2004 CONSUMER EXPENDITURE DIARY SURVEY
PUBLIC USE MICRODATA
DOCUMENTATION

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U.S. Department of Labor
Bureau of Labor Statistics
Division of Consumer Expenditure Surveys

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I. INTRODUCTION

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

These microdata files present detailed expenditure and income data for the Diary component of the CE for 2004. They include weekly expenditure (EXPN), annual income (DTAB) files, and imputed income files (DTAB_IMPUTE). The data in EXPN, DTAB, and DTAB_IMPUTE files are categorized by a Universal Classification Code (UCC). The advantage of the EXPN and DTAB files is that with the data classified in a standardized format, the user may perform comparative expenditure (income) analysis with relative ease. The FMLY and MEMB files present data on the characteristics and demographics of CUs and CU members. The summary level expenditure and income information on the FMLY files permits the data user to link consumer spending, by general expenditure category, and household characteristics and demographics on one set of files.

Estimates of average expenditures in 2004 from the Diary survey, integrated with data from the Interview survey, are published in *Consumer Expenditures in 2004 (Due in 2006).* A list of recent publications containing data from the CE appears at the end of this documentation.

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II. CHANGES FROM THE 2003 MICRODATA FILES

Beginning in 2004 the CE started imputing income data. The new variables and files will be listed in this section. More detail on the new imputation process can be found in Section III.D: Income Imputation.

Also beginning in 2004, the Consumer Expenditure Diary Survey household characteristics data are collected via Computer Assisted Personal Interview (CAPI). This Diary Household Characteristics Questionnaire (CED), previously contained in a large booklet, is programmed into a laptop computer which is used by a Census Bureau field representative to collect information about the Diary Survey respondent household, including demographic characteristics and income. Expenditures are recorded in the self-administered Diary Survey form over two consecutive one-week periods. The field representative administers the CED during three visits to the Diary Survey respondent household: (1) the initial visit, during which demographic information about the household is collected and the first weekly diary is delivered; (2) a second visit at the end of the first week, during which the first diary is collected and reviewed using the recall section of the CED, and the second diary is delivered; and (3) a final visit to collect and review the second weekly diary, and to complete the CED sections on work experience and income.

The CAPI instrument used for collection of the CED was developed over several years in a joint effort by the Bureau of Labor Statistics and the Census Bureau. The instrument is programmed in Blaise, a Windows-based survey processing system developed by Statistics Netherlands and licensed by Westat in the United States.

A. FMLY files

1. Variable deletions.

Beginning in 2004Q1, data for the following variables will no longer be recorded. The positions for these deleted variables will be left blank.

Variable name	Start position
PICK_UP	559
ALIOTHX	1530
ALIOTHX_	1538
CHDOTHX	1521
CHDOTHX_	1529
DIVX	48
DIVX_	56
EARNX	59
EARNX_	67
FBSNSX	83
FBSNSX_	91
FFARMX	103
FFARMX_	111
FFEDTXX	112
FFEDTXX_	120
FGVX	121
FGVX_	129
FINCAFTX	130
FINC_FTX	138
FINCBEFX	139
FINC_EFX	147
FJSSDEDX	168
FJSS_EDX	176
FPVTX	177
FPVTX_	185
FRRX	195
FRRX_	203
FS_AMT1	204
FS_AMT1_	212
FS_AMT2	213
FS_AMT2_	221
FS_AMT3	222
FS_AMT3_	230
FS_AMT4	231
FS_AMT4_	239
FS_AMT5	240
FS_AMT5_	248
FS_AMT6	249
FS_AMT6_	257
FS_AMT7	258
FS_AMT7_	266
FS_DATE1	276
FS_D_TE1	284
FS_DATE2	285
FS_D_TE2	293
FS_DATE3	194
FS_D_TE3	302
FS_DATE4	303
FS_D_TE4	311
FS_DATE5	312

Variable name	Start position
FS_D_TE5	320
FS_DATE6	321
FS_D_TE6	329
FS_DATE7	330
FS_D_TE7	338
FSS_RRX	351
FSS_RRX_	359
FSTATXX	360
FSTATXX_	368
FSUPPX	369
FSUPPX_	377
FWAGEX	378
FWAGEX_	386
INC_RANK	1559
INC__ANK	1568
INC_RNKU	395
INC__NKU	404
INTX	414
INTX_	422
JFS_AMT	423
JFS_AMT_	431
NONERNX	474
NONERNX_	482
OTHINX	499
OTHINX_	507
OTHRNTX	526
OTHRNTX_	534
PENSIONX	535
PENS_ONX	543
PERSTAX	550
PERSTAX_	558
POVERTY	1548
POVERTY_	1549
ROOMX	584
ROOMX_	592
UNEMPX	644
UNEMPX_	652
WELFRX	659
WELFRX_	667
WRKRSX	678
WRKRSX_	686

2. Variable Additions

Beginning in 2004Q1, the FMLY file will contain the following new variables:

Name	Description	Start Position	Format
ALIOTHXM	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?	1580	NUM(10.1)

Name	Description	Start Position	Format
ALIO_HXM		1590	CHAR(1)
ALIOTHX1		1591	NUM(8)
ALIOTHX2		1599	NUM(8)
ALIOTHX3		1607	NUM(8)
ALIOTHX4		1615	NUM(8)
ALIOTHX5		1623	NUM(8)
ALIOTHXI	Indicator/descriptor variable for income imputation. (A detailed definition appears in section III.D.)	1631	NUM(3)
CHDOTHXM	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?	1634	NUM(10.1)
CHDO_HXM		1644	CHAR(1)
CHDOTHX1		1645	NUM(8)
CHDOTHX2		1653	NUM(8)
CHDOTHX3		1661	NUM(8)
CHDOTHX4		1669	NUM(8)
CHDOTHX5		1677	NUM(8)
CHDOTHXI		1685	NUM(3)
DIVXM	During the past 12 months, what was the total amount of income from dividends, royalties, estates, or trusts received by ALL CU members?	1688	NUM(10.1)
DIVXM_		1698	CHAR(1)
DIVX1		1699	NUM(8)
DIVX2		1707	NUM(8)
DIVX3		1715	NUM(8)
DIVX4		1723	NUM(8)
DIVX5		1731	NUM(8)
DIVXI		1739	NUM(3)
FBSNSXM	Amount of income or loss from nonfarm business, partnership or professional practice received by all CU members in past 12 months (Sum BSNSXM from MEMB file for all CU members)	1742	NUM(11.1)
FBSNSXM_		1753	CHAR(1)
FBSNSX1		1754	NUM(9)
FBSNSX2		1763	NUM(9)
FBSNSX3		1772	NUM(9)
FBSNSX4		1781	NUM(9)
FBSNSX5		1790	NUM(9)
FBSNSXI		1799	NUM(3)
FFARMXM	Amount of income or loss from own farm received by all CU members in past 12 months (Sum FARMXM from MEMB file for all CU members)	1802	NUM(11.1)
FFARMXM_		1813	CHAR(1)
FFARMX1		1814	NUM(9)
FFARMX2		1823	NUM(9)
FFARMX3		1832	NUM(9)
FFARMX4		1841	NUM(9)
FFARMX5		1850	NUM(9)
FFARMXI		1859	NUM(3)

Name	Description	Start Position	Format
FFEDTXXM	Amount of Federal income tax deducted from last pay annualized for all CU members (sum ANFEDTXX from MEMB file for all CU members)	1862	NUM(10.1)
FFED_XXM		1872	CHAR(1)
FFEDTXX1		1873	NUM(8)
FFEDTXX2		1881	NUM(8)
FFEDTXX3		1889	NUM(8)
FFEDTXX4		1897	NUM(8)
FFEDTXX5		1905	NUM(8)
FGVXM	Amount of government retirement deducted from last pay annualized for all CU members (Sum ANGVXM from MEMB file for all CU members)	1913	NUM(8)
FGVXM_		1921	CHAR(1)
FINCAFTM	Amount of CU income after taxes in past 12 months (FINCBEFM - PERSTAX) *L BLS derived	1922	NUM(11.1)
FINC_FTM		1933	CHAR(1)
FINCAFT1		1934	NUM(9)
FINCAFT2		1943	NUM(9)
FINCAFT3		1952	NUM(9)
FINCAFT4		1961	NUM(9)
FINCAFT5		1970	NUM(9)
FINCBEFM	Amount of CU income before taxes in past 12 months (UNEMPXM + WRKRSXM + WELFRXM + INTXM +DIVXM + PENSIONM + ROOMXM + OTHRNTXM + CHDOTHXM + ALIOTHXM + OTHINXM + JFS_AMTM + FWAGEXM + FBSNSXM + FFARMXM + FSS_RRXM + FSUPPXM)	1979	NUM(11.1)
FINC_EFM		1990	CHAR(1)
FINCBEF1		1991	NUM(9)
FINCBEF2		2000	NUM(9)
FINCBEF3		2009	NUM(9)
FINCBEF4		2018	NUM(9)
FINCBEF5		2027	NUM(9)
FINCBEFI		2036	NUM(3)
FJSSDEDM	Estimated amount of income contributed to Social Security by all CU members in past 12 months (Sum JSSDEDXM from MEMB file for all CU members)	2039	NUM(10.1)
FJSS_EDM		2049	CHAR(1)
FJSSDED1		2050	NUM(8)
FJSSDED2		2058	NUM(8)
FJSSDED3		2066	NUM(8)
FJSSDED4		2074	NUM(8)
FJSSDED5		2082	NUM(8)

Name	Description	Start Position	Format
FPVTXM	Amount of private pension fund deducted from last pay annualized for all CU members (sum ANPVTXM from MEMB file for all CU members)	2090	NUM(8)
FPVTXM_		2098	CHAR(1)
FRRXM	Amount of Railroad Retirement deducted from last pay annualized for all CU members (Sum ANRRXM from MEMB file for all CU members) BLS derived	2099	NUM(8)
FRRXM_		2107	CHAR(1)
FS_AMTXM	What is the dollar value of Food Stamps received?	2108	NUM(8.1)
FS_A_TXM		2116	CHAR(1)
FS_AMTX1		2117	NUM(6)
FS_AMTX2		2123	NUM(6)
FS_AMTX3		2129	NUM(6)
FS_AMTX4		2135	NUM(6)
FS_AMTX5		2141	NUM(6)
FS_AMTXI		2147	NUM(3)
FSS_RRXM	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 SOCRRXM from MEMB file for all CU members)	2150	NUM(10.1)
FSS__RXM		2160	CHAR(1)
FSS_RRX1		2161	NUM(8)
FSS_RRX2		2169	NUM(8)
FSS_RRX3		2177	NUM(8)
FSS_RRX4		2185	NUM(8)
FSS_RRX5		2193	NUM(8)
FSS_RRXI		2201	NUM(3)
FSTATXXM	Amount of state and local income taxes deducted from last pay annualized for all CU members (sum ANSTATXM from MEMB file for all CU members)	2204	NUM(10.1)
FSTA_XXM		2214	CHAR(1)
FSTATXX1		2215	NUM(8)
FSTATXX2		2223	NUM(8)
FSTATXX3		2231	NUM(8)
FSTATXX4		2239	NUM(8)
FSTATXX5		2247	NUM(8)
FSUPPXM	Amount of Supplemental Security Income from all sources received by all CU members in past 12 months (Sum SUPPXM from MEMB file for all CU members)	2255	NUM(10.1)
FSUPPXM_		2265	CHAR(1)
FSUPPX1		2266	NUM(8)
FSUPPX2		2274	NUM(8)
FSUPPX3		2282	NUM(8)
FSUPPX4		2290	NUM(8)

Name	Description	Start Position	Format
FSUPPX5		2298	NUM(8)
FSUPPXI		2306	NUM(3)
FWAGEXM	Amount of wage and salary income before deductions received by all CU members in past 12 months (Sum WAGEXM from MEMB file for all CU members)	2309	NUM(10.1)
FWAGEXM_		2319	CHAR(1)
FWAGEX1		2320	NUM(8)
FWAGEX2		2328	NUM(8)
FWAGEX3		2336	NUM(8)
FWAGEX4		2344	NUM(8)
FWAGEX5		2352	NUM(8)
FWAGEXI		2360	NUM(3)
INC_RNKM	Weighted cumulative percent ranking based on total current income, based on FINCBEFM.	2363	NUM(9.7)
INC__NKM		2372	CHAR(1)
INC_RNK1		2373	NUM(9.7)
INC_RNK2		2382	NUM(9.7)
INC_RNK3		2391	NUM(9.7)
INC_RNK4		2400	NUM(9.7)
INC_RNK5		2409	NUM(9.7)
INTXM	During the past 12 months, what was the total amount of income from interest on savings accounts or bonds received by ALL CU members?	2418	NUM(10.1)
INTXM_		2428	CHAR(1)
INTX1		2429	NUM(8)
INTX2		2437	NUM(8)
INTX3		2445	NUM(8)
INTX4		2453	NUM(8)
INTX5		2461	NUM(8)
INTXI		2469	NUM(3)
JFS_AMTM	Annual value of Food Stamps received by CU JFS_AMTM = 12 X FS_AMTM NOTE: JFS_AMTM is a component of FINCBEFM and FINCAFTM	2472	NUM(8.1)
JFS__MTM		2480	CHAR(1)
JFS_AMT1		2481	NUM(6)
JFS_AMT2		2487	NUM(6)
JFS_AMT3		2493	NUM(6)
JFS_AMT4		2499	NUM(6)
JFS_AMT5		2505	NUM(6)
OTHINXM	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?	2511	NUM(10.1)
OTHINXM_		2521	CHAR(1)
OTHINX1		2522	NUM(8)
OTHINX2		2530	NUM(8)
OTHINX3		2538	NUM(8)
OTHINX4		2546	NUM(8)

Name	Description	Start Position	Format
OTHINX5		2554	NUM(8)
OTHINXI		2562	NUM(3)
OTHRNTXM	During the past 12 months, how much net income or loss was received from payments from other rental units? *L	2565	NUM(11.1)
OTHR_TXM		2576	CHAR(1)
OTHRNTX1		2577	NUM(9)
OTHRNTX2		2586	NUM(9)
OTHRNTX3		2595	NUM(9)
OTHRNTX4		2604	NUM(9)
OTHRNTX5		2613	NUM(9)
OTHRNTXI		2622	NUM(3)
PENSIONM	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?	2625	NUM(10.1)
PENS_ONM		2635	CHAR(1)
PENSION1		2636	NUM(8)
PENSION2		2644	NUM(8)
PENSION3		2652	NUM(8)
PENSION4		2660	NUM(8)
PENSION5		2668	NUM(8)
PENSIONI		2676	NUM(3)
PERSTAXM	Amount of personal taxes paid by CU in past 12 months (ADDFEDX + ADDSTAX + ADDOTHX + FFEDTXXM + FSTATXXM + TAXPROPX) - (FEDREFX + STATREFX + OTHREFX) *L	2679	NUM(11.1)
PERS_AXM		2690	CHAR(1)
PERSTAX1		2691	NUM(9)
PERSTAX2		2700	NUM(9)
PERSTAX3		2709	NUM(9)
PERSTAX4		2718	NUM(9)
PERSTAX5		2727	NUM(9)
POVERTYM	Is CU income below current year's poverty threshold? (Income is defined as FINCBEFM - FS_AMTM) CODED 1 Yes 2 No	2736	CHAR(1)
POVE_TYM		2737	CHAR(1)
POVERTY1		2738	CHAR(1)
POVERTY2		2739	CHAR(1)
POVERTY3		2740	CHAR(1)
POVERTY4		2741	CHAR(1)
POVERTY5		2742	CHAR(1)
ROOMXM	During the past 12 months, how much net income or loss was received from roomers or boarders?	2743	NUM(9.1)

Name	Description	Start Position	Format
	*L		
ROOMXM_		2752	CHAR(1)
ROOMX1		2753	NUM(7)
ROOMX2		2760	NUM(7)
ROOMX3		2767	NUM(7)
ROOMX4		2774	NUM(7)
ROOMX5		2781	NUM(7)
ROOMXI		2788	NUM(3)
UNEMPXM	During the past 12 months, what was the total amount of income from unemployment compensation received by ALL CU members?	2791	NUM(8.1)
UNEMPXM_		2799	CHAR(1)
UNEMPX1		2800	NUM(6)
UNEMPX2		2806	NUM(6)
UNEMPX3		2812	NUM(6)
UNEMPX4		2818	NUM(6)
UNEMPX5		2824	NUM(6)
UNEMPXI		2830	NUM(3)
WELFRXM	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?	2833	NUM(10.1)
WELFRXM_		2843	CHAR(1)
WELFRX1		2844	NUM(8)
WELFRX2		2852	NUM(8)
WELFRX3		2860	NUM(8)
WELFRX4		2868	NUM(8)
WELFRX5		2876	NUM(8)
WELFRXI		2884	NUM(3)
WRKRSXM	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?	2887	NUM(10.1)
WRKRSXM_		2897	CHAR(1)
WRKRSX1		2898	NUM(8)
WRKRSX2		2906	NUM(8)
WRKRSX3		2914	NUM(8)
WRKRSX4		2922	NUM(8)
WRKRSX5		2930	NUM(8)
WRKRSXI		2938	NUM(3)
PICKCODE	Description/code change for PICKCODE: Pick-up Code 201 Interview 217 Interview – Temporarily absent (counted as type B, in scope for BLS)	2941	CHAR(3)
ALIOTHB	Could you tell me which range best reflects the total amount received in alimony and other sources during the	2944	CHAR(2)

Name	Description	Start Position	Format
	last 12 months? 01 $0-$999 02 $1,000-$1,999 03 $2,000-$2,999 04 $3,000-$3,999 05 $4,000-$4,999 06 $5,000-$9,999 07 $10,000-$14,999 08 $15,000-$19,999 09 $20,000-$29,999 10 $30,000-$39,999 11 $40,000-$49,999 12 $50,000 and over		
ALIOTHB_		2946	CHAR(1)
ALIOTHBX	Median of bracket range	2947	NUM(6)
ALIO_HBX		2953	CHAR(1)
CHDLMPB	Could you tell me which range best reflects the total amount received in lump sum payments for child support during the last 12 months? 01 $0-$999 02 $1,000-$1,999 03 $2,000-$2,999 04 $3,000-$3,999 05 $4,000-$4,999 06 $5,000-$9,999 07 $10,000-$14,999 08 $15,000-$19,999 09 $20,000-$29,999 10 $30,000-$39,999 11 $40,000-$49,999 12 $50,000 and over	2954	CHAR(2)
CHDLMPB_		2956	CHAR(1)
CHDLMPBX	Median of bracket range	2957	NUM(6)
CHDL_PBX		2963	CHAR(1)
CHDOTHB	Could you tell me which best reflects the total amount received in child support payments, other than lump sum amounts, by all CU members during the last 12 months? 01 $0-$999 02 $1,000-$1,999 03 $2,000-$2,999 04 $3,000-$3,999	2964	CHAR(2)

Name	Description	Start Position	Format
	05 $4,000-$4,999 06 $5,000-$9,999 07 $10,000-$14,999 08 $15,000-$19,999 09 $20,000-$29,999 10 $30,000-$39,999 11 $40,000-$49,999 12 $50,000 and over		
CHDOTHB_		2966	CHAR(1)
CHDOTHBX	Median of bracket range	2967	NUM(6)
CHDO_HBX		2973	CHAR(1)
DIVB	Could you tell me which range best reflects the total amount of income from dividends, trusts, estates or royalties during the last 12 months? 01 $0-$999 02 $1,000-$1,999 03 $2,000-$2,999 04 $3,000-$3,999 05 $4,000-$4,999 06 $5,000-$9,999 07 $10,000-$14,999 08 $15,000-$19,999 09 $20,000-$29,999 10 $30,000-$39,999 11 $40,000-$49,999 12 $50,000 and over	2974	CHAR(2)
DIVB_		2976	CHAR(1)
DIVBX	Median of bracket range	2977	NUM(6)
DIVBX_		2983	CHAR(1)
INTB	Could you tell me which range best reflects the total amount of interest received by all CU members during the last 12 months? 01 $0-$999 02 $1,000-$1,999 03 $2,000-$2,999 04 $3,000-$3,999 05 $4,000-$4,999 06 $5,000-$9,999 07 $10,000-$14,999 08 $15,000-$19,999 09 $20,000-$29,999 10 $30,000-$39,999	2984	CHAR(2)

Name	Description	Start Position	Format
	11 $40,000-$49,999 12 $50,000 and over		
INTB_		2986	CHAR(1)
INTBX	Median of bracket range	2987	NUM(6)
INTBX_		2993	CHAR(1)
LUMPB	Could you tell me which range best reflects the total lump sum payments during the last 12 months? 01 $0-$999 02 $1,000-$1,999 03 $2,000-$2,999 04 $3,000-$3,999 05 $4,000-$4,999 06 $5,000-$9,999 07 $10,000-$14,999 08 $15,000-$19,999 09 $20,000-$29,999 10 $30,000-$39,999 11 $40,000-$49,999 12 $50,000 and over	2994	CHAR(2)
LUMPB_		2996	CHAR(1)
LUMPBX	Median of bracket range	2997	NUM(6)
LUMPBX_		3003	CHAR(1)
OTHINB	Could you tell me which range best reflects the total amount of other money income received during the last 12 months? 01 $0-$999 02 $1,000-$1,999 03 $2,000-$2,999 04 $3,000-$3,999 05 $4,000-$4,999 06 $5,000-$9,999 07 $10,000-$14,999 08 $15,000-$19,999 09 $20,000-$29,999 10 $30,000-$39,999 11 $40,000-$49,999 12 $50,000 and over	3004	CHAR(2)
OTHINB_		3006	CHAR(1)
OTHINBX	Median of bracket range	3007	NUM(6)

Name	Description	Start Position	Format
OTHINBX_		3013	CHAR(1)
OTHLOSSB	Could you tell me which range best reflects your net income or loss from other rental units during the last 12 months? 00 Loss 01 $0-$999 02 $1,000-$1,999 03 $2,000-$2,999 04 $3,000-$3,999 05 $4,000-$4,999 06 $5,000-$9,999 07 $10,000-$14,999 08 $15,000-$19,999 09 $20,000-$29,999 10 $30,000-$39,999 11 $40,000-$49,999 12 $50,000 and over	3014	CHAR(2)
OTHL_SSB		3016	CHAR(1)
OTHLOSBX	Median of bracket range	3017	NUM(6)
OTHL_SBX		3023	CHAR(1)
PNSIONB	Could you tell me which range best reflects the total amount of retirement pensions and annuities during the last 12 months? 01 $0-$999 02 $1,000-$1,999 03 $2,000-$2,999 04 $3,000-$3,999 05 $4,000-$4,999 06 $5,000-$9,999 07 $10,000-$14,999 08 $15,000-$19,999 09 $20,000-$29,999 10 $30,000-$39,999 11 $40,000-$49,999 12 $50,000 and over	3024	CHAR(2)
PNSIONB_		3026	CHAR(1)
PNSIONBX	Median of bracket range	3027	NUM(6)
PNSI_NBX		3033	CHAR(1)
ROOMLOSB	Could you tell me which range best reflects your net income or loss from roomers or boarders? 01 $0-$999	3034	CHAR(2)

Name	Description	Start Position	Format
	02 $1,000-$1,999 03 $2,000-$2,999 04 $3,000-$3,999 05 $4,000-$4,999 06 $5,000-$9,999 07 $10,000-$14,999 08 $15,000-$19,999 09 $20,000-$29,999 10 $30,000-$39,999 11 $40,000-$49,999 12 $50,000 and over		
ROOM_OSB		3036	CHAR(1)
ROOMLSBX	Median of bracket range	3037	NUM(6)
ROOM_SBX		3043	CHAR(1)
SALEB	Could you tell me which range best reflects the total amount received from these sales during the last 12 months? 01 $0-$999 02 $1,000-$1,999 03 $2,000-$2,999 04 $3,000-$3,999 05 $4,000-$4,999 06 $5,000-$9,999 07 $10,000-$14,999 08 $15,000-$19,999 09 $20,000-$29,999 10 $30,000-$39,999 11 $40,000-$49,999 12 $50,000 and over	3044	CHAR(2)
SALEB_		3046	CHAR(1)
SALEBX	Median of bracket range	3047	NUM(6)
SALEBX_		3053	CHAR(1)
UNEMPB	Could you tell me which range best reflects the total amount received in unemployment compensation during the last 12 months? 01 $0-$999 02 $1,000-$1,999 03 $2,000-$2,999 04 $3,000-$3,999 05 $4,000-$4,999 06 $5,000-$9,999 07 $10,000-$14,999 08 $15,000-$19,999 09 $20,000-$29,999	3054	CHAR(2)

Name	Description	Start Position	Format
	10 $30,000-$39,999 11 $40,000-$49,999 12 $50,000 and over		
UNEMPB_		3056	CHAR(1)
UNEMPBX	Median of bracket range	3057	NUM(6)
UNEMPBX_		3063	CHAR(1)
WELFRB	Could you tell me which range best reflects the total amount of income from cash assistance from state or local government welfare programs during the last 12 months? 01 $0-$999 02 $1,000-$1,999 03 $2,000-$2,999 04 $3,000-$3,999 05 $4,000-$4,999 06 $5,000-$9,999 07 $10,000-$14,999 08 $15,000-$19,999 09 $20,000-$29,999 10 $30,000-$39,999 11 $40,000-$49,999 12 $50,000 and over	3064	CHAR(2)
WELFRB_		3066	CHAR(1)
WELFRBX	Median of bracket range	3067	NUM(6)
WELFRBX_		3073	CHAR(1)
WRKRSB	Could you tell me which range best reflects the total amount of income from worker's compensation during the last 12 months? 01 $0-$999 02 $1,000-$1,999 03 $2,000-$2,999 04 $3,000-$3,999 05 $4,000-$4,999 06 $5,000-$9,999 07 $10,000-$14,999 08 $15,000-$19,999 09 $20,000-$29,999 10 $30,000-$39,999 11 $40,000-$49,999 12 $50,000 and over	3074	CHAR(2)
WRKRSB_		3076	CHAR(1)
WRKRSBX	Median of bracket range	3077	NUM(6)

Name	Description	Start Position	Format
WRKRSBX_		3083	CHAR(1)

3. Variable Definition Changes

Beginning in 2004Q1, the following variable definitions change:

Name	Description
TAXPROPX	Description wording changed - word "vehicles" added. From: Any personal property taxes? To : Any personal property taxes for vehicles?
*REF_RACE	Change of wording of race codes from 1 White 2 Black 3 Native American 4 Asian 5 Pacific Islander 6 Multirace CODED 1 White 2 African American, or Black 3 American Indian, or Alaskan Native 4 Asian 5 Native Hawaiian or Other Pacific Islander 6 Other
INCLASS	Delete code: 10 Incomplete income reported

B. MEMB files

1. Variable deletions.

Beginning in 2004Q1, data for the following variables will no longer be recorded. The positions for these deleted variables will be left blank.

Variable name	Start position
ANFEDTXX	12
ANFE_TXX	20
ANGVX	21
ANGVX_	29
ANPVTX	30
ANPVTX_	38
ANRRX	39
ANRRX_	47

Variable name	Start position
ANSTATXX	48
ANST_TXX	56
BSNSX	61
BSNSX_	69
FARMX	77
FARMX_	85
JSSDEDX	126
JSSDEDX_	132
SLFEMPSS	176
SLFE_PSS	182
SOCRRX	233
SOCRRX_	241
SS_RRX	183
SS_RRX_	191
SUPPX	203
SUPPX_	211
WAGEX	214
WAGEX_	222

2. Variable Additions

Beginning in 2004Q1, the MEMB file will contain the following new variables:

Name	Description	Start Position	Format
ANFEDTXM	Annualized amount of Federal income tax deducted from last pay ((FEDTXX/GROSPAYX) x WAGEM)	268	NUM(8)
ANFE_TXM		276	CHAR(1)
ANGVXM	Annualized amount of Government Retirement deducted from last pay ((GVX/GROSPAYX) x WAGEM)	277	NUM(8)
ANGVXM_		285	CHAR(1)
ANPVTXM	Annualized amount of private pensions deducted from last pay ((PVTX/GROSPAYX) x WAGEM)	286	NUM(8)
ANPVTXM_		294	CHAR(1)
ANRRXM	Annualized amount of Railroad Retirement deducted from last pay ((RRX/GROSPAYX) x WAGEM)	295	NUM(8)
ANRRXM_		303	CHAR(1)
ANSTATXM	Annualized amount of state and local income taxes deducted from last pay ((STATXX/GROSPAYX) x WAGEM)	304	NUM(8)
ANST_TXM		312	CHAR(1)
BSNSXM	Amount of income or loss from nonfarm business, partnership or professional practice received in past 12 months *L	313	NUM(11.1)
BSNSXM_		324	CHAR(1)
BSNSX1		325	NUM(9)
BSNSX2		334	NUM(9)
BSNSX3		343	NUM(9)
BSNSX4		352	NUM(9)
BSNSX5		361	NUM(9)

Name	Description	Start Position	Format
BSNSXI		370	NUM(3)
FARMXM	During the past 12 months, what was the amount of income or loss from the member's own farm after expenses? *L	373	NUM(11.1)
FARMXM_		384	CHAR(1)
FARMX1		385	NUM(9)
FARMX2		394	NUM(9)
FARMX3		403	NUM(9)
FARMX4		412	NUM(9)
FARMX5		421	NUM(9)
FARMXI		430	NUM(3)
JSSDEDXM	Estimated amount of income contributed to Social Security by member in past 12 months	433	NUM(8.1)
JSSD_DXM		441	CHAR(1)
JSSDEDX1		442	NUM(6)
JSSDEDX2		448	NUM(6)
JSSDEDX3		454	NUM(6)
JSSDEDX4		460	NUM(6)
JSSDEDX5		466	NUM(6)
SLFEMPSM	Amount of income contributed to Social Security by member if self-employed	472	NUM(8.1)
SLFE_PSM		480	CHAR(1)
SLFEMPS1		481	NUM(6)
SLFEMPS2		487	NUM(6)
SLFEMPS3		493	NUM(6)
SLFEMPS4		499	NUM(6)
SLFEMPS5		505	NUM(6)
SOCRRXM	Annual amount of Social Security and Railroad Retirement income received by member in past 12 months	511	NUM(10.1)
SOCRRXM_		521	CHAR(1)
SOCRRX1		522	NUM(8)
SOCRRX2		530	NUM(8)
SOCRRX3		538	NUM(8)
SOCRRX4		546	NUM(8)
SOCRRX5		554	NUM(8)
SS_RRXM	What was the amount of the last Social Security or Railroad Retirement payment received? (In past 12 months)	562	NUM(10.1)
SS_RRXM_		572	CHAR(1)
SS_RRX1		573	NUM(8)
SS_RRX2		581	NUM(8)
SS_RRX3		589	NUM(8)
SS_RRX4		597	NUM(8)
SS_RRX5		605	NUM(8)
SS_RRXI		613	NUM(3)
SUPPXM	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)	616	NUM(10.1)

Name	Description	Start Position	Format
SUPPXM_		626	CHAR(1)
SUPPX1		627	NUM(8)
SUPPX2		635	NUM(8)
SUPPX3		643	NUM(8)
SUPPX4		651	NUM(8)
SUPPX5		659	NUM(8)
SUPPXI		667	NUM(3)
WAGEXM	During the past 12 months, what was the amount of wages or salary income received before any deductions?	670	NUM(10.1)
WAGEXM_		680	CHAR(1)
WAGEX1		681	NUM(8)
WAGEX2		689	NUM(8)
WAGEX3		697	NUM(8)
WAGEX4		705	NUM(8)
WAGEX5		713	NUM(8)
WAGEXI		721	NUM(3)
BSNSB	Could you tell me which range best reflects the member's income or loss from the member's own nonfarm business, partnership or professional practice during the last 12 months? 00 Loss 01 $0-$4,999 02 $5,000-$9,999 03 $10,000-$14,999 04 $15,000-$19,999 05 $20,000-$29,999 06 $30,000-$39,999 07 $40,000-$49,999 08 $50,000-$69,999 09 $70,000-$89,999 10 $90,000-$119,999 11 $120,000 and over	724	CHAR(2)
BSNSB_		726	CHAR(1)
BSNSBX	Median of bracket range	727	NUM(6)
BSNSBX_		733	CHAR(1)
FARMB	Could you tell me which range best reflects the member's income or loss from the member's own farm during the last 12 months? 00 Loss 01 $0-$4,999 02 $5,000-$9,999 03 $10,000-$14,999 04 $15,000-$19,999 05 $20,000-$29,999 06 $30,000-$39,999 07 $40,000-$49,999 08 $50,000-$69,999 09 $70,000-$89,999	734	CHAR(2)

Name	Description	Start Position	Format
	10 $90,000-$119,999 11 $120,000 and over		
FARMB_		736	CHAR(1)
FARMBX	Median of bracket range	737	NUM(6)
FARMBX_		743	CHAR(1)
SS_RRB	Could you tell me which range best reflects the amount of the member's last Social Security or Railroad Retirement payment during the last 12 months? 01 Less than $300 02 $300-$399 03 $400-$499 04 $500-$599 05 $600-$699 06 $700-$799 07 $800-$899 08 $900-$999 09 $1,000-$1499 10 $1,500 and over	744	CHAR(2)
SS_RRB_		746	CHAR(1)
SS_RRBX	Median of bracket range	747	NUM(6)
SS_RRBX_		753	CHAR(1)
SUPPB	Could you tell me which range best reflects the amount the member received in Supplemental Security income from all government sources during the last 12 months? 01 $0-$999 02 $1,000-$1,999 03 $2,000-$2,999 04 $3,000-$3,999 05 $4,000-$4,999 06 $5,000-$9,999 07 $10,000-$14,999 08 $15,000-$19,999 09 $20,000-$29,999 10 $30,000-$39,999 11 $40,000-$49,999 12 $50,000 and over	754	CHAR(2)
SUPPB_		756	CHAR(1)
SUPPBX	Median of bracket range	757	NUM(6)

Name	Description	Start Position	Format
SUPPBX_		763	CHAR(1)
WAGEB	Could you tell me which range best reflects the member's total wages and salaries for ALL JOBS during the last 12 months? 01 $0-$4,999 02 $5,000-$9,999 03 $10,000-$14,999 04 $15,000-$19,999 05 $20,000-$29,999 06 $30,000-$39,999 07 $40,000-$49,999 08 $50,000-$69,999 09 $70,000-$89,999 10 $90,000-$119,999 11 $120,000 and over	764	CHAR(2)
WAGEB_		766	CHAR(1)
WAGEBX	Median of bracket range	767	NUM(6)
WAGEBX_		773	CHAR(1)

3. Variable Definition Changes

Beginning in 2004Q1, the following variable definitions change:

Name	Description
*MEMBRACE	Change of wording of race codes from 1 White 2 Black 3 Native American 4 Asian 5 Pacific Islander 6 Multi-race to 1 White 2 African American, or Black 3 American Indian, or Alaskan Native 4 Asian 5 Native Hawaiian or Other Pacific Islander 6 Multi-race 7 Other
RC_BLACK	Change of wording for race from: 2 Black to: 2 African American, or Black
RC_NATAM	Change of wording for race from: 3 Native American to:

Name	Description
	3 American Indian, or Alaskan Native
RC_PACIL	Change of wording for race from: 5 Pacific Islander to: 5 Native Hawaiian or Other Pacific Islander

C. EXPN files

No changes this year

D. DTAB files

No changes this year

E. DTAB_IMPUTE files

Beginning in 2004Q1 the new imputation UCC file will DTAB_IMPUTE files will be created to include the following variables with the start positions and formats indicated below.

Variable name	Format	Start position
NEWID	NUM(8)	1
UCC	CHAR(6)	9
PUB_FLAG	CHAR(1)	15
AMOUNT	NUM(12)	16
AMOUNT_	CHAR(1)	28
IMPNUM	CHAR(1)	29

III. FILE INFORMATION

The microdata on the CD-ROM are available as SAS data sets or ASCII text files. The 2004 Diary release contains five sets of data files (FMLY, MEMB, EXPN, DTAB, DTAB_IMPUTE) and three processing files. The FMLY, MEMB, EXPN, DTAB, and DTAB_IMPUTE files are organized by the quarter of the calendar year in which the data were collected. There are four quarterly data sets for each of these files. The FMLY files contain CU characteristics, income, and summary level expenditures; the MEMB files contain member characteristics and income data; the EXPN files contain detailed weekly expenditures at the UCC level; the DTAB files contains the CU's reported income values or the mean of the five imputed income values in the multiple imputation method; and the DTAB_IMPUTE files contain the five imputed income values.

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

In addition to these processing files, there is a "User's Guide to Income Imputation in the CE", which includes information on how to appropriately use the imputed income data.

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

A. DATA SET NAMES

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

```
X:\DIARY04\FMLYD041.txt (Diary FMLY file for first quarter, 2004)
X:\DIARY04\MEMBD041.txt (Diary MEMB file for first quarter, 2004)
X:\DIARY04\EXPND041.txt (Diary EXPN file for first quarter, 2004)
X:\DIARY04\DTABD041.txt (Diary DTAB file for first quarter, 2004)
X:\DIARY04\DTABD_IMPUTED041.txt (Diary DTABD_IMPUTE file for first quarter,
2004)
X:\DIARY04\FMLYD042.txt (etc.)
X:\DIARY04\MEMBD042.txt
X:\DIARY04\EXPND042.txt
X:\DIARY04\DTABD042.txt
X:\DIARY04\DTABD_IMPUTED042.txt
X:\DIARY04\FMLYD043.txt
X:\DIARY04\MEMBD043.txt
X:\DIARY04\EXPND043.txt
X:\DIARY04\DTABD043.txt
X:\DIARY04\DTABD_IMPUTED043.txt
X:\DIARY04\FMLYD044.txt
X:\DIARY04\MEMBD044.txt
X:\DIARY04\EXPND044.txt
X:\DIARY04\DTABD044.txt
X:\DIARY04\DTABD_IMPUTED043.txt
X:\DIARY04\UCCD04.txt
```

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

```
X:\DIARY04\FMLD041.sas7bdat   (Diary FMLY file for first quarter, 2004)
X:\DIARY04\MEMD041.sas7bdat   (Diary MEMB file for first quarter, 2004)
X:\DIARY04\EXPD041.sas7bdat   (Diary EXPN file for first quarter, 2004)
X:\DIARY04\DTBD041.sas7bdat   (Diary DTAB file for first quarter, 2004)
X:\DIARY04\DTBD_IMPUTED041.sas7bdat (Diary DTAB_IMPUTE file for first quarter,
2004)
X:\DIARY04\FMLD042.sas7bdat   (etc.)
X:\DIARY04\MEMD042.sas7bdat
X:\DIARY04\EXPD042.sas7bdat
X:\DIARY04\DTBD042.sas7bdat
X:\DIARY04\DTBD_IMPUTED042.sas7bdat
X:\DIARY04\FMLD043.sas7bdat
X:\DIARY04\MEMD043.sas7bdat
X:\DIARY04\EXPD043.sas7bdat
X:\DIARY04\DTBD043.sas7bdat
X:\DIARY04\DTBD_IMPUTED043.sas7bdat
X:\DIARY04\FMLD044.sas7bdat
X:\DIARY04\MEMD044.sas7bdat
X:\DIARY04\EXPD044.sas7bdat
X:\DIARY04\DTBD044.sas7bdat
X:\DIARY04\DTBD_IMPUTED044.sas7bdat
X:\DIARY04\UCCD04.txt
```

B. RECORD COUNTS AND LOGICAL RECORD LENGTHS PER QUARTER

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

ASCII data set	SAS data set	2004 LRECL	2004 Record Count
FMLYD041.txt	FMLD041.sas7bdat	3083	3534
MEMBD041.txt	MEMD041.sas7bdat	773	8881
EXPND041.txt	EXPD041.sas7bdat	40	143089
DTABD041.txt	DTBD041.sas7bdat	28	62015
DTABD_IMPUTED041.txt	DTBD_IMPUTED041.sas7bdat	29	94937
FMLYD042.txt	FMLD042.sas7bdat	3083	3835
MEMBD042.txt	MEMD042.sas7bdat	773	9651
EXPND042.txt	EXPD042.sas7bdat	40	157261
DTABD042.txt	DTBD042.sas7bdat	28	66974
DTABD_IMPUTED042.txt	DTBD_IMPUTED042.sas7bdat	29	100825
FMLYD043.txt	FMLD043.sas7bdat	3083	3780
MEMBD043.txt	MEMD043.sas7bdat	773	9373
EXPND043.txt	EXPD043.sas7bdat	40	150715
DTABD043.txt	DTBD043.sas7bdat	28	65371
DTABD_IMPUTED043.txt	DTBD_IMPUTED043.sas7bdat	29	98819
FMLYD044.txt	FMLD044.sas7bdat	3083	3768
MEMBD044.txt	MEMD044.sas7bdat	773	9364
EXPND044.txt	EXPD044.sas7bdat	40	149712
DTABD044.txt	DTBD044.sas7bdat	28	65053
DTABD_IMPUTED044.txt	DTBD_IMPUTED044.sas7bdat	29	98045

C. DATA FLAGS:

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

The flag values are defined as follows:

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

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

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

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

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

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

D. INCOME IMPUTATION

Starting in 2004, the CE has implemented multiple imputation of income data. Imputation allows income values to be estimated when they are not reported. Many income variables and other income related variables will be imputed using a multiple imputation process. These imputed income values will be included in the FMLY, MEMB, DTAB, and DTAB_IMPUTE files. The multiple imputation process derives five imputation values, and a mean imputation value, per selected income variable. More information on the imputation process and how to appropriately use the data are found in the document "User's guide to Income Imputation in the CE".

In the public-use microdata, not all of the imputed income variables will contain the derived imputation values. For some income variables, the five derived imputations are excluded and only the mean of those imputations is available. For these variables, there are 3 associated income variables in the FMLY and MEMB files (INCOMEM, INCOMEM_, and INCOMEI). For all other imputed income variables, there are 7 associated variables in the FMLY and MEMB files:

INCOME1 - the first imputed income value or the reported income value, if non-missing
INCOME2 - the second imputed income value or the reported income value, if non-missing
INCOME3 - the third imputed income value or the reported income value, if non-missing
INCOME4 - the fourth imputed income value or the reported income value, if non-missing
INCOME5 - the fifth imputed income value or the reported income value, if non-missing
INCOMEM - the mean of the five imputed income values
INCOMEM_ - the flag variable for the imputed variable (see section III.C. Data Flags)
INCOMEI - the imputation indicator

Income variables that have imputed values as components (ex: FINCBEFM) will also have 5 imputed values and a mean based on each of the imputed components.

The imputation indicator variable is coded as follows:

Value	Description
'100'	No multiple imputation - valid value, or valid blank
'201'	Multiple imputation due to invalid blank only
'301'	Multiple imputation due to bracketing only
'501'	Multiple imputation due to conversion of a valid blank to an invalid blank (occurs only when initial values for all sources of income for the CU were valid blanks)

The DTAB file will include income UCCs mapped from the INCOMEM variable in the FMLY files. The DTAB_IMPUTE file will include each of these UCCs, including the variable IMPNUM to indicate the imputation number 1 - 5.

E. 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.F. DETAILED VARIABLE DESCRIPTIONS) distinguishes whether a variable is numeric (NUM) or character (CHAR) and shows the number of field positions the variable occupies. Variables that include decimal points are formatted as NUM(t,r) where t is the total number of positions occupied, and r is the number of places to the right of the decimal.

In addition to format, these detailed listings give an item description, questionnaire source, identification of codes where applicable, and start position for each variable. The questionnaire source, which identifies where the data for that variable is collected on the characteristics questionnaire, is listed

beneath the variable description and is formatted "S04B 2b", which denotes Section 4, Part B, Question 2b of the characteristics questionnaire.

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

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

*D(Yxxq) identifies a variable that is deleted as of the quarterly file indicated. The year and quarter are identified by the 'xx' and 'q' respectively. For example, the notation *D(Y041) indicates the variable is deleted starting with the data file of the first quarter of 2004.

*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.

F. DETAILED VARIABLE DESCRIPTIONS

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

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

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

a. CU AND DIARY IDENTIFIERS

VARIABLE	ITEM DESCRIPTION	START POSITION	FORMAT
NEWID	CU identification number. Digits 1-7 (CU sequence number, 1 through 9999999) uniquely identify the CU. Digit 8 is the week number, 1 or 2 BLS derived	1	NUM(8)
CUID	CU sequence number which uniquely identifies CUs (Digits 1-7 of NEWID)	1569	NUM(7)
HH_CU_Q	Count of CUs in this household	1507	NUM(2)

	BLS derived		
HH_CU_Q_		1509	CHAR(1)
HHID	Identifier for household with more than one CU. Household with only one CU will be set to missing. BLS derived	1510	NUM(3)
HHID_		1513	CHAR(1)
WEEKI	Week of the Diary CODED 1 First week Diary 2 Second week Diary Census derived	656	CHAR(1)
WEEKI_		657	CHAR(1)
WEEKN	Number of Diary weeks surveyed, 1 or 2 BLS derived	658	NUM(1)
STRTDAY	Diary start date - date Cover 19	625	CHAR(2)
STRTMNTH	Diary start date - month Cover 19	627	CHAR(2)
STRTYEAR	Diary start date - year Cover 19	629	CHAR(4)
*PICK_UP	Final interview status CODED 01 Diary placed or completed 03 Temporarily absent during ENTIRE reference period Cover 20 **D(Y041)**	559	CHAR(2)
*PICKCODE	Description/code change for PICKCODE: Pick-up Code 201 Interview 218 Interview – Temporarily absent (counted as type B, in scope for BLS) **N(Y041)**	2869	CHAR(3)

b. *CU CHARACTERISTICS*

VARIABLE	ITEM DESCRIPTION	START POSITION	FORMAT
REGION	Region CODED 1 Northeast 2 Midwest 3 South 4 West BLS derived	580	CHAR(1)
REGION_		581	CHAR(1)
BLS_URBN	Urban/Rural CODED 1 Urban 2 Rural BLS derived	42	CHAR(1)
POPSIZE	Population size of the PSU 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	564	CHAR(1)
SMSASTAT	Does CU reside inside a Metropolitan Statistical Area (MSA)? CODED 1 Yes 2 No BLS derived	606	CHAR(1)
STATE	State identifier (see Section IV.A. and Section X.D. for important information)	1518	CHAR(2)

01	Alabama	*28	Mississippi
02	Alaska	**29	Missouri
RR04	Arizona	31	Nebraska
*05	Arkansas	R32	Nevada
**06	California	R33	New Hampshire
08	Colorado	34	New Jersey
09	Connecticut	*35	New Mexico
10	Delaware	RR**36	New York
R11	District of Columbia	**37	North Carolina
**12	Florida	RR39	Ohio
**13	Georgia	**40	Oklahoma
15	Hawaii	**41	Oregon
16	Idaho	42	Pennsylvania
**17	Illinois	45	South Carolina
RR**18	Indiana	*46	South Dakota
*19	Iowa	**47	Tennessee
**20	Kansas	48	Texas

21	Kentucky	49	Utah
22	Louisiana	50	Vermont
R*23	Maine	**51	Virginia
24	Maryland	**53	Washington
25	Massachusetts	R54	West Virginia
**26	Michigan	55	Wisconsin
**27	Minnesota		

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

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

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

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

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

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

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

States not listed are not in the CE sample.

Census derived

STATE_		1520	CHAR(1)
CUTENURE	Housing tenure CODED 1 Owned with mortgage 2 Owned without mortgage 3 Owned mortgage not reported 4 Rented 5 Occupied without payment of cash rent 6 Student housing	43	CHAR(1)
	BLS derived		
CUTE_URE		44	CHAR(1)
FAM_SIZE	Number of members in CU	78	NUM(2)
	BLS derived		
FAM__IZE		80	CHAR(1)
PERSLT18	Number of children less than 18 in CU	544	NUM(2)
	BLS derived		
PERS_T18		546	CHAR(1)

PERSOT64	Number of persons over 64 in CU BLS derived	547	NUM(2)
PERS_T64		549	CHAR(1)
CHILDAGE	Age of children of reference person CODED 0 No children 1 All children less than 6 2 Oldest child between 6 and 11 and at least one child less than 6 3 All children between 6 and 11 4 Oldest child between 12 and 17 and at least one child less than 12 5 All children between 12 and 17 6 Oldest child greater than 17 and at least one child less than 17 7 All children greater than 17 BLS derived	1514	CHAR(1)
CHIL_AGE		1515	CHAR(1)
FAM_TYPE	CU type is based on relationship of members to reference person. "Own" children include blood-related sons and daughters, step children and adopted children. CODED 1 Husband and wife (H/W) only 2 H/W, own children only, oldest child under 6 years old 3 H/W, own children only, oldest child 6 to 17 years old 4 H/W, own children only, oldest child over 17 years old 5 All other H/W CUs 6 One parent, male, own children only, at least one child age under 18 years old 7 One parent, female, own children only, at least one child age under 18 years old 8 Single persons 9 Other CUs BLS derived	81	CHAR(1)
FAM__YPE		82	CHAR(1)
NO_EARNR	Number of earners BLS derived	471	NUM(2)
NO_E_RNR		473	CHAR(1)
EARNCOMP	Composition of earners CODED 1 Reference person only 2 Reference person and spouse 3 Reference person, spouse, and others 4 Reference person and others 5 Spouse only 6 Spouse and others 7 Others only	57	CHAR(1)

	8 No earners		
	BLS derived		
EARN_OMP		58	CHAR(1)
VEHQ	How many automobiles, trucks, or other vehicles do you own?	653	NUM(2)
	S02 4B		
VEHQ_		655	CHAR(1)
*INCLASS	Income class of CU based on income before taxes (Codes 01 through 09 are for CUs considered complete reporters of income) CODED 01 Less than $5,000 02 $5,000 to $9,999 03 $10,000 to $14,999 04 $15,000 to $19,999 05 $20,000 to $29,999 06 $30,000 to $39,999 07 $40,000 to $49,999 08 $50,000 to $69,999 09 $70,000 and over *10 Incomplete income reported **D(Y041)**	1516	CHAR(2)
	BLS derived		
RESPSTAT	Completeness of income response CODED 1 Complete income respondent 2 Incomplete income respondent	582	CHAR(1)
	BLS derived		
RESP_TAT		583	CHAR(1)
*INC_RNKU	Weighted cumulative percent income ranking of CU to total population of non-rural CUs. Ranking based on income before taxes for complete reporters. Rank of incomplete income reporters is set to zero.	395	NUM(9,7)
	BLS derived **D(Y041)**		
*INC__NKU	**D(Y041)**	404	CHAR(1)
*INC_RANK	Weighted cumulative percent income ranking of CU to total population (rural and non-rural CUs). Ranking based on income before taxes for complete reporters. Rank of incomplete income reporters is set to zero.	1559	NUM(9,7)
	BLS derived **D(Y041)**		
*INC__ANK	**D(Y041)**	1568	CHAR(1)
*POVERTY	Is CU income below current year's poverty threshold? (Income is defined as FINCBEFX - JFS_AMT)	1548	CHAR(1)

	CODED 1 Yes 2 No BLS derived **D(Y041)**		
POVERTY_		1549	CHAR(1)
POVLEV	Poverty level threshold for this CU BLS derived	1550	NUM (8)
POVLEV_		1558	CHAR (1)
*INC_RNKM	Weighted cumulative percent ranking based on total current income, based on FINCBEFM. **N(Y041)**	2363	NUM(9.7)
*INC__NKM	**N(Y041)**	2372	CHAR(1)
*INC_RNK1	**N(Y041)**	2373	NUM(9.7)
*INC_RNK2	**N(Y041)**	2382	NUM(9.7)
*INC_RNK3	**N(Y041)**	2391	NUM(9.7)
*INC_RNK4	**N(Y041)**	2400	NUM(9.7)
*INC_RNK5	**N(Y041)**	2409	NUM(9.7)
*POVERTYM	Is CU income below current year's poverty threshold? (Income is defined as FINCBEFM - FS_AMTM) CODED 1 Yes 2 No **N(Y041)**	2736	CHAR(1)
*POVE_TYM	**N(Y041)**	2737	CHAR(1)
*POVERTY1	**N(Y041)**	2738	CHAR(1)
*POVERTY2	**N(Y041)**	2739	CHAR(1)
*POVERTY3	**N(Y041)**	2740	CHAR(1)
*POVERTY4	**N(Y041)**	2741	CHAR(1)
*POVERTY5	**N(Y041)**	2742	CHAR(1)

c. *CHARACTERISTICS OF REFERENCE PERSON AND SPOUSE*

VARIABLE	ITEM DESCRIPTION	START POSITION	FORMAT
AGE_REF	Age of reference person BLS derived	36	NUM(2)
AGE_REF_		38	CHAR(1)
*REF_RACE	Race of reference person CODED 1 White 2 African American, or Black 3 American Indian, or Alaskan Native 4 Asian 5 Native Hawaiian or Other Pacific Islander 6 Multi-race BLS derived	578	CHAR(1)
REF__ACE		579	CHAR(1)
SEX_REF	Sex of reference person CODED 1 Male 2 Female BLS derived	602	CHAR(1)
SEX_REF_		603	CHAR(1)
HORREF1	Hispanic Origin of the Reference Person Coded: 1 Mexican 2 Mexican-American 3 Chicano 4 Puerto Rican 5 Cuban 6 Cuban-American 7 Central or South American 8 Other Hispanic Blank for non-Hispanic	1576	CHAR(1)
HORREF1_		1577	CHAR(1)
HORREF2	Hispanic Origin of the spouse Coded same as HORREF1		
HORREF2_			
MARITAL1	Marital status of reference person CODED 1 Married 2 Widowed 3 Divorced 4 Separated	469	CHAR(1)

	5 Never married		
	BLS derived		
MARI_AL1		470	CHAR(1)
EDUC_REF	Education of reference person CODED 00 Never attended school 10 First through eighth grade 11 Ninth through twelve grade (no H.S. diploma) 12 High school graduate 13 Some college, less than college graduate 14 Associate's degree (occupational/vocational or academic) 15 Bachelor's degree 16 Master's degree 17 Professional/Doctorate degree	68	CHAR(2)
	BLS derived		
EDUC0REF		70	CHAR(1)
AGE2	Age of spouse	39	NUM(2)
	BLS derived		
AGE2_		41	CHAR(1)
RACE2	Race of spouse CODED - same as REF_RACE	574	CHAR(1)
	BLS derived		
RACE2_		575	CHAR(1)
SEX2	Sex of spouse CODED - same as SEX_REF	604	CHAR(1)
	BLS derived		
SEX2_		605	CHAR(1)
EDUCA2	Education of spouse CODED - same as EDUC_REF	71	*CHAR(2)*
	BLS derived		
EDUCA2_		73	CHAR(1)

d. *WORK EXPERIENCE OF REFERENCE PERSON AND SPOUSE*

VARIABLE	ITEM DESCRIPTION	START POSITION	FORMAT
WK_WRKD1	Number of weeks worked by reference person in the last 12 months, including full or part time, paid vacation and paid sick leave.	672	NUM(2)
	BLS derived		

WK_W_KD1		674	CHAR(1)
HRSPRWK1	Number of hours usually worked per week by reference person BLS derived	387	NUM(3)
HRSP_WK1		390	CHAR(1)
OCCULIS1	The job in which reference person received the most earnings during the past 12 months best fits the following category CODED Manager, professional 01 Administrator, manager 02 Teacher 03 Professional Administrative support, technical, sales 04 Administrative support, including clerical 05 Sales, retail 06 Sales, business goods and services 07 Technician Service 08 Protective service 09 Private household service 10 Other service Operator, assembler, laborer 11 Machine operator, assembler, inspector 12 Transportation operator 13 Handler, helper, laborer Precision production, craft, repair 14 Mechanic, repairer, precision production 15 Construction, mining Farming, forestry, fishing 16 Farming 17 Forestry, fishing, groundskeeping Armed forces 18 Armed forces BLS derived	561	CHAR(2)
OCCU_IS1		563	CHAR(1)
EMPLTYP1	Employer from which reference person received the most earnings in past 12 months CODED 1 Private company, business, or individual 2 Federal government 3 State government 4 Local government 5 Self-employed in own business, professional practice, or farm 6 Family business or farm, working without pay BLS derived	74	CHAR(1)
EMPL_YP1		75	CHAR(1)
WHYNWRK1	Reason reference person did not work during the past 12 months CODED 1 Retired	668	CHAR(1)

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

BLS derived

WHYN_RK1		669	CHAR(1)
WK_WRKD2	Number of weeks worked by spouse in the last 12 months, including full or part time, paid vacation and paid sick leave. BLS derived	675	NUM(2)
WK_W_KD2		677	CHAR(1)
HRSPRWK2	Number of hours usually worked per week by spouse BLS derived	391	NUM(3)
HRSP_WK2		394	CHAR(1)
OCCULIS2	Job in which spouse received the most earnings during the past 12 months CODED - same as OCCULIS1 S04A 4a	492	CHAR(2)
OCCU_IS2		494	CHAR(1)
EMPLTYP2	Employer from which spouse received the most earnings during the past 12 months CODED - Same as EMPLTYP1 BLS derived	76	CHAR(1)
EMPL_YP2		77	CHAR(1)
WHYNWRK2	Reason spouse did not work during the past 12 months CODED - same as WHYNWRK1 BLS derived	670	CHAR(1)
WHYN_RK2		671	CHAR(1)
OCCEXPNX	During the past 12 months, what was the total amount of occupational expenses such as union dues, tools, uniforms, business or professional association dues, licenses or permits? S04B 5	483	NUM(8)
OCCE_PNX		491	CHAR(1)

e. *INCOME*

VARIABLE	ITEM DESCRIPTION	START POSITION	FORMAT
*FINCBEFX	Amount of CU income before taxes in past 12 months (UNEMPX + WRKRSX + WELFRX + INTX +DIVX + PENSIONX + ROOMX + OTHRNTX + CHDOTHX + ALIOTHX + OTHINX + JFS_AMT + FWAGEX + FBSNSX + FFARMX + FSS_RRX + FSUPPX) *L BLS derived **D(Y041)**	139	NUM(8)
*FINC_EFX	**D(Y041)**	147	CHAR(1)
*FINCAFTX	Amount of CU income after taxes in past 12 months (FINCBEFX - PERSTAX) *L BLS derived **D(Y041)**	130	NUM(8)
*FINC_FTX	**D(Y041)**	138	CHAR(1)
*EARNX	Amount of earned income before taxes by CU in past 12 months (FWAGEX + FBSNSX + FFARMX) *L BLS derived **D(Y041)**	59	NUM(8)
*EARNX_	**D(Y041)**	67	CHAR(1)
*NONERNX	Amount of CU income other than earnings before taxes in past 12 months (FSS_RRX + FSUPPX + UNEMPX + WRKRSX + WELFRX + INTX + DIVX + PENSIONX + ROOMX + OTHRNTX + CHDOTHX + ALIOTHX + OTHINX + JFS_AMT) *L BLS derived **D(Y041)**	474	NUM(8)
*NONERNX_	**D(Y041)**	482	CHAR(1)
*FWAGEX	Amount of wage and salary income before deductions received by all CU members in past 12 months (Sum WAGEX from MEMB file for all CU members) BLS derived **D(Y041)**	378	NUM(8)
*FWAGEX_	**D(Y041)**	386	CHAR(1)
*FBSNSX	Amount of income or loss from nonfarm business, partnership or professional practice received by all CU members in past 12 months (Sum BSNSX from MEMB file for all CU members) *L	83	NUM(8)

	BLS derived **D(Y041)**		
*FBSNSX_	**D(Y041)**	91	CHAR(1)
*FFARMX	Amount of income or loss from own farm received by all CU members in past 12 months (Sum FARMX from MEMB file for all CU members) *L	103	NUM(8)
	BLS derived **D(Y041)**		
*FFARMX_	**D(Y041)**	111	CHAR(1)
*FSS_RRX	Amount of Social Security and Railroad Retirement income prior to deductions for medical insurance and Medicare received by all CU members in past 12 months (Sum SOCRRX from MEMB file for all CU members)	351	NUM(8)
	BLS derived **D(Y041)**		
*FSS_RRX_	**D(Y041)**	359	CHAR(1)
*FSUPPX	Amount of Supplemental Security Income from all sources received by all CU members in past 12 months (Sum SUPPX from MEMB file for all CU members)	369	NUM(8)
	BLS derived **D(Y041)**		
*FSUPPX_	**D(Y041)**	377	CHAR(1)
*UNEMPX	During the past 12 months, what was the total amount of income from unemployment compensation received by ALL CU members?	644	NUM(8)
	S04B 1a **D(Y041)**		
*UNEMPX_	**D(Y041)**	652	CHAR(1)
*WRKRSX	During the past 12 months, what was the total amount of income from workers' compensation or veterans' benefits, including education benefits, but excluding military retirement, received by ALL CU members?	678	NUM(8)
	S04B 1b **D(Y041)**		
*WRKRSX_	**D(Y041)**	686	CHAR(1)
*WELFRX	During the past 12 months, what was the total amount of income from public assistance or welfare including money received from job training grants such as Job Corps received by ALL CU members?	659	NUM(8)

	S04B 1c **D(Y041)**		
*WELFRX_	**D(Y041)**	667	CHAR(1)
*INTX	During the past 12 months, what was the total amount of income from interest on savings accounts or bonds received by ALL CU members?	414	NUM(8)
	S04B 1d **D(Y041)**		
*INTX_	**D(Y041)**	422	CHAR(1)
*DIVX	During the past 12 months, what was the total amount of income from dividends, royalties, estates, or trusts received by ALL CU members?	48	NUM(8)
	S04B 1e **D(Y041)**		
*DIVX_	**D(Y041)**	56	CHAR(1)
*PENSIONX	During the past 12 months, what was the total amount of income from pensions or annuities from private companies, military, Government, IRA, or Keogh received by ALL CU members?	535	NUM(8)
	S04B 1f **D(Y041)**		
*PENS_ONX	**D(Y041)**	543	CHAR(1)
*ROOMX	During the past 12 months, how much net income or loss was received from roomers or boarders? *L	584	NUM(8)
	S04B 1g(1) **D(Y041)**		
*ROOMX_	**D(Y041)**	592	CHAR(1)
*OTHRNTX	During the past 12 months, how much net income or loss was received from payments from other rental units? *L	526	NUM(8)
	S04B 1g(2) **D(Y041)**		
*OTHRNTX_	**D(Y041)**	534	CHAR(1)
*OTHINX	During the past 12 months, what was the total amount of other money income including money received from cash scholarships and fellowships, stipends not based on working, or from the care of foster children received by ALL CU members?	499	NUM(8)
	S04B 2c **D(Y041)**		
*OTHINX_	**D(Y041)**	507	CHAR(1)

*CHDOTHX	During the past 12 months, what was the total amount of income from child support payments in other than a lump sum amount received by ALL CU members? S04B 1h(2) **D(Y041)**	1521	NUM(8)
*CHDOTHX_	**D(Y041)**	1529	CHAR(1)
*ALIOTHX	During the past 12 months, what was the total amount of income from regular contributions from alimony and other sources such as from persons outside the CU received by ALL CU members? S04B 1i(2) **D(Y041)**	1530	NUM(8)
*ALIOTHX_	**D(Y041)**	1538	CHAR(1)
*JFS_AMT	Annual value of Food Stamps received by CU JFS_AMT = 12 X sum of (FS_AMT1 ... FS_AMT7) NOTE: JFS_AMT is a component of FINCBEFX, NONERNX, and FINCAFTX BLS derived **D(Y041)**	423	NUM(8)
*JFS_AMT_	**D(Y041)**	431	CHAR(1)
*ALIOTHXM	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? **N(Y041)**	1580	NUM(10.1)
*ALIO_HXM	**N(Y041)**	1590	CHAR(1)
*ALIOTHX1	**N(Y041)**	1591	NUM(8)
*ALIOTHX2	**N(Y041)**	1599	NUM(8)
*ALIOTHX3	**N(Y041)**	1607	NUM(8)
*ALIOTHX4	**N(Y041)**	1615	NUM(8)
*ALIOTHX5	**N(Y041)**	1623	NUM(8)
*ALIOTHXI	Indicator/descriptor variable for income imputation. (A detailed definition appears in section III.D.) **N(Y041)**	1631	NUM(3)
*ALIOTHB	Could you tell me which range best reflects the total amount received in alimony and other sources during the last 12 months? 01 $0-$999 02 $1,000-$1,999 03 $2,000-$2,999 04 $3,000-$3,999 05 $4,000-$4,999	2944	CHAR(2)

	06 $5,000-$9,999 07 $10,000-$14,999 08 $15,000-$19,999 09 $20,000-$29,999 10 $30,000-$39,999 11 $40,000-$49,999 12 $50,000 and over **N(Y041)**		
*ALIOTHB_	**N(Y041)**	2946	CHAR(1)
*ALIOTHBX	Median of bracket range **N(Y041)**	2947	NUM(6)
*ALIO_HBX	**N(Y041)**	2953	CHAR(1)
*CHDOTHXM	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? **N(Y041)**	1634	NUM(10.1)
*CHDO_HXM	**N(Y041)**	1644	CHAR(1)
*CHDOTHX1	**N(Y041)**	1645	NUM(8)
*CHDOTHX2	**N(Y041)**	1653	NUM(8)
*CHDOTHX3	**N(Y041)**	1661	NUM(8)
*CHDOTHX4	**N(Y041)**	1669	NUM(8)
*CHDOTHX5	**N(Y041)**	1677	NUM(8)
*CHDOTHXI	**N(Y041)**	1685	NUM(3)
*CHDOTHB	Could you tell me which best reflects the total amount received in child support payments, other than lump sum amounts, by all CU members during the last 12 months? 01 $0-$999 02 $1,000-$1,999 03 $2,000-$2,999 04 $3,000-$3,999 05 $4,000-$4,999 06 $5,000-$9,999 07 $10,000-$14,999 08 $15,000-$19,999 09 $20,000-$29,999 10 $30,000-$39,999 11 $40,000-$49,999 12 $50,000 and over **N(Y041)**	2964	CHAR(2)
*CHDOTHB_	**N(Y041)**	2966	CHAR(1)
*CHDOTHBX	Median of bracket range **N(Y041)**	2967	NUM(6)

*CHDO_HBX	**N(Y041)**	2973	CHAR(1)
*DIVXM	During the past 12 months, what was the total amount of income from dividends, royalties, estates, or trusts received by ALL CU members? **N(Y041)**	1688	NUM(10.1)
*DIVXM_	**N(Y041)**	1698	CHAR(1)
*DIVX1	**N(Y041)**	1699	NUM(8)
*DIVX2	**N(Y041)**	1707	NUM(8)
*DIVX3	**N(Y041)**	1715	NUM(8)
*DIVX4	**N(Y041)**	1723	NUM(8)
*DIVX5	**N(Y041)**	1731	NUM(8)
*DIVXI	**N(Y041)**	1738	NUM(3)
*DIVB	Could you tell me which range best reflects the total amount of income from dividends, trusts, estates or royalties during the last 12 months? 01 $0-$999 02 $1,000-$1,999 03 $2,000-$2,999 04 $3,000-$3,999 05 $4,000-$4,999 06 $5,000-$9,999 07 $10,000-$14,999 08 $15,000-$19,999 09 $20,000-$29,999 10 $30,000-$39,999 11 $40,000-$49,999 12 $50,000 and over **N(Y041)**	2974	CHAR(2)
*DIVB_	**N(Y041)**	2976	CHAR(1)
*DIVBX	Median of bracket range **N(Y041)**	2977	NUM(6)
*DIVBX_	**N(Y041)**	2983	CHAR(1)
*FBSNSXM	Amount of income or loss from nonfarm business, partnership or professional practice received by all CU members in past 12 months (Sum BSNSXM from MEMB file for all CU members) **N(Y041)**	1742	NUM(11.1)
*FBS_SXM	**N(Y041)**	1753	CHAR(1)
*FBSNSX1	**N(Y041)**	1754	NUM(9)
*FBSNSX2	**N(Y041)**	1763	NUM(9)
*FBSNSX3	**N(Y041)**	1772	NUM(9)

*FBSNSX4	**N(Y041)**	1781	NUM(9)
*FBSNSX5	**N(Y041)**	1790	NUM(9)
*FBSNSXI	**N(Y041)**	1799	NUM(3)
*FFARMXM	Amount of income or loss from own farm received by all CU members in past 12 months (Sum FARMXM from MEMB file for all CU members) **N(Y041)**	1802	NUM(11.1)
*FFARMXM_	**N(Y041)**	1813	CHAR(1)
*FFARMX1	**N(Y041)**	1814	NUM(9)
*FFARMX2	**N(Y041)**	1823	NUM(9)
*FFARMX3	**N(Y041)**	1832	NUM(9)
*FFARMX4	**N(Y041)**	1841	NUM(9)
*FFARMX5	**N(Y041)**	1850	NUM(9)
*FFARMXI	**N(Y041)**	1859	NUM(3)
*FINCAFTM	Amount of CU income after taxes in past 12 months (FINCBEFM - PERSTAX) *L BLS derived **N(Y041)**	1922	NUM(11.1)
*FINCA_TM	**N(Y041)**	1933	CHAR(1)
*FINCAFT1	**N(Y041)**	1934	NUM(9)
*FINCAFT2	**N(Y041)**	1943	NUM(9)
*FINCAFT3	**N(Y041)**	1952	NUM(9)
*FINCAFT4	**N(Y041)**	1961	NUM(9)
*FINCAFT5	**N(Y041)**	1970	NUM(9)
*FINCBEFM	Amount of CU income before taxes in past 12 months (UNEMPXM + WRKRSXM + WELFRXM + INTXM +DIVXM + PENSIONM + ROOMXM + OTHRNTXM + CHDOTHXM + ALIOTHXM + OTHINXM + JFS_AMTM + FWAGEXM + FBSNSXM + FFARMXM + FSS_RRXM + FSUPPXM) **N(Y041)**	1979	NUM(11.1)
*FINCB_FM	**N(Y041)**	1990	CHAR(1)
*FINCBEF1	**N(Y041)**	1991	NUM(9)
*FINCBEF2	**N(Y041)**	2000	NUM(9)

*FINCBEF3	**N(Y041)**	2009	NUM(9)
*FINCBEF4	**N(Y041)**	2018	NUM(9)
*FINCBEF5	**N(Y041)**	2027	NUM(9)
*FINCBEFI	**N(Y041)**	2036	NUM(3)
*FSUPPXM	Amount of Supplemental Security Income from all sources received by all CU members in past 12 months (Sum SUPPXM from MEMB file for all CU members)	2255	NUM(10.1)
*FSUPPXM_	**N(Y041)**	2265	CHAR(1)
*FSUPPX1	**N(Y041)**	2266	NUM(8)
*FSUPPX2	**N(Y041)**	2274	NUM(8)
*FSUPPX3	**N(Y041)**	2282	NUM(8)
*FSUPPX4	**N(Y041)**	2290	NUM(8)
*FSUPPX5	**N(Y041)**	2298	NUM(8)
*FSUPPXI	**N(Y041)**	2306	NUM(3)
*FWAGEXM	Amount of wage and salary income before deductions received by all CU members in past 12 months (Sum WAGEXM from MEMB file for all CU members) **N(Y041)**	2309	NUM(10.1)
*FWAGEXM_	**N(Y041)**	2319	CHAR(1)
*FWAGEX1	**N(Y041)**	2320	NUM(8)
*FWAGEX2	**N(Y041)**	2328	NUM(8)
*FWAGEX3	**N(Y041)**	2336	NUM(8)
*FWAGEX4	**N(Y041)**	2344	NUM(8)
*FWAGEX5	**N(Y041)**	2352	NUM(8)
*FWAGEXI	**N(Y041)**	2360	NUM(3)
*INTXM	During the past 12 months, what was the total amount of income from interest on savings accounts or bonds received by ALL CU members? **N(Y041)**	2418	NUM(10.1)
*INTXM_	**N(Y041)**	2428	CHAR(1)
*INTX1	**N(Y041)**	2429	NUM(8)
*INTX2	**N(Y041)**	2437	NUM(8)
*INTX3	**N(Y041)**	2445	NUM(8)

*INTX4	**N(Y041)**	2453	NUM(8)
*INTX5	**N(Y041)**	2461	NUM(8)
*INTXI	**N(Y041)**	2469	NUM(3)
*INTB	Could you tell me which range best reflects the total amount of interest received by all CU members during the last 12 months? 01 $0-$999 02 $1,000-$1,999 03 $2,000-$2,999 04 $3,000-$3,999 05 $4,000-$4,999 06 $5,000-$9,999 07 $10,000-$14,999 08 $15,000-$19,999 09 $20,000-$29,999 10 $30,000-$39,999 11 $40,000-$49,999 12 $50,000 and over **N(Y041)**	2984	CHAR(2)
*INTB_	**N(Y041)**	2986	CHAR(1)
*INTBX	Median of bracket range **N(Y041)**	2987	NUM(6)
*INTBX_	**N(Y041)**	2993	CHAR(1)
*JFS_AMTM	Annual value of Food Stamps received by CU JFS_AMTM = 12 X FS_AMTM NOTE: JFS_AMTM is a component of FINCBEFM and FINCAFTM **N(Y041)**	2472	NUM(8.1)
*JFS__MTM	**N(Y041)**	2480	CHAR(1)
*JFS_AMT1	**N(Y041)**	2481	NUM(6)
*JFS_AMT2	**N(Y041)**	2487	NUM(6)
*JFS_AMT3	**N(Y041)**	2493	NUM(6)
*JFS_AMT4	**N(Y041)**	2499	NUM(6)
*JFS_AMT5	**N(Y041)**	2505	NUM(6)
*OTHINXM	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? **N(Y041)**	2511	NUM(10.1)
*OTHINXM_	**N(Y041)**	2521	CHAR(1)
*OTHINX1	**N(Y041)**	2522	NUM(8)

*OTHINX2	**N(Y041)**	2530	NUM(8)
*OTHINX3	**N(Y041)**	2538	NUM(8)
*OTHINX4	**N(Y041)**	2546	NUM(8)
*OTHINX5	**N(Y041)**	2554	NUM(8)
*OTHINXI	**N(Y041)**	2562	NUM(3)
*OTHINB	Could you tell me which range best reflects the total amount of other money income received during the last 12 months? 01 $0-$999 02 $1,000-$1,999 03 $2,000-$2,999 04 $3,000-$3,999 05 $4,000-$4,999 06 $5,000-$9,999 07 $10,000-$14,999 08 $15,000-$19,999 09 $20,000-$29,999 10 $30,000-$39,999 11 $40,000-$49,999 12 $50,000 and over **N(Y041)**	3004	CHAR(2)
*OTHINB_	**N(Y041)**	3006	CHAR(1)
*OTHINBX	Median of bracket range **N(Y041)**	3007	NUM(6)
*OTHINBX_	**N(Y041)**	3013	CHAR(1)
*OTHRNTXM	During the past 12 months, how much net income or loss was received from payments from other rental units? *L **N(Y041)**	2565	NUM(11.1)
*OTHR_TXM	**N(Y041)**	2576	CHAR(1)
*OTHRNTX1	**N(Y041)**	2577	NUM(9)
*OTHRNTX2	**N(Y041)**	2586	NUM(9)
*OTHRNTX3	**N(Y041)**	2595	NUM(9)
*OTHRNTX4	**N(Y041)**	2604	NUM(9)
*OTHRNTX5	**N(Y041)**	2613	NUM(9)
*OTHRNTXI	**N(Y041)**	2622	NUM(3)
*ROOMLOSB	Could you tell me which range best reflects your net income or loss from roomers or boarders? 01 $0-$999 02 $1,000-$1,999 03 $2,000-$2,999	3034	CHAR(2)

	04 $3,000-$3,999 05 $4,000-$4,999 06 $5,000-$9,999 07 $10,000-$14,999 08 $15,000-$19,999 09 $20,000-$29,999 10 $30,000-$39,999 11 $40,000-$49,999 12 $50,000 and over **N(Y041)**		
*ROOM_OSB	**N(Y041)**	3036	CHAR(1)
*ROOMLSBX	Median of bracket range **N(Y041)**	3037	NUM(6)
*ROOM_SBX	**N(Y041)**	3043	CHAR(1)
*OTHLOSSB	Could you tell me which range best reflects your net income or loss from other rental units during the last 12 months? 00 Loss 01 $0-$999 02 $1,000-$1,999 03 $2,000-$2,999 04 $3,000-$3,999 05 $4,000-$4,999 06 $5,000-$9,999 07 $10,000-$14,999 08 $15,000-$19,999 09 $20,000-$29,999 10 $30,000-$39,999 11 $40,000-$49,999 12 $50,000 and over **N(Y041)**	3014	CHAR(2)
*OTHL_SSB	**N(Y041)**	3016	CHAR(1)
*OTHLOSBX	Median of bracket range **N(Y041)**	3017	NUM(6)
*OTHL_SBX	**N(Y041)**	3023	CHAR(1)
*PENSIONM	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? **N(Y041)**	2625	NUM(10.1)
*PENS_ONM	**N(Y041)**	2635	CHAR(1)
*PENSION1	**N(Y041)**	2636	NUM(8)
*PENSION2	**N(Y041)**	2644	NUM(8)
*PENSION3	**N(Y041)**	2652	NUM(8)
*PENSION4	**N(Y041)**	2660	NUM(8)

*PENSION5	**N(Y041)**	2668	NUM(8)
*PENSIONI	**N(Y041)**	2676	NUM(3)
*PNSIONB	Could you tell me which range best reflects the total amount of retirement pensions and annuities during the last 12 months? 01 $0-$999 02 $1,000-$1,999 03 $2,000-$2,999 04 $3,000-$3,999 05 $4,000-$4,999 06 $5,000-$9,999 07 $10,000-$14,999 08 $15,000-$19,999 09 $20,000-$29,999 10 $30,000-$39,999 11 $40,000-$49,999 12 $50,000 and over **N(Y041)**	3024	CHAR(2)
*PNSIONB_	**N(Y041)**	3026	CHAR(1)
*PNSIONBX	Median of bracket range **N(Y041)**	3027	NUM(6)
*PNSI_NBX	**N(Y041)**	3033	CHAR(1)
*ROOMXM	During the past 12 months, how much net income or loss was received from roomers or boarders? *L **N(Y041)**	2743	NUM(9.1)
*ROOMXM_	**N(Y041)**	2752	CHAR(1)
*ROOMX1	**N(Y041)**	2753	NUM(7)
*ROOMX2	**N(Y041)**	2760	NUM(7)
*ROOMX3	**N(Y041)**	2767	NUM(7)
*ROOMX4	**N(Y041)**	2774	NUM(7)
*ROOMX5	**N(Y041)**	2781	NUM(7)
*ROOMXI	**N(Y041)**	2788	NUM(3)
*UNEMPXM	During the past 12 months, what was the total amount of income from unemployment compensation received by ALL CU members?	2791	NUM(8.1)
*UNEMPXM_	**N(Y041)**	2799	CHAR(1)
*UNEMPX1	**N(Y041)**	2800	NUM(6)
*UNEMPX2	**N(Y041)**	2806	NUM(6)

*UNEMPX3	**N(Y041)**	2812	NUM(6)
*UNEMPX4	**N(Y041)**	2818	NUM(6)
*UNEMPX5	**N(Y041)**	2824	NUM(6)
*UNEMPXI	**N(Y041)**	2830	NUM(3)
*UNEMPB	Could you tell me which range best reflects the total amount received in unemployment compensation during the last 12 months? 01 $0-$999 02 $1,000-$1,999 03 $2,000-$2,999 04 $3,000-$3,999 05 $4,000-$4,999 06 $5,000-$9,999 07 $10,000-$14,999 08 $15,000-$19,999 09 $20,000-$29,999 10 $30,000-$39,999 11 $40,000-$49,999 12 $50,000 and over **N(Y041)**	3054	CHAR(2)
*UNEMPB_	**N(Y041)**	3056	CHAR(1)
*UNEMPBX	Median of bracket range **N(Y041)**	3057	NUM(6)
*UNEMPBX_	**N(Y041)**	3063	CHAR(1)
*WELFRXM	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? **N(Y041)**	2833	NUM(10.1)
*WELFRXM_	**N(Y041)**	2843	CHAR(1)
*WELFRX1	**N(Y041)**	2844	NUM(8)
*WELFRX2	**N(Y041)**	2852	NUM(8)
*WELFRX3	**N(Y041)**	2860	NUM(8)
*WELFRX4	**N(Y041)**	2868	NUM(8)
*WELFRX5	**N(Y041)**	2876	NUM(8)
*WELFRXI	**N(Y041)**	2884	NUM(3)
*WELFRB	Could you tell me which range best reflects the total amount of income from cash assistance from state or local government welfare programs during the last 12 months?	3064	CHAR(2)

	01 $0-$999 02 $1,000-$1,999 03 $2,000-$2,999 04 $3,000-$3,999 05 $4,000-$4,999 06 $5,000-$9,999 07 $10,000-$14,999 08 $15,000-$19,999 09 $20,000-$29,999 10 $30,000-$39,999 11 $40,000-$49,999 12 $50,000 and over **N(Y041)**		
*WELFRB_	**N(Y041)**	3066	CHAR(1)
*WELFRBX	Median of bracket range **N(Y041)**	3067	NUM(6)
*WELFRBX_	**N(Y041)**	3073	CHAR(1)
*WRKRSXM	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? **N(Y041)**	2887	NUM(10.1)
*WRKRSXM_	**N(Y041)**	2897	CHAR(1)
*WRKRSX1	**N(Y041)**	2898	NUM(8)
*WRKRSX2	**N(Y041)**	2906	NUM(8)
*WRKRSX3	**N(Y041)**	2914	NUM(8)
*WRKRSX4	**N(Y041)**	2922	NUM(8)
*WRKRSX5	**N(Y041)**	2930	NUM(8)
*WRKRSXI	**N(Y041)**	2938	NUM(3)

*WRKRSB	Could you tell me which range best reflects the total amount of income from worker's compensation during the last 12 months? 01 $0-$999 02 $1,000-$1,999 03 $2,000-$2,999 04 $3,000-$3,999 05 $4,000-$4,999 06 $5,000-$9,999 07 $10,000-$14,999 08 $15,000-$19,999 09 $20,000-$29,999 10 $30,000-$39,999 11 $40,000-$49,999 12 $50,000 and over **N(Y041)**	3074	CHAR(2)
*WRKRSB_	**N(Y041)**	3076	CHAR(1)
*WRKRSBX	Median of bracket range **N(Y041)**	3077	NUM(6)
*WRKRSBX_	**N(Y041)**	3083	CHAR(1)

f. *OTHER MONEY RECEIPTS*

VARIABLE	ITEM DESCRIPTION	START POSITION	FORMAT
OTHRECX	Amount of other money receipts excluded from CU income before taxes received by CU in past 12 months (LUMPX + SALEX + SSREFX + INSREFX + PTAXREF+CHDLMPX) BLS derived	508	NUM(8)
OTHRECX_		516	CHAR(1)
LUMPX	During the past 12 months, what was the total amount received from lump sum payments from estates, trusts, royalties, alimony, prizes, games of chance, or from persons outside of the CU by ALL CU members? S04B 2a	460	NUM(8)
LUMPX_		468	CHAR(1)
*LUMPB	Could you tell me which range best reflects the total lump sum payments during the last 12 months? 01 $0-$999 02 $1,000-$1,999 03 $2,000-$2,999 04 $3,000-$3,999 05 $4,000-$4,999	2994	CHAR(2)

	06 $5,000-$9,999 07 $10,000-$14,999 08 $15,000-$19,999 09 $20,000-$29,999 10 $30,000-$39,999 11 $40,000-$49,999 12 $50,000 and over **N(Y041)**		
*LUMPB_	**N(Y041)**	2996	CHAR(1)
*LUMPBX	Median of bracket range **N(Y041)**	2997	NUM(6)
*LUMPBX_	**N(Y041)**	3003	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)	1539	NUM(8)
CHDLMPX_		1547	CHAR(1)
*CHDLMPB	Could you tell me which range best reflects the total amount received in lump sum payments for child support during the last 12 months? 01 $0-$999 02 $1,000-$1,999 03 $2,000-$2,999 04 $3,000-$3,999 05 $4,000-$4,999 06 $5,000-$9,999 07 $10,000-$14,999 08 $15,000-$19,999 09 $20,000-$29,999 10 $30,000-$39,999 11 $40,000-$49,999 12 $50,000 and over **N(Y041)**	2954	CHAR(2)
*CHDLMPB_	**N(Y041)**	2956	CHAR(1)
*CHDLMPBX	Median of bracket range **N(Y041)**	2957	NUM(6)
*CHDL_PBX	**N(Y041)**	2963	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	593	NUM(8)
SALEX_		601	CHAR(1)

*SALEB	Could you tell me which range best reflects the total amount received from these sales during the last 12 months? 01 $0-$999 02 $1,000-$1,999 03 $2,000-$2,999 04 $3,000-$3,999 05 $4,000-$4,999 06 $5,000-$9,999 07 $10,000-$14,999 08 $15,000-$19,999 09 $20,000-$29,999 10 $30,000-$39,999 11 $40,000-$49,999 12 $50,000 and over **N(Y041)**	3044	CHAR(2)
*SALEB_	**N(Y041)**	3046	CHAR(1)
*SALEBX	Median of bracket range **N(Y041)**	3047	NUM(6)
*SALEBX_	**N(Y041)**	3053	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	607	NUM(8)
SSREFX_		615	CHAR(1)
INSREFX	During the past 12 months, what was the total amount of refund received from insurance policies by ALL CU members? S04B 3d	405	NUM(8)
INSREFX_		413	CHAR(1)
PTAXREFX	During the past 12 months, what was the total amount of refund received from property taxes by ALL CU members? S04B 3e	565	NUM(8)
PTAX_EFX		573	CHAR(1)

g. <u>TAXES</u>

VARIABLE	ITEM DESCRIPTION	START POSITION	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 **D(Y041)**	550	NUM(8)
*PERSTAX_	**D(Y041)**	558	CHAR(1)

TAXPROPX	During the past 12 months, what was the total amount PAID for personal property taxes for vehicles not reported elsewhere by ALL CU members? S04B 4c	633	NUM(8)
TAXP_OPX		641	CHAR(1)
*FFEDTXX	Amount of Federal income tax deducted from last pay annualized for all CU members (sum ANFEDTXX from MEMB file for all CU members) BLS derived **D(Y041)**	112	NUM(8)
*FFEDTXX_	**D(Y041)**	120	CHAR(1)
ADDFEDX	During the past 12 months, what was the total amount PAID for Federal income tax, in addition to that withheld from earnings, by ALL CU members? S04B 4a	9	NUM(8)
ADDFEDX_		17	CHAR(1)
FEDREFX	During the past 12 months, what was the total amount of refund received from Federal income tax by ALL CU members? S04B 3a	94	NUM(8)
FEDREFX_		102	CHAR(1)
*FSTATXX	Amount of state and local income taxes deducted from last pay annualized for all CU members (sum ANSTATXX from MEMB file for all CU members) BLS derived **D(Y041)**	360	NUM(8)
*FSTATXX_	**D(Y041)**	368	CHAR(1)
ADDSTAX	During the past 12 months, what was the total amount PAID for state and local income taxes, in addition to that withheld from earnings, by ALL CU members? S04B 4b	27	NUM(8)
ADDSTAX_		35	CHAR(1)
STATREFX	During the past 12 months, what was the total amount of refund received from state and local income tax by ALL CU members? S04B 3b	616	NUM(8)
STAT_EFX		624	CHAR(1)
ADDOTHX	During the past 12 months, what was the total amount PAID for other taxes not reported elsewhere by ALL CU members?	18	NUM(8)

	S04B 4d		
ADDOTHX_		26	CHAR(1)
OTHREFX	During the past 12 months, what was the total amount of refund received from other sources, including any other taxes, by ALL CU members?	517	NUM(8)
	S04B 3f		
OTHREFX_		525	CHAR(1)
*FFEDTXXM	Amount of Federal income tax deducted from last pay annualized for all CU members (sum ANFEDTXX from MEMB file for all CU members) **N(Y041)**	1862	NUM(10.1)
*FFED_XXM	**N(Y041)**	1872	CHAR(1)
*FFEDTXX1	**N(Y041)**	1873	NUM(8)
*FFEDTXX2	**N(Y041)**	1881	NUM(8)
*FFEDTXX3	**N(Y041)**	1889	NUM(8)
*FFEDTXX4	**N(Y041)**	1897	NUM(8)
*FFEDTXX5	**N(Y041)**	1905	NUM(8)
*FSTATXXM	Amount of state and local income taxes deducted from last pay annualized for all CU members (sum ANSTATXM from MEMB file for all CU members) **N(Y041)**	2204	NUM(10.1)
*FSTA_XXM	**N(Y041)**	2214	CHAR(1)
*FSTATXX1	**N(Y041)**	2215	NUM(8)
*FSTATXX2	**N(Y041)**	2223	NUM(8)
*FSTATXX3	**N(Y041)**	2231	NUM(8)
*FSTATXX4	**N(Y041)**	2239	NUM(8)
*FSTATXX5	**N(Y041)**	2247	NUM(8)
*PERSTAXM	Amount of personal taxes paid by CU in past 12 months (ADDFEDX + ADDSTAX + ADDOTHX + FFEDTXXM + FSTATXXM + TAXPROPX) - (FEDREFX + STATREFX + OTHREFX) *L **N(Y041)**	2679	NUM(11.1)
*PERS_AXM	**N(Y041)**	2690	CHAR(1)
*PERSTAX1	**N(Y041)**	2691	NUM(9)
*PERSTAX2	**N(Y041)**	2700	NUM(9)

*PERSTAX3	**N(Y041)**	2709	NUM(9)
*PERSTAX4	**N(Y041)**	2718	NUM(9)
*PERSTAX5	**N(Y041)**	2727	NUM(9)

h. RETIREMENT AND PENSION DEDUCTIONS

VARIABLE	ITEM DESCRIPTION	START POSITION	FORMAT
*FJSSDEDX	Estimated amount of income contributed to Social Security by all CU members in past 12 months (Sum JSSDEDX from MEMB file for all CU members) BLS derived **D(Y041)**	168	NUM(8)
*FJSS_EDX	**D(Y041)**	176	CHAR(1)
*FRRX	Amount of Railroad Retirement deducted from last pay annualized for all CU members (Sum ANRRX from MEMB file for all CU members) BLS derived **D(Y041)**	195	NUM(8)
*FRRX_	**D(Y041)**	203	CHAR(1)
*FGVX	Amount of government retirement deducted from last pay annualized for all CU members (Sum ANGVX from MEMB file for all CU members) BLS derived **D(Y041)**	121	NUM(8)
*FGVX_	**D(Y041)**	129	CHAR(1)
*FPVTX	Amount of private pension fund deducted from last pay annualized for all CU members (sum ANPVTX from MEMB file for all CU members) BLS derived **D(Y041)**	177	NUM(8)
*FPVTX_	**D(Y041)**	185	CHAR(1)
FIRAX	Amount of money placed in an individual retirement plan, such as an IRA or Keogh, by all CU members in past 12 months (sum IRAX from MEMB file for all CU members) BLS derived	159	NUM(8)
FIRAX_		167	CHAR(1)
*FGVXM	Amount of government retirement deducted from last pay annualized for all CU members (Sum ANGVXM from MEMB file for all CU members) **N(Y041)**	1913	NUM(8)

*FGVXM_	**N(Y041)**	1921	CHAR(1)
*FJSSDEDM	Estimated amount of income contributed to Social Security by all CU members in past 12 months (Sum JSSDEDXM from MEMB file for all CU members) **N(Y041)**	2039	NUM(10.1)
*FJSS_EDM	**N(Y041)**	2049	CHAR(1)
*FJSSDED1	**N(Y041)**	2050	NUM(8)
*FJSSDED2	**N(Y041)**	2058	NUM(8)
*FJSSDED3	**N(Y041)**	2066	NUM(8)
*FJSSDED4	**N(Y041)**	2074	NUM(8)
*FJSSDED5	**N(Y041)**	2082	NUM(8)
*FPVTXM	Amount of private pension fund deducted from last pay annualized for all CU members (sum ANPVTXM from MEMB file for all CU members) **N(Y041)**	2090	NUM(8)
*FPVTXM_	**N(Y041)**	2098	CHAR(1)
*FRRXM	Amount of Railroad Retirement deducted from last pay annualized for all CU members (Sum ANRRXM from MEMB file for all CU members) BLS derived **N(Y041)**	2099	NUM(8)
*FRRXM_	**N(Y041)**	2107	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

VARIABLE	ITEM DESCRIPTION	START POSITION	FORMAT
REC_FS	Have any members of your CU received any Food Stamps, during the past 12 months? CODED 1 Yes 2 No S04B 8a	576	CHAR(1)
REC_FS_		577	CHAR(1)
FD_STMPS	Have any members of your CU received any Food Stamps, in the past month? CODED 1 Yes	92	CHAR(1)

	2 No		
	S04B 9a		
FD_S_MPS		93	CHAR(1)
FS_MTHI	In how many of the past 12 months were Food Stamps received?	348	NUM(2)
	S04B 8b		
FS_MTHI_		350	CHAR(1)
*FS_AMT1	What is the dollar value of Food Stamps received on *(Date in 9b)* - first entry	204	NUM(8)
	S04B 9c **D(Y041)**		
*FS_AMT1_	**D(Y041)**	212	CHAR(1)
*FS_AMT2	See FS_AMT1 for question and source - second entry **D(Y041)**	213	NUM(8)
*FS_AMT2_	**D(Y041)**	221	CHAR(1)
*FS_AMT3	See FS_AMT1 for question and source - third entry **D(Y041)**	222	NUM(8)
*FS_AMT3_	**D(Y041)**	230	CHAR(1)
*FS_AMT4	See FS_AMT1 for question and source - fourth entry **D(Y041)**	231	NUM(8)
*FS_AMT4_	**D(Y041)**	239	CHAR(1)
*FS_AMT5	See FS_AMT1 for question and source - fifth entry **D(Y041)**	240	NUM(8)
*FS_AMT5_	**D(Y041)**	248	CHAR(1)
*FS_AMT6	See FS_AMT1 for question and source - sixth entry **D(Y041)**	249	NUM(8)
*FS_AMT6_	**D(Y041)**	257	CHAR(1)
*FS_AMT7	See FS_AMT1 for question and source - seventh entry **D(Y041)**	258	NUM(8)
*FS_AMT7_	**D(Y041)**	266	CHAR(1)
*FS_DATE1	When were Food Stamps received? (List all dates - month, day, year on which stamps were received during the month) - first entry	276	NUM(8)
	S04B 9b **D(Y041)**		
*FS_D_TE1	**D(Y041)**	284	CHAR(1)

*FS_DATE2	See FS_DATE1 for question and source - second entry **D(Y041)**	*285*	NUM(8)
*FS_D_TE2	**D(Y041)**	293	CHAR(1)
*FS_DATE3	See FS_DATE1 for question and source - third entry **D(Y041)**	294	NUM(8)
*FS_D_TE3	**D(Y041)**	302	CHAR(1)
*FS_DATE4	See FS_DATE1 for question and source - fourth entry **D(Y041)**	303	NUM(8)
*FS_D_TE4	**D(Y041)**	311	CHAR(1)
*FS_DATE5	See FS_DATE1 for question and source - fifth entry **D(Y041)**	312	NUM(8)
*FS_D_TE5	**D(Y041)**	320	CHAR(1)
*FS_DATE6	See FS_DATE1 for question and source - sixth entry **D(Y041)**	321	NUM(8)
*FS_D_TE6	**D(Y041)**	329	CHAR(1)
*FS_DATE7	See FS_DATE1 for question and source - seventh entry **D(Y041)**	330	NUM(8)
*FS_D_TE7	**D(Y041)**	338	CHAR(1)
*FS_AMTXM	What is the dollar value of Food Stamps received? **N(Y041)**	2108	NUM(8.1)
*FS_A_TXM	**N(Y041)**	2116	CHAR(1)
*FS_AMTX1	**N(Y041)**	2117	NUM(6)
*FS_AMTX2	**N(Y041)**	2123	NUM(6)
*FS_AMTX3	**N(Y041)**	2129	NUM(6)
*FS_AMTX4	**N(Y041)**	2135	NUM(6)
*FS_AMTX5	**N(Y041)**	2141	NUM(6)
*FS_AMTXI	**N(Y041)**	2147	NUM(3)

j. *FREE MEALS AND GROCERIES*

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

k. *HOUSING STRUCTURE*

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

l. *WEIGHTS*

VARIABLE	ITEM DESCRIPTION	START POSITION	FORMAT
FINLWT21	CU replicate weight # 45 (total sample weight) BLS derived	148	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	687	NUM(11,3)
WTREP02	CU replicate weight # 02	698	NUM(11,3)
WTREP03	CU replicate weight # 03	709	NUM(11,3)
WTREP04	CU replicate weight # 04	720	NUM(11,3)
WTREP05	CU replicate weight # 05	731	NUM(11,3)
WTREP06	CU replicate weight # 06	742	NUM(11,3)
WTREP07	CU replicate weight # 07	753	NUM(11,3)

WTREP08	CU replicate weight # 08	764	NUM(11,3)
WTREP09	CU replicate weight # 09	775	NUM(11,3)
WTREP10	CU replicate weight # 10	786	NUM(11,3)
WTREP11	CU replicate weight # 11	797	NUM(11,3)
WTREP12	CU replicate weight # 12	808	NUM(11,3)
WTREP13	CU replicate weight # 13	819	NUM(11,3)
WTREP14	CU replicate weight # 14	830	NUM(11,3)
WTREP15	CU replicate weight # 15	841	NUM(11,3)
WTREP16	CU replicate weight # 16	852	NUM(11,3)
WTREP17	CU replicate weight # 17	863	NUM(11,3)
WTREP18	CU replicate weight # 18	874	NUM(11,3)
WTREP19	CU replicate weight # 19	885	NUM(11,3)
WTREP20	CU replicate weight # 20	896	NUM(11,3)
WTREP21	CU replicate weight # 21	907	NUM(11,3)
WTREP22	CU replicate weight # 22	918	NUM(11,3)
WTREP23	CU replicate weight # 23	929	NUM(11,3)
WTREP24	CU replicate weight # 24	940	NUM(11,3)
WTREP25	CU replicate weight # 25	951	NUM(11,3)
WTREP26	CU replicate weight # 26	972	NUM(11,3)
WTREP27	CU replicate weight # 27	973	NUM(11,3)
WTREP28	CU replicate weight # 28	984	NUM(11,3)
WTREP29	CU replicate weight # 29	995	NUM(11,3)
WTREP30	CU replicate weight # 30	1006	NUM(11,3)
WTREP31	CU replicate weight # 31	1017	NUM(11,3)
WTREP32	CU replicate weight # 32	1028	NUM(11,3)
WTREP33	CU replicate weight # 33	1039	NUM(11,3)
WTREP34	CU replicate weight # 34	1050	NUM(11,3)
WTREP35	CU replicate weight # 35	1061	NUM(11,3)
WTREP36	CU replicate weight # 36	1072	NUM(11,3)
WTREP37	CU replicate weight # 37	1083	NUM(11,3)

WTREP38	CU replicate weight # 38	1094	NUM(11,3)
WTREP39	CU replicate weight # 39	1105	NUM(11,3)
WTREP40	CU replicate weight # 40	1116	NUM(11,3)
WTREP41	CU replicate weight # 41	1127	NUM(11,3)
WTREP42	CU replicate weight # 42	1138	NUM(11,3)
WTREP43	CU replicate weight # 43	1149	NUM(11,3)
WTREP44	CU replicate weight # 44	1160	NUM(11,3)

m. *SUMMARY EXPENDITURE DATA*

The variables FOODTOT through HOUSKEEP contain summary expenditure data. They are all BLS derived. The UCCs comprising each summary expenditure variable are listed below the variable description. Underlined UCCs may not be represented in all Diary quarters. The quarter in which the addition (deletion) to the summary expenditure variable occurs is denoted by a leading superscript directly prior to the UCC code. For example, ^{N041}<UCC> or ^{D041}<UCC> identifies a new or deleted UCC for a given summary expenditure variable beginning in Q041.

VARIABLE	ITEM DESCRIPTION	START POSITION	FORMAT
FOODTOT	Food, total FOODHOME + FOODAWAY	1171	NUM(12,5)
FOODHOME	Food at home, total CEREAL + BAKERY + BEEF + PORK + OTHMEAT + POULTRY + FISHSEA + EGGS + MILKCRM + OTHDAIRY + FRSHFRUT + FRSHVEG + PROCVEG + SWEETS + NOALCBEV + FATOILS + MISCFOOD	1183	NUM(12,5)
CEREAL	Cereal and cereal products 010110 010120 010210 010310 010320	1195	NUM(12,5)
BAKERY	Bakery products 020110 020210 020310 020410 020510 020610 020620 020710 020810 020820	1207	NUM(12,5)
BEEF	Beef 030110 030210 030310 030410 030510 030610 030710 030810	1219	NUM(12,5)
PORK	Pork 040110 040210 040310 040410 040510 040610	1231	NUM(12,5)
OTHMEAT	Other meats 050110 050210 050310 050410 050900	1243	NUM(12,5)
POULTRY	Poultry 060110 060210 060310	1255	NUM(12,5)
FISHSEA	Fish and seafood 070110 070230 070240	1267	NUM(12,5)

EGGS	Eggs 080110	1279	NUM(12,5)
MILKCRM	Fresh milk and cream 090110 090210	1291	NUM(12,5)
OTHDAIRY	Other dairy products 100110 100210 100410 100510	1303	NUM(12,5)
FRSHFRUT	Fresh fruits 110110 110210 110310 110410 110510	1315	NUM(12,5)
FRSHVEG	Fresh vegetables 120110 120210 120310 120410	1327	NUM(12,5)
PROCFRUT	Processed fruits 130110 130121 130122 130211 130212 130310 130320	1339	NUM(12,5)
PROCVEG	Processed vegetables 140110 140210 140220 140230 140310 140320 140330 140340 140410 140420	1351	NUM(12,5)
SWEETS	Sugar and other sweets 150110 150211 150212 150310	1363	NUM(12,5)
NONALBEV	Nonalcoholic beverages 170110 170210 170310 170410 170510 170520 170530 200112	1375	NUM(12,5)
FATSOILS	Fats and oils 160110 160211 160212 160310 160320	1387	NUM(12,5)
MISCFOOD	Miscellaneous foods 180110 180210 180220 180310 180320 180410 180420 180510 180520 180611 180612 180620 180710 180720	1399	NUM(12,5)
FOODAWAY	Food away from home 190111 190112 190113 190114 190211 190212 190213 190214 190311 190312 190313 190314 190321 190322 190323 190324	1411	NUM(12,5)
ALCBEV	Alcoholic beverages 200111 200210 200310 200410 200511 200512 200513 200516 200521 200522 200523 200526 200531 200532 200533 200536	1423	NUM(12,5)
TOBACCO	Tobacco products and smoking supplies 630220 630900	1435	NUM(12,5)
PET_FOOD	Pet food 610310	1447	NUM(12,5)
PERSPROD	Personal care products 640110 640120 640210 640220 640310 640410 640420	1459	NUM(12,5)
PERSSERV	Personal care services 650110 650210 650900	1471	NUM(12,5)
DRUGS	Non-prescription drugs and supplies 550210 550410	1483	NUM(12,5)

HKPGSUPP	Housekeeping supplies and services 330110 330210 330310 330410 330510 330610 340110 340120	1495	NUM(12,5)

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

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

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

a. *CU AND MEMBER IDENTIFIERS*

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

b. *CHARACTERISTICS OF MEMBER*

VARIABLE	ITEM DESCRIPTION	START POSITION	FORMAT
CU_CODE1	What is the member's relationship to *(reference person)*? CODED 1 Reference person 2 Spouse 3 Child or adopted child 4 Grandchild 5 In-law 6 Brother or sister 7 Mother or father 8 Other related persons 9 Unrelated persons 0 Blank or illegible entry S01 4	70	CHAR(1)

AGE	What is the member's date of birth? (Age is verified.) S01 9	9	NUM(2)
AGE_		11	CHAR(1)
SEX	Is the member male or female? CODED 1 Male 2 Female S01 6	174	CHAR(1)
MARITAL	Is the member now . . . ? (Marital status) CODED 1 Married 2 Widowed 3 Divorced 4 Separated 5 Never married S01 12	133	CHAR(1)
EDUCA	What is the highest level of school the member has completed or the highest degree the member has received? 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	72	CHAR(2)
HORIGIN	Are you Hispanic, Latino, or Spanish? Coded: 1 Yes 2 No	250	CHAR(1)
HISPANIC	Country of Hispanic Origin Coded: 1 Mexican 2 Mexican-American 3 Chicano 4 Puerto Rican 5 Cuban 6 Cuban-American 7 Central or South American 8 Other Hispanic group not listed Blank for non-hispanic	251	CHAR(1)
HISP_NIC		252	CHAR(1)

*MEMBRACE	Race of Member CODED 1 White *2 African American, or Black *3 American Indian, or Alaskan Native 4 Asian *5 Native Hawaiian or Other Pacific Islander 6 Multi-race 7 Other	253	CHAR(1)
RC_WHITE	Race Coded: 1 White	254	CHAR(1)
RC_W_ITE		255	CHAR(1)
*RC_BLACK	Race Coded: 2 African American, or Black	256	CHAR(1)
RC_B_ACK		257	CHAR(1)
*RC_NATAM	Race: Coded: 3 American Indian, or Alaskan Native	258	CHAR(1)
RC_N_TAM		259	CHAR(1)
RC_ASIAN	Race Coded: 4 Asian	260	CHAR(1)
RC_A_IAN		261	CHAR(1)
*RC_PACIL	Race Coded: 5 Native Hawaiian or Other Pacific Islander	262	CHAR(1)
RC_P_CIL		263	CHAR(1)
RC_OTHER	Race Coded: 6 Other	264	CHAR(1)
RC_O_HER		265	CHAR(1)
RC_DK	Race Coded: 7 Don't Know	266	CHAR(1)
RC_DK_		267	CHAR(1)
IN_COLL	Is the member currently enrolled in a college or university either . . .? CODED 1 Full time 2 Part time 3 Not at all	244	CHAR(1)

	S01 13b		
IN_COLL_		245	CHAR(1)
ARM_FORC	Is member now in the Armed Forces? CODED 1 Yes 2 No	242	CHAR(1)
	S01 14		
ARM__ORC		243	CHAR(1)
SCHLNCHQ	During the previous 30 days, how many weeks did the member purchase meals at school or in a preschool program for preschool or school age children?	162	NUM(2)
	S02 5b(d)		
SCHL_CHQ		164	CHAR(1)
SCHLNCHX	What is the usual weekly expense for the meals the member purchased at school?	165	NUM(8)
	S02 5b(c)		
SCHL_CHX		173	CHAR(1)

c. *WORK EXPERIENCE OF MEMBERS*

VARIABLE	ITEM DESCRIPTION	START POSITION	FORMAT
WKS_WRKD	In the last 12 months, how many weeks did the member work either full or part time not counting work around the house? Include paid vacation and paid sick leave.	225	NUM(2)
	S04A 2		
WKS__RKD		227	CHAR(1)
HRSPERWK	In the weeks that the member worked, how many hours did the member usually work per week?	113	NUM(3)
	S04A 3		
HRSP_RWK		116	CHAR(1)
OCCULIST	The job in which member received the most earnings during the 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	137	CHAR(2)

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

S04A 4a

OCCU_IST		139	CHAR(1)
EMPLTYPE	Was the member . . . ? (Type of employee) Refers to job where member received the most earnings in the past 12 months. 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	75	CHAR(1)
EMPL_YPE		76	CHAR(1)
WHYNOWRK	What was the main reason the member did not work during the past 12 months? Was the member . . .? 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	223	CHAR(1)
WHYN_WRK		224	CHAR(1)

d. *INCOME*

VARIABLE	ITEM DESCRIPTION	START POSITION	FORMAT
*WAGEX	During the past 12 months, what was the amount of wages or salary income received before any deductions? S04A 6a **D(Y041)**	214	NUM(8)
*WAGEX_	**D(Y041)**	222	CHAR(1)
GROSPAYX	What was the gross amount of the member's last pay? S04A 9	95	NUM(8)
GROS_AYX		103	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	248	CHAR(1)
PAYPERD_		249	CHAR(1)
*BSNSX	During the past 12 months, what was the amount of income or loss from the member's own nonfarm business, partnership or professional practice after expenses? *L S04A 6b **D(Y041)**	61	NUM(8)
*BSNSX_	**D(Y041)**	69	CHAR(1)
*FARMX	During the past 12 months, what was the amount of income or loss from the member's own farm after expenses? *L S04A 6c **D(Y041)**	77	NUM(8)
*FARMX_	**D(Y041)**	85	CHAR(1)
ANYSSINC	During the past 12 months, did the member receive from the U.S. Government any money from Social Security checks? CODED 1 Yes 2 No	59	CHAR(1)

	S04A 7a		
ANYS_INC		60	CHAR(1)
ANYRAIL	During the past 12 months, did the member receive from the U.S. Government any money from Railroad Retirement checks? CODED 1 Yes 2 No	57	CHAR(1)
	S04A 7b		
ANYRAIL_		58	CHAR(1)
*SOCRRX	Annual amount of Social Security and Railroad Retirement income received by member in past 12 months BLS derived **D(Y041)**	233	NUM(8)
*SOCRRX_	**D(Y041)**	241	CHAR(1)
*SS_RRX	What was the amount of the last Social Security or Railroad Retirement payment received? (In past 12 months) S04A 7d **D(Y041)**	183	NUM(8)
*SS_RRX_	**D(Y041)**	191	CHAR(1)
MEDICARE	Is the amount of the last Social Security or Railroad Retirement payment received AFTER the deduction for a Medicare premium? CODED 1 Yes 2 No	246	CHAR(1)
	S04A 7e		
MED_CARE		247	CHAR(1)
SS_RRQ	During the past 12 months, how many Social Security or Railroad Retirement payments did the member receive?	228	NUM(4)
	S04A 7f		
SS_RRQ_		232	CHAR(1)
US_SUPP	During the past 12 months, did the member receive any Supplemental Security Income checks from the U.S. Government? CODED 1 Yes 2 No	212	CHAR(1)
	S04A 8a		
US_SUPP_		213	CHAR(1)

STA_SUPP	During the past 12 months, did the member receive any Supplemental Security Income checks from the State or local government? CODED 1 Yes 2 No S04A 8b	192	CHAR(1)
STA__UPP		193	CHAR(1)
*SUPPX	During the past 12 months, how much did the member receive in Supplemental Security Income checks altogether? (From U.S. Government and State or local Government) S04A 8b **D(Y041)**	203	NUM(8)
*SUPPX_	**D(Y041)**	211	CHAR(1)
*FSS_RRXM	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 SOCRRXM from MEMB file for all CU members) **N(Y041)**	2150	NUM(10.1)
*FSS__RXM	**N(Y041)**	2160	CHAR(1)
*FSS_RRX1	**N(Y041)**	2161	NUM(8)
*FSS_RRX2	**N(Y041)**	2169	NUM(8)
*FSS_RRX3	**N(Y041)**	2177	NUM(8)
*FSS_RRX4	**N(Y041)**	2185	NUM(8)
*FSS_RRX5	**N(Y041)**	2193	NUM(8)
*FSS_RRXI	**N(Y041)**	2201	NUM(3)
*BSNSXM	Amount of income or loss from nonfarm business, partnership or professional practice received in past 12 months *L **N(Y041)**	313	NUM(11.1)
*BSNSXM_	**N(Y041)**	324	CHAR(1)
*BSNSX1	**N(Y041)**	325	NUM(9)
*BSNSX2	**N(Y041)**	334	NUM(9)
*BSNSX3	**N(Y041)**	343	NUM(9)
*BSNSX4	**N(Y041)**	352	NUM(9)
*BSNSX5	**N(Y041)**	361	NUM(9)
*BSNSXI	**N(Y041)**	370	NUM(3)

*BSNSB	Could you tell me which range best reflects the member's income or loss from the member's own nonfarm business, partnership or professional practice during the last 12 months? 00 Loss 01 $0-$4,999 02 $5,000-$9,999 03 $10,000-$14,999 04 $15,000-$19,999 05 $20,000-$29,999 06 $30,000-$39,999 07 $40,000-$49,999 08 $50,000-$69,999 09 $70,000-$89,999 10 $90,000-$119,999 11 $120,000 and over **N(Y041)**	724	CHAR(2)
*BSNSB_	**N(Y041)**	726	CHAR(1)
*BSNSBX	Median of bracket range **N(Y041)**	727	NUM(6)
*BSNSBX_	**N(Y041)**	733	CHAR(1)
*FARMXM	During the past 12 months, what was the amount of income or loss from the member's own farm after expenses? *L **N(Y041)**	373	NUM(11.1)
*FARMXM_	**N(Y041)**	384	CHAR(1)
*FARMX1	**N(Y041)**	385	NUM(9)
*FARMX2	**N(Y041)**	394	NUM(9)
*FARMX3	**N(Y041)**	403	NUM(9)
*FARMX4	**N(Y041)**	412	NUM(9)
*FARMX5	**N(Y041)**	421	NUM(9)
*FARMXI	**N(Y041)**	430	NUM(3)
*FARMB	Could you tell me which range best reflects the member's income or loss from the member's own farm during the last 12 months? 00 Loss 01 $0-$4,999 02 $5,000-$9,999 03 $10,000-$14,999 04 $15,000-$19,999 05 $20,000-$29,999 06 $30,000-$39,999 07 $40,000-$49,999 08 $50,000-$69,999	734	CHAR(2)

	09 $70,000-$89,999 10 $90,000-$119,999 11 $120,000 and over **N(Y041)**		
*FARMB_	**N(Y041)**	736	CHAR(1)
*FARMBX	Median of bracket range **N(Y041)**	737	NUM(6)
*FARMBX_	**N(Y041)**	743	CHAR(1)
*SS_RRXM	What was the amount of the last Social Security or Railroad Retirement payment received? (In past 12 months) **N(Y041)**	562	NUM(10.1)
*SS_RRXM_	**N(Y041)**	572	CHAR(1)
*SS_RRX1	**N(Y041)**	573	NUM(8)
*SS_RRX2	**N(Y041)**	581	NUM(8)
*SS_RRX3	**N(Y041)**	589	NUM(8)
*SS_RRX4	**N(Y041)**	597	NUM(8)
*SS_RRX5	**N(Y041)**	605	NUM(8)
*SS_RRXI	**N(Y041)**	613	NUM(3)
*SS_RRB	Could you tell me which range best reflects the amount of the member's last Social Security or Railroad Retirement payment during the last 12 months? 01 Less than $300 02 $300-$399 03 $400-$499 04 $500-$599 05 $600-$699 06 $700-$799 07 $800-$899 08 $900-$999 09 $1,000-$1499 10 $1,500 and over **N(Y041)**	744	CHAR(2)
*SS_RRB_	**N(Y041)**	746	CHAR(1)
*SS_RRBX	Median of bracket range **N(Y041)**	747	NUM(6)
*SS_RRBX_	**N(Y041)**	753	CHAR(1)
*SUPPXM	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) **N(Y041)**	616	NUM(10.1)
*SUPPXM_	**N(Y041)**	626	CHAR(1)

*SUPPX1	**N(Y041)**	627	NUM(8)
*SUPPX2	**N(Y041)**	635	NUM(8)
*SUPPX3	**N(Y041)**	643	NUM(8)
*SUPPX4	**N(Y041)**	651	NUM(8)
*SUPPX5	**N(Y041)**	659	NUM(8)
*SUPPXI	**N(Y041)**	667	NUM(3)
*SUPPB	Could you tell me which range best reflects the amount the member received in Supplemental Security income from all government sources during the last 12 months? 01 $0-$999 02 $1,000-$1,999 03 $2,000-$2,999 04 $3,000-$3,999 05 $4,000-$4,999 06 $5,000-$9,999 07 $10,000-$14,999 08 $15,000-$19,999 09 $20,000-$29,999 10 $30,000-$39,999 11 $40,000-$49,999 12 $50,000 and over **N(Y041)**	754	CHAR(2)
*SUPPB_	**N(Y041)**	756	CHAR(1)
*SUPPBX	Median of bracket range **N(Y041)**	757	NUM(6)
*SUPPBX_	**N(Y041)**	763	CHAR(1)
*WAGEXM	During the past 12 months, what was the amount of wages or salary income received before any deductions? **N(Y041)**	670	NUM(10.1)
*WAGEXM_	**N(Y041)**	680	CHAR(1)
*WAGEX1	**N(Y041)**	681	NUM(8)
*WAGEX2	**N(Y041)**	689	NUM(8)
*WAGEX3	**N(Y041)**	697	NUM(8)
*WAGEX4	**N(Y041)**	705	NUM(8)
*WAGEX5	**N(Y041)**	713	NUM(8)
*WAGEXI	**N(Y041)**	721	NUM(3)
*WAGEB	Could you tell me which range best reflects the member's total wages and salaries for ALL JOBS during the last 12 months?	764	CHAR(2)

	01 $0-$4,999 02 $5,000-$9,999 03 $10,000-$14,999 04 $15,000-$19,999 05 $20,000-$29,999 06 $30,000-$39,999 07 $40,000-$49,999 08 $50,000-$69,999 09 $70,000-$89,999 10 $90,000-$119,999 11 $120,000 and over **N(Y041)**		
*WAGEB_	**N(Y041)**	766	CHAR(1)
*WAGEBX	Median of bracket range **N(Y041)**	767	NUM(6)
*WAGEBX_	**N(Y041)**	773	CHAR(1)

e. *TAXES*

VARIABLE	ITEM DESCRIPTION	START POSITION	FORMAT
*ANFEDTXX	Annualized amount of Federal income tax deducted from last pay ((FEDTXX/GROSPAYX) x WAGEX) BLS derived **D(Y041)**	12	NUM(8)
*ANFE_TXX	**D(Y041)**	20	CHAR(1)
FEDTXX	How much was deducted from the member's last pay for Federal income tax? S04A 10a	86	NUM(8)
FEDTXX_		94	CHAR(1)
*ANSTATXX	Annualized amount of state and local income taxes deducted from last pay ((STATXX/GROSPAYX) x WAGEX) BLS derived **D(Y041)**	48	NUM(8)
*ANST_TXX	**D(Y041)**	56	CHAR(1)
STATXX	How much was deducted from the member's last pay for state and local income tax? S04A 10b	194	NUM(8)
STATXX_		202	CHAR(1)

*ANFEDTXM	Annualized amount of Federal income tax deducted from last pay ((FEDTXX/GROSPAYX) x WAGEM) **N(Y041)**	268	NUM(8)
*ANFE_TXM	**N(Y041)**	276	CHAR(1)
*ANSTATXM	Annualized amount of state and local income taxes deducted from last pay ((STATXX/GROSPAYX) x WAGEM) **N(Y041)**	304	NUM(8)
*ANST_TXM	**N(Y041)**	312	CHAR(1)

f. *RETIREMENT AND PENSION DEDUCTIONS*

VARIABLE	ITEM DESCRIPTION	START POSITION	FORMAT
*JSSDEDX	Estimated amount of income contributed to Social Security by member in past 12 months BLS derived **D(Y041)**	126	NUM(6)
*JSSDEDX_	**D(Y041)**	132	CHAR(1)
*SLFEMPSS	Amount of income contributed to Social Security by member if self-employed BLS derived **D(Y041)**	176	NUM(6)
*SLFE_PSS	**D(Y041)**	182	CHAR(1)
*ANRRX	Annualized amount of Railroad Retirement deducted from last pay ((RRX/GROSPAYX) x WAGEX) BLS derived **D(Y041)**	39	NUM(8)
*ANRRX_	**D(Y041)**	47	CHAR(1)
RRX	How much was deducted from the member's last pay for Railroad Retirement? S04A 10d	153	NUM(8)
RRX_		161	CHAR(1)
*ANGVX	Annualized amount of Government Retirement deducted from last pay ((GVX/GROSPAYX) x WAGEX) BLS derived **D(Y041)**	21	NUM(8)
*ANGVX_	**D(Y041)**	29	CHAR(1)

GVX	How much was deducted from the member's last pay for Government Retirement? S04A 10e	104	NUM(8)
GVX_		112	CHAR(1)
*ANPVTX	Annualized amount of private pensions deducted from last pay ((PVTX/GROSPAYX) x WAGEX) BLS derived **D(Y041)**	30	NUM(8)
*ANPVTX_	**D(Y041)**	38	CHAR(1)
PVTX	How much was deducted from the member's last pay for private pension fund? S04A 10f	142	NUM(8)
PVTX_		150	CHAR(1)
IRAX	During the past 12 months, how much money did the member place in a retirement plan such as Individual Retirement Account (IRA & Keogh)? (Exclude rollovers) S04A 13b	117	NUM(8)
IRAX_		125	CHAR(1)
*ANGVXM	Annualized amount of Government Retirement deducted from last pay ((GVX/GROSPAYX) x WAGEM) **N(Y041)**	277	NUM(8)
*ANGVXM_	**N(Y041)**	285	CHAR(1)
*ANPVTXM	Annualized amount of private pensions deducted from last pay ((PVTX/GROSPAYX) x WAGEM) **N(Y041)**	286	NUM(8)
*ANPVTXM_	**N(Y041)**	294	CHAR(1)
*ANRRXM	Annualized amount of Railroad Retirement deducted from last pay ((RRX/GROSPAYX) x WAGEM) **N(Y041)**	295	NUM(8)
*ANRRXM_	**N(Y041)**	303	CHAR(1)
*JSSDEDXM	Estimated amount of income contributed to Social Security by member in past 12 months **N(Y041)**	433	NUM(8.1)
*JSSD_DXM	**N(Y041)**	441	CHAR(1)
*JSSDEDX1	**N(Y041)**	442	NUM(6)
*JSSDEDX2	**N(Y041)**	448	NUM(6)
*JSSDEDX3	**N(Y041)**	454	NUM(6)

*JSSDEDX4	**N(Y041)**	460	NUM(6)
*JSSDEDX5	**N(Y041)**	466	NUM(6)
*SLFEMPSM	Amount of income contributed to Social Security by member if self-employed **N(Y041)**	472	NUM(8.1)
*SLFE_PSM	**N(Y041)**	480	CHAR(1)
*SLFEMPS1	**N(Y041)**	481	NUM(6)
*SLFEMPS2	**N(Y041)**	487	NUM(6)
*SLFEMPS3	**N(Y041)**	493	NUM(6)
*SLFEMPS4	**N(Y041)**	499	NUM(6)
*SLFEMPS5	**N(Y041)**	505	NUM(6)
*SOCRRXM	Annual amount of Social Security and Railroad Retirement income received by member in past 12 months **N(Y041)**	511	NUM(10.1)
*SOCRRXM_	**N(Y041)**	521	CHAR(1)
*SOCRRX1	**N(Y041)**	522	NUM(8)
*SOCRRX2	**N(Y041)**	530	NUM(8)
*SOCRRX3	**N(Y041)**	538	NUM(8)
*SOCRRX4	**N(Y041)**	546	NUM(8)
*SOCRRX5	**N(Y041)**	554	NUM(8)

3. ***DETAILED EXPENDITURES (EXPN) FILE***

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

VARIABLE	ITEM DESCRIPTION	START POSITION	FORMAT
NEWID	CU identification number. Digits 1-7 (CU sequence number, 1 through 9999999) uniquely identify the CU. Digit 8 is the week number, 1 or 2 BLS derived	1	NUM(8)
ALLOC	Adjustment status for cost variable	9	CHAR(1)

	CODED 0 Not allocated or topcoded 1 Allocated, not topcoded 2 Topcoded and allocated 3 Topcoded, not allocated BLS derived		
COST	Total cost of item, including sales tax BLS derived	10	NUM(12,5)
GIFT	Was item bought for someone outside the CU? CODED 1 Yes 2 No BLS derived	22	CHAR(1)
PUB_FLAG	Is cost included in published reports? CODED 1 Not published 2 Published in Integrated reports BLS derived	23	CHAR(1)
QREDATE	Purchase date recode field Consists of: Sequential day of the Diary week (1-7) Day of the week, Sunday through Saturday (1-7) Reference month of this expenditure, (01-12) Reference day of this expenditure, (01-31) Reference year of this expenditure, (0000-9999) BLS derived	24	CHAR(10)
QREDATE_		34	CHAR(1)
UCC	Universal Classification Code See Section XIII.A. Appendix A for a listing of EXPN UCC codes and titles BLS derived	35	CHAR(6)

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

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

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

5. ***PROCESSING FILES***

a. Dstub file

X:\Programs\Dstub.txt

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

DESCRIPTION	START POSITION	FORMAT
Type: represents whether information in this line contains aggregation data or not	1	CHAR(1)
Level: aggregation level (lowest number is highest level of aggregation)	4	CHAR(1)

Title: title of the line item	7	CHAR(60)
UCC: UCC number in the MTAB or ITAB file	70	CHAR(6)
Survey: Indicates survey source (I = interview, G = Aggregated item)	80	CHAR(1)
Group: Indicates if the item is and expenditure, income, or asset	86	CHAR(7)

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

b. UCC file

X:\DIARY02\UCCD04.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	START POSITION	FORMAT
UCC	1	CHAR(6)
UCC title See Section XIII.A. EXPENDITURE UCCS ON EXPN FILE and XIII.B. INCOME AND RELATED UCCS ON DTAB FILE for a list of UCCs and their full title by file – expenditure (EXPN) or income (DTAB)	8	CHAR(50)

c. Sample program files

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

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

IV. TOPCODING AND OTHER NONDISCLOSURE REQUIREMENTS

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

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

A. CU CHARACTERISTICS AND INCOME FILE (FMLY)

The following FMLY file variables are subject to topcoding.

AGE_REF	Age of reference person
AGE2	Age of spouse
ADDFEDX	Amount of Federal income tax paid in addition to that withheld
ADDOTHX	Amount of other taxes paid but not reported elsewhere
ADDSTAX	Amount of state and local income tax paid in addition to that withheld
ALIOTHXM, ALIOTHX1-5	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
CHDOTHXM, CHDOTHX1-5	Amount received by all CU members in last 12 months for other child support
DIVXM, DIVX1-5	Amount received from dividends, royalties, estates, or trusts
FEDREFX	Amount of refund from Federal income tax
INSREFX	Amount of refund from insurance policies
INTXM, INTX1-5	Amount received from interest on savings accounts, or bonds
LUMPX	Amount from lump sum payments from estates, trusts, royalties, alimony, child support, prizes, games of chance, or persons outside CU
OCCEXPNX	Amount paid by CU for occupational expenses, last 12 months
OTHINXM, OTHINX1-5	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
OTHRNTXM, OTHRNTX1-5	Amount of net income or loss received from other rental units
PENSIONM, PENSION1-5	Amount received from pensions or annuities from private companies, military or government, IRA or Keogh
PTAXREFX	Amount of refund from property taxes
ROOMXM, ROOMX1-5	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	2004 Upper critical value	2004 Lower critical value	2004 Upper topcode value	2004 Lower topcode value
ALIOTHXM, ALIOTHX1-5	34,300	-	38,514	-
CHDLMPX	5,000	-	6,400	-
CHDOTHXM, CHDOTHX1-5	17,000	-	20,337	-
DIVXM, DIVX1-5	36,000	-	40,853	-
FEDREFX	6,500	-	10,262	-
INSREFX	4,200	-	80,800	-
INTXM, INTX1-5	35,000	-	93,701	-
LUMPX	97,000	-	166,714	-
OCCEXPNX	5,000	-	13,099	-
OTHINXM, OTHINX1-5	41,000	-	178,190	-
OTHREFX	1,700	-	2,150	-
OTHRNTXM, OTHRNTX1-5	58,567	-21,000	23,395	-12,042
PENSIONM, PENSION1-5	60,000	-	61,890	-
PTAXREFX	1,200	-	1,755	-
ROOMXM, ROOMX1-5	36,000	-13,000	51,963	-17,590
SALEX	5,000	-	13,929	-
SSREFX	700	-	1,300	-
STATREFX	2,000	-	4,135	-
TAXPROPX	1,600	-	3,152	-
ADDFEDX	30,000	-	96,618	-
ADDOTHX	7,000	-	10,171	-
ADDSTAX	5,000	-	17,791	-
AGE_REF	80	-	85	-
AGE2	80	-	84	-

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

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

EARNX	Amount of CU income from earnings before taxes
FBSNSXM, FBSNSX1-5	Amount of income from non-farm business
FFARMXM, FFARMX1-5	Amount of income or loss received from own farm
FFEDTXX	Amount of Federal tax deducted from last pay, annualized for all CU members
FGVXM, FGVX1-5	Amount of government retirement deducted from last pay, annualized for all CU members
FINCAFTM, FINCAFT1-5	Amount of CU income after taxes
FINCBEFM, FINCBEF1-5	Amount of CU income before taxes

FIRAX	Amount of money placed in individual retirement plan
FJSSDEDM, FJSSDED1-5	Estimated amount of annual Social Security contribution
FPVTXM	Amount of private pension fund deducted from last pay, annualized for all CU members
FRRXM	Amount of Railroad Retirement deducted from last pay, annualized for all CU members
FSTATXXM, FSTATXX1-5	Amount of State and local income taxes deducted from last pay, annualized for all CU members
FWAGEXM, FWAGEX1-5	Amount received from wage and salary income before deduction
OTHRECX	Amount of other money receipts excluded from family income
PERSTAXM, PERSTAX1-5	Amount of personal taxes paid

Here are some examples of situations that may occur. The value for the variable FBSNSXM (family income from nonfarm business) is computed as the sum of the values reported for the variable BSNSXM (member income from nonfarm business) from the MEMB file. BSNSXM is subject to topcoding beyond the critical value of $150,000 (-$9,999). The topcode value for BSNSXM is $159,084 (-$25,852).

		BSNSX		**FBSNSX**	
			AFTER		*FLAGGED AS*
CU		*REPORTED*	*TOPCODING*	*VALUE*	*TOPCODED?*
CU 1:	MEMB1	$145,000	$145,000		
	MEMB2	145,000	145,000		
	MEMB3	20,000	20,000	310,000	No
CU 2:	MEMB1	354,000	159,084		
	MEMB2	-15,000	-25,852		
	MEMB3	-29,000	-25,852	107,380	Yes
CU 3	MEMB1	155,000	159,084		
	MEMB2	130,000	130,000	289,084	Yes
CU 4	MEMB1	140,000	140,000		
	MEMB2	140,000	140,000		
	MEMB3	-300,000	-25,852	254,148	Yes

While CUs 1 and 2 each originally report a total of $310,000 for all members in BSNSXM, topcoding is done only on the values reported by the members of CU2. Thus, the value for FBSNSXM 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 FBSNSXM value ($289,084) is higher than the amount that it reported ($285,000). The case of CU4 demonstrates that the reported value for FBSNSXM can be negative, while the topcoded value can be positive. The reverse can also occur.

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

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

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

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

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

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

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

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

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

[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 (MEMB)

The following MEMB file variables are subject to topcoding.

AGE	Age of member
ANFEDTXM	Annual amount of Federal income tax deducted from pay
ANGVXM	Annual amount of government retirement deducted from pay
ANPVTXM	Annual amount of private pension fund deducted from pay
ANRRXM	Annual amount of Railroad Retirement deducted from pay
ANSTATXM	Annual amount of state and local income taxes deducted from pay
BSNSXM, BSNSX1-5	Amount of income or loss received from nonfarm business
FARMXM, FARMX1-5	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
JSSDEDXM, JSSDEDX1-5	Estimated annual Social Security contribution
PVTX	Amount of private pension fund deducted from last pay
RRX	Amount of Railroad Retirement deducted from last pay
SLFEMPSM, SLFEMPS1-5	Amount of self-employment Social Security contributions
STATXX	Amount of state and local income taxes deducted from last pay
WAGEXM, WAGEX1-5	Amount received from wage and salary income before deductions

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

Variable	2004 Upper critical Value	2004 Lower critical Value	2004 Upper topcode value	2004 Lower topcode value
AGE	80	-	85	-
ANFEDTXM	21,393	-	38,869	-
ANGVXM	7,279	-	9,730	-
ANPVTXM	15,000	-	20,000	-
ANRRXM	7,700	-	8,266	-
ANSTATXM	7,196	-	13,162	-
BSNSXM, BSNSX1-5	150,000	-9,999	159,084	-25,852
FARMXM, FARMX1-5	150,000	-9,999	242,861	-5,149
FEDTXX	1,100	-	2,246	-
GROSPAYX	5,000	-	10,171	-
GVX	538	-	755	-
IRAX	18,000	-	35,543	-
JSSDEDXM, JSSDEDX1-5	7,335	-	7,628	-
PVTX	1,000	-	3,966	-
RRX	208	-	294	-
SLFEMPSM, SLFEMPS1-5	11,475	-	8,279	-
STATXX	360	-	696	-
WAGEXM, WAGEX1-5	150,000	-	179,280	-

Special suppression for MEMB file variables

The five MEMB file variables--FEDTXX, GVX, PVTX, RRX, and STATXX--describe deductions from the most recent pay. These variables are used in conjunction with GROSPAYX (amount of last gross pay) and WAGEX (annual wage and salary income) to derive ANFEDTXM, ANGVXM, ANPVTXM, ANRRXM, and ANSTATXM, 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) ANFEDTXM = (WAGEXM (FEDTXX/GROSPAYX)).

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

(2) WAGEXM = (ANFEDTXM (GROSPAYX/FEDTXX)).

In the above example, a problem with disclosure may arise when neither ANFEDTXM, GROSPAYX, nor FEDTXX (calculation components) are topcoded, *but WAGEXM is*. In this situation WAGEXM 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 WAGEXM is greater than the critical value but ANFEDTXM, GROSPAYX, and FEDTXX are not, then the values for ANFEDTXM, GROSPAYX, and FEDTXX are suppressed and their flag variables are assigned a value of 'T'.

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

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

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

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

C. DETAILED EXPENDITURE FILE (EXPN)

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

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	2004 Upper critical value	2004 Lower critical value	2004 Upper topcode value	2004 Lower topcode value	
001000	1,065	-	8,326	-	(ALLOC EQ '2' OR ALLOC EQ '3')
009000	2,616	-	3,768	-	(ALLOC EQ '2' OR ALLOC EQ '3')
210110	1,530	-	2,088	-	(ALLOC EQ '2' OR ALLOC EQ '3')
210210	333	-	524	-	(ALLOC EQ '2' OR ALLOC EQ '3')
210310	1,197	-	1,499	-	(ALLOC EQ '2' OR ALLOC EQ '3')
210900	-	-	-	-	(ALLOC EQ '2' OR ALLOC EQ '3')
220400	1,449	-	5,528	-	-
550320	106	-	141	-	(ALLOC EQ '2' OR ALLOC EQ '3')
550330	149	-	843	-	(ALLOC EQ '2' OR ALLOC EQ '3')
560110	250	-	575	-	(ALLOC EQ '2' OR ALLOC EQ '3')
560210	1,000	-	1,654	-	(ALLOC EQ '2' OR ALLOC EQ '3')
560310	315	-	1,035	-	(ALLOC EQ '2' OR ALLOC EQ '3')
560330	379	-	498	-	(ALLOC EQ '2' OR ALLOC EQ '3')
560400	160	-	282	-	(ALLOC EQ '2' OR ALLOC EQ '3')
570000	630	-	1,976	-	(ALLOC EQ '2' OR ALLOC EQ '3')
570220	156	-	1,536	-	(ALLOC EQ '2' OR ALLOC EQ '3')
570230	73	-	202	-	(ALLOC EQ '2' OR ALLOC EQ '3')
570901	30	-	42	-	(ALLOC EQ '2' OR ALLOC EQ '3')

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

D. INCOME FILE (DTAB)

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

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

UCC	Description
900040	Amount received from pensions or annuities
950001	Amount received from Federal income tax refunds
950010	Amount of state/local income tax paid
950011	Amount received from State/local income tax refunds
950021	Amount of other taxes paid
950022	Amount of personal property taxes paid
950023	Amount of other tax refund received from other sources
980020	Age of reference person

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

Variable	2004 Upper critical Value	2004 Lower critical Value	2004 Upper topcode value	2004 Lower topcode value
900040	50,000	-	61,890	-
900050	36,000	-	40,853	-
900060	36,000	-13,000	41,963	-17,590
900070	60,000	-21,000	15,785	-12,042
900080	35,000	-	93,701	-
900131	17,000	-	20,337	-
900132	34,300	-	38,514	-
900140	41,000	-	178,190	-
910000	97,000	-	166,714	-
910010	5,000	-	16,964	-
910020	2,223	-	-	-
910030	4,200	-	80,800	-
910040	1,200	-	1,755	-
910041	5,000	-	6,400	-
950001	-	-6,500	-	-10,262
950011	-	-2,000	-	-4,135
950021	7,000	-	10,171	-
950022	1,600	-	3,152	-
950023	-	-3,000	-	-
980020	83	-	88	-

[1] ADDFEDX (amount of Federal tax paid in addition to that withheld) and FFEDTXX (Federal tax withheld from last pay annualized for all CU members) are both mapped to UCC 950000 as separate records. Records for UCC 950000 that represent FFEDTXX are topcoded through their components (ANFEDTXM) at the MEMB level and thus, these records will not have a DTAB critical value. DTAB records for UCC 950000 that represent ADDFEDX are topcoded for all amounts greater than $30,000

[2] ADDSTAX (amount of state and local taxes paid in addition to that withheld) and FSTATXX (state and local income tax deduction from last pay annualized for all CU members) are both mapped to UCC 950010 as separate records. Records for UCC 950010 that represent FSTATXX are topcoded through their components (ANSTATXM) at the MEMB level and thus, these records will not have a DTAB critical value. Create the DTAB VALUE field for these records by dividing FSTATXX by 12. If FSLTAXX is topcoded, then set VALUE_ to 'T'. DTAB records for UCC 950010 that represent ADDSTAX are topcoded for all amounts greater than $5,000

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

UCC	FMLY variable	Description
800910	FGVXM	Amount of government retirement deducted from last pay, annualized for all CU members
800920	FRRXM	Amount of Railroad Retirement deducted from last pay, annualized for all CU members
800931	FPVTXM	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	FJSSDEDM, FJSSDED1-5	Estimated amount of annual Social Security contribution
900000	FWAGEXM, FWAGEX1-5	Amount received from wage and salary income before deduction
900010	FBSNSXM, FBSNSX1-5	Amount of income from non-farm business
900020	FFARMXM, FFARMX1-5	Amount of income or loss received from own farm
980000	FINCBEFM, FINCBEF1-5	Amount of CU income before taxes
980070	FINCAFTM, FINCAFT1-5	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 2004* 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

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

B. ESTIMATION OF TOTAL AND MEAN EXPENDITURES

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

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

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

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

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

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

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

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

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

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

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

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

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

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

C. ESTIMATION OF MEAN ANNUAL INCOME

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

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

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

VI. RELIABILITY STATEMENT

A. DESCRIPTION OF SAMPLING ERROR AND NONSAMPLING ERROR

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

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

(1) The chances that an estimate from a given sample would differ from a complete census figure by less than one standard error are approximately 68 out of 100.

(2) The chances that the difference would be less than 1.6 times the standard error are approximately 90 out of 100.

(3) The chances that the difference would be less than two times the standard error are approximately 95 out of 100.

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

B. ESTIMATING SAMPLING ERROR

1. *VARIANCE ESTIMATION*

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

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

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

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

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

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

and

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

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

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

The standard error of the mean, *S.E.*($\bar{X}$), is defined as the square root of the variance of the mean. *S.E.*($\bar{X}$), is used to obtain confidence intervals that evaluate how close the estimate may be to the true population mean. A 95 percent confidence interval can be constructed around an estimate, bounded by values 1.96 times the standard error less than and greater than the estimate. For example, the average weekly expenditure for beef for All CUs in 2004 was $5.10. The standard error for this estimate is $0.11. Hence, the 95 percent confidence interval around this estimate is from $4.88 to $5.32. Therefore, we could conclude with 95 percent confidence that the mean weekly expenditures for beef all CUs in 2004 lies within the interval $4.88 to $5.32.

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 2004 the estimated average weekly expenditures for total food for CUs in the *$30,000 to $39,999* income range is $90.84 and the estimate for CUs in the *$40,000 to $49,999* income range is $99.27. The apparent difference between the two mean expenditures is $99.27 – $90.84 = $8.43. The standard error on the estimate of $90.84 is $3.00 and the estimated standard error for the $99.27 estimate is $2.88. The standard error (S.E.) of a difference is approximately equal to

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

where

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

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

$$\sqrt{\left((3.00)^2 + (2.88)^2\right)} = 4.16$$

This means that the 95 percent confidence interval around the difference is from $0.28 to $16.58. 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

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

where

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

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

VII. MICRODATA VERIFICATION AND ESTIMATION METHODOLOGY

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

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

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

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

```
1      /*************************************************************************/
2      /* PROGRAM NAME:  CEX DIARY SURVEY SAMPLE PROGRAM (SAS)                  */
3      /* LOCATION: D:\PROGRAMS                                                 */
4      /* FUNCTION: CREATE A DIARY SURVEY EXPENDITURE TABLE BY INCOME CLASS USING */
5      /*           MICRODATA FROM THE BUREAU OF LABOR STATISTIC'S CONSUMER      */
6      /*           EXPENDITURE SURVEY.                                         */
7      /*                                                                       */
8      /* WRITTEN BY:  ERIC KEIL                                                */
9      /* MODIFICATIONS:                                                        */
10     /* DATE-      MODIFIED BY-      REASON-                                  */
11     /* -----      ------------      -------                                  */
12     /* 03/21/02   ERIC KEIL         IMPROVE EFFICIENCY                       */
13     /* 10/22/03   ERIC KEIL         UPDATE FOR 2002 DATA                     */
14     /* 11/20/03   ERIC KEIL         INCLUDE ROUTINE TO AGGREGATE EASIER      */
15     /*                                                                       */
16     /*  FOR SAS VERSION 8 OR HIGHER                                          */
17     /*                                                                       */
18     /*************************************************************************/

19
20
21   %LET YEAR = 2004;
22   %LET DRIVE = D;
23
24
25     /*************************************************************************/
26     /* STEP1: READ IN THE STUB PARAMETER FILE AND CREATE FORMATS             */
27     /* --------------------------------------------------------------------- */
28     /* 1 CONVERTS THE STUB PARAMETER FILE INTO A LABEL FILE FOR OUTPUT       */
29     /* 2 CONVERTS THE STUB PARAMETER FILE INTO AN EXPENDITURE AGGREGATION FILE */
30     /* 3 CREATES FORMATS FOR USE IN OTHER PROCEDURES                         */
31     /*************************************************************************/

32
33
34   %LET YR1 = %SUBSTR(&YEAR,3,2);
35   LIBNAME D&YR1 "&DRIVE.:\DIARY&YR1";
NOTE: Libref D04 was successfully assigned as follows:
      Engine:        V8
      Physical Name: D:\DIARY04
36
37
38   DATA STUBFILE (KEEP= COUNT TYPE LEVEL TITLE UCC SURVEY GROUP LINE);
39     INFILE "&DRIVE.:\PROGRAMS\DSTUB&YEAR..TXT"
40     PAD MISSOVER;
41     INPUT @1 TYPE $1. @ 4 LEVEL $1. @7 TITLE $60. @70 UCC $6.
42           @80 SURVEY $1. @86 GROUP $7.;
43     IF (TYPE = '1');
44     IF GROUP IN ('CUCHARS' 'FOOD' 'EXPEND' 'INCOME');
45     IF SURVEY = 'T' THEN DELETE;
46       RETAIN COUNT 9999;
47       COUNT + 1;
48       LINE = PUT(COUNT, $5.)||LEVEL ;
WARNING: Variable COUNT has already been defined as numeric.
49       /* READS IN THE STUB PARAMETER FILE AND CREATES LINE NUMBERS FOR UCCS */
50       /* A UNIQUE LINE NUMBER IS ASSIGNED TO EACH EXPENDITURE LINE ITEM     */

51   RUN;

NOTE: The infile "D:\PROGRAMS\DSTUB2004.TXT" is:
      File Name=D:\PROGRAMS\DSTUB2004.TXT,
      RECFM=V,LRECL=256

NOTE: 773 records were read from the infile "D:\PROGRAMS\DSTUB2004.TXT".
      The minimum record length was 105.
      The maximum record length was 134.
NOTE: The data set WORK.STUBFILE has 459 observations and 8 variables.
NOTE: DATA statement used:
      real time           5.06 seconds
      cpu time            0.01 seconds


52
53
54   DATA AGGFMT1 (KEEP= UCC LINE LINE1-LINE10);
55     SET STUBFILE;
56     LENGTH LINE1-LINE10 $6.;
57       ARRAY LINES(9) LINE1-LINE9;
58         IF (UCC > 'A') THEN
```

Sets the calendar year and drive used as macro variables that can be used throughout the program.

Reads in the aggregation stub file and dynamically creates numbers associated with each expenditure line item.

Note: This aggregation file can be modified to accommodate any customized aggregation scheme.

One needs only to make sure that the column start positions in the file match the start positions in the input statement.

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

```
59           LINES(SUBSTR(LINE,6,1)) = LINE;
60         RETAIN LINE1-LINE9;
61         IF (UCC < 'A')  THEN
62           LINE10 = LINE;
63     IF (LINE10);
64   RUN;

NOTE: Character values have been converted to numeric values at the places given by:
(Line):(Column).
      59:15   63:7
NOTE: There were 459 observations read from the data set WORK.STUBFILE.
NOTE: The data set WORK.AGGFMT1 has 330 observations and 12 variables.
NOTE: DATA statement used:
      real time           0.06 seconds
      cpu time            0.01 seconds


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

NOTE: There were 330 observations read from the data set WORK.AGGFMT1.
NOTE: The data set WORK.AGGFMT1 has 330 observations and 12 variables.
NOTE: PROCEDURE SORT used:
      real time           0.01 seconds
      cpu time            0.01 seconds


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

NOTE: There were 330 observations read from the data set WORK.AGGFMT1.
NOTE: The data set WORK.AGGFMT2 has 3300 observations and 4 variables.
NOTE: PROCEDURE TRANSPOSE used:
      real time           0.09 seconds
      cpu time            0.00 seconds


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

NOTE: Character values have been converted to numeric values at the places given by:
(Line):(Column).
      81:8
NOTE: There were 3300 observations read from the data set WORK.AGGFMT2.
NOTE: The data set WORK.AGGFMT has 1687 observations and 2 variables.
NOTE: DATA statement used:
      real time           0.00 seconds
      cpu time            0.00 seconds


86
87
88   PROC SQL NOPRINT;
89     SELECT UCC, LINE, COUNT(*)
90     INTO  :UCCS SEPARATED BY " ",
91           :LINES SEPARATED BY " ",
92           :CNT
93     FROM AGGFMT;
NOTE: The query requires remerging summary statistics back with the original data.
94     QUIT;
NOTE: PROCEDURE SQL used:
      real time           0.65 seconds
      cpu time            0.00 seconds
```

```
95   RUN;
96
97
98   %MACRO MAPPING;
99     %DO  I = 1  %TO  &CNT;
100      "%SCAN(&UCCS,&I,%STR( ))" = "%SCAN(&LINES,&I,%STR( ))"
101    %END;
102  %MEND MAPPING;
103
104
105  DATA LBLFMT (RENAME=(LINE= START TITLE= LABEL));
106    SET STUBFILE (KEEP= LINE TITLE);
107    RETAIN FMTNAME 'LBLFMT' TYPE 'C';
108    /* LABEL FILE. LINE NUMBERS ARE ASSIGNED A TEXT LABEL */
109    /* DATASET CONSTRUCTED TO BE READ INTO A PROC FORMAT  */
110  RUN;

NOTE: There were 459 observations read from the data set WORK.STUBFILE.
NOTE: The data set WORK.LBLFMT has 459 observations and 4 variables.
NOTE: DATA statement used:
      real time           0.00 seconds
      cpu time            0.00 seconds


111
112
113  PROC FORMAT;
114
115    VALUE $AGGFMT (MULTILABEL)
116      %MAPPING
117      OTHER= 'OTHER';
NOTE: Format $AGGFMT has been output.
118      /* CREATE AGGREGATION FORMAT */
119
120
121    VALUE $INC (MULTILABEL)
122      '01' = '01'
123      '01' = '10'
124      '02' = '02'
125      '02' = '10'
126      '03' = '03'
127      '03' = '10'
128      '04' = '04'
129      '04' = '10'
130      '05' = '05'
131      '05' = '10'
132      '06' = '06'
133      '06' = '10'
134      '07' = '07'
135      '07' = '10'
136      '08' = '08'
137      '08' = '10'
138      '09' = '09'
139      '09' = '10';
NOTE: Format $INC has been output.
140      /* CREATE INCOME CLASS FORMAT */
141  RUN;

NOTE: PROCEDURE FORMAT used:
      real time           10.46 seconds
      cpu time            8.54 seconds


142
143
144  PROC FORMAT LIBRARY= WORK  CNTLIN= LBLFMT;
NOTE: Format $LBLFMT has been output.
145    /* CREATE LABEL FILE FORMATS */
146  RUN;

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

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

147
148
149    /*************************************************************************/
150    /* STEP2: READ IN ALL NEEDED DATA FROM THE CD-ROM                        */
```

Creates a Dataset that can be used to associate titles with line numbers with a format procedure.

Formats:

Puts the aggregation scheme into a SAS format.

Puts the income groupings into a SAS format.

Note: The multilabel option is necessary in the aggregation format and income format since multiple mappings occur. This option is available in SAS V8 or higher.

Puts the titles into a SAS format for use in the final output.

```
151    /* ------------------------------------------------------------------------ */
152    /* 1 READ IN THE DIARY FMLY FILES                                           */
153    /* 2 READ IN THE DIARY EXPM AND DTAB FILES                                  */
154    /* 3 MERGE FMLY AND EXPENDITURE FILES TO DERIVE WEIGHTED EXPENDITURES       */
155    /**************************************************************************/

156
157
158  DATA FMLY (KEEP = NEWID INCLASS REPWT1-REPWT45);
159    SET D&YR1..FMLD&YR1.1
160        D&YR1..FMLD&YR1.2
161        D&YR1..FMLD&YR1.3
162        D&YR1..FMLD&YR1.4;
163        BY NEWID;
164        /* READ IN FMLY FILE DATA */
165
166      ARRAY REPS_A(45) WTREP01-WTREP44 FINLWT21;
167      ARRAY REPS_B(45) REPWT1-REPWT45;
168
169        DO i = 1 TO 45;
170        IF REPS_A(i) > 0 THEN
171           REPS_B(i) = (REPS_A(i) / 4);
172           ELSE REPS_B(i) = 0;
173        END;
174        /* ADJUST WEIGHTS TO COMPENSATE FOR HAVING FOUR QUARTERS OF DATA */
175  RUN;

NOTE: There were 3534 observations read from the data set D04.FMLD041.
NOTE: There were 3835 observations read from the data set D04.FMLD042.
NOTE: There were 3780 observations read from the data set D04.FMLD043.
NOTE: There were 3768 observations read from the data set D04.FMLD044.
NOTE: The data set WORK.FMLY has 14917 observations and 47 variables.
NOTE: DATA statement used:
      real time           15.06 seconds
      cpu time            0.34 seconds


176
177
178
179  DATA EXPEND (KEEP = NEWID UCC COST);
180    SET D&YR1..DTBD&YR1.1 (RENAME=(AMOUNT=COST))
181        D&YR1..DTBD&YR1.2 (RENAME=(AMOUNT=COST))
182        D&YR1..DTBD&YR1.3 (RENAME=(AMOUNT=COST))
183        D&YR1..DTBD&YR1.4 (RENAME=(AMOUNT=COST))
184        D&YR1..EXPD&YR1.1
185        D&YR1..EXPD&YR1.2
186        D&YR1..EXPD&YR1.3
187        D&YR1..EXPD&YR1.4;
188    BY NEWID;
189    /* READ IN INCOME AND EXPENDITURE DATA */
190  RUN;

NOTE: There were 62015 observations read from the data set D04.DTBD041.
NOTE: There were 66974 observations read from the data set D04.DTBD042.
NOTE: There were 65371 observations read from the data set D04.DTBD043.
NOTE: There were 65053 observations read from the data set D04.DTBD044.
NOTE: There were 143089 observations read from the data set D04.EXPD041.
NOTE: There were 157261 observations read from the data set D04.EXPD042.
NOTE: There were 150715 observations read from the data set D04.EXPD043.
NOTE: There were 149712 observations read from the data set D04.EXPD044.
NOTE: The data set WORK.EXPEND has 860190 observations and 3 variables.
NOTE: DATA statement used:
      real time           33.51 seconds
      cpu time            0.53 seconds


191
192
193
194  DATA PUBFILE (KEEP = NEWID INCLASS UCC RCOST1-RCOST45);
195    MERGE FMLY   (IN = INFAM)
196          EXPEND (IN = INEXP);
197    BY NEWID;
198    IF INEXP AND INFAM;
199
200    IF COST = .  THEN
201       COST = 0;
202
203       ARRAY REPS_A(45) REPWT1-REPWT45;
```

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

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

Reads in all DTAB income data and EXPN expenditure data.

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

Merges the FMLY and EXPEND data sets together and changes missing cost values to zero.

Weights the cost values by

```
204       ARRAY REPS_B(45) RCOST1-RCOST45;
205
206       DO i = 1 TO 45;
207         IF REPS_A(i)> 0
208           THEN REPS_B(i) = (REPS_A(i) * COST);
209           ELSE REPS_B(i) = 0;
210       END;
211       /* MERGE FMLY FILE WEIGHTS AND CHARACTERISTICS WITH EXPN/DTAB COSTS */
212       /* MULTIPLY COSTS BY WEIGHTS TO DERIVE WEIGHTED COSTS               */

213  RUN;

NOTE: There were 14917 observations read from the data set WORK.FMLY.
NOTE: There were 860190 observations read from the data set WORK.EXPEND.
NOTE: The data set WORK.PUBFILE has 860190 observations and 48 variables.
NOTE: DATA statement used:
      real time           37.87 seconds
      cpu time            27.03 seconds


214
215
216    /*************************************************************************/
217    /* STEP3: CALCULATE POPULATIONS                                          */
218    /* --------------------------------------------------------------------- */
219    /* 1 SUM ALL 45 WEIGHT VARIABLES TO DERIVE REPLICATE POPULATIONS         */
220    /* 2 FORMAT FOR CORRECT COLUMN CLASSIFICATIONS                           */
221    /*************************************************************************/

222
223
224  PROC SUMMARY NWAY DATA=FMLY;
225    CLASS INCLASS / MLF;
226    VAR REPWT1-REPWT45;
227    FORMAT INCLASS $INC.;
228    OUTPUT OUT = POP (DROP = _TYPE_ _FREQ_) SUM = RPOP1-RPOP45;
229    /* SUMS WEIGHTS TO CREATE POPULATIONS PER REPLICATE */
230    /* FORMATS TO CORRECT COLUMN CLASSIFICATIONS        */
231  RUN;

NOTE: There were 14917 observations read from the data set WORK.FMLY.
NOTE: The data set WORK.POP has 10 observations and 46 variables.
NOTE: PROCEDURE SUMMARY used:
      real time           1.29 seconds
      cpu time            0.10 seconds


232
233
234
235    /*************************************************************************/
236    /* STEP4: CALCULATE WEIGHTED AGGREGATE EXPENDITURES                      */
237    /* --------------------------------------------------------------------- */
238    /* 1 SUM THE 45 REPLICATE WEIGHTED EXPENDITURES TO DERIVE AGGREGATES     */
239    /* 2 FORMAT FOR CORRECT COLUMN CLASSIFICATIONS AND AGGREGATION SCHEME    */
240    /*************************************************************************/

241
242
243  PROC SUMMARY NWAY DATA=PUBFILE SUMSIZE=MAX COMPLETETYPES;
244    CLASS UCC INCLASS / MLF;
245    VAR RCOST1-RCOST45;
246    FORMAT UCC $AGGFMT. INCLASS $INC.;
247     OUTPUT OUT=AGG (DROP= _TYPE_ _FREQ_  RENAME=(UCC=LINE))
248     SUM = RCOST1-RCOST45;
249    /* SUMS WEIGHTED COSTS PER REPLICATE TO GET AGGREGATES */
250    /* FORMATS INCOME TO CREATE COMPLETE REPORTING COLUMN  */
251    /* FORMATS EXPENDITURES TO CORRECT AGGREGATION SCHEME  */
252  RUN;

NOTE: There were 860190 observations read from the data set WORK.PUBFILE.
NOTE: The data set WORK.AGG has 4510 observations and 47 variables.
NOTE: PROCEDURE SUMMARY used:
      real time           26.87 seconds
      cpu time            24.17 seconds


253
254
255
```

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

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

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

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

```
256    /*************************************************************************/
257    /* STEP5: CALCULTATE MEAN EXPENDITURES                                   */
258    /* --------------------------------------------------------------------- */
259    /* 1 READ IN POPULATIONS AND LOAD INTO MEMORY USING A 2 DIMENSIONAL ARRAY  */
260    /*   POPULATIONS ARE ASSOCIATED BY INCLASS(i), AND REPLICATE(j)          */
261    /* 2 READ IN AGGREGATE EXPENDITURES FROM AGG DATASET                     */
262    /*   CALCULATE MEANS BY DIVIDING AGGREGATES BY CORRECT SOURCE POPULATIONS  */
263    /* 4 CALCULATE STANDARD ERRORS USING REPLICATE FORMULA                   */
264    /*************************************************************************/

265
266
267  DATA TAB1 (KEEP = LINE MEAN SE);
268
269    /* READS IN POP DATASET. _TEMPORARY_ LOADS POPULATIONS INTO SYSTEM MEMORY  */

270    ARRAY POP{01:10,45} _TEMPORARY_;
271    IF _N_ = 1 THEN DO i = 1 TO 10;
272      SET POP;
273      ARRAY REPS(45) RPOP1-RPOP45;
274        DO j = 1 TO 45;
275          POP{INCLASS,j} = REPS(j);
276        END;
277      END;
278
279    /* READS IN AGG DATASET AND CALCULATES MEANS BY DIVIDING BY POPULATIONS  */

280    SET AGG (KEEP = LINE INCLASS RCOST1-RCOST45);
281      ARRAY AGGS(45) RCOST1-RCOST45;
282      ARRAY AVGS(45) MEAN1-MEAN44 MEAN;
283        DO k = 1 TO 45;
284          IF AGGS(k) = . THEN AGGS(k) = 0;
285          AVGS(k) = AGGS(k) / POP{INCLASS,k};
286        END;
287
288    /* CALCULATES STANDARD ERRORS USING REPLICATE FORMULA  */
289    ARRAY RMNS(44) MEAN1-MEAN44;
290    ARRAY DIFF(44) DIFF1-DIFF44;
291      DO n = 1 TO 44;
292        DIFF(n) = (RMNS(n) - MEAN)**2;
293      END;
294    SE = SQRT((1/44)*SUM(OF DIFF(*)));
295  RUN;

NOTE: Character values have been converted to numeric values at the places given by:
(Line):(Column).
      275:13   285:33
NOTE: There were 10 observations read from the data set WORK.POP.
NOTE: There were 4510 observations read from the data set WORK.AGG.
NOTE: The data set WORK.TAB1 has 4510 observations and 3 variables.
NOTE: DATA statement used:
      real time           0.64 seconds
      cpu time            0.43 seconds


296
297
298
299    /*************************************************************************/
300    /* STEP6: TABULATE EXPENDITURES                                          */
301    /* --------------------------------------------------------------------- */
302    /* 1 ARRANGE DATA INTO TABULAR FORM                                      */
303    /* 2 SET OUT DIARY POPULATIONS FOR POPULATION LINE ITEM                  */
304    /* 3 INSERT POPULATION LINE INTO TABLE                                   */
305    /* 4 INSERT ZERO EXPENDITURE LINE ITEMS INTO TABLE FOR COMPLETENESS      */
306    /*************************************************************************/

307
308
309  PROC TRANSPOSE DATA=TAB1 OUT=TAB2
310    NAME = ESTIMATE PREFIX = INCLASS;
311    BY LINE;
312    VAR MEAN SE;
313    /*ARRANGE DATA INTO TABULAR FORM */
314  RUN;

NOTE: There were 4510 observations read from the data set WORK.TAB1.
NOTE: The data set WORK.TAB2 has 902 observations and 12 variables.
NOTE: PROCEDURE TRANSPOSE used:
      real time           0.01 seconds
```

This data step calculates means and standard errors:

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

Line 281 reads in the aggregated expenditures.

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

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

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

All populations are put into dataset POP. A special

```
      cpu time            0.00 seconds


315
316
317  PROC TRANSPOSE DATA=POP (KEEP = RPOP45) OUT=CUS
318    NAME = LINE PREFIX = INCLASS;
319    VAR RPOP45;
320    /* SET ASIDE POPULATIONS FROM DIARY */
321  RUN;

NOTE: There were 10 observations read from the data set WORK.POP.
NOTE: The data set WORK.CUS has 1 observations and 11 variables.
NOTE: PROCEDURE TRANSPOSE used:
      real time           0.01 seconds
      cpu time            0.00 seconds


322
323
324  DATA TAB3;
325    SET CUS TAB2;
326    IF LINE = 'RPOP45' THEN DO;
327      LINE = '100001';
328      ESTIMATE = 'N';
329      END;
330    /* INSERT POPULATION LINE ITEM INTO TABLE AND ASSIGN LINE NUMBER */
331  RUN;

NOTE: There were 1 observations read from the data set WORK.CUS.
NOTE: There were 902 observations read from the data set WORK.TAB2.
NOTE: The data set WORK.TAB3 has 903 observations and 12 variables.
NOTE: DATA statement used:
      real time           0.01 seconds
      cpu time            0.00 seconds


332
333
334  DATA TAB;
335    MERGE TAB3 STUBFILE;
336    BY LINE;
337      IF LINE NE '100001' THEN DO;
338        IF SURVEY = 'S' THEN DELETE;
339      END;
340      ARRAY CNTRL(10) INCLASS1-INCLASS10;
341        DO i = 1 TO 10;
342          IF CNTRL(i) = . THEN CNTRL(i) = 0;
343          IF SUM(OF CNTRL(*)) = 0 THEN ESTIMATE = 'MEAN';
344        END;
345
346      IF GROUP IN ('CUCHARS' 'INCOME') THEN DO;
347        IF LAG(LINE) = LINE THEN DELETE;
348      END;
349    /* MERGE STUBFILE BACK INTO TABLE TO INSERT EXPENDITURE LINES */
350    /* THAT HAD ZERO EXPENDITURES FOR THE YEAR                    */
351  RUN;

NOTE: There were 903 observations read from the data set WORK.TAB3.
NOTE: There were 459 observations read from the data set WORK.STUBFILE.
NOTE: The data set WORK.TAB has 832 observations and 20 variables.
NOTE: DATA statement used:
      real time           0.12 seconds
      cpu time            0.03 seconds


352
353
354  PROC TABULATE DATA=TAB;
355    CLASS LINE / GROUPINTERNAL ORDER=DATA;
356    CLASS ESTIMATE;
357    VAR INCLASS1-INCLASS10;
358    FORMAT LINE $LBLFMT.;
359
360      TABLE (LINE * ESTIMATE), (INCLASS10 INCLASS1 INCLASS2 INCLASS3 INCLASS4

361                                INCLASS5  INCLASS6 INCLASS7 INCLASS8 INCLASS9)

362      *SUM='' / RTS=25;
363      LABEL ESTIMATE=ESTIMATE LINE=LINE
```

dataset, CUS, is created specifically for inserting the full US population into the output.

Population totals per income class are inserted into the output.

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

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

```
364            INCLASS1='LESS THAN $5,000'   INCLASS2='$5,000 TO $9,999'
365            INCLASS3='$10,000 TO $14,999' INCLASS4='$15,000 TO $19,999'
366            INCLASS5='$20,000 TO $29,999' INCLASS6='$30,000 TO $39,999'
367            INCLASS7='$40,000 TO $49,999' INCLASS8='$50,000 TO $69,999'
368            INCLASS9='$70,000 AND OVER'   INCLASS10='ALL CONSUMER UNITS';
369       OPTIONS NODATE NOCENTER NONUMBER LS=167 PS=MAX;
370       WHERE LINE NE 'OTHER';
371       TITLE "DIARY EXPENDITURES FOR &YEAR BY INCOME BEFORE TAXES";
372   RUN;

NOTE: There were 830 observations read from the data set WORK.TAB.
      WHERE LINE not = 'OTHER';
NOTE: PROCEDURE TABULATE used:
      real time           0.68 seconds
      cpu time            0.10 seconds
```

VIII. DESCRIPTION OF THE SURVEY

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

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

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

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

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

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

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

IX. DATA COLLECTION AND PROCESSING

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

A. BUREAU OF THE CENSUS ACTIVITIES

Data collection activities have been conducted by the Bureau of the Census on a continuing basis since October 1979. Due to differences in format and design, the Diary Survey and the Interview Survey data are collected and processed separately. Preliminary Diary survey data processing carried out

by the Bureau of the Census includes programming the Computer Assisted Personal Interview (CAPI) instrument used to collect household characteristics, keying the expenditure data from the diary questionnaire, clerical data editing, and correcting for inconsistencies in the collected data.

The data collected on household characteristics using CAPI are sent directly to the Census Demographic Surveys Division (DSD). Upon completion of the written questionnaire by respondents, the diaries are sent from the regional offices to the Census National Processing Center (NPC) in Jeffersonville, IN. At the NPC, the expenditure data are keyed and codes are applied. The keyed expenditure data are sent to DSD, where they are merged with the household characteristic data. Inconsistencies and errors in the combined data 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 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 images of the questionnaires. 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. 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 2004 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 MSAs.
- 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 2004 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 (EDs) from the Census that fail to meet the criterion for good addresses for new construction, and all EDs in nonpermit-issuing areas are grouped into the area segment frame.

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

Each selected sample unit is requested to keep two 1-week diaries of expenditures over consecutive weeks. The earliest possible day for placing a diary with a household is predesignated with each day of the week having an equal chance to be the first of the reference week. The diaries are evenly spaced throughout the year.

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 2004 Diary Survey is 68.9% 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* Number of potential diaries	Type A nonresponse	Total respondent interviews
27,385	5,746	21,639	6,722	14,917

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

Prior to the introduction of income imputation in 2004, the distinction between complete and incomplete income reporters was 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 have provided a full accounting of all income from all sources. CUs that reported across-the-board zero income were 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, $^{N(D)041}$(UCC) identifies a new (deleted) UCC beginning in Q041.

A. EXPENDITURE UCC's ON EXPN FILE

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

030310	Round roast, excluding canned
030410	Other beef roast, excluding canned
030510	Round steak, excluding canned
030610	Sirloin steak, excluding canned
030710	Other steak, excluding canned
030810	Other beef, excluding canned
040110	Bacon
040210	Pork chops
040310	Ham, excluding canned
040410	Other pork, excluding canned
040510	Pork sausage, excluding canned
040610	Canned ham
050110	Frankfurters, excluding canned
050210	Bologna, liverwurst, salami, excluding canned
050310	Other lunchmeat
050410	Lamb and organ meats, excluding canned
050900	Mutton, goat, game
060110	Fresh and frozen whole chicken
060210	Fresh or frozen chicken parts
060310	Other poultry
070110	Canned fish, seafood and shellfish
070230	Fresh fish and shellfish
070240	Frozen fish and shellfish
080110	Eggs
090110	Fresh milk all types
090210	Cream
100110	Butter
100210	Cheese
100410	Ice cream and related products, including frozen yogurt
100510	Other dairy products, including powdered milk, and fresh, canned and non-frozen yogurt
110110	Apples
110210	Bananas
110310	Oranges
110410	Other fresh fruits
110510	Citrus fruits excluding oranges
120110	Potatoes
120210	Lettuce
120310	Tomatoes
120410	Other fresh vegetables
130110	Frozen orange juice
130121	Frozen fruits
130122	Frozen fruit juices
130211	Fresh fruit juices
130212	Canned/bottled fruit juices
130310	Canned fruits
130320	Dried fruits
140110	Frozen vegetables
140210	Canned beans
140220	Canned corn
140230	Miscellaneous canned vegetables, not collected in a separate UCC
140310	Other processed dried vegetables, such as squash, not collected in a separate UCC
140320	Dried peas
140330	Dried beans
140340	Dried carrots, onions, leafy greens, and cabbage
140410	Frozen vegetable juices
140420	Fresh/canned vegetable juices
150110	Candy and chewing gum
150211	Sugar
150212	Artificial sweeteners
150310	Jams, jellies, preserves and other sweets

160110	Margarine
160211	Fats and oils
160212	Salad dressings
160310	Non-dairy cream substitutes
160320	Peanut butter
170110	Cola drinks
170210	Other carbonated drinks
170310	Coffee, roasted
170410	Coffee, instant or freeze dried
170510	Noncarbonated fruit flavored drinks, including lemonade-non frozen
170520	Tea
170530	Other noncarbonated beverages and ice, excluding coffee and tea
180110	Soup
180210	Frozen meals
180220	Frozen prepared food other than meals
180310	Potato chips and other snacks
180320	Nuts
180410	Salt, other seasonings & spices
180420	Olives, pickles, relishes
180510	Sauces and gravies
180520	Other condiments
180611	Prepared salads
180612	Prepared desserts
180620	Baby food
180710	Miscellaneous prepared foods including items such as canned meats (see UCC's 030110 - 030810, 040410 - 040510, 050110, 050310 - 050410, 060110 - 060310), fresh and canned ethnic foods, fresh and canned pizza
180720	Vitamin supplements
190111	Lunch at Fast Food
190112	Lunch at Full Service
190113	Lunch at Vending Machine
190114	Lunch at Employer
190115	Lunch at Board
190116	Lunch at Catered Affairs
190211	Dinner at Fast Food
190212	Dinner at Full Service
190213	Dinner at Vending Machine
190214	Dinner at Employer
190215	Dinner at Board
190216	Dinner at Catered Affairs
190311	Snacks at Fast Food
190312	Snacks at Full Service
190313	Snacks at Vend Machine
190314	Snacks at Employer
190315	Snacks at Board
190316	Snacks at Catered Affairs
190321	Breakfast at Fast Food
190322	Breakfast at Full Service
190323	Breakfast at Vending Machine
190324	Breakfast at Employer
190325	Breakfast at Board
190326	Breakfast at Catered Affairs
190911	Board at Fast Food
190912	Board at Full Service
190913	Board at Vending Machine
190914	Board at Employer
190915	Board
190916	Board at Catered Affairs
190921	Catered Affairs at Fast Food
190922	Catered Affairs at Full Service

190923	Catered Affairs at Vending Machine
190924	Catered Affairs at Employer
190925	Catered Affairs at Board
190926	Catered Affairs
200111	Beer and ale at home
200112	Nonalcoholic beer
200210	Whiskey at home
200310	Wine at home
200410	Other alcoholic beverages at home
200511	Beer at Fast Food
200512	Beer at Full Service
200513	Beer at Vending Machine
200514	Beer at Employer
200515	Beer at Board
200516	Beer at Catered Affairs
200521	Wine at Fast Food
200522	Wine at Full Service
200523	Wine at Vending Machine
200524	Wine at Employer
200525	Wine at Board
200526	Wine at Catered Affairs
200531	Alcoholic Beverage Excluding Beer/Wine Fast Food
200532	Alcoholic Beverage Excluding Beer/Wine Full Service
200533	Alcoholic Beverage Excluding Beer/Wine Vending Machine
200534	Alcoholic Beverage Excluding Beer/Wine at Employer
200535	Alcoholic Beverage Excluding Beer/Wine at Board
200536	Alcoholic Beverage Excluding Beer/Wine Catered Affairs
210110	Rent of dwelling, including deposit and parking fees
210210	Lodging away from home
210310	Housing for someone at school
210900	Ground or land rent
220000	Capital improvements, not specified
220110	Fire/extended coverage insurance
220120	Homeowners insurance
220210	Property taxes
220400	Purchase of property or real estate
220510	Capital improvements - commodities
220610	Capital improvements - services
220900	Parking, owned dwelling
230000	Repair, maintenance, and improvements for built in dishwasher, garbage disposal, and range hood
230110	Maintenance of property, including items such as ceiling repair, black top, brick, or masonry work, air conditioner repair, roof and awning repair, house painting, papering, chimney cleaning, electrical inspection, furnace inspection and repair, wiring, pest control, carpenter, plumber, etc...
230120	Installed hard surface flooring
230130	Installed wall-to-wall carpet
230140	Repair disposal, dishwasher, range hood
230900	Maintenance fees, such as service repair of property fees, management fees, homeowners association dues, condo fees, and community pool fees
240110	Paint, wallpaper and supplies
240120	Tools and equipment for painting and papering
240210	Lumber, paneling, tile, awning, glass, plywood, doors, windows, screens, siding, roofing and fencing materials
240220	Blacktop and masonry materials
240310	Plumbing supplies, fixtures and equipment
240320	Electric heating and air conditioning supplies and equipment
240900	Soft surface floor covering
250110	Fuel oil
250210	Bottled or tank gas

250220	Coal
250900	Miscellaneous fuels, such as wood, kerosene, charcoal, oil mix for gas, lawnmower oil, lamp oil, duraflame log, and sterno
260110	Electricity
260210	Utility - natural gas
270000	Telephone service, including public pay phones
270210	Water and sewerage maintenance
270310	Cable/Satellite/Com Antenna Serv
270410	Garbage, trash collection
270900	Septic tank cleaning
270905	Steam heat
280110	Bathroom linens
280120	Bedroom linens
280130	Kitchen and dining room linens
280210	Curtains and drapes, excluding shower
280220	Slipcovers, decorative pillows, and cushions
280230	Sewing materials for slipcovers, curtains, and other home handiwork
280900	Other linens
290110	Mattress and springs
290120	Other bedroom furniture
290210	Sofas
290310	Living room chairs
290320	Living room tables
290410	Kitchen and dining room furniture
290420	Infants' furniture
290430	Patio, porch or outdoor furniture
290440	Modular wall units, shelves or cabinets, or other living room, family or rec-room furniture including desks
300110	Refrigerator, home freezer
300210	Washers
300220	Dryers
300310	Stoves, ovens
300320	Microwave ovens
300330	Portable dishwashers
300410	Window air conditioners
300900	Miscellaneous household appliances
310110	Black and white TV's, and combination of TV with other items
310120	Color TV console and combinations of TV with other items, such as TV with VCR
310130	Color TV (portable and table models) and combinations of portable model color TV with other items, such as TV with radio
310210	Video players, video recorders, video tape player, video tape recorder, video disc player, video camera receiver and recorder, and camcorder
310220	Video cassettes, tapes and discs, laser discs, reels, prerecorded and blank video cassettes, video tapes, and diskettes
310230	Video game cartridges, TV computer games and software, Atari cartridges and supplies, computer joystick, games, and game cartridges
310311	Radio, not installed in vehicles
310312	Phonograph or record player
310313	Tape recorder and player
310320	Sound components, component systems, amplifiers, receivers, turn tables, tape decks, tuners, stereos, speakers, and compact disc sound systems
310331	Miscellaneous sound equipment
310332	Sound equipment accessories
310334	Satellite dishes
310340	Records, tapes, CD's, needles, styli, and record clubs
310900	Accessories for electronic equipment
320110	Room-size rugs and other non-permanent floor coverings
320120	Venetian blinds, window shades and other window coverings
320130	Infants' equipment
320140	Laundry and cleaning equipment

320150	Outdoor equipment
320210	Clocks
320220	Lamps and other lighting fixtures
320231	Other household decorative items, including fireplace equipment and accessories
320232	Telephones and accessories
320310	Plastic dinnerware
320320	China and other dinnerware
320330	Stainless, silver and other flatware
320340	Glassware
320350	Silver serving pieces
320360	Serving pieces other than silver
320370	Nonelectric cookware
320380	Tableware, nonelectric kitchenware
320410	Lawnmowing equipment and other yard machinery, powered and nonpowered
320420	Power tools
320430	Other hardware, including curtain and drapery hardware, rope, portable ladders, sheds, non-permanent shelves and shelving
320511	Electric floor cleaning equipment
320512	Sewing machines
320521	Small electrical kitchen appliances
320522	Portable heating and cooling equipment
320610	Miscellaneous supplies and equipment, such as caulking compound, duct tape, carpet tape, carpet knife, bolts, screws, drill bits, door knobs, tool box, keys, mailbox, gutter screens, clamps, shelf brackets, tool table, work bench, etc...
320620	Permanent hard surface floor covering
320630	Landscaping items, such as grass, grass seed, trees, shrubs, plants, sod, and fork lift
320901	Office furniture for home use
320902	Non-powered tools
320903	Fresh flowers or potted plants
320904	Closet and storage items
320905	Miscellaneous household equipment and parts
320906	Electronic testing equipment
330110	Soaps and detergents, excluding hand soaps
330210	Other laundry and cleaning products
330310	Paper towels, napkins, toilet tissue, facial tissue
330410	Stationery, giftwrap and wrap accessories, greeting cards, pens, pencils, tape
330510	Miscellaneous household products, including paper, plastic and foil products
330610	Lawn and garden supplies, including outdoor plants
340110	Postage
340120	Delivery services
340210	Babysitting or other home care for children
340310	Housekeeping service, such as housekeeping, cooking, maid service, interior decorating, and carpet and upholstery cleaning services
340410	Gardening and lawn care services, such as mowing, tree services, fertilizing, and yard work
340510	Moving, storage, and freight express
340520	Non-clothing household laundry or dry cleaning not coin operated
340530	Non-clothing household laundry or dry cleaning - coin-operated
340610	Repair of television, radio, and sound equipment, excluding installed in vehicles
340620	Repair of household appliances; including stove, vacuum, washer, dryer, sewing machine, refrigerator, and calculator; excluding garbage disposal, range hood, and built-in dishwasher
340630	Furniture repair, refurnishing, or reupholstery
340901	Rental or repair of lawnmowing equipment and other yard machinery, power and non-power tools
340903	Miscellaneous home services and small repair jobs not already specified
340904	Rental of furniture
340906	Care for invalids, convalescents, handicapped or elderly persons in the CU
340907	Rental of household equipment items, such as refrigerators, home freezers, washers, microwave ovens, dishwashers, water cooler, stroller, china; excluding tools and lawn/garden equipment

340908	Rental of office equipment for non-business use, includes items such as calculators, typewriters, projectors, and other office machines.
340909	Rental of TV or radio sound equipment
340913	Repair and alterations of miscellaneous household equipment, furnishings, and textiles
350110	Tenants' insurance
360110	Men's suits
360120	Men's sportcoats and tailored jackets
360210	Men's coats, jackets, and furs
360311	Men's underwear
360312	Men's hosiery
360320	Men's sleepwear/loungewear
360330	Men's accessories
360340	Men's sweaters and vests
360350	Men's active sportswear
360410	Men's shirts
360511	Men's pants
360512	Men's shorts and shorts sets, excluding athletic
360901	Men's uniforms
370110	Boys' coats, jackets, and furs
370120	Boys' sweaters
370130	Boys' shirts
370211	Boys' underwear
370212	Boys' sleepwear/loungewear
370213	Boys' hosiery
370220	Boys' accessories
370311	Boys' suits, sportcoats, and vests
370312	Boys' pants
370313	Boys' shorts and shorts sets, excluding athletic
370901	Boys' uniforms and active sportswear
380110	Women's coats, jackets and furs
380210	Women's dresses
380311	Women's sportcoats and tailored jackets
380312	Women's vests, sweaters, and sweater sets
380313	Women's shirts, tops, and blouses
380320	Women's skirts and culottes
380331	Women's pants
380332	Women's shorts and shorts sets, excluding athletic
380340	Women's active sportswear
380410	Women's sleepwear/loungewear
380420	Women's undergarments
380430	Women's hosiery
380510	Women's suits
380901	Women's accessories
380902	Women's uniforms
390110	Girls' coats, jackets, and furs
390120	Girls' dresses and suits
390210	Girls' sport coats, tailored jackets, shirts, blouses, sweaters, sweater sets, and vests
390221	Girls' skirts, culottes, and pants
390222	Girls' shorts and shorts sets, excluding athletic
390230	Girls' active sportswear
390310	Girls' undergarments and sleepwear/loungewear
390321	Girls' hosiery
390322	Girls' accessories
390901	Girls' uniforms
400110	Men's footwear
400210	Boys' footwear
400220	Girls' footwear
400310	Women's footwear
410110	Infants' coats, jackets, and snowsuits
410120	Infants' rompers, dresses, and sweaters

410130	Infants' undergarments, including diapers
410140	Infants' sleeping garments
410901	Infants' accessories, hosiery, and footwear
420110	Sewing material for making clothes
420120	Sewing notions, patterns
430110	Watches
430120	Jewelry
430130	Travel items, including luggage, and luggage carriers
440110	Shoe repair and other shoe services
440120	Apparel laundry and dry cleaning - coin-operated
440130	Alteration, repair, tailoring of apparel and accessories
440140	Clothing rental
440150	Watch and jewelry repair
440210	Apparel laundry and dry cleaning not coin operated
440900	Clothing storage
450110	New cars
450210	New trucks, pick-ups, vans, or jeeps
450220	New motorcycles, motor scooters, or mopeds
450310	Lease payment (car lease)
450410	Lease payment (truck/pick-up/van/jeep lease)
460110	Used cars
460901	Used trucks or vans
460902	Used motorcycles, motor scooters, or mopeds
460903	Used aircraft
470111	Gasoline
470112	Diesel fuel
470114	Gasohol
470211	Motor oil
470220	Coolant/antifreeze, oil, brake & transmission fluids, additives, and radiator/cooling system protectant
480110	Tires (new, used or recapped); replacement and mounting of tires, and belting
480212	Vehicle products, such as wax, touch up paint, de-icer, protectant, polish, tar and bug remover, polish cloth, rubbing compound, auto freshener, 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
500110	Vehicle insurance
520111	Vehicle registration - state
520112	Vehicle registration - local
520310	Drivers' license
520410	Vehicle inspection
520511	Auto rental, excluding trips
520521	Truck or van rental, excluding trips
520531	Parking fees at garages, meters, and lots, excluding fees that are costs of property

	ownership in home city
520541	Tolls
520550	Towing charges
520901	Docking and landing fees for boats and planes, boat ramp fees
520902	Rental of motorcycle, motor scooters, moped, etc., including mileage charges
520903	Rental of aircraft, including mileage charges
520904	Rental of non camper-type trailer, such as for boat or cycle
530110	Airline fares
530210	Intercity bus fares
530311	Intracity mass transit fares
530412	Taxi fares
530510	Intercity train fares
530901	Ship fares
530902	Private school bus
530903	Car/van pool & non-motorized transportation
540000	Prescription drugs and medicines
550110	Purchase of eye glasses or contact lenses, excluding exam fee
550210	Over-the-counter drugs
550310	Topicals and dressings, such as band aids, gauze, cotton balls/rolls
550320	Purchase of medical or surgical equipment for general use, such as thermometers, needles/syringes, ice bags, heating pads, (not including band aids, gauze, cotton rolls/balls)
550330	Purchase of supportive or convalescent medical equipment, such as crutches, wheelchairs, braces, and ace bandages
550340	Hearing aids
550410	Nonprescription vitamins
550900	Recreational drugs
560110	Physicians' services
560210	Dental services
560310	Eye exams, treatment or surgery, glass/lens service, glasses repaired
560330	Lab tests and x-rays
560400	Services by medical professionals other than physicians
570000	Hospital care not specified
570220	Care in convalescent in nursing home
570230	Other medical care service, such as ambulance service
570901	Rental of medical or surgical equipment for general use
570902	Repair of medical equipment
570903	Rental of supportive and convalescent equipment
580000	Hospital and health insurance not spec.
580110	Commercial health insurance
580210	Blue Cross or Blue Shield
580310	Health maintenance plans
580901	Medicare payments
590110	Newspapers (single copy and subscriptions)
590210	Magazines and periodicals (single copy and subscriptions)
590220	Books purchased through book clubs
590230	Books not purchased through book clubs
590900	Newsletters
600110	Outboard motor
600120	Unpowered boats, trailers
600130	Powered sports vehicles
600210	Ping pong, pool tables, other similar items, general sports equipment, and health and exercise equipment
600310	Bicycles
600410	Camping equipment
600420	Hunting and fishing equipment
600430	Winter sports equipment
600900	Water sports and miscellaneous sports equipment
610110	Toys, games, hobbies, tricycles, and battery powered riders
610120	Playground equipment
610130	Musical instruments and accessories

610210	Film
610220	Other photographic supplies
610230	Photographic equipment
610310	Pet food
610320	Pets, pet supplies and medicine for pets
610901	Fireworks
610902	Souvenirs
610903	Visual goods
620111	Membership fees for country clubs, health clubs, swimming pools tennis clubs, social or other recreational organizations, civic, service, or fraternal organizations
620112	Membership fees for credit card memberships
620113	Membership fees for automobile service clubs
620121	Fees for participant sports, such as golf, tennis, and bowling
620211	Admission fees for entertainment activities, including lectures, movie, theatre, concert, opera or other musical series
620221	Admission fees to sporting events
620310	Fees for recreational lessons or other instructions
620320	Photographer fees
620330	Film processing
620410	Pet services
620420	Veterinarian expenses for pets
620510	Miscellaneous fees for admissions
620610	Miscellaneous entertainment services
620710	Camp fees
620810	Rental and repair of sports, photographic and music equipment, passport fees
620912	Rental of video cassettes, tapes, and discs
620913	Coin-operated pinball/electronic video games
620915	Sport vehicle rental
620925	Lotteries and Parimutuel Losses
620926	Miscellaneous Fees
630110	Cigarettes
630210	Cigars, pipe tobacco, and other tobacco products
630220	Smoking accessories
630900	Marijuana
640110	Hair care products
640120	Non-electric articles for the hair
640130	Wigs, hairpieces, and toupees
640210	Oral hygiene products, articles
640220	Shaving needs
640310	Cosmetics, perfume, cologne, bath preparations, hand soap, face and body powder, skin care products, nail preparations, manicure and eye make-up implements and accessories
640410	Deodorant, female hygiene products, miscellaneous personal care products and supplies
640420	Electrical personal care appliances
650110	Personal care services for females, including haircuts
650210	Personal care services for males, including haircuts
650900	Rental and repair of personal care appliances
660000	School supplies., etc. - unspec., including reference books not in a set
660110	School books, supplies, and equipment for college
660210	School books, supplies, and equipment for elementary and high school
660310	Encyclopedia and other sets of reference books
660900	School books , supplies, and equipment for day care center, nursery school and other
670110	Tuition for college
670210	Tuition for elementary and high school
670310	Other expenses for day care centers and nursery schools, including tuition
670901	Tuition for other schools
670902	Rentals of books and equipment, and other school-related expenses
680110	Legal fees, excluding real estate closing costs
680140	Funeral, burial or cremation expenses
680210	Safe deposit box rental
680220	Charges for checking accounts and other banking services, excluding safe deposit

680901	Purchase and upkeep of cemetery lots or vaults
680902	Accounting fees
680903	Miscellaneous personal services, advertising, fines, duplicating services
690110	Computers for non-business use, hardware and software excluding video games
690114	Computer information services
690210	Telephone answering devices
690220	Calculators
690230	Typewriters and other office machines for non-business use
999000	Home ownership expense not specified
999900	Taxes not specified

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

[1] for LUNCH
190111, 190112, 190113, 190114, 190115, 190116

[2] for DINNER
190211, 190212, 190213, 190214, 190215, 190216

[3] for SNACKS
190311, 190312, 190313, 190314, 190315, 190316

[4] for BREAKFAST
190321, 190322, 190323, 190324, 190325, 190326

[5] for CATERED AFFAIRS
190921, 190922,190923, 90924, 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 ALCOHLIC BEVERAGES, EXCL. BEER AND WINE
200531, 200532, 200533, 200534, 200535, 200536

B. INCOME AND RELATED UCC's ON DTAB FILE

*L denotes UCC's could have negative values

	800700	Meals received as pay
	800710	Rent received as pay
	800910	Payroll deductions for government retirement
	800920	Payroll deductions for railroad retirement
	800931	Payroll deductions for private pensions
	800932	Non-payroll deposit to individual retirement plan, such as IRA's
	800940	Payroll deductions for social security
	900000	Wages and salaries
*L	900010	Net business income
*L	900020	Net farm income
	900030	Social security and railroad retirement income
	900040	Pensions and annuities

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

The following UCCs 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 UCCs 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 Dstub file in the Programs folder on the CD shows the UCC aggregation used in the sample program. This aggregation scheme may also be found on our website at www.bls.gov\cex.

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

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

A. FMLY FILE

Variable	Start Position	Variable	Start Position	Variable	Start Position
NEWID	1	FAM_SIZE	78	D041FRRX_	203
ADDFEDX	9	FAM__IZE	80	D041FS_AMT1	204
ADDFEDX_	17	FAM_TYPE	81	D041FS_AMT1_	212
ADDOTHX	18	FAM__YPE	82	D041FS_AMT2	213
ADDOTHX_	26	D041FBSNSX	83	D041FS_AMT2_	221
ADDSTAX	27	D041FBSNSX_	91	D041FS_AMT3	222
ADDSTAX_	35	FD_STMPS	92	D041FS_AMT3_	230
AGE_REF	36	FD_S_MPS	93	D041FS_AMT4	231
AGE_REF_	38	FEDREFX	94	D041FS_AMT4_	239
AGE2	39	FEDREFX_	102	D041FS_AMT5	240
AGE2_	41	D041FFARMX	103	D041FS_AMT5_	248
BLS_URBN	42	D041FFARMX_	111	D041FS_AMT6	249
CUTENURE	43	D041FFEDTXX	112	D041FS_AMT6_	257
CUTE_URE	44	D041FFEDTXX_	120	D041FS_AMT7	258
DESCRIP	45	D041FGVX	121	D041FS_AMT7_	266
DESCRIP_	47	D041FGVX_	129	D041FS_DATE1	276
D041DIVX	48	D041FINCAFTX	130	D041FS_D_TE1	284
D041DIVX_	56	D041FINC_FTX	138	D041FS_DATE2	285
EARNCOMP	57	D041FINCBEFX	139	D041FS_D_TE2	293
EARN_OMP	58	D041FINC_EFX	147	D041FS_DATE3	294
D041EARNX	59	FINLWT21	148	D041FS_D_TE3	302
D041EARNX_	67	FIRAX	159	D041FS_DATE4	303
EDUC_REF	68	FIRAX_	167	D041FS_D_TE4	311
EDUC0REF	70	D041FJSSDEDX	168	D041FS_DATE5	312
EDUCA2	71	D041FJSS_EDX	176	D041FS_D_TE5	320
EDUCA2_	73	D041FPVTX	177	D041FS_DATE6	321
EMPLTYP1	74	D041FPVTX_	185	D041FS_D_TE6	329
EMPL_YP1	75	FREEMLX	186	D041FS_DATE7	330
EMPLTYP2	76	FREEMLX_	194	D041FS_D_TE7	338
EMPL_YP2	77	D041FRRX	195	FS_MTHI	348

Variable	Start Position	Variable	Start Position	Variable	Start Position
FS_MTHI_	350	PERSLT18 _	544	WHYNWRK1	668
D041FSS_RRX	351	PERS_T18	546	WHYN_RK1	669
D041FSS_RRX_	359	PERSOT64	547	WHYNWRK2	670
D041FSTATXX	360	PERS_T64	549	WHYN_RK2	671
D041FSTATXX_	368	D041PERSTAX	550	WK_WRKD1	672
D041FSUPPX	369	D041PERSTAX_	558	WK_W_KD1	674
D041FSUPPX_	377	D041PICK_UP	559	WK_WRKD2	675
D041FWAGEX	378	OCCULIS1	561	WK_W_KD2	677
D041FWAGEX_	386	OCCU_IS1	563	D041WRKRSX	678
HRSPRWK1	387	POPSIZE	564	D041WRKRSX_	686
HRSP_WK1	390	PTAXREFX	565	WTREP01	687
HRSPRWK2	391	PTAX_EFX	573	WTREP02	698
HRSP_WK2	394	RACE2	574	WTREP03	709
D041INC_RNKU	395	RACE2_	575	WTREP04	720
D041INC__NKU	404	REC_FS	576	WTREP05	731
INSREFX	405	REC_FS_	577	WTREP06	742
INSREFX_	413	REF_RACE	578	WTREP07	753
D041INTX	414	REF__ACE	579	WTREP08	764
D041INTX_	422	REGION	580	WTREP09	775
D041JFS_AMT	423	REGION_	581	WTREP10	786
D041JFS_AMT_	431	RESPSTAT	582	WTREP11	797
JGRCFDMV	432	RESP_TAT	583	WTREP12	808
JGRC_DMV	438	D041ROOMX	584	WTREP13	819
JGRCFDWK	439	D041ROOMX_	592	WTREP14	830
JGRC_DWK	445	SALEX	593	WTREP15	841
JGROCYMV	446	SALEX_	601	WTREP16	852
JGRO_YMV	452	SEX_REF	602	WTREP17	863
JGROCYWK	453	SEX_REF_	603	WTREP18	874
JGRO_YWK	459	SEX2	604	WTREP19	885
LUMPX	460	SEX2_	605	WTREP20	896
LUMPX_	468	SMSASTAT	606	WTREP21	907
MARITAL1	469	SSREFX	607	WTREP22	918
MARI_AL1	470	SSREFX_	615	WTREP23	929
NO_EARNR	471	STATREFX	616	WTREP24	940
NO_E_RNR	473	STAT_EFX	624	WTREP25	951
D041NONERNX	474	STRTDAY	625	WTREP26	962
D041NONERNX_	482	STRTMNTH	627	WTREP27	973
OCCEXPNX	483	STRTYEAR	629	WTREP28	984
OCCE_PNX	491	TAXPROPX	633	WTREP29	995
OCCULIS2	492	TAXP_OPX	641	WTREP30	1006
OCCU_IS2	494	TYPOWND	642	WTREP31	1017
D041OTHINX	499	TYPOWND_	643	WTREP32	1028
D041OTHINX_	507	D041UNEMPX	644	WTREP33	1039
OTHRECX	508	D041UNEMPX_	652	WTREP34	1050
OTHRECX_	516	VEHQ	653	WTREP35	1061
OTHREFX	517	VEHQ_	655	WTREP36	1072
OTHREFX_	525	WEEKI	656	WTREP37	1083
D041OTHRNTX	526	WEEKI_	657	WTREP38	1094
D041OTHRNTX_	534	WEEKN	658	WTREP39	1105
D041PENSIONX	535	D041WELFRX	659	WTREP40	1116
D041PENS_ONX	543	D041WELFRX_	667	WTREP41	1127

Variable	Start Position	Variable	Start Position	Variable	Start Position
WTREP42	1138	D041INC__ANK_	1568	N041FFEDTXX4	1897
WTREP43	1149	CUID	1569	N041FFEDTXX5	1905
WTREP44	1160	HORREF1	1576	N041FGVXM	1913
FOODTOT	1171	HORREF1_	1577	N041FGVXM_	1921
FOODHOME	1183	HORREF2	1578	N041FINCAFTM	1922
CEREAL	1195	HORREF2_	1579	N041FINC_FTM	1933
BAKEPROD	1207	N041ALIOTHXM	1580	N041FINCAFT1	1934
BEEF	1219	N041ALIO_HXM	1590	N041FINCAFT2	1943
PORK	1231	N041ALIOTHX1	1591	N041FINCAFT3	1952
OTHMEAT	1243	N041ALIOTHX2	1599	N041FINCAFT4	1961
POULTRY	1255	N041ALIOTHX3	1607	N041FINCAFT5	1970
SEAFOOD	1267	N041ALIOTHX4	1615	N041FINCBEFM	1979
EGGS	1279	N041ALIOTHX5	1623	N041FINC_EFM	1990
MILKPROD	1291	N041ALIOTHXI	1631	N041FINCBEF1	1991
OTHDAIRY	1303	N041CHDOTHXM	1634	N041FINCBEF2	2000
FRSHFRUT	1315	N041CHDO_HXM	1644	N041FINCBEF3	2009
FRSHVEG	1327	N041CHDOTHX1	1645	N041FINCBEF4	2018
PROCFRUT	1339	N041CHDOTHX2	1653	N041FINCBEF5	2027
PROCVEG	1351	N041CHDOTHX3	1661	N041FINCBEFI	2036
SWEETS	1363	N041CHDOTHX4	1669	N041FJSSDEDM	2039
NONALBEV	1375	N041CHDOTHX5	1677	N041FJSS_EDM	2049
OILS	1387	N041CHDOTHXI	1685	N041FJSSDED1	2050
MISCFOOD	1399	N041DIVXM	1688	N041FJSSDED2	2058
FOODAWAY	1411	N041DIVXM_	1698	N041FJSSDED3	2066
ALCBEV	1423	N041DIVX1	1699	N041FJSSDED4	2074
SMOKSUPP	1435	N041DIVX2	1707	N041FJSSDED5	2082
PET_FOOD	1447	N041DIVX3	1715	N041FPVTXM	2090
PERSPROD	1459	N041DIVX4	1723	N041FPVTXM_	2098
PERSSERV	1471	N041DIVX5	1731	N041FRRXM	2099
DRUGSUPP	1483	N041DIVXI	1739	N041FRRXM_	2107
HOUSKEEP	1495	N041FBSNSXM	1742	N041FS_AMTXM	2108
HH_CU_Q	1507	N041FBSNSXM_	1753	N041FS_A_TXM	2116
HH_CU_Q_	1509	N041FBSNSX1	1754	N041FS_AMTX1	2117
HHID	1510	N041FBSNSX2	1763	N041FS_AMTX2	2123
HHID_	1513	N041FBSNSX3	1772	N041FS_AMTX3	2129
CHILDAGE	1514	N041FBSNSX4	1781	N041FS_AMTX4	2135
CHIL_AGE	1515	N041FBSNSX5	1790	N041FS_AMTX5	2141
INCLASS	1516	N041FBSNSXI	1799	N041FS_AMTXI	2147
STATE	1518	N041FFARMXM	1802	N041FSS_RRXM	2150
STATE_	1520	N041FFARMXM_	1813	N041FSS__RXM	2160
D041CHDOTHX	1521	N041FFARMX1	1814	N041FSS_RRX1	2161
D041CHDOTHX_	1529	N041FFARMX2	1823	N041FSS_RRX2	2169
D041ALIOTHX	1530	N041FFARMX3	1832	N041FSS_RRX3	2177
D041ALIOTHX_	1538	N041FFARMX4	1841	N041FSS_RRX4	2185
CHDLMPX	1539	N041FFARMX5	1850	N041FSS_RRX5	2193
CHDLMPX_	1547	N041FFARMXI	1859	N041FSS_RRXI	2201
D041POVERTY	1548	N041FFEDTXXM	1862	N041FSTATXXM	2204
D041POVERTY_	1549	N041FFED_XXM	1872	N041FSTA_XXM	2214
POVLEV	1550	N041FFEDTXX1	1873	N041FSTATXX1	2215
POVLEV_	1558	N041FFEDTXX2	1881	N041FSTATXX2	2223
D041INC_RANK	1559	N041FFEDTXX3	1889	N041FSTATXX3	2231

Variable	Start Position	Variable	Start Position	Variable	Start Position
N041FSTATXX4	2239	N041OTHRNTX2	2586	N041WRKRSXM	2887
N041FSTATXX5	2247	N041OTHRNTX3	2595	N041WRKRSXM_	2897
N041FSUPPXM	2255	N041OTHRNTX4	2604	N041WRKRSX1	2898
N041FSUPPXM_	2265	N041OTHRNTX5	2613	N041WRKRSX2	2906
N041FSUPPX1	2266	N041OTHRNTXI	2622	N041WRKRSX3	2914
N041FSUPPX2	2274	N041PENSIONM	2625	N041WRKRSX4	2922
N041FSUPPX3	2282	N041PENS_ONM	2635	N041WRKRSX5	2930
N041FSUPPX4	2290	N041PENSION1	2636	N041WRKRSXI	2938
N041FSUPPX5	2298	N041PENSION2	2644	N041PICKCODE	2941
N041FSUPPXI	2306	N041PENSION3	2652	N041ALIOTHB	2944
N041FWAGEXM	2309	N041PENSION4	2660	N041ALIOTHB_	2946
N041FWAGEXM_	2319	N041PENSION5	2668	N041ALIOTHBX	2947
N041FWAGEX1	2320	N041PENSIONI	2676	N041ALIO_HBX	2953
N041FWAGEX2	2328	N041PERSTAXM	2679	N041CHDLMPB	2954
N041FWAGEX3	2336	N041PERS_AXM	2690	N041CHDLMPB_	2956
N041FWAGEX4	2344	N041PERSTAX1	2691	N041CHDLMPBX	2957
N041FWAGEX5	2352	N041PERSTAX2	2700	N041CHDL_PBX	2963
N041FWAGEXI	2360	N041PERSTAX3	2709	N041CHDOTHB	2964
N041INC_RNKM	2363	N041PERSTAX4	2718	N041CHDOTHB_	2966
N041INC__NKM	2372	N041PERSTAX5	2727	N041CHDOTHBX	2967
N041INC_RNK1	2373	N041POVERTYM	2736	N041CHDO_HBX	2973
N041INC_RNK2	2382	N041POVE_TYM	2737	N041DIVB	2974
N041INC_RNK3	2391	N041POVERTY1	2738	N041DIVB_	2976
N041INC_RNK4	2400	N041POVERTY2	2739	N041DIVBX	2977
N041INC_RNK5	2409	N041POVERTY3	2740	N041DIVBX_	2983
N041INTXM	2418	N041POVERTY4	2741	N041INTB	2984
N041INTXM_	2428	N041POVERTY5	2742	N041INTB_	2986
N041INTX1	2429	N041ROOMXM	2743	N041INTBX	2987
N041INTX2	2437	N041ROOMXM_	2752	N041INTBX_	2993
N041INTX3	2445	N041ROOMX1	2753	N041LUMPB	2994
N041INTX4	2453	N041ROOMX2	2760	N041LUMPB_	2996
N041INTX5	2461	N041ROOMX3	2767	N041LUMPBX	2997
N041INTXI	2469	N041ROOMX4	2774	N041LUMPBX_	3003
N041JFS_AMTM	2472	N041ROOMX5	2781	N041OTHINB	3004
N041JFS__MTM	2480	N041ROOMXI	2788	N041OTHINB_	3006
N041JFS_AMT1	2481	N041UNEMPXM	2791	N041OTHINBX	3007
N041JFS_AMT2	2487	N041UNEMPXM_	2799	N041OTHINBX_	3013
N041JFS_AMT3	2493	N041UNEMPX1	2800	N041OTHLOSSB	3014
N041JFS_AMT4	2499	N041UNEMPX2	2806	N041OTHL_SSB	3016
N041JFS_AMT5	2505	N041UNEMPX3	2812	N041OTHLOSBX	3017
N041OTHINXM	2511	N041UNEMPX4	2818	N041OTHL_SBX	3023
N041OTHINXM_	2521	N041UNEMPX5	2824	N041PNSIONB	3024
N041OTHINX1	2522	N041UNEMPXI	2830	N041PNSIONB_	3026
N041OTHINX2	2530	N041WELFRXM	2833	N041PNSIONBX	3027
N041OTHINX3	2538	N041WELFRXM_	2843	N041PNSI_NBX	3033
N041OTHINX4	2546	N041WELFRX1	2844	N041ROOMLOSB	3034
N041OTHINX5	2554	N041WELFRX2	2852	N041ROOM_OSB	3036
N041OTHINXI	2562	N041WELFRX3	2860	N041ROOMLSBX	3037
N041OTHRNTXM	2565	N041WELFRX4	2868	N041ROOM_SBX	3043
N041OTHR_TXM	2576	N041WELFRX5	2876	N041SALEB	3044
N041OTHRNTX1	2577	N041WELFRXI	2884	N041SALEB_	3046

Variable	Start Position	Variable	Start Position	Variable	Start Position
N041SALEBX	3047	N041UNEMPBX_	3063	N041WRKRSB	3074
N041SALEBX_	3053	N041WELFRB	3064	N041WRKRSB_	3076
N041UNEMPB	3054	N041WELFRB_	3066	N041WRKRSBX	3077
N041UNEMPB_	3056	N041WELFRBX	3067	N041WRKRSBX_	3083
N041UNEMPBX	3057	N041WELFRBX_	3073		

B. MEMB FILE

Variable	Start Position	Variable	Start Position	Variable	Start Position
_NEWID	1	MARITAL	133	IN_COLL_	245
AGE	9	MEMBNO	135	MEDICARE	246
AGE_	11	OCCULIST	137	MEDI_ARE	247
D041ANFEDTXX	12	OCCU_IST	139	PAYPERD	248
D041ANFE_TXX	20	PVTX	142	PAYPERD_	249
D041ANGVX	21	PVTX_	150	HORIGIN	250
D041ANGVX_	29	RRX	153	HISPANIC	251
D041ANPVTX	30	RRX_	161	HISP_NIC	252
D041ANPVTX_	38	SCHLNCHQ	162	MEMBRACE	253
D041ANRRX	39	SCHL_CHQ	164	RC_WHITE	254
D041ANRRX_	47	SCHLNCHX	165	RC_W_ITE	255
D041ANSTATXX	48	SCHL_CHX	173	RC_BLACK	256
D041ANST_TXX	56	SEX	174	RC_B_ACK	257
ANYRAIL	57	D041SLFEMPSS	176	RC_NATAM	258
ANYRAIL_	58	D041SLFE_PSS	182	RC_N_TAM	259
ANYSSINC	59	D041SS_RRX	183	RC_ASIAN	260
ANYS_INC	60	D041SS_RRX_	191	RC_A_IAN	261
D041BSNSX	61	STA_SUPP	192	RC_PACIL	262
D041BSNSX_	69	STA__UPP	193	RC_P_CIL	263
CU_CODE1	70	STATXX	194	RC_OTHER	264
EDUCA	72	STATXX_	202	RC_O_HER	265
EDUCA_	74	D041SUPPX	203	RC_DK	266
EMPLTYPE	75	D041SUPPX_	211	RC_DK_	267
EMPL_YPE	76	US_SUPP	212	ASIAN	268
D041FARMX	77	US_SUPP_	213	ASIAN_	269
D041FARMX_	85	D041WAGEX	214	N041ANFEDTXM	268
FEDTXX	86	D041WAGEX_	222	N041ANFE_TXM	276
FEDTXX_	94	WHYNOWRK	223	N041ANGVXM	277
GROSPAYX	95	WHYN_WRK	224	N041ANGVXM_	285
GROS_AYX	103	WKS_WRKD	225	N041ANPVTXM	286
GVX	104	WKS__RKD	227	N041ANPVTXM_	294
GVX_	112	SS_RRQ	228	N041ANRRXM	295
HRSPERWK	113	SS_RRQ_	232	N041ANRRXM_	303
HRSP_RWK	116	D041SOCRRX	233	N041ANSTATXM	304
IRAX	117	D041SOCRRX_	241	N041ANST_TXM	312
IRAX_	125	ARM_FORC	242	N041BSNSXM	313
D041JSSDEDX	126	ARM__ORC	243	N041BSNSXM_	324
D041JSSDEDX_	132	IN_COLL	244		

Variable	Start Position	Variable	Start Position	Variable	Start Position
N041BSNSX1	325	N041SLFEMPS5_	505	N041WAGEX2	689
N041BSNSX2	334	N041SOCRRXM	511	N041WAGEX3	697
N041BSNSX3	343	N041SOCRRXM_	521	N041WAGEX4	705
N041BSNSX4	352	N041SOCRRX1	522	N041WAGEX5	713
N041BSNSX5	361	N041SOCRRX2	530	N041WAGEXI	721
N041BSNSXI	370	N041SOCRRX3	538	N041BSNSB	724
N041FARMXM	373	N041SOCRRX4	546	N041BSNSB_	726
N041FARMXM_	384	N041SOCRRX5	554	N041BSNSBX	727
N041FARMX1	385	N041SS_RRXM	562	N041BSNSBX_	733
N041FARMX2	394	N041SS_RRXM_	572	N041FARMB	734
N041FARMX3	403	N041SS_RRX1	573	N041FARMB_	736
N041FARMX4	412	N041SS_RRX2	581	N041FARMBX	737
N041FARMX5	421	N041SS_RRX3	589	N041FARMBX_	743
N041FARMXI	430	N041SS_RRX4	597	N041SS_RRB	744
N041JSSDEDXM	433	N041SS_RRX5	605	N041SS_RRB_	746
N041JSSD_DXM	441	N041SS_RRXI	613	N041SS_RRBX	747
N041JSSDEDX1	442	N041SUPPXM	616	N041SS_RRBX_	753
N041JSSDEDX2	448	N041SUPPXM_	626	N041SUPPB	754
N041JSSDEDX3	454	N041SUPPX1	627	N041SUPPB_	756
N041JSSDEDX4	460	N041SUPPX2	635	N041SUPPBX	757
N041JSSDEDX5	466	N041SUPPX3	643	N041SUPPBX_	763
N041SLFEMPSM	472	N041SUPPX4	651	N041WAGEB	764
N041SLFE_PSM	480	N041SUPPX5	659	N041WAGEB_	766
N041SLFEMPS1	481	N041SUPPXI	667	N041WAGEBX	767
N041SLFEMPS2	487	N041WAGEXM	670	N041WAGEBX_	773
N041SLFEMPS3	493	N041WAGEXM_	680		
N041SLFEMPS4	499	N041WAGEX1	681		

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

Consumer Expenditures in 2004, (expected in 2006)	Consumer unit income and expenditures, integrated data from Diary and Interview Surveys, classified by consumer unit characteristics. 10 tables.
Consumer Expenditure Survey Anthology, Report 981 (2005)	A collection of analytical and methodological articles using Consumer Expenditure Survey data..
Consumer Expenditures in 2003, Report 986 (2005)	Consumer unit income and expenditures, integrated data from Diary and Interview Surveys, classified by consumer unit characteristics. 10 tables.
Consumer Expenditures in 2002, Report 974 (2004)	Consumer unit income and expenditures, integrated data from Diary and Interview Surveys, classified by consumer unit characteristics. 10 tables.
Consumer Expenditure Survey Anthology, Report 967 (2003)	A collection of analytical and methodological articles using Consumer Expenditure Survey data.
Consumer Expenditures in 2001, Report 966 (2003)	Consumer unit income and expenditures, integrated data from Diary and Interview Surveys, classified by consumer unit characteristics. 10 tables. Available on request (202)691-6900.
Consumer Expenditure Survey, 2000-2001, Report 969 (2003)	Consumer unit income and expenditures, integrated data from Interview and Diary Surveys, classified by consumer unit characteristics: one way and cross tabulations, relative and aggregate shares. 64 tables.
Consumer Expenditures in 2000, Report 958 (2002)	Consumer unit income and expenditures, integrated data from Diary and Interview Surveys, classified by consumer unit characteristics. 10 tables. Available on request (202)691-6900.
Consumer Expenditure Survey, 1998-99, Report 955	Consumer unit income and expenditures, integrated data from Interview and Diary Surveys, classified by consumer unit characteristics: one way and cross tabulations, relative and aggregate shares. 64 tables.
Consumer Expenditures in 1999, Report 949 (2001)	Consumer unit income and expenditures, integrated data from Diary and Interview Surveys, classified by consumer unit characteristics. 10 tables. Available on request (202)691-6900.
Consumer Expenditures in 1998, Report 940 (2000)	Consumer unit income and expenditures, integrated data from Diary and Interview Surveys, classified by consumer unit characteristics. 10 tables. Available on request (202)691-6900.

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

CONSUMER EXPENDITURE SURVEY DATA ON THE INTERNET

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

One Year Tables

Standard Tables from 1984-2004
Expenditure Shares Tables from 1998-2004
Aggregate Expenditure Shares Tables from 1998-2004

Two Year Tables

Cross-Tabulated Tables from 1986-2004
Metropolitan Statistical Area Tables from 1986-2004
Region Tables from 1998-2004
High Income Tables from 1998-2004
Multi-Year Tables for 1984-1992 and 1993-2004

FAX ON DEMAND - FAXSTAT

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

CD-ROMS

CE microdata on CD-Rom are available from the Bureau of Labor Statistics for 1972-73, 1980-81, 1990-91, 1992-93, and for each individual year from 1994-2004. The 1980-81 through 2004 releases contain Interview and Diary data, while the 1972-73 CD includes Interview data only. The 1980-81, and the 1990 files (of the 1990-91 CD) include selected EXPN data, while the 1991 files (from the 1990-91 CD) and the 1992-93 CD do not. In addition to the Interview and Diary data, the CDs from 1994-2004 include the complete collection of EXPN files. A 1984-94 “multi-year” CD that presents Interview FMLY file data is also available. In addition to the microdata, the CD’s also contain the same integrated Diary and Interview tabulated data (1984-present) that are found on the Consumer Expenditure Survey web site
(http://www.bls.gov/cex).

XVII. INQUIRIES, SUGGESTIONS, AND COMMENTS

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

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.