clubs
590230	Books not purchased through book clubs
590900	Newsletters
600110	Outboard motor
600120	Unpowered boats, trailers
600130	Powered sports vehicles
600210	Ping pong, pool tables, other similar items, general sports equipment, and health and exercise equipment
600310	Bicycles
600410	Camping equipment
600420	Hunting and fishing equipment
600430	Winter sports equipment
600900	Water sports and miscellaneous sports equipment
610110	Toys, games, hobbies, tricycles, and battery powered riders
610120	Playground equipment
610130	Musical instruments and accessories
610210	Film
610220	Other photographic supplies
610230	Photographic equipment
610310	Pet food
610320	Pets, pet supplies and medicine for pets
610901	Fireworks
610902	Souvenirs
610903	Visual goods
620111	Membership fees for country clubs, health clubs, swimming pools tennis clubs, social or other recreational organizations, civic, service, or fraternal organizations
620112	Membership fees for credit card memberships
620113	Membership fees for automobile service clubs
620121	Fees for participant sports, such as golf, tennis, and bowling
620211	Admission fees for entertainment activities, including lectures, movie, theatre, concert, opera or other musical series
620221	Admission fees to sporting events
620310	Fees for recreational lessons or other instructions

620320	Photographer fees
620330	Film processing
620410	Pet services
620420	Veterinarian expenses for pets
620510	Miscellaneous fees for admissions
620610	Miscellaneous entertainment services
620710	Camp fees
620810	Rental and repair of sports, photographic and music equipment, passport fees
620911	Miscellaneous fees, pari-mutuel losses, and taxidermist fees
620912	Rental of video cassettes, tapes, and discs
620913	Coin-operated pinball/electronic video games
620915	Sport vehicle rental
630110	Cigarettes
630210	Cigars, pipe tobacco, and other tobacco products
630220	Smoking accessories
630900	Marijuana
640110	Hair care products
640120	Non-electric articles for the hair
640130	Wigs, hairpieces, and toupees
640210	Oral hygiene products, articles
640220	Shaving needs
640310	Cosmetics, perfume, cologne, bath preparations, hand soap, face and body powder, skin care products, nail preparations, manicure and eye make-up implements and accessories
640410	Deodorant, female hygiene products, miscellaneous personal care products and supplies
640420	Electrical personal care appliances
650110	Personal care services for females, including haircuts
650210	Personal care services for males, including haircuts
650900	Rental and repair of personal care appliances
660000	School supplies., etc. - unspec., including reference books not in a set
660110	School books, supplies, and equipment for college
660210	School books, supplies, and equipment for elementary and high school
660310	Encyclopedia and other sets of reference books
660900	School books , supplies, and equipment for day care center, nursery school and other
670110	Tuition for college
670210	Tuition for elementary and high school
670310	Other expenses for day care centers and nursery schools, including tuition
670901	Tuition for other schools
670902	Rentals of books and equipment, and other school-related expenses
680110	Legal fees, excluding real estate closing costs
680140	Funeral, burial or cremation expenses
680210	Safe deposit box rental
680220	Charges for checking accounts and other banking services, excluding safe deposit
680901	Purchase and upkeep of cemetery lots or vaults
680902	Accounting fees
680903	Miscellaneous personal services, advertising, fines, duplicating services
690110	Computers for non-business use, hardware and software excluding video games
690114	Computer information services
690210	Telephone answering devices
690220	Calculators
690230	Typewriters and other office machines for non-business use
999000	Home ownership expense not specified
999900	Taxes not specified
999912	Unidentifiable items - Parts 1 and 2
999935	Unidentifiable items - Parts 3, 4, and 5

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

[1] for LUNCH

190111, 190112, 190113, 190114, 190115, 190116

[2] for DINNER

190211, 190212, 190213, 190214, 190215, 190216

[3] for SNACKS

190311, 190312, 190313, 190314, 190315, 190316

[4] for BREAKFAST

190321, 190322, 190323, 190324, 190325, 190326

[5] for CATERED AFFAIRS

190921, 190922, 190923, 190924, 190925, 190926

[6] for BOARD

190911, 190912, 190913, 190914, 190915, 190916

[7] for BEER

200511, 200512, 200513, 200514, 200515, 200516

[8] for WINE

200521, 200522, 200523, 200524, 200525, 200526

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

200531, 200532, 200533, 200534, 200535, 200536

B. Income and Related UCC's on DTBD File

*L denotes UCC's could have negative values

800700	Meals received as pay
800710	Rent received as pay
800910	Payroll deductions for government retirement
800920	Payroll deductions for railroad retirement
800931	Payroll deductions for private pensions
800932	Non-payroll deposit to individual retirement plan, such as IRA's
800940	Payroll deductions for social security
900000	Wages and salaries
* 900010	Net business income
* 900020	Net farm income
900030	Social security and railroad retirement income
900040	Pensions and annuities
900050	Dividends, royalties, estates, or trusts
* 900060	Income from roomers and boarders
* 900070	Other rental income
900080	Interest from saving accounts or bonds
900090	Supplemental security income
900100	Unemployment compensation

900110	Worker's compensation and veterans payments including education benefits
900120	Public assistance or welfare including money received from job training grants such as job corps
900131	Child support payments received
900132	Other regular contributions received including alimony
900140	Other income including money received from care of foster children, cash scholarships and fellowships or stipends not based on working
900150	Food stamps
910000	Lump sum payments from estates, trusts, royalties, alimony, child support, prizes or games of chance, or from persons outside of the CU
910010	Money from sale of household furnishings, equipment, clothing, jewelry, pets or other belongings, excluding the sale of vehicles or property
910020	Overpayment on social security
910030	Refund from insurance policies
910040	Refunds from property taxes
910041	Lump sum child support payments received
950000	Federal income tax
* 950001	Federal income tax refunds
950010	State and local income tax
* 950011	State and local income tax refunds
950021	Other taxes
950022	Personal property taxes
* 950023	Other tax refunds
* 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
* 980070	Income after taxes

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

980090	Percent homeowner
980210	Percent male reference person
980220	Percent female reference person
980230	Percent homeowner with mortgage
980240	Percent homeowner without mortgage
980250	Percent homeowner with mortgage not reported
980260	Percent renter
980270	Percent black reference person
980280	Percent non-black reference person
980290	Percent reference person with elementary education
980300	Percent reference person with high school education
980310	Percent reference person with college education
980320	Percent reference person with no education and other
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	010110-190324, 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	190111-190324
Alcoholic beverages	200111, 200210-200513, 200516-200523, 200526-200533, 200536
Fuel and utilities	250110-270210, 270410-270905
Housekeeping supplies	330110-340120
Household furnishings and equipment	230130, 240900, 280110-300900, 320110- 320522, 320620-320905, 340904, 430130, 690110, 690210-690230
Apparel and services	360110-360901, 370110-370901, 380110- 380902, 390110-390901, 410110-410901, 400110-400310, 420110-430120, 440110- 440900
Men, 16 and over	360110-360901
Boys, 2 to 15	370110-370901
Women, 16 and over	380110-380902
Girls, 2 to 15	390110-390901
Children under 2	410110-410901
Footwear	400110-400310
Other apparel products and services	420110-430120, 440110-440900
Gasoline and motor oil	470111-470211
Non-prescription drugs and supplies	550110-550410, 570901-570903
Entertainment	270310, 310110-310900, 340610, 340909, 520901, 520904, 600110-620111, 620121- 620810, 620912-620915
Fees and admissions	620111, 620121-620310, 620510-620710
Television, radios, sound equipment	270310, 310110-310900, 340610, 340909, 610130, 620912,
Pets, toys, and playground equipment	610110-610120, 610310-610320, 620410- 620420

Other entertainment supplies, equipment	520901, 520904, 600110-600900, 610210-610230, 610901-610903, 620320-620330, 620810, 620913-620915
Personal care products and services	640110-640120, 640210-650210,
Miscellaneous	590110-590900, 620112, 620911, 630110-630900, 660000-660900, 680110-680903

XV. Appendix 4—Publications and Data Releases from the Consumer Expenditure Survey

Consumer Expenditure Survey, 1998-99, Report (expected release Autumn, 2001)	Consumer unit income and expenditures, integrated data from Interview and Diary Surveys, classified by consumer unit characteristics: one way and cross tabulations, relative and aggregate shares. 64 tables.
Consumer Expenditures in 1999, Report 949 (2001)	Consumer unit income and expenditures, integrated data from Diary and Interview Surveys, classified by consumer unit characteristics. 10 tables. Available on request (202)691-6900.
Consumer Expenditures in 1998, Report 940 (February 2000)	Consumer unit income and expenditures, integrated data from Diary and Interview Surveys, classified by consumer unit characteristics. 10 tables. Available on request (202)691-6900.
Consumer Expenditure Survey, 1996-97, Report 935 (September 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, 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)691-6900.

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

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) 691-6325 and follow the voice prompts. CE data that are accessible on FAXSTAT are for the most recent year available

PUBLIC-USE TAPES

Public-use microdata 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)

CD-ROMS

CE microdata on CD-Rom are available from the Bureau of Labor Statistics for 1972-73, 1980-81, 1990-91, 1992-93, 1994, 1995, 1996, 1997, and 1998. The 1980-81 through 1998 releases contain Interview and Diary data, while the 1972-73 CD includes Interview data only. The 1980-81, and the 1990 files (of the 1990-91 CD) include selected EXPD 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 1994-1998 include the complete collection of EXPD files. A 1984-94 "multi-year" CD that presents Interview FMLD file data is also available. In addition to the microdata, the CD's also contain the same integrated Diary and Interview tabulated data (1984-present) that are found on the Consumer Expenditure Survey internet web site (<http://stats.bls.gov/csxhome.htm>).

XVI. Inquiries, Suggestions and Comments

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

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.