

2009 CONSUMER EXPENDITURE INTERVIEW SURVEY  
PUBLIC USE MICRODATA  
User's Documentation  
October 5, 2010

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 (CUs) of average expenditures in news releases, reports, issues, 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-ROMs.

These microdata files present detailed expenditure and income data from the Interview component of the CE for 2009 and the first quarter of 2010. The Interview survey collects data on up to 95 percent of total household expenditures. In addition to the FMLY, MEMB, MTAB, FPAR, MCHI, and ITAB\_IMPUTE files, the microdata include files created directly from the expenditure sections of the Interview survey (EXPN files). The EXPN files contain expenditure data and ancillary descriptive information, often not available on the FMLY or MTAB files, in a format similar to the Interview questionnaire. In addition to the extra information available on the EXPN files, users can identify distinct spending categories easily and reduce processing time due to the organization of the files by type of expenditure. Starting in 2009, the FPAR and MCHI files will be included. These files include paradata, which is data about the interview survey process.

Estimates of average expenditures in 2009 from the Interview Survey, integrated with data from the Diary Survey, will be published in the report *Consumer Expenditures in 2009* (due out in 2011). A list of recent publications containing data from the CE appears at the end of this documentation.

The microdata files are in the public domain and, with appropriate credit, may be reproduced without permission. A suggested citation is: "U.S. Department of Labor, Bureau of Labor Statistics, Consumer Expenditure Survey, Interview Survey, 2009."

## I. CHANGES FROM THE 2008 MICRODATA FILES

### A. FMLY file

#### Variable Additions

Beginning in 2009Q1 the following variables will be added:

Variable name	Description	Start Position	Format
HISP_REF	Hispanic origin of reference person 1 Hispanic 2 Non-Hispanic	6218	CHAR(1)
HISP2	Hispanic origin of spouse 1 Hispanic 2 Non-Hispanic	6219	CHAR(1)

#### Variable Deletions

Beginning in 2009Q1 the following variables will be deleted from the FMLY file and moved to the FPAR file:

Variable name	Start Position	Format
RECORDS	3438	CHAR(1)
RECORDS_	3439	CHAR(1)
TYPE_REC1	3440	CHAR(1)
TYPE_EC1	3441	CHAR(1)
TYPE_REC2	3442	CHAR(1)
TYPE_EC2	3443	CHAR(1)
TYPE_REC3	3444	CHAR(1)
TYPE_EC3	3445	CHAR(1)
TYPE_REC4	3446	CHAR(1)
TYPE_EC4	3447	CHAR(1)
TYPE_REC5	3448	CHAR(1)
TYPE_EC5	3449	CHAR(1)
TYPE_REC6	3450	CHAR(1)
TYPE_EC6	3451	CHAR(1)
TYPE_REC7	3452	CHAR(1)
TYPE_EC7	3453	CHAR(1)
TYPE_REC8	3454	CHAR(1)
TYPE_EC8	3455	CHAR(1)

### Summary Variable Changes

Note – the same changes apply to the “CQ” (Current quarter) Summary variables

MISCEQCQ Miscellaneous household equipment last quarter

320120 320130 320150 320220 320232 320410 320420 320901 320902 320903 320904 340904 430130 690111  
690112 690115 690210 690230 690241 690242 690243 690244 690245 320233 \*690117<sup>N(Y092)</sup>

EDUCACQ Education

660110 660210 660901 660902 670110 670210 670901 670902 660410 670410 \*670903<sup>N(Y092)</sup>

### B. MEMB file

Beginning in 2009Q3 the following variables will be added:

Variable name	Description	Start Position	Format
PYMT2009	In May or June 2009, did you receive a one time stimulus payment of \$250 1 Yes 2 No	788	CHAR(1)
PYMT_009		789	CHAR(1)
HWUSED09	Did the \$250 stimulus payment lead you mostly to increase spending, mostly to increase savings, or mostly to pay off debt? 1 Mostly to increase spending 2 Mostly to increase savings 3 Mostly to pay off debt	790	CHAR(1)
HWUS_D09		791	CHAR(1)

QSTIMPYX	Amount of stimulus payment	792	NUM(4)
QSTI_PYX		796	CHAR(1)

### C. FPAR file

Beginning in 2009Q1, the FPAR file will be added to the data. (See section III.G.6.a CU level paradata file (FPAR) for a detailed description of the new file) Note that some variables will be added 2009Q2.

Variable name	Description	Start Position	Format
NEWID	CU Identifier	1	NUM(8)
CUID	Unique CU Identifier (first 7 digits of NEWID)	9	NUM(7)
QYEAR	Quarter and Year of interview	16	CHAR(5)
OUTCOME	Final Interview Outcome:  201 Completed interview 203 Transmit, no more follow-up possible (Through Section 20 complete) 215 Insufficient partial (TYPE A NONINTERVIEW) 216 No one home, unable to contact (TYPE A NONINTERVIEW) 217 Temporarily absent (TYPE A NONINTERVIEW) 219 Other (TYPE A NONINTERVIEW) 321 Refused, Hostile respondent (TYPE A NONINTERVIEW) 322 Refused, Time related excuses (TYPE A NONINTERVIEW) 323 Refused, Language problems (TYPE A NONINTERVIEW) 324 Refused, Other (TYPE A NONINTERVIEW)	21	CHAR(3)
CONVREF	Was this a converted refusal? 1 Yes 2 No	24	CHAR(1)
GENINTRO	Did you receive our letter? 1 Yes 2 No 3 Non-Interview	25	CHAR(1)
HOW_INTV	How was data collected for this interview for this CU? 1 Personal visit for all sections 2 Personal visit for all sections, but telephone follow-up for some questions 3 Personal visit for more than half the sections, the rest by phone 4 Equally split between personal visit and telephone 5 Telephone for more than half of the sections, the rest by personal visit 6 Telephone for all sections	26	CHAR(1)
HSG_UNIT	Description that best describes the type of housing unit 01 House, apartment, or flat 02 HU in nontransient hotel, motel, etc. 03 HU, permanent in transient hotel, motel, etc. 04 HU, 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 HU not specified above 08 Quarters not HU in rooming or boarding house 09 Student quarters in college dormitory. 10 Group quarters, unit not specified	27	CHAR(2)

Variable name	Description	Start Position	Format
INFOBOOK	Was the information booklet used during the interview? 1 Yes 2 No	29	CHAR(1)
LANGUAGE	In what language was the interview conducted?  1 English 2 Spanish 3 Other	30	CHAR(1)
RESPON	Line number of main respondent	31	NUM(2.0)
RECORDS	Did respondent use records for questions  Beginning in 2007Q2: 1 Always or almost always (90% of the time or more) 2 Most of the time (50% to 89% of the time) 3 Occasionally (10% to 49% of the time) 4 Never or almost never (less than 10% of the time)  Thru 2007Q1: 1 Always 2 Almost always 3 Mostly 4 Occasionally 5 Almost never 6 Never	33	CHAR(1)
SECTNO	Last section number completed	34	CHAR(2)
SNGL_INT	Was the interview conducted in a single session? 1 Yes 2 No	36	CHAR(1)
TEL_RESN	Main reason for collecting data by phone 1 Barriers to reaching the sample unit 2 Collecting data from additional respondent(s) in the CU 3 Distance to sample unit 4 Respondent called FR to do interview 5 Respondent only available by phone 6 Respondent refused personal visit 7 Respondent requested telephone interview 8 Other	37	CHAR(1)
TELPV	How did you collect most of the data for this case? 1 By personal visit 2 By phone	38	CHAR(1)
TELSCT01	Sections collected entirely by phone 01 Section 3: Housing - rent, mortgage, and/or home equity loans	39	CHAR(2)
TELSCT02	Sections collected entirely by phone 02 Section 4: Utilities/Communications	41	CHAR(2)
TELSCT03	Sections collected entirely by phone 03 Section 6: Appliances	43	CHAR(2)
TELSCT04	Sections collected entirely by phone 04 Section 8: Home Furnishings	45	CHAR(2)
TELSCT05	Sections collected entirely by phone 05 Section 9: Clothing	47	CHAR(2)

Variable name	Description	Start Position	Format
TELSCT06	Sections collected entirely by phone 06 Sections 10, 11, 12: Vehicle Expenses	49	CHAR(2)
TELSCT07	Sections collected entirely by phone 07 Sections 13 and 14: Insurance	51	CHAR(2)
TELSCT08	Sections collected entirely by phone 08 Section 15: Medical/Health Expenses	53	CHAR(2)
TELSCT09	Sections collected entirely by phone 09 Section 18: Trips and Vacations	55	CHAR(2)
TELSCT10	Sections collected entirely by phone 10 Section22: Work Experience and Income	57	CHAR(2)
TYPEREC1	Type of records used - bills	59	CHAR(1)
TYPEREC2	Type of records used - checkbk	60	CHAR(1)
TYPEREC3	Type of records used – cancelled checks	61	CHAR(1)
TYPEREC4	Type of records used -receipts	62	CHAR(1)
TYPEREC5	Type of records used – home file provided by Census	63	CHAR(1)
TYPEREC6	Type of records used – contracts/agreements	64	CHAR(1)
TYPEREC7	Type of records used – bank stms	65	CHAR(1)
TYPEREC8	Type of records used - other	66	CHAR(1)
TYPEREC9	Type of records used - none	67	CHAR(1)
BACK	Interview time for BACK section (seconds)	68	NUM(5.0)
CONTROL	Interview time for CONTROL section (seconds)	73	NUM(5.0)
COVERAGE	Interview time for COVERAGE section (seconds)	78	NUM(5.0)
FRONT	Interview time for FRONT section (seconds)	83	NUM(5.0)
SECT_01	Interview time for section 01 (seconds)	88	NUM(5.0)
SECT_02	Interview time for section 02 (seconds)	93	NUM(5.0)
SECT_03	Interview time for section 03 (seconds)	98	NUM(5.0)
SECT_04	Interview time for section 04 (seconds)	103	NUM(5.0)
SECT_05	Interview time for section 05 (seconds)	108	NUM(5.0)
SECT_06	Interview time for section 06 (seconds)	113	NUM(5.0)
SECT_07	Interview time for section 07 (seconds)	118	NUM(5.0)
SECT_08	Interview time for section 08 (seconds)	123	NUM(5.0)
SECT_09	Interview time for section 09 (seconds)	128	NUM(5.0)
SECT_10	Interview time for section 10 (seconds)	133	NUM(5.0)



Variable name	Description	Start Position	Format
SECT_11	Interview time for section 11 (seconds)	138	NUM(5.0)
SECT_12	Interview time for section 12 (seconds)	143	NUM(5.0)
SECT_13	Interview time for section 13 (seconds)	148	NUM(5.0)
SECT_14	Interview time for section 14 (seconds)	153	NUM(5.0)
SECT_15	Interview time for section 15 (seconds)	158	NUM(5.0)
SECT_16	Interview time for section 16 (seconds)	163	NUM(5.0)
SECT_17	Interview time for section 17 (seconds)	168	NUM(5.0)
SECT_18	Interview time for section 18 (seconds)	173	NUM(5.0)
SECT_19	Interview time for section 19 (seconds)	178	NUM(5.0)
SECT_20	Interview time for section 20 (seconds)	183	NUM(5.0)
SECT_21	Interview time for section 21 (seconds)	188	NUM(5.0)
SECT_22	Interview time for section 22 (seconds)	193	NUM(5.0)
SECT_24	Interview time for section 24 (seconds)	198	NUM(5.0)
TOT_TIME	Total Interview Time (seconds)	203	NUM(5.0)

#### D. MCHI file

Beginning in 2009Q1, the MCHI file will be added. (See section III.G.6.b Contact attempt level paradata file (MCHI) for a detailed description of the new file)

Variable	Variable Description	Start Position	Format
NEWID	CU Identifier	1	NUM(8.0)
CUID	Unique CU Identifier (first 7 digits of NEWID)	9	NUM(7)
QYEAR	Quarter and Year of interview	16	CHAR(5)
CNTCKEY	Sequence identifier for contact attempts	21	NUM(3.0)
AFTDRIVE	Number of afternoon drive-bys attempted (12:00pm to 4:59pm) (for NCTPERn = 06)	24	NUM(2.0)
CHI_TIME	Total time for CHI (seconds)	26	NUM(5.0)
DYSINFLD	Number of days since first contact	31	NUM(3.0)
VISIT_MO	Contact attempt month	36	CHAR(2)
VISTWKDY	Day of week 1 Sunday	38	CHAR(1)

Variable	Variable Description	Start Position	Format
	2 Monday 3 Tuesday 4 Wednesday 5 Thursday 6 Friday 7 Saturday		
VISIT_HR	Hour of contact attempt	39	NUM(2.0)
VISIT_YR	Contact attempt year	41	CHAR(4)
CTSTATUS	Description of contact person 1 Sample unit member 2 Non-sample unit member 3 Noncontact	45	CHAR(1)
CTTYPE	Type of contact attempt 1 Completed case - ready to transmit (C01) 2 Partial interview - follow up required (C02) 3 Unable to conduct interview (C03)	46	CHAR (1)
EVNDRIVE	Number of evening drive-bys attempted (5:00pm to 11:59pm) (for NCTPERn = 06)	47	NUM(2.0)
INTERI	Interview number	49	CHAR(1)
LANGUAGE1	Description of language situation (for NONINTRn = 4) 1 Specify language or dialect (L01)	50	CHAR(1)
LANGUAGE2	Description of language situation (for NONINTRn = 4) 2 No household member able to translate (L02)	51	CHAR(1)
LANGUAGE3	Description of language situation (for NONINTRn = 4) 3 Contact RO about language problem (L03)	52	CHAR(1)
LANGUAGE4	Description of language situation (for NONINTRn = 4) 4 Unable to find translator (L04)	53	CHAR(1)
LANGUAGE5	Description of language situation (for NONINTRn = 4) 5 No time left to find translator (L05)	54	CHAR(1)
MRNDRIVE	Number of morning drive-bys attempted (12:00am to 11:59am) (for NCTPERn = 06)	55	NUM(2.0)
NCTMVED1	Moved sample unit description – address unknown	57	CHAR(1)
NCTMVED2	Moved sample unit description – new address in FR’s area	58	CHAR(1)
NCTMVED3	Moved sample unit description – new address, transfer to different RO/FR	59	CHAR(1)
NCTMVED4	Moved sample unit description – other	60	CHAR(1)
NCTMVED5	Moved sample unit description – address unknown	61	CHAR(1)
NCTPER01	(PV noncontact) No one home	62	CHAR(1)
NCTPER02	(PV noncontact) No one home - appointment broken	63	CHAR(1)

Variable	Variable Description	Start Position	Format
NCTPER03	(PV noncontact) No one home - previous note/letter taken	64	CHAR(1)
NCTPER04	(PV noncontact) Household does not answer door, evidence someone home	65	CHAR(1)
NCTPER05	(PV noncontact) Drive-by	66	CHAR(1)
NCTPER06	(PV noncontact) Multiple Drive-Bys	67	CHAR(1)
NCTPER07	(PV noncontact) Unable to reach/locked gate/buzzer entry	68	CHAR(1)
NCTPER08	(PV noncontact) Address does not exist/unable to locate	69	CHAR(1)
NCTPER09	(PV noncontact) On vacation, away from home/at second home	70	CHAR(1)
NCTPER10	(PV noncontact) Spoke with neighbor	71	CHAR(1)
NCTPER11	(PV noncontact) Building Management / doorman contact	72	CHAR(1)
NCTPER12	(PV noncontact) Completed case (Type B or C)	73	CHAR(1)
NCTPER13	(PV noncontact) Respondent moved	74	CHAR(1)
NCTPER14	(PV noncontact) Other	75	CHAR(1)
NCTTEL1	(PH noncontact) Got answering machine/service	76	CHAR(1)
NCTTEL2	(PH noncontact) No answer	77	CHAR(1)
NCTTEL3	(PH noncontact) Busy signal	78	CHAR(1)
NCTTEL4	(PH noncontact) Disconnected	79	CHAR(1)
NCTTEL5	(PH noncontact) Wrong number	80	CHAR(1)
NCTTEL6	(PH noncontact) FAX number	81	CHAR(1)
NCTTEL7	(PH noncontact) Other	82	CHAR(1)
NONINTR1	(No interview) Eligible person unavailable	83	CHAR(1)
NONINTR2	(No interview) Inconvenient time	84	CHAR(1)
NONINTR3	(No interview) Reluctant respondent	85	CHAR(1)
NONINTR4	(No interview) Language problem	86	CHAR(1)
NONINTR5	(No interview) Health problem	87	CHAR(1)
NONINTR6	(No interview) Specify whom you spoke to	88	CHAR(1)
NONINTR7	(No interview) Other	89	CHAR(1)
PERORTEL	Was this a personal or telephone contact attempt? 1 Personal 2 Telephone	90	CHAR(1)

Variable	Variable Description	Start Position	Format
RSPDNT01	Not interested	91	CHAR(1)
RSPDNT02	Too busy	92	CHAR(1)
RSPDNT03	Interview takes too much time	93	CHAR(1)
RSPDNT04	Breaks appt, puts off interviewer indefinitely	94	CHAR(1)
RSPDNT05	Scheduling difficulties	95	CHAR(1)
RSPDNT06	Survey is voluntary	96	CHAR(1)
RSPDNT07	Privacy concerns	97	CHAR(1)
RSPDNT08	Anti-government concerns	98	CHAR(1)
RSPDNT09	Do not understand survey	99	CHAR(1)
RSPDNT10	Survey content does not apply	100	CHAR(1)
RSPDNT11	Hang-up / slams door on FR	101	CHAR(1)
RSPDNT12	Hostile or threatens FR	102	CHAR(1)
RSPDNT13	Other household members tell respondent not to participate	103	CHAR(1)
RSPDNT14	Talk only to specific household member	104	CHAR(1)
RSPDNT15	Family issues	105	CHAR(1)
RSPDNT16	Respondent requests same FR as last time	106	CHAR(1)
RSPDNT17	Gave that information last time	107	CHAR(1)
RSPDNT18	Asked too many personal questions last time	108	CHAR(1)
RSPDNT19	Too many interviews	109	CHAR(1)
RSPDNT20	Last interview took too long	110	CHAR(1)
RSPDNT21	Intends to quit survey	111	CHAR(1)
RSPDNT22	No concerns	112	CHAR(1)
RSPDNT23	Other	113	CHAR(1)
STRATG01	Advance letter given	114	CHAR(1)
STRATG02	Scheduled appointment	115	CHAR(1)
STRATG03	Left note / appointment card	116	CHAR(1)
STRATG04	Left promotional pkt/info brochure	117	CHAR(1)
STRATG05	Called household	118	CHAR(1)

Variable	Variable Description	Start Position	Format
STRATG06	Left message on answering machine	119	CHAR(1)
STRATG07	FR will request No One Home letter	120	CHAR(1)
STRATG08	FR will request Refusal letter	121	CHAR(1)
STRATG09	FR will request Better Understanding letter	122	CHAR(1)
STRATG10	Called contact persons	123	CHAR(1)
STRATG11	Stake-out	124	CHAR(1)
STRATG12	Checked with neighbors	125	CHAR(1)
STRATG13	Contacted other family members	126	CHAR(1)
STRATG14	Contacted property manager	127	CHAR(1)
STRATG15	Visited county assessor/post-office/permit office	128	CHAR(1)
STRATG16	On-line tracking database	129	CHAR(1)
STRATG17	Help from Senior Field Representative / Regional Office	130	CHAR(1)
STRATG18	Transferred to RO for re-assignment	131	CHAR(1)
STRATG19	Incentive offered	132	CHAR(1)
STRATG20	CED double placement	133	CHAR(1)
STRATG21	Used MAF or ALMI	134	CHAR(1)
STRATG22	None (No strategies)	135	CHAR(1)
STRATG23	Other	138	CHAR(1)

#### E. MTAB file

##### UCC Additions

Beginning in 2009Q2, the following UCCs will be added to the MTAB file:

UCC	Title
690117	Portable Memory
670903	Test preparation, tutoring services
910104	CPI Adjusted Rental Equivalence of vacation home
910105	CPI Adjusted Rental Equivalence of home not available for rent
910106	CPI Adjusted Rental Equivalence of home available for rent
910107	CPI Adjusted Rental Equivalence for timeshares

##### UCC Deletions

Beginning in 2009Q2, the following UCCs will be deleted from the MTAB file:

UCC	Title
790820	Mortgage held after sale of real estate (other property)
820201	Mortgage principal held after sale of real estate (owned home)
950030	2008 Tax stimulus
950031	2008 Tax stimulus

## F. ITAB file

No Changes in 2009

## G. EXPN file

### 1. RBT

#### File deletions

Beginning in 2009Q1 the following file and variables will be deleted

Variable name	Description	Start Position	Format
NEWID	Public use microdata identifier	1	NUM(8)
CUID	First 7 digits of NEWID, identifying the CU	9	NUM(7)
RBTMO	Month rebate reported (CONTMO, where CONTCODE = '800')	16	CHAR(2)
RBTMO_	RBTMO flag	18	CHAR(1)
RBTAMT	Amount of rebate reported (CONTEXPX, where CONTCODE = '800')	19	NUM(8)
RBTAMT_	RBTAMT flag	27	CHAR(1)
CHKEFT	How rebate was received 1. Check 2. Electronic transfer	28	CHAR(1)
CHKEFT_	CHKEFT flag	29	CHAR(1)
HOWUSED	Earlier, you or someone in your CU reported receiving a one-time tax rebate that was part of the Federal government's economic stimulus package. Did the tax rebate lead you or someone in your CU mostly to increase spending, mostly to increase savings, or mostly to pay off debt? 1. Mostly to increase spending 2. Mostly to increase savings 3. Mostly to pay off debt	30	CHAR(1)
HOWUSED_	HOWUSED flag	31	CHAR(1)
USDINTMO	Month in which HOWUSED was reported	32	CHAR(2)
USDINTYR	Year in which HOWUSED was reported	34	CHAR(4)

### 2. APB

#### Variable Content Changes

Beginning in 2009Q2, the following changes will be applied to the data.

Variable name	Description
MINAPPLY	<p>Wording changed from:</p> <p>620 – Other office machines including typewriters and calculators.</p> <p>650 – Computer software or accessories for non-business use</p> <p>700 – Video and computer game hardware, software, Gameboys, and accessories</p> <p>Wording changed to:</p> <p>620 – Other office including fax machines and calculators</p> <p>650 – Computer software, including computer games, or accessories for non-business use</p> <p>700 – Video games hardware, video games, and accessories</p> <p>Added item codes:</p> <p>750 – Portable memory, such as flash drives, memory cards, and recordable disc and tapes</p>

### 3. APL

#### Variable Content Changes

Beginning in 2009Q2, the following changes will be applied to the data.

Variable name	Description
MAJCODE	<p>Wording changed from:</p> <p>14 Sound components, component systems, or compact disc sound systems</p> <p>Wording changed to:</p> <p>14 Stereo or sound systems</p>

### 4. FRA

#### Variable Content Changes

Beginning in 2009Q2, the following changes will be applied to the data.

Variable name	Description
FURNPURY	<p>Wording changed from:</p> <p>181 – Travel items</p> <p>215 – Venetian blinds, window shades, other window coverings?</p>

	Wording changed to: 181 – Travel items including luggage 215 – Blinds, shades, other window coverings
--	---

## 5. CLD

### **Variable Content Changes**

Beginning in 2009Q2, the following changes will be applied to the data.

Variable name	Description
CLSVGFTC	Wording changed from: Was this purchase for you or someone in your CU or for someone outside your CU?  Wording changed to: Was this service for you or someone in your CU or for someone outside your CU?

## 6. CNT

### **Variable Content Changes**

Beginning in 2009Q2, the following changes will be applied to the data.

Variable name	Description
CONTCODE	Wording changed from: 150 – Religious organizations, including churches, temples and mosques, but not including parochial schools?  Wording changed to: 150 – Religious organizations, including churches, temples and mosques?

## 7. EDA

### **Variable Content Changes**

Beginning in 2009Q2, the following changes will be applied to the data.

Variable name	Description
EDSCHL_A	Question wording changed from: What kind of school was it?  Question wording changed to: What kind of school or facility was it?  Item code wording changed from: 2 - Elementary or high school  Item code wording changed to: 2 – Elementary through high school



EDUC_AY	Added item code: 345 – Test Preparation or tutoring services
EDUCGFTC	Item code change from: 01-30 CU member (MEMBNO from MEMB file) 55 Someone outside the CU  Item code change to: 1 – Person inside the CU 2 – Person outside the CU

## 8. ENT

### Variable Content Changes

Beginning in 2009Q2, the following changes will be applied to the data.

Variable name	Description
QPVD3MCX	Wording changed from: Amount paid for purchase of video cassettes, video tapes, or video discs other than through a mail-order club during the reference period  Wording changed to: Amount paid for video tapes or DVDs during the reference period (blank video tapes or DVDs reported in Section 6B under item code 750)
QREC3MCX	Wording changed from: Amount paid for CDs, audio tapes, or records, other than through a mail order club, during the reference period  Wording changed to: Amount paid for CDs, audio tapes, or records during the reference period (blank CDs or audio tapes reported in Section 6B under item code 750)

## 9. IHB

### Variable Content Changes

Beginning in 2009Q2, the following changes will be applied to the data.

Variable name	Description
HHIPOS	Wording changed from: If, except in the case of an emergency, you go to a doctor other than one in the group center or your primary care doctor, without a referral will the plan pay any of your expenses?  Wording changed to: Under normal circumstances, if you go to a doctor who is not part of your plan without a referral, will your insurance pay for the cost?

## 10. MDB

### Variable Content Changes

Beginning in 2009Q2, the following changes will be applied to the data.

Variable name	Description
MEDPCARY	Added item codes (moved from section MIS): 700 - Care for invalids, convalescents, handicapped, or elderly persons at home. 710 - Adult day care centers  Wording changed from: 620 – Prescription medicines or prescribed drugs  Wording changed to: 620 – Prescription drugs

## 11. MDC

### Variable Content Changes

Beginning in 2009Q2, the following changes will be applied to the data.

Variable name	Description
MEDRCARY	Added item codes: 700 - Care for invalids, convalescents, handicapped, or elderly persons at home. 710 - Adult day care centers  Wording changed from: 620 – Prescription medicines or prescribed drugs  Wording changed to: 620 – Prescription drugs

## 12. MIS

### Variable Content Changes

Beginning in 2009Q2, the following changes will be applied to the data.

Variable name	Description
MISCCODE	Deleted item codes (Moved to MDB/MDC): 200 - Care for invalids, convalescents, handicapped, or elderly persons at home.

	350 - Adult day care centers
--	------------------------------

### 13. OPI

#### Variable additions

Beginning in 2009Q2, the following variables will be added to OPI:

Variable name	Description	Start Position	Format
JCPIRE1X	Quarterly rental equivalence for OWNYB = 100 or (OWNYB = 300 and VAC_SEC =2) adjusted for ownership percentage (SHARPER2).	294	NUM(8.0)
JCPI_E1X		302	CHAR(1)
JCPIRE2X	Quarterly rental equivalence for OWNYB = 300 and VAC_SEC = 1 adjusted for ownership percentage (SHARPER2) and availability to be rented.	303	NUM(8.0)
JCPI_E2X		311	CHAR(1)
JCPIRE3X	Quarterly rental equivalence for OWNYB = 300 and TIMESHAR = 1 adjusted for duration of usage (SHARWKS).	312	NUM(8.0)
JCPI_E3X		320	CHAR(1)

### 14. OVB

#### Variable Content Changes

Beginning in 2009Q2, the following changes will be applied to the data.

Variable name	Description
VEHICYR	Wording changed from: What is the year of the vehicle?  Wording changed to: What is the model year of the vehicle

### 15. TRV

#### Variable Content Changes

Beginning in 2009Q2, the following changes will be applied to the data.

Variable name	Description
RTCARX	<p>Wording changed from: Amount spent for rented cars or jeeps not including gas you (or any members of your CU) bought</p> <p>Wording changed to: Amount spent for rented automobiles not including gas you (or any members of your CU) bought</p>

## 16. UTA

### Variable additions

Beginning in 2009Q1, the following variables will be added to UTA:

Variable name	Description	Start Position	Format
TELVOP1X	Total expense for Voice Over IP service for three months ago (adjusted for business)	234	NUM(6.0)
TELV_P1X		240	CHAR(1)
TELVOP2X	Total expense for Voice Over IP service for two months ago (adjusted for business)	241	NUM(6.0)
TELV_P2X		247	CHAR(1)
TELVOP3X	Total expense for Voice Over IP service for one month ago (adjusted for business)	248	NUM(6.0)
TELV_P3X		254	CHAR(1)

## 17. UTP

### Variable deletions

Beginning in 2009Q1, the following variables will be deleted in UTP:

Variable name	Start Position	Format
PRPYCELL	35	CHAR(1)
PRPY_ELL	36	CHAR(1)

## 18. VOT

### Variable Content Changes

Beginning in 2009Q2, the following changes will be applied to the data.

Variable name	Description
VOPPARKX	<p>Wording changed from: Since the 1st of (month, 3 months ago), how much was paid, excluding any payments made this month, for parking, including garage rental, metered parking, and parking lot fees, except any expenses included in property ownership or rental costs? Do not include parking expenses that are totally reimbursed or paid entirely for business.</p>

	<p>Wording changed to:  Since the 1st of (month, 3 months ago), how much was paid, excluding any payments made this month, for parking, such as parking meters, garage rental, or parking lot fees? Do not include expenses that are part of your property ownership or rental costs, a business expense or expenses that will be totally reimbursed.</p>
VOPTOLLX	<p>Wording changed from:  Expenses for tolls or electronic passes, excluding those in the current month</p> <p>Wording changed to:  Expenses for local tolls or electronic toll passes, not including tolls incurred on a trip.</p>
JGASOXQV	<p>Wording changed from:  Quarterly expenditure on gasoline and other non-diesel fuels to operate automobiles, trucks, motorcycles, or any other vehicles, adjusted for business</p> <p>Wording changed to:  Quarterly expenditure on gasoline and other non-diesel fuels to operate any vehicles, adjusted for business</p>

## 19. XPB

### Variable Content Changes

Beginning in 2009Q2, the following changes will be applied to the data.

Variable name	Description
JLDRYNET	<p>Wording change from:  Cost for coin-operated laundry or dry cleaning machines for clothing items</p> <p>Wording change to:  Cost for self-service laundry machines</p>

## II. FILE INFORMATION

The microdata on CD-ROM are provided as SAS, STATA, SPSS data sets or ASCII text and comma-delimited files. The 2009 Interview release contains seven groups of Interview data files (FMLY, MEMB, MTAB, ITAB, ITAB\_IMPUTE, FPAR, and MCHI), 50 EXPN files, and processing files. The FMLY, MEMB, MTAB, ITAB, and ITAB\_IMPUTE files are organized by the calendar quarter of the year in which the data were collected. (See Section V.A.1.b. CALENDAR PERIOD VERSUS COLLECTION PERIOD for a description of calendar and collection years.) There are five quarterly data sets for each of these files, running from the first quarter of 2009 through the first quarter of 2010. The FMLY file contains CU characteristics, income, and summary level expenditures; the MEMB file contains member characteristics and income data; the MTAB file contains expenditures organized on a monthly basis at the UCC level; the ITAB file contains income data converted to a monthly time frame and assigned to UCCs; and the

ITAB\_IMPUTE file contains the five imputation variants of the income data converted to a monthly time frame and assigned to UCCs.

The FPAR and MCHI datasets are grouped as 2-year datasets (2008 and 2009), plus the first quarter of the 2010 and contain paradata about the Interview survey. The FPAR file contains CU level data about the Interview survey, including timing and record use. The MCHI file contains data about each interview contact attempt, including reasons for refusal and times of contact. Both FPAR and MCHI files contain five quarters of data. Each of the 50 EXPN files contains five quarters of data.

The EXPN files contain data directly derived from their respective questionnaire sections.

The processing files enhance computer processing and tabulation of data, and provide descriptive information on item codes. The processing files are: Aggregation scheme files used in the published consumer expenditure survey interview tables and integrated tables (ISTUB and INTSTUB), a UCC file that contains UCCs and their abbreviated titles, identifying the expenditure, income, or demographic item represented by each UCC; vehicle make file (CAPIVEHI), and files containing sample programs (See Section VII. A. SAMPLE PROGRAM). The processing files are further explained in Section III.F.6. 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.

Since space in this documentation prohibits the explanation of all information in the EXPN files, we strongly suggest the user refer to the questionnaire. Survey forms, as well as the CAPI questionnaire, are available on the Consumer Expenditure Survey webpage: <http://www.bls.gov/cex/#forms>. A list of the 50 EXPN file names, including the Questionnaire sections to which they relate, follows.

APL Section 1, Part C	General Survey Information – Major Household Appliances
RNT Section 2, Parts A and B	Rented Living Quarters – CU Tenure, Rental Payments, Facilities, and Services for Sample Unit and Other Units
OPB Section 3, Part B	Owned Living Quarters and Other Owned Real Estate – Detailed Property Description
OPD Section 3, Part D	Owned Living Quarters and Other Owned Real Estate – Disposed of Property
MOR Section 3, Part F	Owned Living Quarters and Other Owned Real Estate – Mortgages
HEL Section 3, Part G	Owned Living Quarters and Other Owned Real Estate – Lump Sum Home Equity Loans
OPH Section 3, Part H	Owned Living Quarters and Other Owned Real Estate – Line of Credit Home Equity Loans
OPI Section 3, Part I	Owned Living Quarters and Other Owned Real Estate – Ownership Costs
UTA Section 4, Part A	Utilities and Fuels for Owned and Rented Properties – Telephone Expenses
UTP Section 4, Part B	Utilities and Fuels for Owned and Rented Properties – Additional Telephone Expenses
UTI Section 4, Part C	Utilities and Fuels for Owned and Rented Properties – Internet Services Expenditures

UTC Section 4, Part D	Utilities and Fuels for Owned and Rented Properties – Detailed Questions
CRA Section 5, Part A	Construction, Repairs, Alterations, and Maintenance of Owned and Rented Property – Screening Questions
CRB Section 5, Part B	Construction, Repairs, Alterations, and Maintenance of Owned and Rented Property – Job Description
APA Section 6, Part A	Appliances, Household Equipment, and Other Selected Items – Purchase of Household Appliances
APB Section 6, Part B	Appliances, Household Equipment and Other Selected Items – Purchase of Household Appliances and Other Selected Items
EQB Section 7, Part A	Household Equipment Repairs, Service Contracts, and Furniture Repair and Reupholstering – Household Equipment Repairs and Service Contracts
FRA Section 8, Part A	Home Furnishings and Related Household Items – Purchases
FRB Section 8, Part B	Home Furnishings and Related Household Items – Rental, Leasing, or Repair of Furniture
CLA Section 9, Part A	Clothing and Sewing Materials – Clothing
CLB Section 9, Part B	Clothing and Sewing Materials – Infants Clothing, Watches, Jewelry, and Hairpieces
CLD Section 9, Part C	Clothing and Sewing Materials – Clothing Services
CLC Section 9, Part D	Clothing and Sewing Materials – Sewing Materials
RTV Section 10, Part A.1	Rented and Leased Vehicles – Screening Questions
LSD Section 10, Part B	Rented and Leased Vehicles – Detailed Questions for Leased Vehicles
OVB Section 11, Part B	Owned Vehicles – Detailed Questions
OVC Section 11, Part C	Owned Vehicles – Disposal of Vehicles
VEQ Section 12, Part A	Vehicle Operating Expenses – Vehicle Maintenance and Repair
VLR Section 12, Part B	Vehicle Operating Expenses – Licensing, Registration, and Inspection of Vehicles
VOT Section 12, Part C	Vehicle Operating Expenses – Other Vehicle Operating Expenses
INB Section 13, Part B	Insurance Other Than Health – Detailed Questions
IHB Section 14, Part B	Hospitalization and Health Insurance – Detailed Questions
IHC Section 14, Part C	Hospitalization and Health Insurance – Medicare and Medicaid
IHD Section 14, Part D	Hospitalization and Health Insurance – Medicare Prescription Drug Program

MDB Section 15, Part A	Medical and Health Expenditures – Payments For Medical Expenses
MDC Section 15, Part B	Medical and Health Expenditures – Reimbursements For Medical Expenses
EDA Section 16	Educational Expenses
SUB Section 17, Part A	Subscriptions, Memberships, Books, and Entertainment Expenses – Subscriptions and Memberships
ENT Section 17, Part B	Subscriptions, Memberships, Books, and Entertainment Expenses – Books and Entertainment Expenses
TRD Section 18, Part A	Trips and Vacations – 100% Reimbursed Trips
TRV Section 18, Part B	Trips and Vacations – Trips Paid Entirely by CU and Partially Reimbursed Trips
TRE Section 18, Part E	Trips and Vacations – Trip Expenses for Non-CU Members
TRF Section 18, Part F	Trips and Vacations – Local Overnight Stays
MIS Section 19, Part A	Miscellaneous Expenses
CNT Section 19, Part B	Miscellaneous Expenses – Contributions
XPA Section 20, Part A	Expense Patterns For Food, Beverages, and Other Selected Items – Food and Beverages
XPB Section 20, Part B	Expense Patterns For Food, Beverages, and Other Selected Items – Selected Services and Goods
FN2 Section 21, Part A.1	Credit Liability – Credit Balances – Second Interview Only
FNA Section 21, Part A.2	Credit Liability – Credit Balances – Fifth Interview Only
FNB Section 21, Part B	Credit Liability – Finance Charges – Fifth Interview Only

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 microdata CD is listed in the table below. ("X" references the designated drive letter for your CD.)

\\INTRVW09\FMLYI091x.TXT (Interview FMLY file for first quarter, 2009)
\\INTRVW09\MEMBI091x.TXT (Interview MEMB file for first quarter, 2009)
\\INTRVW09\MTABI091x.TXT (Interview MTAB file for first quarter, 2009)
\\INTRVW09\ITABI091x.TXT (Interview ITAB file for first quarter, 2009)
\\INTRVW09\ITBII091x.TXT (Interview ITAB_Imputed file for first quarter, 2009)
\\INTRVW09\FMLYI092.TXT (etc.)
\\INTRVW09\MEMBI092.TXT
\\INTRVW09\MTABI092.TXT
\\INTRVW09\ITABI092.TXT



\\INTRVW09\\ITBII092.TXT
\\INTRVW09\\FMLYI093.TXT
\\INTRVW09\\MEMBI093.TXT
\\INTRVW09\\MTABI093.TXT
\\INTRVW09\\ITABI093.TXT
\\INTRVW09\\ITBII093.TXT
\\INTRVW09\\FMLYI094.TXT
\\INTRVW09\\MEMBI094.TXT
\\INTRVW09\\MTABI094.TXT
\\INTRVW09\\ITABI094.TXT
\\INTRVW09\\ITBII094.TXT
\\INTRVW09\\FMLYI101.TXT
\\INTRVW09\\MEMBI101.TXT
\\INTRVW09\\MTABI101.TXT
\\INTRVW09\\ITABI101.TXT
\\INTRVW09\\ITBII101.TXT
\\INTRVW09\\UCCI09.TXT
\\INTRVW09\\VEHI09.TXT
\\PARA09\\FPAR05.TXT
\\PARA09\\FPAR06.TXT
\\PARA09\\FPAR07.TXT
\\PARA09\\FPAR0809.TXT
\\PARA09\\MCHI05.TXT
\\PARA09\\MCHI06.TXT
\\PARA09\\MCHI07.TXT
\\PARA09\\MCHI0809.TXT
\\EXPN09\\APL09.TXT
\\EXPN09\\RNT09.TXT
\\EXPN09\\OPB09.TXT
\\EXPN09\\OPD09.TXT
\\EXPN09\\MOR09.TXT
\\EXPN09\\HEL09.TXT
\\EXPN09\\OPH09.TXT
\\EXPN09\\OPI09.TXT
\\EXPN09\\UTA09.TXT
\\EXPN09\\UTP09.TXT
\\EXPN09\\UTI09.TXT
\\EXPN09\\UTC09.TXT
\\EXPN09\\CRA09.TXT
\\EXPN09\\CRB09.TXT
\\EXPN09\\APA09.TXT
\\EXPN09\\APB09.TXT
\\EXPN09\\EQB09.TXT
\\EXPN09\\FRA09.TXT
\\EXPN09\\FRB09.TXT
\\EXPN09\\CLA09.TXT
\\EXPN09\\CLB09.TXT
\\EXPN09\\CLD09.TXT
\\EXPN09\\CLC09.TXT
\\EXPN09\\RTV09.TXT
\\EXPN09\\LSD09.TXT
\\EXPN09\\OVB09.TXT
\\EXPN09\\OVC09.TXT
\\EXPN09\\VEQ09.TXT

\\EXPNO9\\VLR09.TXT
\\EXPNO9\\VOT09.TXT
\\EXPNO9\\INB09.TXT
\\EXPNO9\\IHB09.TXT
\\EXPNO9\\IHC09.TXT
\\EXPNO9\\IHD09.TXT
\\EXPNO9\\MDB09.TXT
\\EXPNO9\\MDC09.TXT
\\EXPNO9\\EDA09.TXT
\\EXPNO9\\SUB09.TXT
\\EXPNO9\\ENT09.TXT
\\EXPNO9\\TRD09.TXT
\\EXPNO9\\TRV09.TXT
\\EXPNO9\\TRE09.TXT
\\EXPNO9\\TRF09.TXT
\\EXPNO9\\MIS09.TXT
\\EXPNO9\\CNT09.TXT
\\EXPNO9\\XPA09.TXT
\\EXPNO9\\XPB09.TXT
\\EXPNO9\\FN209.TXT
\\EXPNO9\\FNA09.TXT
\\EXPNO9\\FNB09.TXT
\\EXPNO9\\RBT09.TXT

The file naming convention in the SAS subfolder is listed in the table below. The STATA, ASCII comma-delimited, and SPSS files use the same dataset names as SAS, but have a different file extension as follows:

Comma-delimited ASCII files: \*.csv

STATA files: \*.dta

SPSS files: \*.sav

\\INTRVW09\\FMLI091x.sas7bdat (Interview FMLY file for first quarter, 2009)
\\INTRVW09\\MEMI091x.sas7bdat (Interview MEMB file for first quarter, 2009)
\\INTRVW09\\MTBI091x.sas7bdat (Interview MTAB file for first quarter, 2009)
\\INTRVW09\\ITBI091x.sas7bdat (Interview ITAB file for first quarter, 2009)
\\INTRVW09\\ITII091x.sas7bdat (Interview ITBI_IMPUTED file for first quarter, 2009)
\\INTRVW09\\FMLI092.sas7bdat (etc.)
\\INTRVW09\\MEMI092.sas7bdat
\\INTRVW09\\MTBI092.sas7bdat
\\INTRVW09\\ITBI092.sas7bdat
\\INTRVW09\\ITII092.sas7bdat
\\INTRVW09\\FMLI093.sas7bdat
\\INTRVW09\\MEMI093.sas7bdat
\\INTRVW09\\MTBI093.sas7bdat
\\INTRVW09\\ITBI093.sas7bdat
\\INTRVW09\\ITII093.sas7bdat
\\INTRVW09\\FMLI094.sas7bdat
\\INTRVW09\\MEMI094.sas7bdat
\\INTRVW09\\MTBI094.sas7bdat
\\INTRVW09\\ITBI094.sas7bdat
\\INTRVW09\\ITII094.sas7bdat
\\INTRVW09\\FMLI101.sas7bdat
\\INTRVW09\\MEMI101.sas7bdat
\\INTRVW09\\MTBI101.sas7bdat

\\INTRVW09\\ITBI101.sas7bdat
\\INTRVW09\\ITII101.sas7bdat
\\INTRVW09\\UCCI09.txt
\\INTRVW09\\VEHI09.txt
\\PARA09\\FPAR05.sas7bdat
\\PARA09\\FPAR06.sas7bdat
\\PARA09\\FPAR07.sas7bdat
\\PARA09\\FPAR0809.sas7bdat
\\PARA09\\MCHI05.sas7bdat
\\PARA09\\MCHI06.sas7bdat
\\PARA09\\MCHI07.sas7bdat
\\PARA09\\MCHI0809.sas7bdat
\\EXPNO9\\APL09.sas7bdat
\\EXPNO9\\RNT09.sas7bdat
\\EXPNO9\\OPB09.sas7bdat
\\EXPNO9\\OPD09.sas7bdat
\\EXPNO9\\MOR09.sas7bdat
\\EXPNO9\\HEL09.sas7bdat
\\EXPNO9\\OPH09.sas7bdat
\\EXPNO9\\OPI09.sas7bdat
\\EXPNO9\\UTA09.sas7bdat
\\EXPNO9\\UTP09.sas7bdat
\\EXPNO9\\UTI09.sas7bdat
\\EXPNO9\\UTC09.sas7bdat
\\EXPNO9\\CRA09.sas7bdat
\\EXPNO9\\CRB09.sas7bdat
\\EXPNO9\\APA09.sas7bdat
\\EXPNO9\\APB09.sas7bdat
\\EXPNO9\\EQB09.sas7bdat
\\EXPNO9\\FRA09.sas7bdat
\\EXPNO9\\FRB09.sas7bdat
\\EXPNO9\\CLA09.sas7bdat
\\EXPNO9\\CLB09.sas7bdat
\\EXPNO9\\CLD09.sas7bdat
\\EXPNO9\\CLC09.sas7bdat
\\EXPNO9\\RTV09.sas7bdat
\\EXPNO9\\LSD09.sas7bdat
\\EXPNO9\\OVB09.sas7bdat
\\EXPNO9\\OVC09.sas7bdat
\\EXPNO9\\VEQ09.sas7bdat
\\EXPNO9\\VLR09.sas7bdat
\\EXPNO9\\VOT09.sas7bdat
\\EXPNO9\\INB09.sas7bdat
\\EXPNO9\\IHB09.sas7bdat
\\EXPNO9\\IHC09.sas7bdat
\\EXPNO9\\IHD09.sas7bdat
\\EXPNO9\\MDB09.sas7bdat
\\EXPNO9\\MDC09.sas7bdat
\\EXPNO9\\EDA09.sas7bdat
\\EXPNO9\\SUB09.sas7bdat
\\EXPNO9\\ENT09.sas7bdat
\\EXPNO9\\TRD09.sas7bdat
\\EXPNO9\\TRV09.sas7bdat
\\EXPNO9\\TRE09.sas7bdat

\\EXPN09\\TRF09.sas7bdat
\\EXPN09\\MIS09.sas7bdat
\\EXPN09\\CNT09.sas7bdat
\\EXPN09\\XPA09.sas7bdat
\\EXPN09\\XPB09.sas7bdat
\\EXPN09\\FN209.sas7bdat
\\EXPN09\\FNA09.sas7bdat
\\EXPN09\\FNB09.sas7bdat
\\EXPN09\\RBT09.sas7bdat

## B. RECORD COUNTS AND LOGICAL RECORD LENGTHS

The following are the number of records and the logical record lengths (LRECL) in each data set (recall that each EXPN file contains 5 quarters of data within a single data set) The OBS count is also applicable to the STATA and SPSS files:

<u>ASCII data set</u>	<u>SAS data set</u>	<u>LREC L</u>	<u>Record Counts</u>
FMLYI091X.TXT	FMLI091X.SAS7BDAT	6219	6940
FMLYI092.TXT	FMLI092.SAS7BDAT	6219	6991
FMLYI093.TXT	FMLI093.SAS7BDAT	6219	6994
FMLYI094.TXT	FMLI094.SAS7BDAT	6219	7104
FMLYI101.TXT	FMLI101.SAS7BDAT	6219	7198
MEMBI091X.TXT	MEMI091X.SAS7BDAT	787	17432
MEMBI092.TXT	MEMI092.SAS7BDAT	787	17601
MEMBI093.TXT	MEMI093.SAS7BDAT	796	17637
MEMBI094.TXT	MEMI094.SAS7BDAT	796	17785
MEMBI101.TXT	MEMI101.SAS7BDAT	796	17922
MTABI091X.TXT	MTBI091X.SAS7BDAT	35	569990
MTABI092.TXT	MTBI092.SAS7BDAT	35	560836
MTABI093.TXT	MTBI093.SAS7BDAT	35	570110
MTABI094.TXT	MTBI094.SAS7BDAT	35	573383
MTABI101.TXT	MTBI101.SAS7BDAT	35	598534
ITABI091X.TXT	ITBI091X.SAS7BDAT	34	387501
ITABI092.TXT	ITBI092.SAS7BDAT	34	392274
ITABI093.TXT	ITBI093.SAS7BDAT	34	392511
ITABI094.TXT	ITBI094.SAS7BDAT	34	396261
ITABI101.TXT	ITBI101.SAS7BDAT	34	402249
ITBII091x.TXT	ITII091x.SAS7BDAT	35	532641
ITBII092.TXT	ITII092.SAS7BDAT	35	537891
ITBII093.TXT	ITII093.SAS7BDAT	35	540417
ITBII094.TXT	ITII094.SAS7BDAT	35	546585
ITBII101.TXT	ITII101.SAS7BDAT	35	555693

<u>PARA</u>			
FPAR05.TXT	FPAR05.SAS7BDAT	207	50633
FPAR06.TXT	FPAR06.SAS7BDAT	207	47198
FPAR07.TXT	FPAR07.SAS7BDAT	207	46315
FPAR0809.TXT	FPAR0809.SAS7BDAT	207	103616
MCHI05.TXT	MCHI05.SAS7BDAT	136	136117
MCHI06.TXT	MCHI06.SAS7BDAT	136	183329
MCHI07.TXT	MCHI07.SAS7BDAT	136	179200
MCHI0809.TXT	MCHI0809.SAS7BDAT	136	392848
<u>EXPN</u>			
APL09.TXT	APL09.SAS7BDAT	40	320070
RNT09.TXT	RNT09.SAS7BDAT	94	12214
OPB09.TXT	OPB09.SAS7BDAT	114	28078
OPD09.TXT	OPD09.SAS7BDAT	64	147
MOR09.TXT	MOR09.SAS7BDAT	231	17063
HEL09.TXT	HEL09.SAS7BDAT	231	1462
OPH09.TXT	OPH09.SAS7BDAT	75	2478
OPI09.TXT	OPI09.SAS7BDAT	320	41368
UTA09.TXT	UTA09.SAS7BDAT	254	47571
UTP09.TXT	UTP09.SAS7BDAT	43	3259
UTI09.TXT	UTI09.SAS7BDAT	72	44390
UTC09.TXT	UTC09.SAS7BDAT	119	115690
CRA09.TXT	CRA09.SAS7BDAT	74	911
CRB09.TXT	CRB09.SAS7BDAT	302	11182
APA09.TXT	APA09.SAS7BDAT	88	3061
APB09.TXT	APB09.SAS7BDAT	81	36125
EQB09.TXT	EQB09.SAS7BDAT	72	4791
FRA09.TXT	FRA09.SAS7BDAT	72	29879
FRB09.TXT	FRB09.SAS7BDAT	41	325
CLA09.TXT	CLA09.SAS7BDAT	79	141215
CLB09.TXT	CLB09.SAS7BDAT	79	19109
CLD09.TXT	CLD09.SAS7BDAT	72	2592
CLC09.TXT	CLC09.SAS7BDAT	72	3078
RTV09.TXT	RTV09.SAS7BDAT	48	775
LSD09.TXT	LSD09.SAS7BDAT	211	1529
OVB09.TXT	OVB09.SAS7BDAT	323	66290
OVC09.TXT	OVC09.SAS7BDAT	62	2286
VEQ09.TXT	VEQ09.SAS7BDAT	94	40896
VLR09.TXT	VLR09.SAS7BDAT	49	12775
VOT09.TXT	VOT09.SAS7BDAT	101	35227
INB09.TXT	INB09.SAS7BDAT	160	78734
IHB09.TXT	IHB09.SAS7BDAT	55	35766
IHC09.TXT	IHC09.SAS7BDAT	152	13001
IHD09.TXT	IHD09.SAS7BDAT	56	4918
MDB09.TXT	MDB09.SAS7BDAT	74	62429
MDC09.TXT	MDC09.SAS7BDAT	74	1263

EDA09.TXT	EDA09.SAS7BDAT	86	16234
SUB09.TXT	SUB09.SAS7BDAT	35	18146
ENT09.TXT	ENT09.SAS7BDAT	146	21855
TRD09.TXT	TRD09.SAS7BDAT	36	5689
TRV09.TXT	TRV09.SAS7BDAT	315	13665
TRE09.TXT	TRE09.SAS7BDAT	36	3376
TRF09.TXT	TRF09.SAS7BDAT	85	336
MIS09.TXT	MIS09.SAS7BDAT	72	61638
CNT09.TXT	CNT09.SAS7BDAT	36	37813
XPA09.TXT	XPA09.SAS7BDAT	130	35227
XPB09.TXT	XPB09.SAS7BDAT	189	35227
FN209.TXT	FN209.SAS7BDAT	33	25558
FNA09.TXT	FNA09.SAS7BDAT	42	6439
FNB09.TXT	FNB09.SAS7BDAT	104	8915

## C. DATA FLAGS

Data fields on the FMLY, MEMB, and EXPN 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 SALARYX becomes SALARYX\_. 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.

### 1. Flag values for the FMLY and MEMB files:

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.

Some Primary Sampling Units (PSUs) in some states are given "false" STATE codes for nondisclosure reasons. See Section IV.A.CU CHARACTERISTICS AND INCOME FILE (FMLY) on topcoding of CU characteristics and income for more detail.

### 2. Flag values for the EXPN and MTAB files:

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 value and is unadjusted.

A flag value of "E" indicates that the data field contains a valid value that has been allocated.

A flag value of "F" indicates that the data field contains a valid value that has been imputed or in some other way adjusted.

A flag value of "G" indicates that the data field contains a valid value that has been allocated and imputed.

A flag value of "T" indicates that the data field contains a valid value that has been topcoded or suppressed.

A flag value of "U" indicates that the data field contains a valid value that has been allocated and then topcoded or suppressed.

A flag value of "V" indicates that the data field contains a valid value that has been imputed or in some other way adjusted and then topcoded or suppressed.

A flag value of "W" indicates that the data field contains a valid value that has been allocated and imputed and then topcoded or suppressed.

A flag value of "H" refers to a valid blank for an expenditure that is a "parent record" where the expenditure was allocated to other records and the original expenditure was overwritten with a blank.

## D. INCOME IMPUTATION

Beginning in 2004, the CE 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 are now imputed using a multiple imputation process. These imputed income values are included in the FMLY, MEMB, ITAB, and ITAB\_IMPUTE (ITII) 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 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 variable

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 a 3 digit number that is coded as follows:

The first digit in the 3 digit code defines the imputation method. The meanings are:

- 1: No Imputation
- 2: Multiple Imputation due to invalid blank only
- 3: Multiple Imputation due to bracketing only
- 4: Multiple Imputation due to invalid blanks and bracketing
- 5: Multiple Imputation due to conversion of a valid blank to an invalid blank (this occurs only when initial values for all sources of income for the CU were valid blanks).

The meaning of the last two digits of the three digit code differs depending on whether you are looking at one of the components of overall income, like fsalaryxm, or you are looking at the summary level variable fincbtxm. For the components the last 2 digits represent the number of family members who had their data imputed for that source. For example, if a family had a value of 302 for fsalaryi that would mean that 2 of the members in the family had their salary income imputed and that in both cases the imputation was due to bracketing only. For the summary level variable fincbtxm which is a summation of all of the income components, the last 2 digits represent the number of income sources imputed for each member all added together. So, for example, if a family had 3 members and 2 had salary income imputed due to invalid blank only, and 2 had nonfarm income imputed due to bracketing only, and that was the only income data imputed for members of that family, then fsalaryi for the family would be 202, fnonfrmi would be 302, and fincbtxi would be 404.

The ITAB file includes income UCCs mapped from the associated INCOMEM variable in the FMLY files. The ITAB\_IMPUTE (ITII) file includes UCCs mapped from income variables subject to income imputation, 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 is used to link records of one CU from several files across all quarters in which they participate.

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 format will now indicate the CAPI section where the question can be found.

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 files, 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(Y092) indicates the variable is deleted starting with the data file of the second quarter of 2009.

\*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.

\*C(Yxxq) identifies a variable's content or description has changed beginning in 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. ALLOCATION AND RECORD ORIGIN (EXPANDED)

Expenditures on the EXPN files that have been allocated can be identified through their flag variable, which will have a value, set to 'H' (see Section III.C. DATA FLAGS). These expenditures can be recreated using the fields SEQNO and ALCNO. SEQNO is a counter assigned to make records unique. ALCNO is zero for all original expenditure records. If ALCNO is greater than zero, the corresponding expenditure record is the result of allocation of an original record whose expenditure field has been replaced with a blank for that CU. By summing expenditures for records with ALCNO greater than zero and the same SEQNO as the original record, one can arrive at the value which was allocated.

The codes for the variable REC\_ORIG, which are common to every EXPN file record, can be interpreted as follows:

### CODING

- 1 Data reported in the current quarter's interview.
- 2 Data reported in the previous quarter's interview that are encompassed by the current reference period. These data are brought forward through the reference period adjustment process.

- 3 Data reported in the previous quarter's interview that are encompassed by the current reference period, and this logical record duplicates a logical record from the current interview month. These data are brought forward through the reference period adjustment process; the data duplication is also identified during this process.
- 4 Inventory data reported in previous quarters' interviews brought forward through the inventory update process. No updates are applied to this logical record as none are indicated in the current inventory chart.
- 5 Inventory data reported in previous quarters' interviews brought forward through the inventory update process. Updates are applied based upon data contained in the current inventory chart.
- 6 Data created by the processing system.

## **G. NOTES ON FILES**

There are some specifics that are unique to particular files to be aware of when working with the datasets. Important notes that were previously listed with the Variable descriptions can now be found in this section of the documentation. Each note is broken into file and category.

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

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

Summary expenditure variables in this file can be combined to derive quarterly estimates for broad consumption categories. Demographic characteristics, such as family size, refer to the CU status on the date of the interview. Demographic characteristic information may change between interviews if, for example, a member enters or leaves the CU. Income variables contain annual values. Income data are collected in the second and fifth interviews only and cover the 12 months prior to the date of interview. Income data collected in the second interview are copied to the third and fourth interviews. Income data are updated only if a CU member over 13 is new to the CU or has not worked in previous interviews and has now started working. 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. SUMMARY EXPENDITURE DATA**

##### **Main Summary Level Expenditure Variables**

For each summary expenditure category listed below there are two variables. They apportion expenditures reported for the three-month reference period of the interview to the calendar quarters, relative to the month of interview, in which the expenditures occurred. The first variable contains expenditures made by the CU in the calendar quarter previous to the month of interview. These "previous quarter" expenditure variables are identified by "PQ" placed as the last two letters of the variable name. The second variable contains expenditures made in the calendar quarter of the month of interview (last 2 letters of the variable name 'CQ'). So if CUs were interviewed in May (when they reported their February, March, and April expenditures), the "PQ" variable would contain their February and March expenditures since the previous calendar quarter to a May interview is from January to March. The "CQ" variable for these CUs would contain only their April expenditures. The variables are set up this way to facilitate analysis by calendar time period. For example, to calculate an expenditure category mean for a given calendar quarter, expenditures from the "CQ" variable for interviews conducted during the quarter of interest are added to amounts from the "PQ" variable for interviews conducted during the subsequent

quarter prior to dividing by the number of observations. To derive expenditure statistics by collection period, i.e., for interviews conducted during a specific period, it is necessary to obtain all expenditures reported during each interview by summing the "PQ" and "CQ" variables of the desired expenditure category. See Section V.A.1.b. CALENDAR PERIOD VERSUS COLLECTION PERIOD for a detailed explanation of calendar and collection periods.

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. UCCs may not be represented in all Interview quarters. When UCCs are added or deleted to the summary variable definition, the quarter in which the addition (deletion) to the summary expenditure variable occurs is denoted by a leading superscript directly after the UCC code in the "Changes to the 2008 Microdata section". For example, N091<UCC> or D091<UCC> identifies a new or deleted UCC for a given summary expenditure variable beginning in Q091.

#### PLEASE NOTE THE FOLLOWING:

MISC2PQ(CQ) contains UCCs that are a subset of those included in MISCPQ(CQ) – miscellaneous expenditures. Component UCCs in MISCPQ(CQ) have been separated according to collection method. UCCs for which the values are obtained from questions asked in interviews 2 through 5 are now in MISC1PQ(CQ), while MISC2PQ(CQ) contains those UCCs from questions asked only in the fifth interview. To obtain population or sample estimates, the summary variable MISCX4PQ(CQ) has been created. It is comprised of MISC1PQ(CQ) expenditures and MISC2PQ(CQ) expenditures that have been multiplied by four, in order to account for families not in their fifth interviews. Similarly, TOTEX4PQ(CQ) reflects the adjustments for "non-fifth interview" families in MISC2PQ(CQ) and CASHCOPQ(CQ). Please be aware that for 2009Q1 MISCX4CQ(PQ) and TOTEX4PQ(CQ) overestimate the values of CASHCOPQ(CQ) and a portion of MISC2PQ(CQ) for "fifth interview" CUs and should only be used for population estimates.

#### **Travel related summary expenditure variables**

The summary level "travel" expenditure variables (T-variables) describe expenditures by consumer units on out-of-town trips. These variables have been constructed to facilitate research on travel related spending. Because the UCCs describing these items are scattered across several categories, they are collected in one format for the convenience of the user. As is the convention with the main summary level expenditure variables, each of the T-variable categories are sorted by expenditures that took place during the previous calendar quarter and current calendar quarter. However for the T-variables, the previous quarter expenditure variables are appended with "P" and the current quarter expenditure variables are appended with "C".

#### **Expenditure Outlays Summary Variables**

Expenditure outlay summary level variables (EVARS) are used to provide a measurement of all expenditure outlays. These variables are constructed similarly to the main summary level expenditure variables in that they contain interest payments for home mortgage and vehicles when financed. The difference with the EVARS are that they also include payments on principle for home mortgages and vehicles. Note: main summary level expenditure variables are components of the higher aggregated EVARS. The EVARS follow the same naming convention as the main summary level expenditure variables. Expenditures within the collection quarter are sorted by whether they occurred in the previous calendar quarter or in the current calendar quarter. As in the Travel related summary variables, the EVARS are appended with a "P" for previous or "C" for current.

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

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 on the date of the interview. Characteristic information may change between interviews. Income data are collected in the second and fifth interviews for all CU members over 13 years of age and in the third and fourth interviews for members over 13 who are new to the CU or who previously reported not working and are now working. Member income data from the second interview are carried over to the third and fourth interviews subject to the above conditions. Income variables contain annual values for the 12 months prior to the interview month. Income taxes withheld and pension and retirement contributions are shown both annually and as deductions from the member's last paycheck. 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.

### **3. MONTHLY EXPENDITURES (MTAB) FILE**

In the MTAB file, each expenditure reported by a CU is identified by UCC, gift/nongift status, and month in which the expenditure occurred. UCCs are six digit codes that identify items or groups of items. (See Section XIII.A for a listing of UCCs.) The expenditure data record purchases that were made during the three month period prior to the month of the interview. There may be more than one record for a UCC in a single month if that is what was reported to the interviewer. There are no missing values in this file. If no expenditure was reported for the item(s) represented by a UCC, then there is no record for the UCC on the file.

The following UCCs are from questions asked only in the 2nd or 5th interviews.

006001 Total amount owed to creditors (2nd interview)

006002 Total amount owed to creditors (5th interview)

710110 Finance charges, excluding mortgage and vehicles (5th interview)

NOTE: To be used at the macro level, the above UCCs need to be multiplied by 4 in order to account for those CUs that are not asked these questions.

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

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

The following UCCs are from questions asked only in the 5th interview. Therefore, there will be no values for these UCCs for CUs in their 2nd through 4th interviews. They have been multiplied by 4 because these data are used as estimated values for those CUs not asked the questions in that particular quarter. Therefore, to be used at the micro level they should be divided by 4. For example, if a CU reports \$50,000 for value of savings account for the past 12 months, the amount of  $((\$50,000 * 4) / 12 = \$16666.67)$  is entered as the cost for each of the 3 months of the quarter for UCC 920012. It is multiplied by 4 because only one-fourth of all CUs interviewed in a quarter are asked this question (those in the fifth interview) and it is divided by 12 to make it a monthly figure. To obtain the annual value for the CU, sum the cost for the 3 months, for the following UCCs:

001000 003000  
001010 003100  
001210 920010  
001220 920020  
002010 920030  
002020 920040  
002030

## **5. IMPUTED INCOME (ITII) FILE**

As a result of the introduction of multiply imputed income data in the Consumer Expenditure Survey, the ITII file is now on the Microdata. It is very similar to the ITAB file, except that the variable IMPNUM. will indicate the number (1-5) of the imputation variant of the income variable and it only contains UCCs from variables subject to income imputation.

## **6. PARADATA FILES**

With the development of computer-assisted modes of data collection, data on the survey process automatically generated by the new electronic modes became known as “paradata”<sup>1</sup>. The scope of paradata now includes computer-generated as well as other types of interviewer reported data about the process of collecting survey data.

Starting in 2005, the Consumer Expenditure Survey (CE) began recording data about attempts to contact the sample unit through the Contact History Instrument (CHI), developed by the U.S. Census Bureau. CHI provides interviewer observations for each contact attempt with a sample unit, regardless of whether contact is made.

Additional paradata is collected about the interview within the interview collection instrument (CAPI). This data includes information on the amount of time required to collect each interview and interview section, as well as other interviewer entered information about the resulting survey.

The paradata files include all eligible interviews for both completed interviews and eligible but non-responding sample units (Type A non-interviews), in Interviews 1 through 5. The case’s final disposition for a sample unit can be found in the variable “OUTCOME” in the FPAR file. All other (non-paradata) files on the microdata CD include only completed interviews (OUTCOME = ‘201’ and ‘203’) and interviews 2 through 5.

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<sup>1</sup> Couper, M. (1998). Measuring survey quality in a CASIC environment. Pp. 41-46 in Proceedings of the Section on Survey Research Methods. Alexandria, VA: American Statistical Association.

The paradata files FPAR09 and MCHI0809 each contain 11 quarters of data. This allows users to have a possible complete set of interviews (1-5) for respondents in 2009. These files include the variable CUID, which allows users to link the same CU across quarters (and interviews). It also includes the variable NEWID, which allows users to link the paradata for a particular quarter (interview) with other data from that quarter.

For 2009 only, the CD will also include historical paradata files for 2005, 2006, and 2007 (2008 is included in the 0809 file), each containing 4 quarters of data, except for 2005, which contains 3 quarters of data.

The paradata are in two files:

**a. CU Level Paradata file (FPAR)**

The CU level paradata contains one record per CU per interview. Most of the data included in the file are only relevant to completed or partially completed interviews and will have missing data for non-interviews. The non-interviews in these cases will still have an ID and OUTCOME code.

This file is derived from information captured automatically in the CAPI instrument in addition to responses entered directly by the interviewer in the CAPI instrument.

This file includes information on the total amount of time needed to complete each section (for a description of the sections and questions, see the CE website:  
<http://www.bls.gov/cex/csxsurveyforms.htm#interview> )

**b. Contact History Attempt file (MCHI)**

The contact history attempt file consists of data collected through the CHI instrument. There –can be multiple records per CU per quarter.

Examples of CHI information include whether contact was made, the mode of contact (e.g., by telephone or in person), reasons for non-interview, the strategies the interviewer used when attempting to contact the sample unit, as well the interviewer's observations about interactions with a sample unit that was contacted. Interviewers can make a CHI entry immediately after a contact attempt or at a later time (for example, at home) . Every time the survey questionnaire is accessed on the laptop, CHI launches automatically upon exiting the questionnaire, at which point, interviewers can complete a CHI entry. Alternatively, a contact attempt entry can also be recorded by selecting a case from the Case Management System and bringing up CHI without opening the survey itself. Interviewers are instructed to complete a CHI record each time a contact attempt is made.<sup>2</sup>

## **7. DETAILED EXPENDITURES (EXPN) FILES**

Positions 1-20 contain the variables QYEAR, NEWID, SEQNO, ALCNO and REC\_ORIG that are common to all sections of EXPN. Descriptions of these variables can be found in Section 1 (APA).

**a. SECTION 1 GENERAL SURVEY INFORMATION (APA)**

PART C Major Household Appliances - For New Consumer Units Only

This file contains an inventory of major household appliances belonging to the CU. These questions are asked at the first interview and the information is carried forward to subsequent interviews through the inventory update process. Note that the title of this section on the questionnaire each user has received indicates it is asked "For New Consumer Units Only". This is because this questionnaire is used for the

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<sup>2</sup>In theory, interviewers are expected to record a CHI entry whenever CHI automatically launches. However, the first CHI screen does have an "out" by allowing interviewers to select the category "Looking at a case – exit CHI". Therefore it is possible for interviewers to complete an interview without ever having recorded a single CHI entry.

second through fifth interviews. The section would only be completed if a new CU had moved to the sample address, replacing an old CU that had previously participated.

**b. SECTION 21 CREDIT LIABILITY(FN2)**

PART A.1 Credit Balances - Second Quarter Only (FN2)

Data are collected in the second interview and carried forward for subsequent interviews.

**8. PROCESSING FILES**

**c. Istub file**

X:\Programs\Istub2009.txt

The Istub 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 an 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.

**d. UCC file**

X:\INTRVW09\UCCI09.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 MTAB FILE and XIII.B. INCOME AND RELATED UCCS ON ITAB FILE for a list of UCCs and their full titles by file—expenditure (MTAB) or income (ITAB).)	8	CHAR(50)

**e. Vehicle file**

New vehicle codes were introduced with the CAPI instrument and should be used for vehicle information collected from the 2003q2 survey on. These codes can be found in the variable MKMDEL (the first 3 characters) in EXPN Section 10, Part B (Rented and Leased Vehicles – Detailed Questions for Leased Vehicles) and MAKE in EXPN Section 11, Part B (Owned Vehicles - Detailed Questions).

X:\EXPN09\CAPIVEHI09.TXT

CAPIVEHI09.TXT is formatted as follows

DESCRIPTION	START POSITION	FORMAT
Make code	1	CHAR(3)
Make of vehicle	5	CHAR(32)

**f. Sample program file**

X:\Programs\SAS\Intrvw Mean and SE.sas  
X:\Programs\SAS\Intrvw Sumvars.sas  
X:\Programs\SAS\Integrated Mean and SE.sas

The Intrv Mean and SE program file contains the computer program used in Section VII.A. SAMPLE PROGRAM of the documentation. This file has been created to provide programming assistance and to validate the data on the CD.

In addition to the Intrvw Mean and SE.sas program, there are additional sample programs in the Programs folder to provide assistance using different files. The Intrvw Sumvars.sas program uses the summary variables in FMLY file to create calendar year estimates. The Integrated Mean and SE.sas program is used using data from the Diary and Interview files to create the means and standard errors using the same methods as the published tables.

Note: Estimates from the programs will not match the published tables exactly due to topcoding in the public-use data.

## **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 five quarters of data in the CE microdata release are used when calculating the critical value and topcode amounts. If an observation is topcoded, the flag variable assigned to that observation is set to 'T'.

Since the critical value and mean of the set of values outside the critical value may differ with each annual (five-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 five-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 table shows the FMLY file variables are subject to topcoding. The table also shows the critical values and topcode values associated with the variables.

Variable	Description	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
ALIOTHX	Other regular contributions including alimony	50,127	NA	82,156	NA
ALIOTHXM	Amount received from other regular contributions including alimony	50,127	NA	58,205	NA
BSINVSTX	Investments to farm or business	700,000	NA	1,936,666	NA
CHDLMPX	Lump sum child support payment	13,000	NA	18,926	NA
CHDOTHX	Child support payments	17,800	NA	27,105	NA
CHDOTHXM	Amount received from other child support payments	17,800	NA	22,125	NA
CKBKACTX	Market value of all checking accounts	28,000	NA	173,264	NA
COMPBNDX	Change in U.S. savings bonds	10,000	-5,000	17,939	-18,400
COMPCKGX	Change in checking account	20,000	-20,000	64,333	-182,876
COMPOWDX	Change in money owed to consumer unit	60,000	-20,000	256,833	-51,250
COMPSAVX	Change in savings account	55,511	-75,000	137,333	-194,740
COMPSECX	Difference in estimated market value of all stocks, bonds, or mutual funds including broker fees	350,000	- 500,000	946,143	-755,909
FEDRFNDX	Federal income tax refunds	8,950	NA	14,839	NA
FEDTAXX	Additional federal income tax paid (new UCC Q20062)	33,000	NA	64,677	NA
FININCX	Dividends, royalties, estates, trusts	50,000	NA	246,510	NA
FININCXM	Amount received from regular income from dividends, royalties, estates or trusts	50,000	NA	94,562	NA
INCLOSAM	Amount of net income or loss received from roomers or boarders	40,000	-20,000	41,005	-10,886
INCLOSBM	Amount of net income or loss received from other rental units	67,000	-25,000	174,744	-31,208
INCLOSSA	Roomer and boarder income	40,000	-20,000	64,025	-23,845
INCLOSSB	Other rental income	67,000	-25,000	504,500	-45,733
INSRFNDX	Refunds from insurance policies	10,000	NA	23,500	NA

<b>Variable</b>	<b>Description</b>	<b>2009 Upper Critical Value</b>	<b>2009 Lower Critical Value</b>	<b>2009 Upper Topcode Value</b>	<b>2009 Lower Topcode Value</b>
INTEARNM	Amount received from interest on savings accounts or bonds	35,000	NA	55,879	NA
INTEARNX	Interest	35,000	NA	81,021	NA
LUMPSUMX	Lump sum receipts	124,000	NA	181,771	NA
MISCTAXX	Other taxes	10,000	NA	17,839	NA
MONEYOWDX	Amount of money owed to CU by persons outside CU	80,000	NA	352,813	NA
OTHRFNDX	Other tax refunds	5,000	NA	7,625	NA
OTHRINCM	Amount received from other money income	50,000	NA	107,195	NA
OTHRINCX	Other income	50,000	NA	124,818	NA
PENSIONM	Amount received from pensions or annuities	63,472	NA	72,108	NA
PENSIONX	Pensions and annuities	63,472	NA	101,035	NA
PTAXRFDX	Refunds from property taxes	2,000	NA	4,566	NA
PURSSECX	Purchase price of stocks, bonds or mutual funds including broker fees	200,000	NA	1,073,125	NA
RENTEQVX	Rental equivalence of owned home	3,000	NA	5,174	NA
SALEINCX	Money from sale of household furnishings, etc.	5,000	NA	56,131	NA
SAVACCTX	Market value of all savings accounts	130,000	NA	313,601	NA
SECESTX	Market value of all securities	1,000,000	NA	3,679,267	NA
SELLSECX	Sale price of stocks, bonds, and mutual funds, net	300,000	NA	535,800	NA
SETLINSX	Change in surrender of insurance policies	80,000	NA	176,000	NA
SLOCTAXX	Additional state and local income tax paid (new UCC Q20062)	8,000	NA	14,726	NA
SLRFUNDX	State and local income tax refunds	2,456	NA	4,163	NA
SSOVERPX	Refund from overpayment on Social Security	800	NA	1,609	NA
TAXPROPX	Personal property taxes	1,150	NA	2,202	NA
USBNDX	Market value of all U.S. savings bonds	29,000	NA	67,310	NA
WDBSASTX	Amount of assets withdrawn from own farm or business	100,000	NA	358,100	NA
WDBSGDSX	Amount of goods or services withdrawn from own farm or business	4,500	NA	38,333	NA

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.F.1.e. INCOME - III.F.1.h. RETIREMENT AND PENSION DEDUCTIONS for a list of component variables.)

EARNINCX	Amount of CU income from earnings before taxes
FAMTFEDX, FAMTFEDM	Amount of Federal income tax deducted from last pay, annualized for all CU members
FFRMINCX, FFRMINCM	Amount of income or loss received from own farm
FGOVRETX, FGOVRETM	Amount of government retirement deducted from last pay, annualized for all CU members
FINCATAX, FINCATXM	Amount of CU income after taxes
FINCBTAX, FINCBTXM	Amount of CU income before taxes
FINDRETX	Amount of money placed in individual retirement plan
FJSSDEDX, FJSSDEDM	Estimated amount of annual Social Security contribution
FNONFRMX, FNONFRMM	Amount of income or loss received from nonfarm business
FPRIPENX, FPRIPENM	Amount of private pension fund deducted from last pay, annualized for all CU members
FRRDEDX, FRRDEDM	Amount of Railroad Retirement deducted from last pay, annualized for all CU members
FSALARYX, FSALARYM	Amount received from wage and salary income before deductions
FSLTAXX, FSLTAXXM	Amount of state and local income taxes deducted from last pay, annualized for all CU members
NO_EARNX	Amount of income from sources other than earnings before taxes
NONINCMX	Amount of other money receipts excluded from family income
TOTTXPDX, TOTTXPDM	Amount of personal taxes paid

Here are some examples of situations that may occur. The value for the variable FFRMINCM (Family income or loss from farm) is computed as the sum of the values reported for the variable FARMINCM (member income or loss from farm) from the MEMB file. FARMINCM is subject to topcoding beyond the critical value of \$120,000 (-\$9,999). The topcode value for FARMINCM is \$266,539 (-\$21,557). (See Section IV.B. MEMBER CHARACTERISTICS AND INCOME FILE (MEMB)).

FARMINCM		FFRMINCM		FLAGGED AS TOPCODED?
CU		REPORTED	AFTER TOPCODING	
CU 1:	MEMB1	\$110,000	\$110,000	
	MEMB2	110,000	110,000	No
CU 2:	MEMB1	210,000	266,539	
	MEMB2	10,000	10,000	Yes
CU 3	MEMB1	500,000	266,539	
	MEMB2	50,000	50,000	Yes
CU 4	MEMB1	52,000	52,000	
	MEMB2	-55,000	-21,557	Yes

While CUs 1 and 2 each originally report \$220,000 in FARMINCM, topcoding is done only on the value reported by MEMB1 of CU2. Thus, the value for FFRMINCM for CU2 is higher 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 CU3 has a topcoded value lower than the reported value, CU2's topcoded FFRMINCM value (\$276,539) is higher than the amount that it reported (\$220,000). The case of CU4 demonstrates that the value for FFRMINCM can be lower than other topcoding situations, yet still be flagged as topcoded. This is due to the presence of a negative value (loss) for FARMINCM reported by MEMB2. The reverse can also occur.

The value of the variable, STATE, which identifies the 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 the POPSIZE, REGION, and BLS\_URBN variables, which show the population size of the geographic area that is sampled, the four Census regions, and 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.

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 required suppression.) In total, approximately 4% of observations are recoded.

RR	01	Alabama	29	Missouri
	02	Alaska	*30	Montana
	04	Arizona	31	Nebraska
	*05	Arkansas	32	Nevada
	**06	California	33	New Hampshire
	**08	Colorado	34	New Jersey
	09	Connecticut	**36	New York
R	10	Delaware	*37	North Carolina
	11	District of Columbia	**39	Ohio
	12	Florida	40	Oklahoma
RR**	13	Georgia	**41	Oregon
	15	Hawaii	42	Pennsylvania
	16	Idaho	44	Rhode Island

**17	Illinois	45	South Carolina
**18	Indiana	*46	South Dakota
**20	Kansas	**47	Tennessee
21	Kentucky	**48	Texas
22	Louisiana	49	Utah
**23	Maine	**51	Virginia
RR 24	Maryland	53	Washington
25	Massachusetts	**54	West Virginia
**26	Michigan	RR**55	Wisconsin
R 27	Minnesota		
*28	Mississippi		

\* indicates that the STATE code has been suppressed for all sampled CUs in that state.

\*\* indicates that the STATE code has been suppressed for some sampled CUs in that state.

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

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

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

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

<sup>1</sup> A STATE stratum is a unique POPSIZE and BLS\_URBN combination.  
States not listed are not in the CE sample.

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

The following table identifies the MEMB file variables subject to topcoding. The table also shows the critical values and topcode values associated with each variable listed.

Variable	Description	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcod e Value	2009 Lower Topcod e Value
AGE	Age of member	82	NA	87	NA
AMTFED	Amount of Federal income tax deducted from last pay	1,160	NA	2,901	NA
ANFEDTX	Annual amount of Federal income tax deducted from pay	24,000	NA	44,163	NA
ANFEDTXM	Annual amount of Federal income tax deducted from pay	24,000	NA	44,570	NA
ANGOVRTM	Annual amount of government retirement deducted from pay	8,843	NA	12,040	NA
ANGOVRTX	Annual amount of government retirement deducted from pay	8,843	NA	11,962	NA
ANPRVPNM	Annual amount of private pension fund deducted from pay	18,833	NA	26,201	NA
ANPRVPNX	Annual amount of private pension fund deducted from pay	18,833	NA	25,761	NA
ANRRDEDM	Annual amount of Railroad Retirement deducted from pay	11,786	NA	13,565	NA

Variable	Description	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
ANRRDEDX	Annual amount of Railroad Retirement deducted from pay	11,786	NA	13,054	NA
ANSLTX	Annual amount of state and local income taxes deducted from pay	9,000	NA	16,597	NA
ANSLTXM	Annual amount of state and local income taxes deducted from pay	9,000	NA	16,701	NA
FARMINCM	Amount of income or loss received from own farm	120,000	-9,999	266,539	-21,557
FARMINCX	Amount of income or loss received from own farm	120,000	-9,999	262,500	-34,783
GOVRETX	Amount of government retirement deducted from last pay	900	NA	3,649	NA
GROSPAYX	Amount of last gross pay	6,666	NA	14,686	NA
INDRETX	Amount of money placed in individual retirement plan	24,000	NA	46,902	NA
JSSDEDX	Estimated annual Social Security contribution	8,797	NA	12,880	NA
JSSDEDXM	Estimated annual Social Security contribution	8,797	NA	9,602	NA
NONFARMM	Amount of income or loss received from own nonfarm business	150,000	-9,999	159,852	-29,147
NONFARMX	Amount of income or loss received from own nonfarm business	150,000	-9,999	293,281	-77,427
PRIVPENX	Amount of private pension fund deducted from last pay	1,060	NA	3,458	NA
RRRDEDX	Amount of Railroad Retirement deducted from last pay	500	NA	626	NA
SALARYX	Amount received from wage and salary income before deductions	150,000	NA	268,401	NA
SALARYXM	Amount received from wage and salary income before deductions	150,000	NA	191,626	NA
SLFEMPSM	Amount of self-employment Social Security contribution	17,593	NA	14,566	NA
SLFEMPSS	Amount of self-employment Social Security contribution	17,593	NA	21,688	NA
SLTAXX	Amount of state and local income taxes deducted last pay	415	NA	994	NA

#### Special suppression for MEMB file variables

The five MEMB file variables--AMTFED, GOVRETX, PRIVPENX, RRRDEDX, and SLTAXX--describe deductions from the most recent pay. These variables are used in conjunction with GROSPAYX (amount of last gross pay) and SALARYXM (annual wage and salary income) to derive ANFEDTX, ANGOVRTX, ANPRVPNX, ANRRDEDX, and ANSLTX, which represent the estimated annual deductions for each of these income deduction categories. For example, the estimated annual Federal income tax deduction from pay is calculated as

$$(1) \quad \text{ANFEDTXM} = (\text{SALARYXM} (\text{AMTFED}/\text{GROSPAYX})).$$

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

$$(2) \quad \text{SALARYXM} = (\text{ANFEDTXM} (\text{GROSPAYX}/\text{AMTFED})).$$

In the above example, a problem with disclosure may arise when neither ANFEDTXM, GROSPAYX, nor AMTFED are topcoded, *but SALARYXM is*. In this situation SALARYXM can be recalculated to obtain its original value by inserting the non-topcoded values into equation (2) and solving. 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 SALARYXM is greater than the critical value but ANFEDTXM, GROSPAYX, and AMTFED are not, then the values for ANFEDTXM, GROSPAYX, and AMTFED are suppressed and their flag variables are assigned a value of 'T'.

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

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

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

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

The same special suppression for MEMB file variables occurs with the original (pre-income imputation) variables that correspond to the variables noted above (SALARYX, ANFEDTX).

## C. MONTHLY EXPENDITURE FILE (MTAB)

The MTAB variable COST is subject to topcoding for the following UCCs. If the value of COST is greater (less) than the designated critical values for the listed UCCs, COST is set to the topcode value and the associated flag variable, COST\_, is set to 'T'. The table also lists the critical values and topcode values (rounded to the nearest dollar) of the variable COST

Note: For some UCCs multiple topcode values should be expected based on where the original value is mapped from.

Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
210110	Rent	NA	1,900	NA	2,673	NA
210210	Lodging on out-of-town trips	NA	1,800	NA	3,333	NA
210210	Lodging on out-of-town trips	TOTYUPDY EQ '130'	1,129	NA	2,252	NA

Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
210210	Lodging on out-of-town trips	TRNONCUY EQ '130'	938	NA	2,521	NA
210310	Housing while attending school	EDUC_AY EQ '310' AND EDMONTHA EQ '13'	1,500	NA	2,012	NA
210310	Housing while attending school	EDUC_AY EQ '310' AND EDMONTHA NE '13'	5,813	NA	9,825	NA
210901	Ground rent	OWNYI EQ '100' OR OWNYI EQ '200'	1,620	NA	2,089	NA
210902	Ground rent	OWNYI EQ '300'	2,600	NA	3,173	NA
220211	Property taxes	OWNYB EQ '100' OR OWNYB EQ '200'	767	NA	1,158	NA
220212	Property taxes	OWNYB EQ '300'	667	NA	1,122	NA
220512	Materials and supplies purchased for insulation, dwellings under constr, additions, finishing, remodeling, landscaping, etc.	('1'<=QTENURE & QTENURE<='2') & (('100'<=CRMCODEA & CRMCODEA<='150')   CRMCODEA='240')	2,333	NA	6,722	NA
220512	Materials and supplies purchased for insulation, dwellings under constr, additions, finishing, remodeling, landscaping, etc.	CRMPTYPE='1' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	7,352	NA	8,833	NA
220512	Materials and supplies purchased for insulation, dwellings under constr, additions, finishing, remodeling, landscaping, etc.	CRMPTYPE='1' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	6,748	NA	21,667	NA
220512	Materials and supplies purchased for insulation, dwellings under constr, additions, finishing, remodeling, landscaping, etc.	CRMPTYPE='1' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	6,800	NA	8,000	NA



<b>Variable</b>	<b>Description</b>	<b>Condition</b>	<b>2009 Upper Critical Value</b>	<b>2009 Lower Critical Value</b>	<b>2009 Upper Topcode Value</b>	<b>2009 Lower Topcode Value</b>
220513	Supplies purchased for additions, maintenance and repairs, and new construction	CRMPTYPE='2' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	1,000	NA	1,433	NA
220513	Supplies purchased for additions, maintenance and repairs, and new construction	CRMPTYPE='2' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	200	NA	1,688	NA
220513	Supplies purchased for additions, maintenance and repairs, and new construction	CRMPTYPE='2' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	800	NA	17,833	NA
220611	Capital improvement labor and materials (owned home)	CRMPTYPE='1' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	700	NA	1,633	NA
220611	Capital improvement labor and materials (owned home)	CRMPTYPE='1' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	410	NA	1,050	NA
220611	Capital improvement labor and materials (owned home)	CRMPTYPE='1' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	750	NA	1,950	NA
220611	Capital improvement labor and materials (owned home)	CRMPTYPE='1' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	46,750	NA	117,244	NA
220611	Capital improvement labor and materials (owned home)	CRMPTYPE='1' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	60,000	NA	101,555	NA
220611	Capital improvement labor and materials (owned home)	CRMPTYPE='1' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	78,000	NA	137,675	NA
220615	Capital improvement labor and materials (owned	CRMPTYPE='2' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	3,500	NA	14,345	NA

Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
	vacation)					
220615	Capital improvement labor and materials (owned vacation)	CRMPTYPE='2' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	4,000	NA	13,705	NA
220615	Capital improvement labor and materials (owned vacation)	CRMPTYPE='2' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	14,000	NA	19,605	NA
230112	Painting and papering	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	0	NA	35	NA
230112	Painting and papering	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	8,000	NA	15,355	NA
230112	Painting and papering	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	12,245	NA	22,667	NA
230112	Painting and papering	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	7,000	NA	22,701	NA
230113	Plumbing and water heating	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='200'	4,500	NA	7,300	NA
230113	Plumbing and water heating	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='200'	5,725	NA	6,182	NA
230113	Plumbing and water heating	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='200'	7,452	NA	9,554	NA
230114	Heat, a/c, electrical work	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='210'   CRMCODEB='220')	8,810	NA	12,400	NA

Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
230114	Heat, a/c, electrical work	CRMPTYPE='1' & (CRMPTYPE='3'   CRMPTYPE='4') & (CRMCODEB='210'   CRMCODEB='220')	9,217	NA	13,565	NA
230114	Heat, a/c, electrical work	CRMPTYPE='1' & (CRMPTYPE='3'   CRMPTYPE='4') & (CRMCODEB='210'   CRMCODEB='220')	10,000	NA	15,040	NA
230115	Roofing and gutters	CRMPTYPE='1' & (CRMPTYPE='3'   CRMPTYPE='4') & CRMCODEB='260'	12,800	NA	19,296	NA
230115	Roofing and gutters	CRMPTYPE='1' & (CRMPTYPE='3'   CRMPTYPE='4') & CRMCODEB='260'	9,200	NA	14,517	NA
230115	Roofing and gutters	CRMPTYPE='1' & (CRMPTYPE='3'   CRMPTYPE='4') & CRMCODEB='260'	13,098	NA	17,530	NA
230121	Repair and replacement of hard surface flooring	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='230'	150	NA	328	NA
230122	Repair and replacement of hard surface flooring	CRMPTYPE='1' & (CRMPTYPE='3'   CRMPTYPE='4') & CRMCODEB='230'	99	NA	237	NA
230122	Repair and replacement of hard surface flooring	CRMPTYPE='1' & (CRMPTYPE='3'   CRMPTYPE='4') & CRMCODEB='230'	9,000	NA	11,394	NA
230122	Repair and replacement of hard surface flooring	CRMPTYPE='1' & (CRMPTYPE='3'   CRMPTYPE='4') & CRMCODEB='230'	5,700	NA	7,745	NA
230122	Repair and replacement of hard surface flooring	CRMPTYPE='1' & (CRMPTYPE='3'   CRMPTYPE='4') & CRMCODEB='230'	7,000	NA	14,000	NA
230150	Repair or maintenance services	(CRMPTYPE='4'   CRMPTYPE='5') & (('120'<=CRMCODEB & CRMCODEB<='220')   CRMCODEB='240'   ('260'<=CRMCODEB & CRMCODEB<='300'))	3,500	NA	6,871	NA

Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
230150	Repair or maintenance services	(CRMPTYPE='4'   CRMPTYPE='5') & (('120'<=CRMCODEB & CRMCODEB<='220')   CRMCODEB='240'   ('260'<=CRMCODEB & CRMCODEB<='300'))	4,900	NA	7,128	NA
230150	Repair or maintenance services	(CRMPTYPE='4'   CRMPTYPE='5') & (('120'<=CRMCODEB & CRMCODEB<='220')   CRMCODEB='240'   ('260'<=CRMCODEB & CRMCODEB<='300'))	6,000	NA	9,371	NA
230151	Other repair and maintenance services	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (('120'<=CRMCODEB & CRMCODEB<='160')   CRMCODEB='190'   CRMCODEB='240'   ('270'<=CRMCODEB & CRMCODEB<='300'))	250	NA	436	NA
230151	Other repair and maintenance services	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (('120'<=CRMCODEB & CRMCODEB<='160')   CRMCODEB='190'   CRMCODEB='240'   ('270'<=CRMCODEB & CRMCODEB<='300'))	160	NA	207	NA
230151	Other repair and maintenance services	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (('120'<=CRMCODEB & CRMCODEB<='160')   CRMCODEB='190'   CRMCODEB='240'   ('270'<=CRMCODEB & CRMCODEB<='300'))	75	NA	238	NA

Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
230151	Other repair and maintenance services	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (('120'<=CRMCODEB & CRMCODEB<='160')   CRMCODEB='190'   CRMCODEB='240'   '270'<=CRMCODEB & CRMCODEB<='300'))	8,682	NA	16,300	NA
230151	Other repair and maintenance services	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (('120'<=CRMCODEB & CRMCODEB<='160')   CRMCODEB='190'   CRMCODEB='240'   '270'<=CRMCODEB & CRMCODEB<='300'))	10,925	NA	18,138	NA
230151	Other repair and maintenance services	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (('120'<=CRMCODEB & CRMCODEB<='160')   CRMCODEB='190'   CRMCODEB='240'   '270'<=CRMCODEB & CRMCODEB<='300'))	13,000	NA	20,750	NA
230152	Repair and remodeling services	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (('120'<=CRMCODEB & CRMCODEB<='220')   CRMCODEB='240'   '260'<=CRMCODEB & CRMCODEB<='300'))	2,900	NA	8,198	NA
230152	Repair and remodeling services	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (('120'<=CRMCODEB & CRMCODEB<='220')   CRMCODEB='240'   '260'<=CRMCODEB & CRMCODEB<='300'))	4,718	NA	7,333	NA

Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
		CRMCODEB<='300'))				
230152	Repair and remodeling services	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (('120'<=CRMCODEB & CRMCODEB<='220')   CRMCODEB='240'   ('260'<=CRMCODEB & CRMCODEB<='300'))	3,460	NA	7,883	NA
230901	Property management	REGFEECR EQ '01000' AND (OWNYI EQ '100' OR OWNYI EQ '200')	491	NA	848	NA
240111	Paint, wallpaper, and supplies	('3'<=QTENURE & QTENURE<='5') & (CRMCODEA='170'   CRMCODEA='180')	33	NA	61	NA
240111	Paint, wallpaper, and supplies	(CRMPTYPE='4'   CRMPTYPE='5') & (CRMCODEB='170'   CRMCODEB='180')	135	NA	271	NA
240111	Paint, wallpaper, and supplies	(CRMPTYPE='4'   CRMPTYPE='5') & (CRMCODEB='170'   CRMCODEB='180')	226	NA	845	NA
240111	Paint, wallpaper, and supplies	(CRMPTYPE='4'   CRMPTYPE='5') & (CRMCODEB='170'   CRMCODEB='180')	217	NA	506	NA
240112	Paints, wallpaper and supplies	('1'<=QTENURE & QTENURE<='2') & (CRMCODEA='170'   CRMCODEA='180')	151	NA	327	NA
240112	Paints, wallpaper and supplies	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	361	NA	658	NA
240112	Paints, wallpaper and supplies	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='170'	813	NA	1,110	NA

Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
		CRMCODEB='180')				
240112	Paints, wallpaper and supplies	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	903	NA	2,470	NA
240113	Paints, wallpaper, supplies	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	0	NA	169	NA
240113	Paints, wallpaper, supplies	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	50	NA	280	NA
240113	Paints, wallpaper, supplies	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	117	NA	609	NA
240121	Tools and equipment for painting and wallpapering	('3'<=QTENURE & QTENURE<='5') & (CRMCODEA='170'   CRMCODEA='180')	4	NA	7	NA
240121	Tools and equipment for painting and wallpapering	(CRMPTYPE='4'   CRMPTYPE='5') & (CRMCODEB='170'   CRMCODEB='180')	15	NA	29	NA
240121	Tools and equipment for painting and wallpapering	(CRMPTYPE='4'   CRMPTYPE='5') & (CRMCODEB='170'   CRMCODEB='180')	24	NA	91	NA
240121	Tools and equipment for painting and wallpapering	(CRMPTYPE='4'   CRMPTYPE='5') & (CRMCODEB='170'   CRMCODEB='180')	23	NA	54	NA
240122	Tools and equipment for painting and wallpapering	('1'<=QTENURE & QTENURE<='2') & (CRMCODEA='170'   CRMCODEA='180')	16	NA	35	NA
240122	Tools and equipment for painting and wallpapering	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	39	NA	71	NA

Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
240122	Tools and equipment for painting and wallpapering	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	87	NA	119	NA
240122	Tools and equipment for painting and wallpapering	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	97	NA	265	NA
240123	Tools and equipment for painting and wallpapering	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	0	NA	18	NA
240123	Tools and equipment for painting and wallpapering	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	5	NA	30	NA
240123	Tools and equipment for painting and wallpapering	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	13	NA	65	NA
240211	Materials for plastering, panels, roofing, gutters, etc.	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	29	NA	68	NA
240211	Materials for plastering, panels, roofing, gutters, etc.	('3'<=QTENURE & QTENURE<='5') & (CRMCODEA='190'   ('260'<=CRMCODEA & CRMCODEA<='280'))	50	NA	140	NA
240211	Materials for plastering, panels, roofing, gutters, etc.	(CRMPTYPE='4'   CRMPTYPE='5') & (CRMCODEB='190'   ('260'<=CRMCODEB & CRMCODEB<='280'))	166	NA	301	NA
240211	Materials for plastering, panels, roofing, gutters, etc.	(CRMPTYPE='4'   CRMPTYPE='5') & (CRMCODEB='190'   ('260'<=CRMCODEB & CRMCODEB<='280'))	100	NA	289	NA



Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
240212	Materials for plaster., panel., siding, windows, doors, screens, awnings	('1'<=QTENURE & QTENURE<='2') & (CRMCODEA='190'   CRMCODEA='270'   CRMCODEA='280')	893	NA	1,599	NA
240212	Materials for plaster., panel., siding, windows, doors, screens, awnings	('1'<=QTENURE & QTENURE<='2') & CRMCODEA='160'	107	NA	275	NA
240212	Materials for plaster., panel., siding, windows, doors, screens, awnings	CRMPYTYPE='1' & (CRMPYTYPE='3'   CRMPYTYPE='4') & (CRMCODEB='190'   CRMCODEB='270'   CRMCODEB='280')	1,300	NA	2,133	NA
240212	Materials for plaster., panel., siding, windows, doors, screens, awnings	CRMPYTYPE='1' & (CRMPYTYPE='3'   CRMPYTYPE='4') & (CRMCODEB='190'   CRMCODEB='270'   CRMCODEB='280')	2,300	NA	3,267	NA
240212	Materials for plaster., panel., siding, windows, doors, screens, awnings	CRMPYTYPE='1' & (CRMPYTYPE='3'   CRMPYTYPE='4') & (CRMCODEB='190'   CRMCODEB='270'   CRMCODEB='280')	675	NA	1,325	NA
240212	Materials for plaster., panel., siding, windows, doors, screens, awnings	CRMPYTYPE='1' & (CRMPYTYPE='3'   CRMPYTYPE='4') & CRMCODEB='160'	344	NA	594	NA
240212	Materials for plaster., panel., siding, windows, doors, screens, awnings	CRMPYTYPE='1' & (CRMPYTYPE='3'   CRMPYTYPE='4') & CRMCODEB='160'	430	NA	644	NA
240212	Materials for plaster., panel., siding, windows, doors, screens, awnings	CRMPYTYPE='1' & (CRMPYTYPE='3'   CRMPYTYPE='4') & CRMCODEB='160'	644	NA	1,019	NA
240213	Materials and equipment for roof and gutters	('1'<=QTENURE & QTENURE<='2') & CRMCODEA='260'	257	NA	595	NA
240213	Materials and equipment for roof and gutters	CRMPYTYPE='1' & (CRMPYTYPE='3'   CRMPYTYPE='4') & CRMCODEB='260'	1,200	NA	4,750	NA

Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
240213	Materials and equipment for roof and gutters	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='260'	600	NA	915	NA
240213	Materials and equipment for roof and gutters	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='260'	1,600	NA	2,762	NA
240222	Materials for patio, walk, fence, driveway, masonry, brick and stucco work	('1'<=QTENURE & QTENURE<='2') & CRMCODEA='160'	18	NA	45	NA
240222	#N/A	('1'<=QTENURE & QTENURE<='2') & CRMCODEA='290'	13	NA	102	NA
240222	Materials for patio, walk, fence, driveway, masonry, brick and stucco work	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='160'	56	NA	98	NA
240222	Materials for patio, walk, fence, driveway, masonry, brick and stucco work	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='160'	71	NA	106	NA
240222	Materials for patio, walk, fence, driveway, masonry, brick and stucco work	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='160'	106	NA	167	NA
240222	Materials for patio, walk, fence, driveway, masonry, brick and stucco work	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='290'	25	NA	101	NA
240222	Materials for patio, walk, fence, driveway, masonry, brick and stucco work	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='290'	0	NA	400	NA
240311	Plumbing supplies and equipment	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='200'	85	NA	268	NA

Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
240311	Plumbing supplies and equipment	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='200'	50	NA	82	NA
240311	Plumbing supplies and equipment	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='200'	0	NA	49	NA
240312	Plumbing supplies and equipment	('1'<=QTENURE & QTENURE<='2') & CRMCODEA='200'	97	NA	334	NA
240312	Plumbing supplies and equipment	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='200'	800	NA	1,053	NA
240312	Plumbing supplies and equipment	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='200'	950	NA	1,213	NA
240312	Plumbing supplies and equipment	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='200'	564	NA	833	NA
240321	Electrical supplies, heating and cooling equipment	(CRMPTYPE='4'   CRMPTYPE='5') & (CRMCODEB='210'   CRMCODEB='220')	22	NA	573	NA
240321	Electrical supplies, heating and cooling equipment	(CRMPTYPE='4'   CRMPTYPE='5') & (CRMCODEB='210'   CRMCODEB='220')	300	NA	500	NA
240321	Electrical supplies, heating and cooling equipment	(CRMPTYPE='4'   CRMPTYPE='5') & (CRMCODEB='210'   CRMCODEB='220')	30	NA	563	NA
240322	Electrical supplies, heating and cooling equipment	('1'<=QTENURE & QTENURE<='2') & (CRMCODEA='210'   CRMCODEA='220')	100	NA	317	NA
240322	Electrical supplies, heating and cooling equipment	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='210'   CRMCODEB='220')	550	NA	4,336	NA
240322	Electrical supplies, heating and cooling equipment	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='210'   CRMCODEB='220')	500	NA	3,877	NA
240322	Electrical supplies, heating and cooling equipment	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='210'   CRMCODEB='220')	400	NA	1,300	NA

<b>Variable</b>	<b>Description</b>	<b>Condition</b>	<b>2009 Upper Critical Value</b>	<b>2009 Lower Critical Value</b>	<b>2009 Upper Topcode Value</b>	<b>2009 Lower Topcode Value</b>
250111	Fuel oil (renter)	UTILY EQ '130' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	500	NA	568	NA
250111	Fuel oil (renter)	UTILY EQ '130' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	550	NA	715	NA
250111	Fuel oil (renter)	UTILY EQ '130' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	549	NA	719	NA
250112	Fuel oil (owned home)	UTILY EQ '130' AND UTLPTYPE EQ '1'	1,843	NA	2,362	NA
250112	Fuel oil (owned home)	UTILY EQ '130' AND UTLPTYPE EQ '1'	1,200	NA	1,424	NA
250112	Fuel oil (owned home)	UTILY EQ '130' AND UTLPTYPE EQ '1'	1,500	NA	2,249	NA
250113	Fuel oil (owned vacation)	UTILY EQ '130' AND (UTLPTYPE EQ '2')	238	NA	370	NA
250113	Fuel oil (owned vacation)	UTILY EQ '130' AND (UTLPTYPE EQ '2')	207	NA	358	NA
250113	Fuel oil (owned vacation)	UTILY EQ '130' AND (UTLPTYPE EQ '2')	279	NA	413	NA
250211	Gas, btld/tank (renter)	UTILY EQ '150' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	698	NA	1,080	NA
250211	Gas, btld/tank (renter)	UTILY EQ '150' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	626	NA	928	NA
250211	Gas, btld/tank (renter)	UTILY EQ '150' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	685	NA	1,112	NA
250212	Gas, btld/tank (owned home)	UTILY EQ '150' AND UTLPTYPE EQ '1'	1,300	NA	2,160	NA
250212	Gas, btld/tank (owned home)	UTILY EQ '150' AND UTLPTYPE EQ '1'	1,400	NA	2,153	NA
250212	Gas, btld/tank (owned home)	UTILY EQ '150' AND UTLPTYPE EQ '1'	1,500	NA	2,804	NA
250213	Gas, btld/tank (owned vacation)	UTILY EQ '150' AND (UTLPTYPE EQ '2')	387	NA	900	NA
250213	Gas, btld/tank (owned vacation)	UTILY EQ '150' AND (UTLPTYPE EQ '2')	571	NA	773	NA
250213	Gas, btld/tank (owned vacation)	UTILY EQ '150' AND (UTLPTYPE EQ '2')	650	NA	899	NA

Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
250911	Coal, wood, other fuels (renter)	UTILY EQ '180' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	250	NA	390	NA
250911	Coal, wood, other fuels (renter)	UTILY EQ '180' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	200	NA	330	NA
250911	Coal, wood, other fuels (renter)	UTILY EQ '180' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	300	NA	514	NA
250912	Coal, wood, other fuels (owned home)	UTILY EQ '180' AND UTLPTYPE EQ '1'	950	NA	1,550	NA
250912	Coal, wood, other fuels (owned home)	UTILY EQ '180' AND UTLPTYPE EQ '1'	563	NA	1,067	NA
250912	Coal, wood, other fuels (owned home)	UTILY EQ '180' AND UTLPTYPE EQ '1'	900	NA	1,424	NA
250913	#N/A	UTILY EQ '180' AND (UTLPTYPE EQ '2')	30	NA	243	NA
260111	Electricity (renter)	UTILY EQ '100' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	440	NA	569	NA
260111	Electricity (renter)	UTILY EQ '100' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	433	NA	540	NA
260111	Electricity (renter)	UTILY EQ '100' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	480	NA	590	NA
260112	Electricity (owned home)	UTILY EQ '100' AND UTLPTYPE EQ '1'	525	NA	656	NA
260112	Electricity (owned home)	UTILY EQ '100' AND UTLPTYPE EQ '1'	515	NA	658	NA
260112	Electricity (owned home)	UTILY EQ '100' AND UTLPTYPE EQ '1'	536	NA	671	NA
260113	Electricity (owned vacation)	UTILY EQ '100' AND (UTLPTYPE EQ '2')	604	NA	730	NA
260113	Electricity (owned vacation)	UTILY EQ '100' AND (UTLPTYPE EQ '2')	619	NA	886	NA
260113	Electricity (owned vacation)	UTILY EQ '100' AND (UTLPTYPE EQ '2')	668	NA	890	NA
260114	Electricity (rented vacation)	UTILY EQ '100' AND (UTLPTYPE EQ '6')	243	NA	311	NA

Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
260114	Electricity (rented vacation)	UTILY EQ '100' AND (UTLPTYPE EQ '6')	205	NA	260	NA
260114	Electricity (rented vacation)	UTILY EQ '100' AND (UTLPTYPE EQ '6')	288	NA	417	NA
260211	Utility--natural gas (renter)	UTILY EQ '110' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	365	NA	439	NA
260211	Utility--natural gas (renter)	UTILY EQ '110' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	350	NA	427	NA
260211	Utility--natural gas (renter)	UTILY EQ '110' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	400	NA	509	NA
260212	Utility--natural gas (owned home)	UTILY EQ '110' AND UTLPTYPE EQ '1'	500	NA	748	NA
260212	Utility--natural gas (owned home)	UTILY EQ '110' AND UTLPTYPE EQ '1'	475	NA	629	NA
260212	Utility--natural gas (owned home)	UTILY EQ '110' AND UTLPTYPE EQ '1'	500	NA	700	NA
260213	Utility--natural gas (owned vacation)	UTILY EQ '110' AND (UTLPTYPE EQ '2')	316	NA	407	NA
260213	Utility--natural gas (owned vacation)	UTILY EQ '110' AND (UTLPTYPE EQ '2')	302	NA	470	NA
260213	Utility--natural gas (owned vacation)	UTILY EQ '110' AND (UTLPTYPE EQ '2')	300	NA	596	NA
260214	Utility--natural gas (rented vacation)	UTILY EQ '110' AND (UTLPTYPE EQ '6')	92	NA	108	NA
260214	Utility--natural gas (rented vacation)	UTILY EQ '110' AND (UTLPTYPE EQ '6')	91	NA	132	NA
260214	Utility--natural gas (rented vacation)	UTILY EQ '110' AND (UTLPTYPE EQ '6')	98	NA	142	NA
270101	Residential telephone/pay phones	NA	220	NA	289	NA
270101	Residential telephone/pay phones	NA	210	NA	288	NA

Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
270101	Residential telephone/pay phones	NA	215	NA	304	NA
270102	Cellular phone service	NA	334	NA	423	NA
270102	Cellular phone service	NA	330	NA	424	NA
270102	Cellular phone service	NA	342	NA	451	NA
270211	Water/sewer maint. (renter)	(UTILY EQ '200' OR UTILY EQ '220') AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	180	NA	293	NA
270211	Water/sewer maint. (renter)	(UTILY EQ '200' OR UTILY EQ '220') AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	178	NA	252	NA
270211	Water/sewer maint. (renter)	(UTILY EQ '200' OR UTILY EQ '220') AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	200	NA	325	NA
270212	Water/sewer maint. (owned home)	(UTILY EQ '200' OR UTILY EQ '220') AND UTLPTYPE EQ '1'	250	NA	390	NA
270212	Water/sewer maint. (owned home)	(UTILY EQ '200' OR UTILY EQ '220') AND UTLPTYPE EQ '1'	225	NA	332	NA
270212	Water/sewer maint. (owned home)	(UTILY EQ '200' OR UTILY EQ '220') AND UTLPTYPE EQ '1'	253	NA	387	NA
270213	Water/sewer maint. (owned vacation)	(UTILY EQ '200' OR UTILY EQ '220') AND (UTLPTYPE EQ '2')	250	NA	438	NA
270213	Water/sewer maint. (owned vacation)	(UTILY EQ '200' OR UTILY EQ '220') AND (UTLPTYPE EQ '2')	232	NA	426	NA
270213	Water/sewer maint. (owned vacation)	(UTILY EQ '200' OR UTILY EQ '220') AND (UTLPTYPE EQ '2')	164	NA	333	NA
270214	Water/sewer maint. (rented vacation)	(UTILY EQ '200' OR UTILY EQ '220') AND (UTLPTYPE EQ '6')	120	NA	233	NA
270214	Water/sewer maint. (rented vacation)	(UTILY EQ '200' OR UTILY EQ '220') AND (UTLPTYPE EQ '6')	126	NA	163	NA
270214	Water/sewer maint. (rented vacation)	(UTILY EQ '200' OR UTILY EQ '220') AND (UTLPTYPE EQ '6')	105	NA	138	NA

Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
270310	Cable and satellite television services	INTSERV EQ '100' AND INTMO EQ '13'	175	NA	213	NA
270310	Cable and satellite television services	INTSERV EQ '100' AND INTMO NE '13'	220	NA	356	NA
270310	Cable and satellite television services	NA	165	NA	186	NA
270310	Cable and satellite television services	NA	165	NA	187	NA
270310	Cable and satellite television services	NA	164	NA	185	NA
270411	Trash/garb. coll. (renter)	UTILY EQ '210' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	153	NA	202	NA
270411	Trash/garb. coll. (renter)	UTILY EQ '210' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	153	NA	204	NA
270411	Trash/garb. coll. (renter)	UTILY EQ '210' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	153	NA	222	NA
270412	Trash/garb. coll. (owned home)	UTILY EQ '210' AND UTLPTYPE EQ '1'	141	NA	207	NA
270412	Trash/garb. coll. (owned home)	UTILY EQ '210' AND UTLPTYPE EQ '1'	130	NA	214	NA
270412	Trash/garb. coll. (owned home)	UTILY EQ '210' AND UTLPTYPE EQ '1'	143	NA	251	NA
270413	Trash/garb. coll. (owned vacation)	UTILY EQ '210' AND (UTLPTYPE EQ '2')	79	NA	93	NA
270413	Trash/garb. coll. (owned vacation)	UTILY EQ '210' AND (UTLPTYPE EQ '2')	77	NA	122	NA
270413	Trash/garb. coll. (owned vacation)	UTILY EQ '210' AND (UTLPTYPE EQ '2')	67	NA	85	NA
270414	Trash/garb. coll. (rented vacation)	UTILY EQ '210' AND (UTLPTYPE EQ '6')	45	NA	85	NA
270414	Trash/garb. coll. (rented vacation)	UTILY EQ '210' AND (UTLPTYPE EQ '6')	32	NA	44	NA
270414	Trash/garb. coll. (rented vacation)	UTILY EQ '210' AND (UTLPTYPE EQ '6')	44	NA	77	NA
270902	Septic tank clean. (owned home)	UTILY EQ '280' AND UTLPTYPE EQ '1'	450	NA	930	NA
270902	Septic tank clean. (owned home)	UTILY EQ '280' AND UTLPTYPE EQ '1'	402	NA	584	NA



Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
270902	Septic tank clean. (owned home)	UTILY EQ '280' AND UTLPTYPE EQ '1'	652	NA	2,059	NA
320611	Material for insulation, other maintenance and repair	('3'<=QTENURE & QTENURE<='5') & (CRMCODEA='240'   CRMCODEA='300')	17	NA	114	NA
320611	Material for insulation, other maintenance and repair	(CRMPTYPE='4'   CRMPTYPE='5') & (CRMCODEB='240'   CRMCODEB='300')	65	NA	208	NA
320611	Material for insulation, other maintenance and repair	(CRMPTYPE='4'   CRMPTYPE='5') & (CRMCODEB='240'   CRMCODEB='300')	700	NA	2,883	NA
320611	Material for insulation, other maintenance and repair	(CRMPTYPE='4'   CRMPTYPE='5') & (CRMCODEB='240'   CRMCODEB='300')	165	NA	567	NA
320612	Material for insulation, other maintenance and repair	('1'<=QTENURE & QTENURE<='2') & CRMCODEA='300'	800	NA	1,278	NA
320612	Material for insulation, other maintenance and repair	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='240'   CRMCODEB='300')	780	NA	1,264	NA
320612	Material for insulation, other maintenance and repair	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='240'   CRMCODEB='300')	1,500	NA	4,079	NA
320612	Material for insulation, other maintenance and repair	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='240'   CRMCODEB='300')	1,000	NA	1,990	NA
320621	Material for hard surface flooring	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='230'	0	NA	101	NA
320621	Material for hard surface flooring	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='230'	40	NA	328	NA
320621	Material for hard surface flooring	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='230'	0	NA	487	NA

Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
320622	Materials for hard surface flooring, repair and replacement	('1'<=QTENURE & QTENURE<='2') & CRMCODEA='230'	433	NA	536	NA
320622	Materials for hard surface flooring, repair and replacement	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='230'	1,025	NA	2,033	NA
320622	Materials for hard surface flooring, repair and replacement	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='230'	1,400	NA	2,300	NA
320622	Materials for hard surface flooring, repair and replacement	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='230'	823	NA	1,700	NA
320631	Material for landscape maintenance	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='140'	80	NA	300	NA
320631	Material for landscape maintenance	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='140'	62	NA	558	NA
320631	Material for landscape maintenance	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='140'	30	NA	150	NA
340420	Water softening service	UTILY EQ '270' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	60	NA	84	NA
340420	Water softening service	UTILY EQ '270' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	58	NA	79	NA
340420	Water softening service	UTILY EQ '270' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	53	NA	123	NA
340420	Water softening service	UTILY EQ '270' AND UTLPTYPE EQ '1'	246	NA	496	NA
340420	Water softening service	UTILY EQ '270' AND UTLPTYPE EQ '1'	150	NA	207	NA
340420	Water softening service	UTILY EQ '270' AND UTLPTYPE EQ '1'	240	NA	485	NA
550320	Medical equipment for general use	MEDPCARY EQ '660'	368	NA	551	NA
550320	Medical equipment for	MEDRCARY EQ '660'	NA	-108	NA	-361

Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
	general use					
550330	Supportive and convalescent medical equipment	MEDPCARY EQ '640'	1,000	NA	2,027	NA
550330	Supportive and convalescent medical equipment	MEDRCARY EQ '640'	NA	-222	NA	-1,273
560110	Physician's services	MEDPCARY EQ '420'	480	NA	1,157	NA
560110	Physician's services	MEDRCARY EQ '420'	NA	-618	NA	-2,638
560210	Dental services	MEDPCARY EQ '200'	1,800	NA	3,707	NA
560210	Dental services	MEDRCARY EQ '200'	NA	-1,000	NA	-3,140
560310	Eyecare services	MEDPCARY EQ '110'	475	NA	1,799	NA
560310	Eyecare services	MEDRCARY EQ '110'	NA	-458	NA	-745
560330	Lab tests, x-rays	MEDPCARY EQ '510'	800	NA	1,823	NA
560330	Lab tests, x-rays	MEDRCARY EQ '510'	NA	-1,720	NA	-3,275
560400	Service by professionals other than physician	MEDPCARY EQ '410'	750	NA	1,843	NA
560400	Service by professionals other than physician	MEDRCARY EQ '410'	NA	-905	NA	-1,269
570111	Hospital room and services	MEDPCARY EQ '330'	2,000	NA	5,184	NA
570111	Hospital room and services	MEDRCARY EQ '330'	NA	-2,582	NA	-7,184
570220	Care in convalescent or nursing home	MEDPCARY EQ '520'	6,000	NA	12,333	NA
570230	Other medical care services	MEDPCARY EQ '530'	1,657	NA	3,644	NA
570230	Other medical care services	MEDRCARY EQ '530'	NA	-728	NA	-1,910
570901	Rental of medical equipment	MEDPCARY EQ '650'	300	NA	866	NA
570901	Rental of medical equipment	MEDRCARY EQ '650'	NA	0	NA	-40
570903	Rental of supportive, convalescent medical equipment	MEDPCARY EQ '630'	560	NA	1,171	NA

Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
580111	Traditional fee for service health plan (not BCBS)	HHICODE EQ '2' AND HHIBCBS EQ '2' AND HHIFEET = '1'	1,009	NA	1,342	NA
580112	Traditional fee for service health plan (BCBS)	HHICODE EQ '2' AND HHIBCBS EQ '1' AND HHIFEET = '1'	1,108	NA	1,317	NA
580113	Preferred provider health plan (not BCBS)	HHICODE EQ '2' AND HHIBCBS EQ '2' AND HHIFEET = '2'	1,150	NA	1,651	NA
580114	Preferred provider health plan (BCBS)	HHICODE EQ '2' AND HHIBCBS EQ '1' AND HHIFEET = '2'	1,184	NA	1,397	NA
580311	Health maintenance organization (not BCBS)	HHICODE EQ '1' AND HHIBCBS EQ '2'	1,041	NA	1,333	NA
580312	Health maintenance organization (BCBS)	HHICODE EQ '1' AND HHIBCBS EQ '1'	1,154	NA	1,824	NA
580903	Commercial medicare supplement (not BCBS)	HHICODE EQ '3' AND HHIBCBS EQ '2'	900	NA	1,408	NA
580904	Commercial medicare supplement (BCBS)	HHICODE EQ '3' AND HHIBCBS EQ '1'	867	NA	1,066	NA
580905	Other health insurance (not BCBS)	HHICODE EQ '4' AND HHIBCBS EQ '2'	415	NA	498	NA
580906	Other health insurance (BCBS)	HHICODE EQ '4' AND HHIBCBS EQ '1'	800	NA	1,156	NA
690114	Computer information services	INTSERV EQ '200' AND INTMO EQ '13'	100	NA	140	NA
690114	Computer information services	INTSERV EQ '200' AND INTMO NE '13'	145	NA	193	NA
690114	Computer information services	NA	90	NA	118	NA
690114	Computer information services	NA	90	NA	118	NA
690114	Computer information	NA	90	NA	114	NA

Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
	services					
790600	Expenses for other properties	CRMPTYPE='3' & (CRMTYPE='3'   CRMTYPE='4') & (('100'<=CRMCODEB & CRMCODEB<='240')   ('260'<=CRMCODEB & CRMCODEB<='300'))	650	NA	2,900	NA
790600	Expenses for other properties	CRMPTYPE='3' & (CRMTYPE='3'   CRMTYPE='4') & (('100'<=CRMCODEB & CRMCODEB<='240')   ('260'<=CRMCODEB & CRMCODEB<='300'))	0	NA	443	NA
790600	Expenses for other properties	CRMPTYPE='3' & (CRMTYPE='3'   CRMTYPE='4') & (('100'<=CRMCODEB & CRMCODEB<='240')   ('260'<=CRMCODEB & CRMCODEB<='300'))	1,200	NA	2,633	NA
790600	#N/A	CRMPTYPE='3' & (CRMTYPE='3'   CRMTYPE='4') & (('120'<=CRMCODEB & CRMCODEB<='240')   ('260'<=CRMCODEB & CRMCODEB<='300'))	0	NA	450	NA
790600	Expenses for other properties	OWNYB EQ '400' OR OWNYB EQ '500'	383	NA	730	NA
790610	Contractors labor and materials, supplies CU obtained, appliances provided by contractor, other	CRMPTYPE='3' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	250	NA	653	NA

Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
	property					
790610	Contractors labor and materials, supplies CU obtained, appliances provided by contractor, other property	CRMPTYPE='3' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	6,000	NA	59,575	NA
790610	Contractors labor and materials, supplies CU obtained, appliances provided by contractor, other property	CRMPTYPE='3' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	3,844	NA	6,667	NA
790610	Contractors labor and materials, supplies CU obtained, appliances provided by contractor, other property	CRMPTYPE='3' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	12,427	NA	22,404	NA
790690	Construction materials for jobs not started	('3'<=QTENURE & QTENURE<='5') & (('100'<=CRMCODEA & CRMCODEA<='130')   CRMCODEA='150')	33	NA	85	NA
790710	Purchase price of property (other property)	OWNYB EQ '400' OR OWNYB EQ '500'	390,000	NA	432,666	NA

Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
790810	Sale price of property or trade-in amount (other property)	OWNYD EQ '400' OR OWNYD EQ '500'	NA	-70,000	NA	-152,750
790910	Special lump sum mortgage payments (other property)	OWNYI EQ '400' OR OWNYI EQ '500'	NA	-1,000	NA	-13,250
790920	Reduction of mortgage principal (other property)	(OWNYF EQ '400' OR OWNYF EQ '500') AND (LOANTYPE EQ '1')	NA	-791	NA	-909
790920	Reduction of mortgage principal (other property)	(OWNYF EQ '400' OR OWNYF EQ '500') AND (LOANTYPE EQ '1')	NA	-795	NA	-914
790920	Reduction of mortgage principal (other property)	(OWNYF EQ '400' OR OWNYF EQ '500') AND (LOANTYPE EQ '1')	NA	-799	NA	-920
790930	Original loan amount (mortgage obtained during interview quarter) (other property)	(OWNYF EQ '400' OR OWNYF EQ '500') AND (LOANTYPE EQ '1')	37,161	NA	134,347	NA
790940	Reduction mortgage principal, home equity loan (other property)	(OWNYG EQ '400' OR OWNYG EQ '500') AND (LOANTYPE EQ '2')	NA	-273	NA	-396
790940	Reduction mortgage principal, home equity loan (other property)	(OWNYG EQ '400' OR OWNYG EQ '500') AND (LOANTYPE EQ '2')	NA	-274	NA	-399
790940	Reduction mortgage principal, home equity loan (other property)	(OWNYG EQ '400' OR OWNYG EQ '500') AND (LOANTYPE EQ '2')	NA	-276	NA	-401

<b>Variable</b>	<b>Description</b>	<b>Condition</b>	<b>2009 Upper Critical Value</b>	<b>2009 Lower Critical Value</b>	<b>2009 Upper Topcode Value</b>	<b>2009 Lower Topcode Value</b>
800721	#N/A	OWNYI EQ '100'	62,500	NA	99,394	NA
810101	Purchase price of property (owned home)	OWNYB EQ '100' OR OWNYB EQ '200'	625,000	NA	717,000	NA
810102	Purchase price of property (owned vacation)	OWNYB EQ '300'	347,000	NA	1,174,000	NA
820101	Sale price of property or trade-in amount (owned home)	OWNYD EQ '100' OR OWNYD EQ '200'	NA	- 365,000	NA	-424,333
820102	Sale price of property or trade-in amount (owned vacation)	OWNYD EQ '300'	NA	- 125,000	NA	-196,666
830101	Special lump sum mortgage payment (owned home)	OWNYI EQ '100' OR OWNYI EQ '200'	NA	-5,000	NA	-25,840
830102	Special lump sum mortgage payment (owned vacation)	OWNYI EQ '300'	NA	-17,700	NA	-71,333
830201	Reduction of mortgage principal (owned home)	(OWNYF EQ '100' OR OWNYF EQ '200') AND (LOANTYPE EQ '1')	NA	-1,062	NA	-1,846
830201	Reduction of mortgage principal (owned home)	(OWNYF EQ '100' OR OWNYF EQ '200') AND (LOANTYPE EQ '1')	NA	-1,059	NA	-1,849
830201	Reduction of mortgage principal (owned home)	(OWNYF EQ '100' OR OWNYF EQ '200') AND (LOANTYPE EQ '1')	NA	-1,060	NA	-1,838
830202	Reduction of mortgage principal (owned vacation)	(OWNYF EQ '300') AND (LOANTYPE EQ '1')	NA	-820	NA	-1,715
830202	Reduction of mortgage principal (owned vacation)	(OWNYF EQ '300') AND (LOANTYPE EQ '1')	NA	-817	NA	-1,587



Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
830202	Reduction of mortgage principal (owned vacation)	(OWNYF EQ '300') AND (LOANTYPE EQ '1')	NA	-821	NA	-1,626
830203	Reduction mortgage principal, home equity loan (owned home)	(OWNYG EQ '100' OR OWNYG EQ '200') AND (LOANTYPE EQ '2')	NA	-805	NA	-1,282
830203	Reduction mortgage principal, home equity loan (owned home)	(OWNYG EQ '100' OR OWNYG EQ '200') AND (LOANTYPE EQ '2')	NA	-810	NA	-1,281
830203	Reduction mortgage principal, home equity loan (owned home)	(OWNYG EQ '100' OR OWNYG EQ '200') AND (LOANTYPE EQ '2')	NA	-815	NA	-1,314
830204	Reduction mortgage principal, home equity loan (owned vacation)	(OWNYG EQ '300') AND (LOANTYPE EQ '2')	NA	-529	NA	-685
830204	Reduction mortgage principal, home equity loan (owned vacation)	(OWNYG EQ '300') AND (LOANTYPE EQ '2')	NA	-533	NA	-688
830204	Reduction mortgage principal, home equity loan (owned vacation)	(OWNYG EQ '300') AND (LOANTYPE EQ '2')	NA	-537	NA	-690
830301	Original loan amount (mortgage obtained during interview quarter) (owned home)	(OWNYF EQ '100' OR OWNYF EQ '200') AND (LOANTYPE EQ '1')	480,801	NA	637,560	NA
830302	Original loan amount (mortgage obtained during interview quarter) (owned vacation)	(OWNYF EQ '300' AND LOANTYPE EQ '1')	625,000	NA	759,461	NA
830303	Original loan amount, home equity loan (loan obtained during interview quarter) (owned home)	(OWNYG EQ '100' OR OWNYG EQ '200') AND (LOANTYPE EQ '2')	80,559	NA	217,517	NA

Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
860600	Sale of boats, with motors	VEHICYC EQ '160'	NA	-4,000	NA	-14,333
880120	Principal paid, home equity line of credit (owned home)	OWNYH EQ '100' OR OWNYH EQ '200'	747	-3,215	.	-10,765
880220	Principal paid, home equity line of credit (other property)	OWNYH EQ '400' OR OWNYH EQ '500'	NA	-381	NA	-539
880320	Principal paid, home equity line of credit (owned vacation)	OWNYH EQ '300'	NA	-937	NA	-4,796
900002	Occupational expenses	MISCCODE EQ '380' AND MISCMO EQ '13'	230	NA	596	NA
900002	Occupational expenses	MISCCODE EQ '380' AND MISCMO NE '13'	600	NA	1,396	NA
910050	Estimated monthly rental value of owned home	OWNYI EQ '100'	250	NA	386	NA
910101	#N/A	OWNYI EQ '300' AND TIMESHRI NE '1' AND VAC_SEC NE '1'	350	NA	605	NA
910102	#N/A	OWNYI EQ '300' AND VAC_SEC EQ '1'	933	NA	1,231	NA
910103	#N/A	OWNYI EQ '300' AND TIMESHRI EQ '1'	10,833	NA	13,433	NA
990920	Materials for additions, finishing basements, remodeling rooms	(CRMPTYPE='4'   CRMPTYPE='5') & (('100'<=CRMCODEB & CRMCODEB<='130')   CRMCODEB='150')	600	NA	1,128	NA
990920	Materials for additions, finishing basements,	(CRMPTYPE='4'   CRMPTYPE='5') & (('100'<=CRMCODEB &	1,000	NA	3,167	NA

Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
	remodeling rooms	CRMCODEB<='130')   CRMCODEB='150')				
990920	Materials for additions, finishing basements, remodeling rooms	(CRMPTYPE='4'   CRMPTYPE='5') & (('100'<=CRMCODEB & CRMCODEB<='130')   CRMCODEB='150')	1,200	NA	2,933	NA
990950	Labor and materials for dwellings under construction and additions	(CRMPTYPE='4'   CRMPTYPE='5') & ('100'<=CRMCODEB & CRMCODEB<='110')	1,000	NA	9,080	NA

#### D. INCOME FILE (ITAB)

Data in the ITAB file are selected annual data from the FMLY file expressed in a monthly form (divided by 12). The ITAB variable VALUE is subject to topcoding for the following UCCs. If VALUE is greater (less) than the designated critical values for the UCCs, VALUE is set to the topcode value and the associated flag variable, VALUE\_, is set to 'T'. The critical values and topcode values (rounded to the nearest dollar) of the variable VALUE that are associated with the UCCs follow.

Variable	Description	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
001000	Purchase price of stocks, bonds or mutual funds including broker fees	16,667	NA	89,427	NA
001010	Sale price of stocks, bonds, and mutual funds, net	NA	-25,000	NA	-44,650
001210	Investments to farm or business	58,333	NA	161,389	NA
002010	Change in savings account	4,626	-6,250	11,444	-16,228
002020	Change in checking account	1,667	-1,667	5,361	-15,240
002030	Change in U.S. savings bonds	833	-417	1,495	-1,533
003000	Change in money owed to consumer unit	5,000	-1,667	21,403	-3,579
003100	Change in surrender of insurance policies	NA	-6,667	NA	-14,667
900040	Pensions and annuities	5,289	NA	6,009	NA
900050	Dividends, royalties, estates, trusts	4,167	NA	7,880	NA
900060	Roomer and boarder income	3,333	-1,667	3,417	-907
900070	Other rental income	5,583	-2,083	14,562	-2,601

Variable	Description	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
900080	Interest	2,917	NA	4,657	NA
900131	Child support payments	1,483	NA	1,844	NA
900132	Other regular contributions including alimony	4,177	NA	4,850	NA
900140	Other income	4,167	NA	8,933	NA
910000	Lump sum receipts	10,333	NA	15,148	NA
910010	Money from sale of household furnishings, etc.	417	NA	4,678	NA
910020	Refund from overpayment on Social Security	67	NA	134	NA
910030	Refunds from insurance policies	833	NA	1,958	NA
910040	Refunds from property taxes	167	NA	381	NA
910041	Lump sum child support payment	1,083	NA	1,577	NA
920010	Market value of all savings accounts	10,833	NA	26,133	NA
920020	Market value of all checking accounts	2,333	NA	14,439	NA
920030	Market value of all U.S. savings bonds	2,417	NA	5,609	NA
920040	Market value of all securities	83,333	NA	306,606	NA
950001	Federal income tax refunds	NA	-746	NA	-1,237
950003	Additional federal income tax paid (new UCC Q20062)	2,750	NA	5,390	NA
950011	State and local income tax refunds	NA	-205	NA	-347
950013	Additional state and local income tax paid (new UCC Q20062)	667	NA	1,227	NA
950021	Other taxes	833	NA	1,487	NA
950022	Personal property taxes	96	NA	183	NA
950023	Other tax refunds	NA	-417	NA	-635

<sup>1</sup> FEDTAXX (amount of Federal tax paid in addition to that withheld) and FAMTFEDX (Federal tax withheld from last pay annualized for all CU members) are mapped to UCCs 950003 and 950002, respectively, as separate records. Records for UCC 950002 that represent FAMTFEDX are topcoded through their components (AMTFED) at the MEMB level and thus, these records will not have an ITAB critical value.

<sup>2</sup> SLOCTAXX (amount of state and local taxes paid in addition to that withheld) and FSLTAXX (state and local income tax deduction from last pay annualized for all CU members) are mapped to UCCs 950013 and 950012, respectively, as separate records. Records for UCC 950012 that represent FSLTAXX are topcoded through their components (SLTAXX) at the MEMB level and thus, these records will not have an ITAB critical value. Create the ITAB VALUE field for these records by dividing FSLTAXX by 12. If FSLTAXX is topcoded, then set VALUE\_ to 'T'

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

<b><u>UCC</u></b>	<b><u>FMLY variable</u></b>	<b><u>Description</u></b>
800910	FGOVRETX, FGOVRETM	Amount of government retirement deducted from last pay, annualized for all CU members
800920	FRRDEDX, FRRDEDM	Amount of Railroad Retirement deducted from last pay, annualized for all CU members
800931	FPRIPENX, FPRIPENM	Amount of private pension fund deducted from last pay, annualized for all CU members
800932	FINDRETX	Amount of money placed in individual retirement plan
800940	FJSSDEDX, FJSSDEDM	Estimated amount of annual Social Security contribution
900000	FSALARYX, FSALARYM	Amount received from wage and salary income before deductions
900010	FNONFRMX, FNONFRMM	Amount of income or loss received from own nonfarm business
900020	FFRMINCX, FFRMINCM	Amount of income or loss received from own farm
980000	FINCBTAX, FINCBTXM	Amount of CU income before taxes
980070	FINCATAX, FINCATXM	Amount of CU income after taxes

## E. DETAILED EXPENDITURE FILES (EXPXN)

The following EXPXN file variables are subject to topcoding. The table also contains the critical values and topcode values associated with the following EXPXN variables.

<b>Variable</b>	<b>Description</b>	<b>Condition</b>	<b>2009 Upper Critical Value</b>	<b>2009 Lower Critical Value</b>	<b>2009 Upper Topcode Value</b>	<b>2009 Lower Topcode Value</b>
ADVMATX	Materials and supplies purchased for insulation, dwellings under constr, additions, finishing, remodeling, landscaping, etc.	('1'<=QTENURE & QTENURE<='2') & (('100'<=CRMCODEA & CRMCODEA<='150')   CRMCODEA='240')	7,000	NA	20,167	NA
ADVMATX	Total cost of tools, equipment, and supplies purchased for painting and wall papering for jobs not yet started	('1'<=QTENURE & QTENURE<='2') & (CRMCODEA='170'   CRMCODEA='180')	500	NA	1,087	NA

Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
ADVMATX	Total cost of materials purchased for patios, walks, fences, driveways, masonry,brick, stucco, plastering, panels, roofing, gutters, etc. for jobs not yet started	('1'<=QTENURE & QTENURE<='2') & (CRMCODEA='190'   CRMCODEA='270'   CRMCODEA='280')	2,678	NA	4,796	NA
ADVMATX	Electrical supplies, heating and cooling equipment	('1'<=QTENURE & QTENURE<='2') & (CRMCODEA='210'   CRMCODEA='220')	300	NA	950	NA
ADVMATX	Total cost of materials purchased for patios, walks, fences, driveways, masonry,brick, stucco, plastering, panels, roofing, gutters, etc. for jobs not yet started	('1'<=QTENURE & QTENURE<='2') & CRMCODEA='160'	375	NA	960	NA
ADVMATX	Plumbing supplies and equipment	('1'<=QTENURE & QTENURE<='2') & CRMCODEA='200'	290	NA	1,002	NA
ADVMATX	Materials for hard surface flooring, repair and replacement	('1'<=QTENURE & QTENURE<='2') & CRMCODEA='230'	1,300	NA	1,607	NA
ADVMATX	Materials and equipment for roof and gutters	('1'<=QTENURE & QTENURE<='2') & CRMCODEA='260'	770	NA	1,785	NA
ADVMATX	Materials for masonry, brick or stucco work	('1'<=QTENURE & QTENURE<='2') & CRMCODEA='290'	40	NA	307	NA
ADVMATX	Material for insulation, other maintenance and repair	('1'<=QTENURE & QTENURE<='2') & CRMCODEA='300'	2,400	NA	3,833	NA

Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
ADVMATX	Construction materials for jobs not started	('3'<=QTENURE & QTENURE<='5') & (('100'<=CRMCODEA & CRMCODEA<='130')   CRMCODEA='150')	100	NA	255	NA
ADVMATX	Total cost of tools, equipment, and supplies purchased for painting and wall papering for jobs not yet started	('3'<=QTENURE & QTENURE<='5') & (CRMCODEA='170'   CRMCODEA='180')	109	NA	203	NA
ADVMATX	Total cost of materials purchased for patios, walks, fences, driveways, masonry,brick, stucco, plastering, panels, roofing, gutters, etc. for jobs not yet started	('3'<=QTENURE & QTENURE<='5') & (CRMCODEA='190'   ('260'<=CRMCODEA & CRMCODEA<='280'))	86	NA	203	NA
ADVMATX	Material for insulation, other maintenance and repair	('3'<=QTENURE & QTENURE<='5') & (CRMCODEA='240'   CRMCODEA='300')	50	NA	343	NA
DISPX	Sale price of property or trade-in amount (owned home)	OWNYD EQ '100' OR OWNYD EQ '200'	365,000	NA	424,333	NA
DISPX	Sale price of property or trade-in amount (owned vacation)	OWNYD EQ '300'	125,000	NA	196,667	NA
DISPX	Sale price of property or trade-in amount (other property)	OWNYD EQ '400' OR OWNYD EQ '500'	70,000	NA	152,750	NA
INTCHGX	Cable and satellite television services	INTSERV EQ '100' AND INTMO EQ '13'	175	NA	213	NA
INTCHGX	Cable and satellite television services	INTSERV EQ '100' AND INTMO NE '13'	220	NA	356	NA

Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
INTCHGX	Computer information services	INTSERV EQ '200' AND INTMO EQ '13'	100	NA	140	NA
INTCHGX	Computer information services	INTSERV EQ '200' AND INTMO NE '13'	145	NA	193	NA
JEDUCNET	Housing while attending school	EDUC_AY EQ '310' AND EDMONTHA EQ '13'	1,500	NA	2,012	NA
JEDUCNET	Housing while attending school	EDUC_AY EQ '310' AND EDMONTHA NE '13'	5,813	NA	9,825	NA
JFEETOTX	Property management	REGFEECR EQ '01000' AND (OWNYI EQ '100' OR OWNYI EQ '200')	491	NA	848	NA
JLABOR1X	Repair or maintenance services	(CRMPTYPE='4'   CRMPTYPE='5') & (('120'<=CRMCODEB & CRMCODEB<='220')   CRMCODEB='240'   ('260'<=CRMCODEB & CRMCODEB<='300'))	3,500	NA	6,871	NA
JLABOR1X	Capital improvement labor and materials (owned home)	CRMPTYPE='1' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	46,750	NA	117,244	NA
JLABOR1X	Other repair and maintenance services	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (('120'<=CRMCODEB & CRMCODEB<='160')   CRMCODEB='190'   CRMCODEB='240'   ('270'<=CRMCODEB & CRMCODEB<='300'))	8,682	NA	16,300	NA
JLABOR1X	Painting and papering	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	8,000	NA	15,355	NA
JLABOR1X	Heat, a/c, electrical work	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='210'   CRMCODEB='220')	8,810	NA	12,400	NA
JLABOR1X	Plumbing and water heating	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='200'	4,500	NA	7,300	NA



Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
JLABOR1X	Repair and replacement of hard surface flooring	CRMPTYPE='1' & (CRMPTYPE='3'   CRMPTYPE='4') & CRMCODEB='230'	9,000	NA	11,394	NA
JLABOR1X	Roofing and gutters	CRMPTYPE='1' & (CRMPTYPE='3'   CRMPTYPE='4') & CRMCODEB='260'	12,800	NA	19,296	NA
JLABOR1X	Capital improvement labor and materials (owned vacation)	CRMPTYPE='2' & (CRMPTYPE='1'   CRMPTYPE='2'   CRMPTYPE='5')	3,500	NA	14,345	NA
JLABOR1X	Repair and remodeling services	CRMPTYPE='2' & (CRMPTYPE='3'   CRMPTYPE='4') & (('120'<=CRMCODEB & CRMCODEB<='220')   CRMCODEB='240'   ('260'<=CRMCODEB & CRMCODEB<='300'))	2,900	NA	8,198	NA
JLABOR1X	Contractors labor and materials, supplies CU obtained, appliances provided by contractor, other property	CRMPTYPE='3' & (CRMPTYPE='1'   CRMPTYPE='2'   CRMPTYPE='5')	6,000	NA	59,575	NA
JLABOR1X	Expenses for other properties	CRMPTYPE='3' & (CRMPTYPE='3'   CRMPTYPE='4') & (('100'<=CRMCODEB & CRMCODEB<='240')   ('260'<=CRMCODEB & CRMCODEB<='300'))	650	NA	2,900	NA
JLABOR2X	Repair or maintenance services	(CRMPTYPE='4'   CRMPTYPE='5') & (('120'<=CRMCODEB & CRMCODEB<='220')   CRMCODEB='240'   ('260'<=CRMCODEB & CRMCODEB<='300'))	4,900	NA	7,128	NA
JLABOR2X	Capital improvement labor and materials (owned home)	CRMPTYPE='1' & (CRMPTYPE='1'   CRMPTYPE='2'   CRMPTYPE='5')	60,000	NA	101,555	NA

Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
JLABOR2X	Other repair and maintenance services	CRMPYTYPE='1' & (CRMPYTYPE='3'   CRMPYTYPE='4') & (('120'<=CRMCODEB & CRMCODEB<='160')   CRMCODEB='190'   CRMCODEB='240'   ('270'<=CRMCODEB & CRMCODEB<='300'))	10,925	NA	18,138	NA
JLABOR2X	Painting and papering	CRMPYTYPE='1' & (CRMPYTYPE='3'   CRMPYTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	12,245	NA	22,667	NA
JLABOR2X	Heat, a/c, electrical work	CRMPYTYPE='1' & (CRMPYTYPE='3'   CRMPYTYPE='4') & (CRMCODEB='210'   CRMCODEB='220')	9,217	NA	13,565	NA
JLABOR2X	Plumbing and water heating	CRMPYTYPE='1' & (CRMPYTYPE='3'   CRMPYTYPE='4') & CRMCODEB='200'	5,725	NA	6,182	NA
JLABOR2X	Repair and replacement of hard surface flooring	CRMPYTYPE='1' & (CRMPYTYPE='3'   CRMPYTYPE='4') & CRMCODEB='230'	5,700	NA	7,745	NA
JLABOR2X	Roofing and gutters	CRMPYTYPE='1' & (CRMPYTYPE='3'   CRMPYTYPE='4') & CRMCODEB='260'	9,200	NA	14,517	NA
JLABOR2X	Capital improvement labor and materials (owned vacation)	CRMPYTYPE='2' & (CRMPYTYPE='1'   CRMPYTYPE='2'   CRMPYTYPE='5')	4,000	NA	13,705	NA
JLABOR2X	Repair and remodeling services	CRMPYTYPE='2' & (CRMPYTYPE='3'   CRMPYTYPE='4') & (('120'<=CRMCODEB & CRMCODEB<='220')   CRMCODEB='240'   ('260'<=CRMCODEB & CRMCODEB<='300'))	4,718	NA	7,333	NA

Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
JLABOR2X	Contractors labor and materials, supplies CU obtained, appliances provided by contractor, other property	CRMPTYPE='3' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	3,844	NA	6,667	NA
JLABOR2X	Expenses for other properties	CRMPTYPE='3' & (CRMTYPE='3'   CRMTYPE='4') & (('100'<=CRMCODEB & CRMCODEB<='240')   ('260'<=CRMCODEB & CRMCODEB<='300'))	0	NA	443	NA
JLABOR3X	Labor and materials for dwellings under construction and additions	(CRMPTYPE='4'   CRMPTYPE='5') & ('100'<=CRMCODEB & CRMCODEB<='110')	1,000	NA	9,080	NA
JLABOR3X	Repair or maintenance services	(CRMPTYPE='4'   CRMPTYPE='5') & (('120'<=CRMCODEB & CRMCODEB<='220')   CRMCODEB='240'   ('260'<=CRMCODEB & CRMCODEB<='300'))	6,000	NA	9,371	NA
JLABOR3X	Repair and replacement of hard surface flooring	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='230'	150	NA	328	NA
JLABOR3X	Capital improvement labor and materials (owned home)	CRMPTYPE='1' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	78,000	NA	137,675	NA
JLABOR3X	Other repair and maintenance services	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (('120'<=CRMCODEB & CRMCODEB<='160')   CRMCODEB='190'   CRMCODEB='240'   ('270'<=CRMCODEB & CRMCODEB<='300'))	13,000	NA	20,750	NA

Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
JLABOR3X	Painting and papering	CRMPYTYPE='1' & (CRMPYTYPE='3'   CRMPYTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	7,000	NA	22,701	NA
JLABOR3X	Heat, a/c, electrical work	CRMPYTYPE='1' & (CRMPYTYPE='3'   CRMPYTYPE='4') & (CRMCODEB='210'   CRMCODEB='220')	10,000	NA	15,040	NA
JLABOR3X	Plumbing and water heating	CRMPYTYPE='1' & (CRMPYTYPE='3'   CRMPYTYPE='4') & CRMCODEB='200'	7,452	NA	9,554	NA
JLABOR3X	Repair and replacement of hard surface flooring	CRMPYTYPE='1' & (CRMPYTYPE='3'   CRMPYTYPE='4') & CRMCODEB='230'	7,000	NA	14,000	NA
JLABOR3X	Roofing and gutters	CRMPYTYPE='1' & (CRMPYTYPE='3'   CRMPYTYPE='4') & CRMCODEB='260'	13,098	NA	17,530	NA
JLABOR3X	Capital improvement labor and materials (owned vacation)	CRMPYTYPE='2' & (CRMPYTYPE='1'   CRMPYTYPE='2'   CRMPYTYPE='5')	14,000	NA	19,605	NA
JLABOR3X	Repair and remodeling services	CRMPYTYPE='2' & (CRMPYTYPE='3'   CRMPYTYPE='4') & (('120'<=CRMCODEB & CRMCODEB<='220')   CRMCODEB='240'   (('260'<=CRMCODEB & CRMCODEB<='300'))	3,460	NA	7,883	NA
JLABOR3X	Contractors labor and materials, supplies CU obtained, appliances provided by contractor, other property	CRMPYTYPE='3' & (CRMPYTYPE='1'   CRMPYTYPE='2'   CRMPYTYPE='5')	12,427	NA	22,404	NA

Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
JLABOR3X	Expenses for other properties	CRMPTYPE='3' & (CRMTYPE='3'   CRMTYPE='4') & (('100'<=CRMCODEB & CRMCODEB<='240')   ('260'<=CRMCODEB & CRMCODEB<='300'))	1,200	NA	2,633	NA
JLCPRINX	Principal paid, home equity line of credit (owned home)	OWNYH EQ '100' OR OWNYH EQ '200'	9,644	-2,241	32,296	-2,936
JLCPRINX	Principal paid, home equity line of credit (owned vacation)	OWNYH EQ '300'	2,810	NA	14,388	NA
JLCPRINX	Principal paid, home equity line of credit (other property)	OWNYH EQ '400' OR OWNYH EQ '500'	1,144	NA	1,617	NA
LDGCOSTX	Lodging on out-of-town trips	NA	1,800	NA	3,333	NA
MEDPMTX	Eyecare services	MEDPCARY EQ '110'	475	NA	1,799	NA
MEDPMTX	Dental services	MEDPCARY EQ '200'	1,800	NA	3,707	NA
MEDPMTX	Hospital room and services	MEDPCARY EQ '330'	2,000	NA	5,184	NA
MEDPMTX	Service by professionals other than physician	MEDPCARY EQ '410'	750	NA	1,843	NA
MEDPMTX	Physician's services	MEDPCARY EQ '420'	480	NA	1,157	NA
MEDPMTX	Lab tests, x-rays	MEDPCARY EQ '510'	800	NA	1,823	NA
MEDPMTX	Care in convalescent or nursing home	MEDPCARY EQ '520'	6,000	NA	12,333	NA
MEDPMTX	Other medical care services	MEDPCARY EQ '530'	1,657	NA	3,644	NA
MEDPMTX	Rental of supportive, convalescent medical equipment	MEDPCARY EQ '630'	560	NA	1,040	NA
MEDPMTX	Supportive and convalescent medical equipment	MEDPCARY EQ '640'	1,000	NA	2,027	NA

Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
MEDPMTX	Rental of medical equipment	MEDPCARY EQ '650'	300	NA	866	NA
MEDPMTX	Medical equipment for general use	MEDPCARY EQ '660'	368	NA	551	NA
MEDRMBX	Eyecare services	MEDRCARY EQ '110'	458	NA	745	NA
MEDRMBX	Dental services	MEDRCARY EQ '200'	1,000	NA	3,140	NA
MEDRMBX	Hospital room and services	MEDRCARY EQ '330'	2,582	NA	7,184	NA
MEDRMBX	Service by professionals other than physician	MEDRCARY EQ '410'	905	NA	1,269	NA
MEDRMBX	Physician's services	MEDRCARY EQ '420'	618	NA	2,638	NA
MEDRMBX	Lab tests, x-rays	MEDRCARY EQ '510'	1,720	NA	3,275	NA
MEDRMBX	Other medical care services	MEDRCARY EQ '530'	728	NA	1,910	NA
MEDRMBX	Supportive and convalescent medical equipment	MEDRCARY EQ '640'	222	NA	1,273	NA
MEDRMBX	Rental of medical equipment	MEDRCARY EQ '650'	0	NA	40	NA
MEDRMBX	Medical equipment for general use	MEDRCARY EQ '660'	108	NA	361	NA
MISCEXPX	Occupational expenses	MISCCODE EQ '380' AND MISCMO EQ '13'	230	NA	596	NA
MISCEXPX	Occupational expenses	MISCCODE EQ '380' AND MISCMO NE '13'	600	NA	1,396	NA
MRTPMTG	Amount of last monthly payment, home equity loan (owned property)	(LOANTYPE EQ '2')	1,360	NA	2,689	NA
MRTPMTX	Amount of last monthly payment (owned property)	(LOANTYPE EQ '1')	3,600	NA	5,691	NA
NETPURX	Net purchase price of boat with motor after discount, trade-in, or rebate, including	VEHICYB EQ '160'	90,000	NA	191,454	NA

Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
	destination fee					
ORGMRTG	Original loan amount, home equity loan (loan obtained during interview quarter) (owned home)	(OWNYG EQ '100' OR OWNYG EQ '200') AND (LOANTYPE EQ '2')	125,151	NA	232,394	NA
ORGMRTG	Original loan amount, home equity loan (loan obtained during interview quarter) (owned vacation)	(OWNYG EQ '300') AND (LOANTYPE EQ '2')	53,000	NA	68,214	NA
ORGMRTG	Original loan amount, home equity loan (loan obtained during interview quarter) (other property)	(OWNYG EQ '400' OR OWNYG EQ '500') AND (LOANTYPE EQ '2')	48,205	NA	150,000	NA
ORGMRTX	Amount of mortgage (owned home)	(OWNYF EQ '100' OR OWNYF EQ '200') AND (LOANTYPE EQ '1')	430,000	NA	614,582	NA
ORGMRTX	Amount of mortgage (vacation home)	(OWNYF EQ '300') AND (LOANTYPE EQ '1')	546,601	NA	697,004	NA
ORGMRTX	Original loan amount (mortgage obtained during interview quarter) (other property)	(OWNYF EQ '400' OR OWNYF EQ '500') AND (LOANTYPE EQ '1')	335,000	NA	722,521	NA
OWN_PURX	Purchase price of property (owned home)	OWNYB EQ '100' OR OWNYB EQ '200'	625,000	NA	784,733	NA
OWN_PURX	Purchase price of property (owned vacation)	OWNYB EQ '300'	403,000	NA	1,316,400	NA
OWN_PURX	Purchase price of property (other property)	OWNYB EQ '400' OR OWNYB EQ '500'	390,000	NA	434,000	NA

Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
PAYMT1G	Amount of mortgage payment in the first month of the reference period, home equity loan (owned home)	(OWNYG EQ '100' OR OWNYG EQ '200') AND (LOANTYPE EQ '2')	2,100	NA	2,400	NA
PAYMT1X	Amount of mortgage payment in the first month of the reference period (owned home)	(OWNYF EQ '100' OR OWNYF EQ '200') AND (LOANTYPE EQ '1')	4,800	NA	9,561	NA
PAYMT1X	Amount of mortgage payment in the first month of the reference period (vacation home)	(OWNYF EQ '300') AND (LOANTYPE EQ '1')	1,954	NA	4,018	NA
PAYMT1X	Amount of mortgage payment in the first month of the reference period (other property)	(OWNYF EQ '400' OR OWNYF EQ '500') AND (LOANTYPE EQ '1')	500	NA	2,376	NA
PAYMT2G	Amount of mortgage payment in the second month of the reference period, home equity loan (owned home)	(OWNYG EQ '100' OR OWNYG EQ '200') AND (LOANTYPE EQ '2')	2,100	NA	2,400	NA
PAYMT2X	Amount of mortgage payment in the second month of the reference period (owned home)	(OWNYF EQ '100' OR OWNYF EQ '200') AND (LOANTYPE EQ '1')	4,700	NA	6,615	NA
PAYMT2X	Amount of mortgage payment in the second month of the reference period (vacation home)	(OWNYF EQ '300') AND (LOANTYPE EQ '1')	1,954	NA	4,018	NA



Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
PAYMT2X	Amount of mortgage payment in the second month of the reference period (other property)	(OWNYF EQ '400' OR OWNYF EQ '500') AND (LOANTYPE EQ '1')	765	NA	3,010	NA
PAYMT3G	Amount of mortgage payment in the third month of the reference period, home equity loan (owned home)	(OWNYG EQ '100' OR OWNYG EQ '200') AND (LOANTYPE EQ '2')	2,100	NA	2,400	NA
PAYMT3X	Amount of mortgage payment in the third month of the reference period (owned home)	(OWNYF EQ '100' OR OWNYF EQ '200') AND (LOANTYPE EQ '1')	4,676	NA	9,625	NA
PAYMT3X	Amount of mortgage payment in the third month of the reference period (vacation home)	(OWNYF EQ '300') AND (LOANTYPE EQ '1')	1,954	NA	4,018	NA
PAYMT3X	Amount of mortgage payment in the third month of the reference period (other property)	(OWNYF EQ '400' OR OWNYF EQ '500') AND (LOANTYPE EQ '1')	500	NA	2,361	NA
PROPVALX	Approximate value property would sell for on today's market (owned home)	OWNYI EQ '100'	750,000	NA	1,192,723	NA
PROPVALX	#N/A	OWNYI EQ '300' AND TIMESHRI EQ '1'	350,000	NA	450,000	NA
PROPVALX	#N/A	OWNYI EQ '300' AND TIMESHRI EQ '1'	1,200,000	NA	2,178,125	NA
QADCAB1X	Cable and satellite	NA	165	NA	186	NA

Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
QADCAB2X	television services Cable and satellite	NA	165	NA	187	NA
QADCAB3X	television services Cable and satellite	NA	164	NA	185	NA
QADFUL1X	television services Water/sewer maint. (owned vacation)	(UTILY EQ '200' OR UTILY EQ '220') AND (UTLPTYPE EQ '2')	250	NA	438	NA
QADFUL1X	Piped in water/sewage maintenance (other property)	(UTILY EQ '200' OR UTILY EQ '220') AND (UTLPTYPE EQ '3')	70	NA	104	NA
QADFUL1X	Water/sewer maint. (renter)	(UTILY EQ '200' OR UTILY EQ '220') AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	180	NA	293	NA
QADFUL1X	Water/sewer maint. (rented vacation)	(UTILY EQ '200' OR UTILY EQ '220') AND (UTLPTYPE EQ '6')	120	NA	233	NA
QADFUL1X	Water/sewer maint. (owned home)	(UTILY EQ '200' OR UTILY EQ '220') AND UTLPTYPE EQ '1'	250	NA	390	NA
QADFUL1X	Electricity (owned vacation)	UTILY EQ '100' AND (UTLPTYPE EQ '2')	604	NA	730	NA
QADFUL1X	Electricity (other property)	UTILY EQ '100' AND (UTLPTYPE EQ '3')	304	NA	550	NA
QADFUL1X	Electricity (renter)	UTILY EQ '100' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	440	NA	569	NA
QADFUL1X	Electricity (rented vacation)	UTILY EQ '100' AND (UTLPTYPE EQ '6')	243	NA	311	NA
QADFUL1X	Electricity (owned home)	UTILY EQ '100' AND UTLPTYPE EQ '1'	525	NA	656	NA
QADFUL1X	Utility--natural gas (owned vacation)	UTILY EQ '110' AND (UTLPTYPE EQ '2')	316	NA	407	NA
QADFUL1X	Utility--natural gas (other property)	UTILY EQ '110' AND (UTLPTYPE EQ '3')	91	NA	102	NA
QADFUL1X	Utility--natural gas (renter)	UTILY EQ '110' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	365	NA	439	NA
QADFUL1X	Utility--natural gas (rented vacation)	UTILY EQ '110' AND (UTLPTYPE EQ '6')	92	NA	108	NA

Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
QADFUL1X	Utility--natural gas (owned home)	UTILY EQ '110' AND UTLPTYPE EQ '1'	500	NA	748	NA
QADFUL1X	Fuel oil (owned vacation)	UTILY EQ '130' AND (UTLPTYPE EQ '2')	238	NA	370	NA
QADFUL1X	Fuel oil (renter)	UTILY EQ '130' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	500	NA	568	NA
QADFUL1X	Fuel oil (owned home)	UTILY EQ '130' AND UTLPTYPE EQ '1'	1,843	NA	2,362	NA
QADFUL1X	Gas, btld/tank (owned vacation)	UTILY EQ '150' AND (UTLPTYPE EQ '2')	387	NA	900	NA
QADFUL1X	#N/A	UTILY EQ '150' AND (UTLPTYPE EQ '3')	100	NA	574	NA
QADFUL1X	Gas, btld/tank (renter)	UTILY EQ '150' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	698	NA	1,080	NA
QADFUL1X	Gas, btld/tank (owned home)	UTILY EQ '150' AND UTLPTYPE EQ '1'	1,300	NA	2,160	NA
QADFUL1X	#N/A	UTILY EQ '180' AND (UTLPTYPE EQ '2')	30	NA	243	NA
QADFUL1X	Coal, wood, other fuels (renter)	UTILY EQ '180' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	250	NA	390	NA
QADFUL1X	Coal, wood, other fuels (owned home)	UTILY EQ '180' AND UTLPTYPE EQ '1'	950	NA	1,550	NA
QADFUL1X	Trash/garb. coll. (owned vacation)	UTILY EQ '210' AND (UTLPTYPE EQ '2')	79	NA	93	NA
QADFUL1X	Trash/garb. coll. (other property)	UTILY EQ '210' AND (UTLPTYPE EQ '3')	35	NA	52	NA
QADFUL1X	Trash/garb. coll. (renter)	UTILY EQ '210' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	153	NA	202	NA
QADFUL1X	Trash/garb. coll. (rented vacation)	UTILY EQ '210' AND (UTLPTYPE EQ '6')	45	NA	85	NA
QADFUL1X	Trash/garb. coll. (owned home)	UTILY EQ '210' AND UTLPTYPE EQ '1'	141	NA	207	NA
QADFUL1X	Water softening service	UTILY EQ '270' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	60	NA	84	NA
QADFUL1X	Water softening service	UTILY EQ '270' AND UTLPTYPE EQ '1'	246	NA	496	NA

Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
QADFUL1X	Septic tank clean. (owned home)	UTILY EQ '280' AND UTLPTYPE EQ '1'	450	NA	930	NA
QADFUL2X	Water/sewer maint. (owned vacation)	(UTILY EQ '200' OR UTILY EQ '220') AND (UTLPTYPE EQ '2')	232	NA	426	NA
QADFUL2X	Piped in water/sewage maintenance (other property)	(UTILY EQ '200' OR UTILY EQ '220') AND (UTLPTYPE EQ '3')	65	NA	104	NA
QADFUL2X	Water/sewer maint. (renter)	(UTILY EQ '200' OR UTILY EQ '220') AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	178	NA	252	NA
QADFUL2X	Water/sewer maint. (rented vacation)	(UTILY EQ '200' OR UTILY EQ '220') AND (UTLPTYPE EQ '6')	126	NA	163	NA
QADFUL2X	Water/sewer maint. (owned home)	(UTILY EQ '200' OR UTILY EQ '220') AND UTLPTYPE EQ '1'	225	NA	332	NA
QADFUL2X	Electricity (owned vacation)	UTILY EQ '100' AND (UTLPTYPE EQ '2')	619	NA	886	NA
QADFUL2X	Electricity (other property)	UTILY EQ '100' AND (UTLPTYPE EQ '3')	275	NA	462	NA
QADFUL2X	Electricity (renter)	UTILY EQ '100' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	433	NA	540	NA
QADFUL2X	Electricity (rented vacation)	UTILY EQ '100' AND (UTLPTYPE EQ '6')	205	NA	260	NA
QADFUL2X	Electricity (owned home)	UTILY EQ '100' AND UTLPTYPE EQ '1'	515	NA	658	NA
QADFUL2X	Utility--natural gas (owned vacation)	UTILY EQ '110' AND (UTLPTYPE EQ '2')	302	NA	470	NA
QADFUL2X	Utility--natural gas (other property)	UTILY EQ '110' AND (UTLPTYPE EQ '3')	98	NA	107	NA
QADFUL2X	Utility--natural gas (renter)	UTILY EQ '110' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	350	NA	427	NA
QADFUL2X	Utility--natural gas (rented vacation)	UTILY EQ '110' AND (UTLPTYPE EQ '6')	91	NA	132	NA
QADFUL2X	Utility--natural gas (owned home)	UTILY EQ '110' AND UTLPTYPE EQ '1'	475	NA	629	NA
QADFUL2X	Fuel oil (owned vacation)	UTILY EQ '130' AND (UTLPTYPE EQ '2')	207	NA	358	NA

Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
QADFUL2X	Fuel oil (renter)	UTILY EQ '130' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	550	NA	715	NA
QADFUL2X	Fuel oil (owned home)	UTILY EQ '130' AND UTLPTYPE EQ '1'	1,200	NA	1,424	NA
QADFUL2X	Gas, btld/tank (owned vacation)	UTILY EQ '150' AND (UTLPTYPE EQ '2')	571	NA	773	NA
QADFUL2X	#N/A	UTILY EQ '150' AND (UTLPTYPE EQ '3')	100	NA	416	NA
QADFUL2X	Gas, btld/tank (renter)	UTILY EQ '150' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	626	NA	928	NA
QADFUL2X	Gas, btld/tank (owned home)	UTILY EQ '150' AND UTLPTYPE EQ '1'	1,400	NA	2,153	NA
QADFUL2X	Coal, wood, other fuels (renter)	UTILY EQ '180' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	200	NA	330	NA
QADFUL2X	Coal, wood, other fuels (owned home)	UTILY EQ '180' AND UTLPTYPE EQ '1'	563	NA	1,067	NA
QADFUL2X	Trash/garb. coll. (owned vacation)	UTILY EQ '210' AND (UTLPTYPE EQ '2')	77	NA	122	NA
QADFUL2X	Trash/garb. coll. (other property)	UTILY EQ '210' AND (UTLPTYPE EQ '3')	29	NA	50	NA
QADFUL2X	Trash/garb. coll. (renter)	UTILY EQ '210' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	153	NA	204	NA
QADFUL2X	Trash/garb. coll. (rented vacation)	UTILY EQ '210' AND (UTLPTYPE EQ '6')	32	NA	44	NA
QADFUL2X	Trash/garb. coll. (owned home)	UTILY EQ '210' AND UTLPTYPE EQ '1'	130	NA	214	NA
QADFUL2X	Water softening service	UTILY EQ '270' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	58	NA	79	NA
QADFUL2X	Water softening service	UTILY EQ '270' AND UTLPTYPE EQ '1'	150	NA	207	NA
QADFUL2X	Septic tank clean. (owned home)	UTILY EQ '280' AND UTLPTYPE EQ '1'	402	NA	584	NA
QADFUL3X	Water/sewer maint. (owned vacation)	(UTILY EQ '200' OR UTILY EQ '220') AND (UTLPTYPE EQ '2')	164	NA	333	NA
QADFUL3X	Piped in water/sewage	(UTILY EQ '200' OR UTILY EQ '220') AND (UTLPTYPE EQ '3')	68	NA	96	NA

Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
	maintenance (other property)					
QADFUL3X	Water/sewer maint. (renter)	(UTILY EQ '200' OR UTILY EQ '220') AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	200	NA	325	NA
QADFUL3X	Water/sewer maint. (rented vacation)	(UTILY EQ '200' OR UTILY EQ '220') AND (UTLPTYPE EQ '6')	105	NA	138	NA
QADFUL3X	Water/sewer maint. (owned home)	(UTILY EQ '200' OR UTILY EQ '220') AND UTLPTYPE EQ '1'	253	NA	387	NA
QADFUL3X	Electricity (owned vacation)	UTILY EQ '100' AND (UTLPTYPE EQ '2')	668	NA	890	NA
QADFUL3X	Electricity (other property)	UTILY EQ '100' AND (UTLPTYPE EQ '3')	264	NA	436	NA
QADFUL3X	Electricity (renter)	UTILY EQ '100' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	480	NA	590	NA
QADFUL3X	Electricity (rented vacation)	UTILY EQ '100' AND (UTLPTYPE EQ '6')	288	NA	417	NA
QADFUL3X	Electricity (owned home)	UTILY EQ '100' AND UTLPTYPE EQ '1'	536	NA	671	NA
QADFUL3X	Utility--natural gas (owned vacation)	UTILY EQ '110' AND (UTLPTYPE EQ '2')	300	NA	596	NA
QADFUL3X	Utility--natural gas (other property)	UTILY EQ '110' AND (UTLPTYPE EQ '3')	98	NA	112	NA
QADFUL3X	Utility--natural gas (renter)	UTILY EQ '110' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	400	NA	509	NA
QADFUL3X	Utility--natural gas (rented vacation)	UTILY EQ '110' AND (UTLPTYPE EQ '6')	98	NA	142	NA
QADFUL3X	Utility--natural gas (owned home)	UTILY EQ '110' AND UTLPTYPE EQ '1'	500	NA	700	NA
QADFUL3X	Fuel oil (owned vacation)	UTILY EQ '130' AND (UTLPTYPE EQ '2')	279	NA	413	NA
QADFUL3X	Fuel oil (renter)	UTILY EQ '130' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	549	NA	719	NA
QADFUL3X	Fuel oil (owned home)	UTILY EQ '130' AND UTLPTYPE EQ '1'	1,500	NA	2,249	NA
QADFUL3X	Gas, btld/tank (owned vacation)	UTILY EQ '150' AND (UTLPTYPE EQ '2')	650	NA	899	NA

Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
QADFUL3X	#N/A	UTILY EQ '150' AND (UTLPTYPE EQ '3')	100	NA	434	NA
QADFUL3X	Gas, btld/tank (renter)	UTILY EQ '150' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	685	NA	1,112	NA
QADFUL3X	Gas, btld/tank (owned home)	UTILY EQ '150' AND UTLPTYPE EQ '1'	1,500	NA	2,804	NA
QADFUL3X	Coal, wood, other fuels (renter)	UTILY EQ '180' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	300	NA	514	NA
QADFUL3X	Coal, wood, other fuels (owned home)	UTILY EQ '180' AND UTLPTYPE EQ '1'	900	NA	1,424	NA
QADFUL3X	Trash/garb. coll. (owned vacation)	UTILY EQ '210' AND (UTLPTYPE EQ '2')	67	NA	85	NA
QADFUL3X	Trash/garb. coll. (other property)	UTILY EQ '210' AND (UTLPTYPE EQ '3')	22	NA	50	NA
QADFUL3X	Trash/garb. coll. (renter)	UTILY EQ '210' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	153	NA	222	NA
QADFUL3X	Trash/garb. coll. (rented vacation)	UTILY EQ '210' AND (UTLPTYPE EQ '6')	44	NA	77	NA
QADFUL3X	Trash/garb. coll. (owned home)	UTILY EQ '210' AND UTLPTYPE EQ '1'	143	NA	251	NA
QADFUL3X	Water softening service	UTILY EQ '270' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	53	NA	123	NA
QADFUL3X	Water softening service	UTILY EQ '270' AND UTLPTYPE EQ '1'	240	NA	485	NA
QADFUL3X	Septic tank clean. (owned home)	UTILY EQ '280' AND UTLPTYPE EQ '1'	652	NA	2,059	NA
QADINE1X	Computer information services	NA	90	NA	118	NA
QADINE2X	Computer information services	NA	90	NA	118	NA

Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
QADINE3X	Computer information services	NA	90	NA	114	NA
QADPSP2X	Materials for additions, finishing basements, remodeling rooms	(CRMPTYPE='4'   CRMPTYPE='5') & (('100'<=CRMCODEB & CRMCODEB<='130')   CRMCODEB='150')	1,000	NA	3,167	NA
QADPSP2X	Total cost of tools, equipment, and supplies purchased for painting and wall papering	(CRMPTYPE='4'   CRMPTYPE='5') & (CRMCODEB='170'   CRMCODEB='180')	250	NA	936	NA
QADPSP2X	Total cost of materials purchased for patios, walks, fences, driveways, masonry, brick, stucco, plastering, panels, roofing, gutters, etc.	(CRMPTYPE='4'   CRMPTYPE='5') & (CRMCODEB='190'   ('260'<=CRMCODEB & CRMCODEB<='280'))	166	NA	301	NA
QADPSP2X	Electrical supplies, heating and cooling equipment	(CRMPTYPE='4'   CRMPTYPE='5') & (CRMCODEB='210'   CRMCODEB='220')	300	NA	500	NA
QADPSP2X	Material for insulation, other maintenance and repair	(CRMPTYPE='4'   CRMPTYPE='5') & (CRMCODEB='240'   CRMCODEB='300')	700	NA	2,883	NA
QADPSP2X	Material for landscape maintenance	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='140'	62	NA	558	NA
QADPSP2X	Plumbing supplies and equipment	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='200'	50	NA	82	NA



Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
QADPSP2X	Material for hard surface flooring	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='230'	40	NA	328	NA
QADPSP2X	Materials and supplies purchased for insulation, dwellings under constr, additions, finishing, remodeling, landscaping, etc.	CRMPTYPE='1' & (CRMPTYPE='1'   CRMPTYPE='2'   CRMPTYPE='5')	6,748	NA	21,667	NA
QADPSP2X	Total cost of tools, equipment, and supplies purchased for painting and wall papering	CRMPTYPE='1' & (CRMPTYPE='3'   CRMPTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	900	NA	1,230	NA
QADPSP2X	Total cost of materials purchased for patios, walks, fences, driveways, masonry,brick, stucco, plastering, panels, roofing, gutters, etc.	CRMPTYPE='1' & (CRMPTYPE='3'   CRMPTYPE='4') & (CRMCODEB='190'   CRMCODEB='270'   CRMCODEB='280')	2,300	NA	3,267	NA
QADPSP2X	Electrical supplies, heating and cooling equipment	CRMPTYPE='1' & (CRMPTYPE='3'   CRMPTYPE='4') & (CRMCODEB='210'   CRMCODEB='220')	500	NA	3,877	NA
QADPSP2X	Material for insulation, other maintenance and repair	CRMPTYPE='1' & (CRMPTYPE='3'   CRMPTYPE='4') & (CRMCODEB='240'   CRMCODEB='300')	1,500	NA	4,079	NA
QADPSP2X	Total cost of materials purchased for patios, walks, fences, driveways, masonry,brick, stucco, plastering, panels, roofing, gutters, etc.	CRMPTYPE='1' & (CRMPTYPE='3'   CRMPTYPE='4') & CRMCODEB='160'	500	NA	750	NA

Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
QADPSP2X	Plumbing supplies and equipment	CRMPTYPE='1' & (CRMPTYPE='3'   CRMPTYPE='4') & CRMCODEB='200'	950	NA	1,213	NA
QADPSP2X	Materials for hard surface flooring, repair and replacement	CRMPTYPE='1' & (CRMPTYPE='3'   CRMPTYPE='4') & CRMCODEB='230'	1,400	NA	2,300	NA
QADPSP2X	Materials and equipment for roof and gutters	CRMPTYPE='1' & (CRMPTYPE='3'   CRMPTYPE='4') & CRMCODEB='260'	600	NA	915	NA
QADPSP2X	Total cost of materials purchased for patios, walks, fences, driveways, masonry, brick, stucco, plastering, panels, roofing, gutters, etc.	CRMPTYPE='1' & (CRMPTYPE='3'   CRMPTYPE='4') & CRMCODEB='290'	25	NA	101	NA
QADPSP2X	Supplies purchased for additions, maintenance and repairs, and new construction	CRMPTYPE='2' & (CRMPTYPE='1'   CRMPTYPE='2'   CRMPTYPE='5')	200	NA	1,688	NA
QADPSP2X	Total cost of tools, equipment, and supplies purchased for painting and wall papering	CRMPTYPE='2' & (CRMPTYPE='3'   CRMPTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	55	NA	310	NA
QADPSP2X	#N/A	CRMPTYPE='3' & (CRMPTYPE='3'   CRMPTYPE='4') & (('120'<=CRMCODEB & CRMCODEB<='240')   ('260'<=CRMCODEB & CRMCODEB<='300'))	0	NA	450	NA
QADPSP3X	Materials for additions, finishing basements, remodeling rooms	(CRMPTYPE='4'   CRMPTYPE='5') & (('100'<=CRMCODEB & CRMCODEB<='130')   CRMCODEB='150')	1,200	NA	2,933	NA

Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
QADPSP3X	Total cost of tools, equipment, and supplies purchased for painting and wall papering	(CRMPTYPE='4'   CRMPTYPE='5') & (CRMCODEB='170'   CRMCODEB='180')	240	NA	560	NA
QADPSP3X	Total cost of materials purchased for patios, walks, fences, driveways, masonry, brick, stucco, plastering, panels, roofing, gutters, etc.	(CRMPTYPE='4'   CRMPTYPE='5') & (CRMCODEB='190'   ('260'<=CRMCODEB & CRMCODEB<='280'))	100	NA	289	NA
QADPSP3X	Electrical supplies, heating and cooling equipment	(CRMPTYPE='4'   CRMPTYPE='5') & (CRMCODEB='210'   CRMCODEB='220')	30	NA	563	NA
QADPSP3X	Material for insulation, other maintenance and repair	(CRMPTYPE='4'   CRMPTYPE='5') & (CRMCODEB='240'   CRMCODEB='300')	165	NA	567	NA
QADPSP3X	Material for landscape maintenance	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='140'	30	NA	150	NA
QADPSP3X	Plumbing supplies and equipment	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='200'	0	NA	49	NA
QADPSP3X	Material for hard surface flooring	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='230'	0	NA	487	NA
QADPSP3X	Materials and supplies purchased for insulation, dwellings under constr, additions, finishing, remodeling,	CRMPTYPE='1' & (CRMPTYPE='1'   CRMPTYPE='2'   CRMPTYPE='5')	6,800	NA	8,000	NA

Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
	landscaping, etc.					
QADPSP3X	Total cost of tools, equipment, and supplies purchased for painting and wall papering	CRMPTYPE='1' & (CRMPTYPE='3'   CRMPTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	1,000	NA	2,735	NA
QADPSP3X	Total cost of materials purchased for patios, walks, fences, driveways, masonry,brick, stucco, plastering, panels, roofing, gutters, etc.	CRMPTYPE='1' & (CRMPTYPE='3'   CRMPTYPE='4') & (CRMCODEB='190'   CRMCODEB='270'   CRMCODEB='280')	675	NA	1,325	NA
QADPSP3X	Electrical supplies, heating and cooling equipment	CRMPTYPE='1' & (CRMPTYPE='3'   CRMPTYPE='4') & (CRMCODEB='210'   CRMCODEB='220')	400	NA	1,300	NA
QADPSP3X	Material for insulation, other maintenance and repair	CRMPTYPE='1' & (CRMPTYPE='3'   CRMPTYPE='4') & (CRMCODEB='240'   CRMCODEB='300')	1,000	NA	1,990	NA
QADPSP3X	Total cost of materials purchased for patios, walks, fences, driveways, masonry,brick, stucco, plastering, panels, roofing, gutters, etc.	CRMPTYPE='1' & (CRMPTYPE='3'   CRMPTYPE='4') & CRMCODEB='160'	750	NA	1,186	NA
QADPSP3X	Plumbing supplies and equipment	CRMPTYPE='1' & (CRMPTYPE='3'   CRMPTYPE='4') & CRMCODEB='200'	564	NA	833	NA
QADPSP3X	Materials for hard surface flooring, repair and replacement	CRMPTYPE='1' & (CRMPTYPE='3'   CRMPTYPE='4') & CRMCODEB='230'	823	NA	1,700	NA

Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
QADPSP3X	Materials and equipment for roof and gutters	CRMPTYPE='1' & (CRMPTYPE='3'   CRMPTYPE='4') & CRMCODEB='260'	1,600	NA	2,762	NA
QADPSP3X	Total cost of materials purchased for patios, walks, fences, driveways, masonry,brick, stucco, plastering, panels, roofing, gutters, etc.	CRMPTYPE='1' & (CRMPTYPE='3'   CRMPTYPE='4') & CRMCODEB='290'	0	NA	400	NA
QADPSP3X	Supplies purchased for additions, maintenance and repairs, and new construction	CRMPTYPE='2' & (CRMPTYPE='1'   CRMPTYPE='2'   CRMPTYPE='5')	800	NA	17,833	NA
QADPSP3X	Total cost of tools, equipment, and supplies purchased for painting and wall papering	CRMPTYPE='2' & (CRMPTYPE='3'   CRMPTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	130	NA	674	NA
QADPSPLX	Materials for additions, finishing basements, remodeling rooms	(CRMPTYPE='4'   CRMPTYPE='5') & (('100'<=CRMCODEB & CRMCODEB<='130')   CRMCODEB='150')	600	NA	1,128	NA
QADPSPLX	Total cost of tools, equipment, and supplies purchased for painting and wall papering	(CRMPTYPE='4'   CRMPTYPE='5') & (CRMCODEB='170'   CRMCODEB='180')	150	NA	300	NA
QADPSPLX	Total cost of materials purchased for patios, walks, fences, driveways, masonry,brick, stucco, plastering,	(CRMPTYPE='4'   CRMPTYPE='5') & (CRMCODEB='190'   ('260'<=CRMCODEB & CRMCODEB<='280'))	50	NA	140	NA

Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
	panels, roofing, gutters, etc.					
QADPSPLX	Electrical supplies, heating and cooling equipment	(CRMPTYPE='4'   CRMPTYPE='5') & (CRMCODEB='210'   CRMCODEB='220')	22	NA	573	NA
QADPSPLX	Material for insulation, other maintenance and repair	(CRMPTYPE='4'   CRMPTYPE='5') & (CRMCODEB='240'   CRMCODEB='300')	65	NA	208	NA
QADPSPLX	Material for landscape maintenance	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='140'	80	NA	300	NA
QADPSPLX	Plumbing supplies and equipment	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='200'	85	NA	268	NA
QADPSPLX	Material for hard surface flooring	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='230'	0	NA	101	NA
QADPSPLX	Materials and supplies purchased for insulation, dwellings under constr, additions, finishing, remodeling, landscaping, etc.	CRMPTYPE='1' & (CRMPTYPE='1'   CRMPTYPE='2'   CRMPTYPE='5')	7,352	NA	8,833	NA
QADPSPLX	Total cost of tools, equipment, and supplies purchased for painting and wall papering	CRMPTYPE='1' & (CRMPTYPE='3'   CRMPTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	400	NA	729	NA
QADPSPLX	Total cost of materials purchased for patios, walks, fences, driveways, masonry,brick,	CRMPTYPE='1' & (CRMPTYPE='3'   CRMPTYPE='4') & (CRMCODEB='190'   CRMCODEB='270'   CRMCODEB='280')	1,300	NA	2,133	NA

Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
	stucco, plastering, panels, roofing, gutters, etc.					
QADPSPLX	Electrical supplies, heating and cooling equipment	CRMPTYPE='1' & (CRMPTYPE='3'   CRMPTYPE='4') & (CRMCODEB='210'   CRMCODEB='220')	550	NA	4,336	NA
QADPSPLX	Material for insulation, other maintenance and repair	CRMPTYPE='1' & (CRMPTYPE='3'   CRMPTYPE='4') & (CRMCODEB='240'   CRMCODEB='300')	780	NA	1,264	NA
QADPSPLX	Total cost of materials purchased for patios, walks, fences, driveways, masonry,brick, stucco, plastering, panels, roofing, gutters, etc.	CRMPTYPE='1' & (CRMPTYPE='3'   CRMPTYPE='4') & CRMCODEB='160'	400	NA	692	NA
QADPSPLX	Plumbing supplies and equipment	CRMPTYPE='1' & (CRMPTYPE='3'   CRMPTYPE='4') & CRMCODEB='200'	800	NA	1,053	NA
QADPSPLX	Materials for hard surface flooring, repair and replacement	CRMPTYPE='1' & (CRMPTYPE='3'   CRMPTYPE='4') & CRMCODEB='230'	1,025	NA	2,033	NA
QADPSPLX	Materials and equipment for roof and gutters	CRMPTYPE='1' & (CRMPTYPE='3'   CRMPTYPE='4') & CRMCODEB='260'	1,200	NA	4,750	NA
QADPSPLX	Supplies purchased for additions, maintenance and repairs, and new construction	CRMPTYPE='2' & (CRMPTYPE='1'   CRMPTYPE='2'   CRMPTYPE='5')	1,000	NA	1,433	NA
QADPSPLX	Total cost of tools, equipment, and supplies purchased for	CRMPTYPE='2' & (CRMPTYPE='3'   CRMPTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	0	NA	188	NA

Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
QADPSPLX	painting and wall papering Contractors labor and materials, supplies CU obtained, appliances provided by contractor, other property	CRMPTYPE='3' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	250	NA	653	NA
QADPTAX	Property taxes	OWNYB EQ '100' OR OWNYB EQ '200'	9,200	NA	13,895	NA
QADPTAX	Property taxes	OWNYB EQ '300'	8,000	NA	13,464	NA
QADPTAX	Expenses for other properties	OWNYB EQ '400' OR OWNYB EQ '500'	4,600	NA	8,765	NA
QADRSP2X	Capital improvement labor and materials (owned home)	CRMPTYPE='1' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	410	NA	1,050	NA
QADRSP2X	Other repair and maintenance services	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (('120'<=CRMCODEB & CRMCODEB<='160')   CRMCODEB='190'   CRMCODEB='240'   (('270'<=CRMCODEB & CRMCODEB<='300'))	160	NA	207	NA
QADRSP3X	Capital improvement labor and materials (owned home)	CRMPTYPE='1' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	750	NA	1,950	NA



Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
QADRSP3X	Other repair and maintenance services	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (('120'<=CRMCODEB & CRMCODEB<='160')   CRMCODEB='190'   CRMCODEB='240'   ('270'<=CRMCODEB & CRMCODEB<='300'))	75	NA	238	NA
QADRSP3X	#N/A	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='230'	99	NA	237	NA
QADRSP3X	Capital improvement labor and materials (owned home)	CRMPTYPE='1' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	700	NA	1,633	NA
QADRSP3X	Other repair and maintenance services	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (('120'<=CRMCODEB & CRMCODEB<='160')   CRMCODEB='190'   CRMCODEB='240'   ('270'<=CRMCODEB & CRMCODEB<='300'))	250	NA	436	NA
QADRSP3X	Painting and papering	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	0	NA	35	NA
QBLNCM1G	Principal balance outstanding at the beginning of the month 3 months ago, home equity loan	('100' LE OWNYG LE '500') AND (LOANTYPE EQ '2')	107,419	NA	177,302	NA
QBLNCM1X	Principal balance outstanding at the beginning of the month 3 months ago	('100' LE OWNYF LE '500') AND (LOANTYPE EQ '1')	400,665	NA	574,434	NA
QBLNCM2G	Principal balance outstanding at the beginning of the month 2	('100' LE OWNYG LE '500') AND (LOANTYPE EQ '2')	107,154	NA	176,197	NA

Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
	months ago, home equity loan					
QBLNCM2X	Principal balance outstanding at the beginning of the month 2 months ago	('100' LE OWNYF LE '500') AND (LOANTYPE EQ '1')	400,135	NA	573,000	NA
QBLNCM3G	Principal balance outstanding at the beginning of the month 1 month ago, home equity loan	('100' LE OWNYG LE '500') AND (LOANTYPE EQ '2')	106,888	NA	183,223	NA
QBLNCM3X	Principal balance outstanding at the beginning of the month 1 month ago	('100' LE OWNYF LE '500') AND (LOANTYPE EQ '1')	401,267	NA	571,730	NA
QHI3MCX	Health maintenance organization (BCBS)	HHICODE EQ '1' AND HHIBCBS EQ '1'	3,462	NA	5,473	NA
QHI3MCX	Health maintenance organization (not BCBS)	HHICODE EQ '1' AND HHIBCBS EQ '2'	3,122	NA	3,998	NA
QHI3MCX	Traditional fee for service health plan (BCBS)	HHICODE EQ '2' AND HHIBCBS EQ '1' AND HHIFEET = '1'	3,323	NA	3,951	NA
QHI3MCX	Preferred provider health plan (BCBS)	HHICODE EQ '2' AND HHIBCBS EQ '1' AND HHIFEET = '2'	3,552	NA	4,192	NA
QHI3MCX	Traditional fee for service health plan (not BCBS)	HHICODE EQ '2' AND HHIBCBS EQ '2' AND HHIFEET = '1'	3,028	NA	4,026	NA
QHI3MCX	Preferred provider health plan (not BCBS)	HHICODE EQ '2' AND HHIBCBS EQ '2' AND HHIFEET = '2'	3,450	NA	4,953	NA
QHI3MCX	Commercial medicare supplement (BCBS)	HHICODE EQ '3' AND HHIBCBS EQ '1'	2,600	NA	3,197	NA

Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
QHI3MCX	Commercial medicare supplement (not BCBS)	HHICODE EQ '3' AND HHBCBS EQ '2'	2,700	NA	4,225	NA
QHI3MCX	Other health insurance (BCBS)	HHICODE EQ '4' AND HHBCBS EQ '1'	2,400	NA	3,467	NA
QHI3MCX	Other health insurance (not BCBS)	HHICODE EQ '4' AND HHBCBS EQ '2'	1,245	NA	1,495	NA
QLMPSUMX	Special lump sum mortgage payment (vacation home)	OWNYI EQ '300'	17,700	NA	71,333	NA
QLMPSUMX	Special lump sum mortgage payment (other property)	OWNYI EQ '400' OR OWNYI EQ '500'	1,000	NA	13,250	NA
QLMPSUMX	Special lump sum mortgage payment (owned home)	OWNYI EQ '100' OR OWNYI EQ '200'	5,000	NA	25,840	NA
QLR3MCMX	Amount paid for ground or land rent (vacation home)	OWNYI EQ '300'	2,600	NA	3,173	NA
QLR3MCMX	Ground rent	OWNYI EQ '100' OR OWNYI EQ '200'	1,620	NA	2,089	NA
QPRINM1G	Reduction mortgage principal, home equity loan (owned home)	(OWNYG EQ '100' OR OWNYG EQ '200') AND (LOANTYPE EQ '2')	805	NA	1,282	NA
QPRINM1G	Reduction mortgage principal, home equity loan (owned vacation)	(OWNYG EQ '300') AND (LOANTYPE EQ '2')	529	NA	685	NA
QPRINM1G	Reduction mortgage principal, home equity loan (other property)	(OWNYG EQ '400' OR OWNYG EQ '500') AND (LOANTYPE EQ '2')	273	NA	396	NA
QPRINM1X	Reduction of mortgage principal (owned home)	(OWNYF EQ '100' OR OWNYF EQ '200') AND (LOANTYPE EQ '1')	1,062	NA	1,846	NA

Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
QPRINM1X	Reduction of mortgage principal (owned vacation)	(OWNYF EQ '300') AND (LOANTYPE EQ '1')	820	NA	1,715	NA
QPRINM1X	Reduction of mortgage principal (other property)	(OWNYF EQ '400' OR OWNYF EQ '500') AND (LOANTYPE EQ '1')	791	NA	909	NA
QPRINM2G	Reduction mortgage principal, home equity loan (owned home)	(OWNYG EQ '100' OR OWNYG EQ '200') AND (LOANTYPE EQ '2')	810	NA	1,281	NA
QPRINM2G	Reduction mortgage principal, home equity loan (owned vacation)	(OWNYG EQ '300') AND (LOANTYPE EQ '2')	533	NA	688	NA
QPRINM2G	Reduction mortgage principal, home equity loan (other property)	(OWNYG EQ '400' OR OWNYG EQ '500') AND (LOANTYPE EQ '2')	274	NA	399	NA
QPRINM2X	Reduction of mortgage principal (owned home)	(OWNYF EQ '100' OR OWNYF EQ '200') AND (LOANTYPE EQ '1')	1,059	NA	1,849	NA
QPRINM2X	Reduction of mortgage principal (owned vacation)	(OWNYF EQ '300') AND (LOANTYPE EQ '1')	817	NA	1,587	NA
QPRINM2X	Reduction of mortgage principal (other property)	(OWNYF EQ '400' OR OWNYF EQ '500') AND (LOANTYPE EQ '1')	795	NA	914	NA
QPRINM3G	Reduction mortgage principal, home equity loan (owned home)	(OWNYG EQ '100' OR OWNYG EQ '200') AND (LOANTYPE EQ '2')	815	NA	1,314	NA
QPRINM3G	Reduction mortgage principal, home equity loan (owned vacation)	(OWNYG EQ '300') AND (LOANTYPE EQ '2')	537	NA	690	NA
QPRINM3G	Reduction mortgage principal, home equity loan (other property)	(OWNYG EQ '400' OR OWNYG EQ '500') AND (LOANTYPE EQ '2')	276	NA	401	NA

Variable	Description	Condition	2009 Upper Critical Value	2009 Lower Critical Value	2009 Upper Topcode Value	2009 Lower Topcode Value
QPRINM3X	Reduction of mortgage principal (owned home)	(OWNYF EQ '100' OR OWNYF EQ '200') AND (LOANTYPE EQ '1')	1,060	NA	1,838	NA
QPRINM3X	Reduction of mortgage principal (owned vacation)	(OWNYF EQ '300') AND (LOANTYPE EQ '1')	821	NA	1,626	NA
QPRINM3X	Reduction of mortgage principal (other property)	(OWNYF EQ '400' OR OWNYF EQ '500') AND (LOANTYPE EQ '1')	799	NA	920	NA
QRT3MCMX	Rent	NA	5,700	NA	8,019	NA
RNTEQVX	Estimated monthly rental value of owned home	OWNYI EQ '100'	3,000	NA	4,629	NA
RNTEQVX	#N/A	OWNYI EQ '300' AND TIMESHRI EQ '1'	10,833	NA	13,433	NA
RNTEQVX	#N/A	OWNYI EQ '300' AND TIMESHRI NE '1' AND VAC_SEC NE '1'	4,200	NA	7,258	NA
RNTEQVX	#N/A	OWNYI EQ '300' AND VAC_SEC EQ '1'	11,200	NA	14,778	NA
SALEX	Sale of boats, with motors	VEHICYC EQ '160'	4,000	NA	14,333	NA
TELCEL1X	Cellular phone service	NA	334	NA	423	NA
TELCEL2X	Cellular phone service	NA	330	NA	424	NA
TELCEL3X	Cellular phone service	NA	342	NA	451	NA
TELRES1X	Residential telephone/pay phones	NA	220	NA	289	NA
TELRES2X	Residential telephone/pay phones	NA	210	NA	288	NA
TELRES3X	Residential telephone/pay phones	NA	215	NA	304	NA
TOTYUPDX	Lodging on out-of-town trips	TOTYUPDY EQ '130'	1,129	NA	2,252	NA
TRNONCUX	Lodging on out-of-town trips	TRNONCUY EQ '130'	938	NA	2,521	NA

## V. ESTIMATION PROCEDURE

### A. DESCRIPTION OF PROCEDURES

The following section describes procedures for using microdata for the estimation of descriptive statistics such as aggregates and means. A sample program written in SAS that illustrates this methodology is in Section VII. MICRODATA VERIFICATION AND ESTIMATION METHODOLOGY

#### 1. GENERAL CONCEPTS

##### a. **SAMPLE VERSUS POPULATION ESTIMATES**

As described in Section X.C. WEIGHTING, each CU in the CE sample represents a given number of CUs in the U.S. population. The translation of sample CUs into a population estimate is accomplished by weighting. FINLWT21, one of the 45 weight variables associated with each CU, is used to estimate the population. Procedures for estimating sample (unweighted) and population (weighted) statistics are described in Sections V.A.2. ESTIMATION OF UNWEIGHTED STATISTICS and V.A.3. ESTIMATION OF WEIGHTED STATISTICS below.

##### b. **CALENDAR PERIOD VERSUS COLLECTION PERIOD**

Because the rotating panel design of the Interview survey has an effect on the structure of the data files, one must be aware of the distinction between calendar period and collection period in producing estimates. (See Section X.A. SURVEY SAMPLE DESIGN for a description of the panel rotation scheme.)

Respondents are asked to report expenditures made since the first of the month three months prior to the interview month. For example, if a CU is interviewed in February of 2009, they are reporting expenditures for November and December of 2008, and January of 2009. This is illustrated in the rotation chart below. The period between November 1 and January 31 is referred to as the reference period for the interview.

Month of Expenditure	Month of Interview					
	January Panel A	February Panel B	March Panel C	April Panel A	May Panel B	June Panel C
October	X					
November	X	X				
December	X	X	X			
January		X	X	X		
February			X	X	X	
March				X	X	X
April					X	X
May						X

Please note that UCCs 006001 and 006002 -- total amount owed to creditors (2nd and 5th interviews) -- do not adhere to the above mapping scheme. They are mapped to the month of the interview, *not* to preceding months.

The microdata files are organized and identified by collection period, i.e., the month of the interview. Thus, the MTAB file for the second quarter of 2009 contains expenditure data collected in interviews that took place in April, May, and June of 2009. Referring to the rotation chart, one can see that this MTAB file contains expenditures made between January 2009 and May 2009. Similarly, the MTAB file for the third quarter of 2009 (interviews conducted between July and September) contains expenditures made between April and August 2009. To obtain all expenditures made in January 2009, one should access the

MTAB files for both the first and second quarters of 2009. The MTAB file for the first quarter of 2009 would contain January expenditures made by CUs interviewed in February and March 2009, while the MTAB file for the second quarter of 2009 would contain January expenditures made by CUs interviewed in April 2009.

As a consequence, users should be clear as to whether they desire estimates based on when expenditures were reported (collection period) or when expenditures were made (calendar period).

To produce an annual estimate for 2009 based on collection period, that is, from all interviews conducted in 2009, data users need data only from Q091 through Q094 files. However, to produce a 2009 annual estimate based on expenditures made in 2009 (calendar period), one needs to access five collection-quarter files, the first quarter of 2009 through the first quarter of 2010. (The estimates published by BLS are based on calendar periods that require the subsequent year's first quarter data).

The ITAB files are derived in a slightly different manner than MTAB. As was mentioned in the description of the ITAB file, the data on the file represents the conversion of annual and point-of-interview data into a monthly format compatible with MTAB. Looking at a CU interviewed in January 2009, as an example, nonfarm business income earned over the previous 12 months would be collected and recorded as such on the FMLY file. For the ITAB file, this annual amount would be divided by 12, and separate records would be created for October, November, and December each containing that amount.

The variables REF\_MO, REF\_YR, QINTRVMO, and QINTRVYR indicate reference month of expenditure, reference year of expenditure, interview month, and interview year, respectively. REF\_MO and REF\_YR, in the MTAB and ITAB files, can be used to select all data for the desired period in which expenditures were made. Because of the interview rotation pattern, there is a one-month to three-month lag between the time an expenditure occurs and the time it is reported. QINTRVMO and QINTRVYR can be used to identify the collection reference period.

In addition to its effect on the selection of data prior to estimation, this distinction between collection period and calendar period also directly affects the estimation procedure for producing means. In computing means based on data collected from all CUs interviewed in a given time frame (e.g., year, quarter, 8 months), the potential contribution of each CU to the mean is the same. That is each CU can contribute data from the entire reference period to the estimate. On the other hand, in computing means based on expenditures made in a given time frame, the potential contribution of each CU to the mean varies depending on how closely the reference period for an interview coincides with the time frame desired. To see this more clearly, refer once again to the rotation chart. To compute a mean for expenditures made during the first quarter of the year, one would obtain data from CUs interviewed between February and June. However, their potential contributions to the mean are not equal. CUs interviewed in February only contribute 'one-third' of the expenditures they made during the reference period to the estimate (their January expenditures), while CUs interviewed in April contribute all their expenditures to the estimate.

As a result, the population (the denominator in the equation for a mean) has to be adjusted to account for the difference in contribution among CUs. At BLS we create a variable, MO\_SCOPE, that shows the number of months a CU's interview can contribute to the mean or is "in scope" for the time period the estimate will cover. All CUs interviewed in the same month will have identical values for MO\_SCOPE, as their potential contribution to the mean is the same. Thus, MO\_SCOPE will be conditioned on the value of QINTRVMO (and possibly QINTRVYR).

Continuing with our example of estimating a mean for expenditures made during the first quarter of the year, we would access data from files for the first and second quarter of the year. MO\_SCOPE would be derived as explained below.

If QINTRVMO is 1 then MO\_SCOPE is 0  
if QINTRVMO is 2 then MO\_SCOPE is 1  
if QINTRVMO is 3 then MO\_SCOPE is 2

if QINTRVMO is 4 then MO\_SCOPE is 3  
 if QINTRVMO is 5 then MO\_SCOPE is 2  
 if QINTRVMO is 6 then MO\_SCOPE is 1

Note that MO\_SCOPE has a value of 0 for CUs interviewed in January, as they report expenditures for October through December, totally outside the period of interest. One could extract a data set of only CUs interviewed between February and June to eliminate that condition. How MO\_SCOPE is used in estimation will be discussed later.

### **c. TIME PERIOD DIFFERENCES**

It has been mentioned previously that these files contain data that can cover a variety of time periods. Values for MTAB and ITAB variables are monthly. Values for variables on the FMLY and MEMB files can vary. For example income variables are for annual time periods and demographic variables are as of the time of interview. As such, users should pay particular attention to the descriptions of variables in the detailed listings of Section III.E. DETAILED VARIABLE DESCRIPTIONS.

This is particularly important where the user may have a choice between variables on two files that contain the same data adjusted to reflect different time periods. For instance, FMLY income data are annual covering the 12-month period prior to the collection month, whereas in ITAB these income data have been converted into monthly values. Selected demographic characteristic variables in the FMLY files contain values as of the date of interview. In the ITAB files, these values are treated as if they were "annual" amounts, and are converted to monthly records by dividing the values by 12. To illustrate each of these cases, the following example looks at a CU interviewed in April whose reference person is 60 years old at the time of interview and where CU income from wages and salaries over the previous 12 months is \$48,000.

FMLY		UCC	ITAB		MONTH
<u>VARIABLE</u>	<u>AMOUNT</u>		<u>AMOUNT</u>		
FSALARYM	\$48,000	900000	\$4,000	JAN	
		900000	\$4,000	FEB	
		900000	\$4,000	MAR	
AGE_REF	60	980020	5	JAN	
			5	FEB	
			5	MAR	

Users should be aware of these time period differences when using the data.

### **d. COMPARISONS WITH PUBLISHED CE DATA**

The mean values for some income and expenditure items which appear in CE publications are different than those derived from the Interview public-use microdata because some variables are topcoded or suppressed on the public-use files, but are not so treated on BLS's own data base in producing published data. (For detailed topcoding information, see Section IV. TOPCODING AND OTHER NONDISCLOSURE REQUIREMENTS.)

## **2. ESTIMATION OF UNWEIGHTED STATISTICS**

### **a. AGGREGATE STATISTICS**

To compute unweighted aggregate expenditures from data on the MTAB files, one would sum the value of the COST field for MTAB records of interest. These records could be selected on the basis of factors such as item category, month or year of occurrence, or characteristics of the CU or its members. While MTAB is a monthly file, there is no summation done at the monthly level for each CU for expenditures with



similar UCC and gift characteristics. Thus one may find multiple MTAB records with identical characteristics including COST, if the CU reported the expenditures as discrete purchases. A similar approach can be applied to estimate aggregate income from data on the ITAB files, summing the VALUE field on the appropriate records.

Certain MTAB and ITAB item categories are collected only in the 5th interview. Therefore, the data are reported by only one-fourth of the sample at any time. For some categories, the reported values have been multiplied by 4 to expand them to represent the total sample, while in other categories, this has not been done. When estimating for these UCCs, values should be multiplied by 4 for total sample representation. (See Sections III.F.3 MONTHLY EXPENDITURES (MTAB) FILE and III.F.4 INCOME (ITAB) FILE.)

The estimation of aggregates for FMLY and MEMB file variables is similar to that for MTAB and ITAB variables. To estimate aggregates from data on the FMLY file, one would sum the value of the desired variable field for FMLY records selected on the basis of, for example, other CU characteristic variables on the FMLY file, characteristics of CU members, expenditures made, and month or year of interview. Aggregates for MEMB file variables would be developed in a similar fashion.

The user must be careful in interpreting what the aggregate represents because of the time period differences between variables on different files. For example, summing the COST field of MTAB records representing purchases for a UCC that occurred in a specific month will yield an aggregate monthly expenditure for that UCC. However, summing the value of a FMLY file variable such as FSALARYM for all CUs interviewed in a specific month will yield an aggregate annual value for that variable.

In general, one can use an aggregate derived for a certain time period to extrapolate an aggregate estimate for a longer time period. A typical case is the estimation of annual aggregates based on an aggregate using less than 12 months of data. To do this, divide the number of months for which the estimate is desired (12) by the number of months of expenditure data being used and multiply the aggregate by that quotient.

## **b. MEANS**

There are two types of means that are customarily derived from CE data. The most common is the sample mean computed over all CUs. The other is the mean of those reporting computed over only those CUs actually reporting the item. The following sections look at each type of mean.

### **(i) SAMPLE MEANS**

Unweighted sample means are derived by computing an aggregate estimate for the desired item and dividing it by the sample size over the time period being estimated. Deriving an aggregate estimate has already been discussed; ascertaining the correct sample size is the next task.

The Interview survey is designed such that the CUs interviewed in each quarter represent one independent sample. Since there is one FMLY record for each sample CU, the national sample for the first quarter of 2009 is 6940. (See Section III.B. RECORD COUNTS AND LOGICAL RECORD LENGTHS) The appropriate sample size for any time period will reflect the number of interviewed CUs eligible to report data over the period adjusted by the number of independent samples represented. As explained earlier, the major consideration is whether the desired estimate is a collection period estimate or a calendar period estimate.

To calculate the sample size for a collection period estimate, divide the total number of CUs interviewed by the quotient of the number of months in which these interviews occurred divided by 3. For example, one might wish to estimate the annual sample mean expenditure for men's shirts for all CUs interviewed in 2009. If one were to divide the aggregate expenditure on men's shirts from these interviews by the total number of CUs interviewed, one would get an annual sample mean about 1/4 as large as it should be, since the number of CUs interviewed represented four independent samples (one sample for each

quarter of 2009). In fact, one would have derived the average quarterly sample mean rather than the annual sample mean. To get the annual sample mean, one would have to divide the total number of CUs interviewed by 4 (or 12 months divided by 3), thereby computing the average sample size over the year, and divide the aggregate by that amount.

As mentioned earlier, when one computes a calendar period estimate, the variable MO\_SCOPE is required to adjust the sample size for the difference in potential contribution among CUs. Since one independent sample of CUs is represented in each quarter, the sum of MO\_SCOPE for one quarter can be up to 3 times the independent sample (if MO\_SCOPE = 3 for every CU interviewed in the quarter, the sum of MO\_SCOPE would be equal 3 times the independent sample). To calculate the sample size for a calendar period estimate, sum MO\_SCOPE for the appropriate CUs and divide by 3. Note that this makes sense in those instances where MO\_SCOPE does not equal 3. Referring to the example where MO\_SCOPE was introduced, we can see that summing MO\_SCOPE for CUs interviewed in the second quarter of the year (QINTRVMO = 4-6) would yield approximately one independent sample as CUs interviewed in June would be counted twice while CUs interviewed in April would not be counted. Dividing this amount by 3 would yield a sample size of 1/3 the independent sample. Keep in mind that only 1/3 of the expenditures reported in those interviews occurred within the time period of the aggregate being estimated. Only April data from May interviews and April-May data from June interviews would be included in the aggregate.

One can see how the computation of sample size is affected when one calculates the commonly-used annual calendar period estimate. A 2009 estimate would be based on data from interviews over five quarters. MO\_SCOPE would take on the following values:

Interview Month and Year									
	2009			2009					
	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>
MO_SCOPE	0	1	2	3	3	3	3	3	3
	2009			2010	2010				
	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>			
MO_SCOPE	3	3	3	3	2	1			

Summing MO\_SCOPE for each of the five quarters and dividing by 3 would yield a value of 1/3 the independent sample for the first quarter of 2009, 2/3 the independent sample for the first quarter of 2009, and one independent sample for the second, third, and fourth quarters of 2009. Summed over the five quarters, this represents 4 independent samples, so the result should be divided by 4 to get the correct sample size of one average independent sample. Thus, the general rule in computing sample size for deriving an annual calendar period estimate is to sum MO\_SCOPE over the five quarters and divide by 12.

## (ii) MEANS OF THOSE REPORTING

The only difference between estimating a mean-of-those-reporting and estimating a sample mean is in selecting the appropriate CUs to use in the computation. The CUs to be used depend on the objective of the analysis. In deriving a sample mean, all sample units interviewed over the time period covered are included in the computation of sample size whether or not they reported the item being estimated. In computing a mean of those reporting, only those CUs reporting the desired item would be included. The aggregate estimate used in the numerator is the same in either case. The adjustments made for MO\_SCOPE and the fact that each quarter represents one independent sample would apply in this case as well. It should be noted that means of those reporting are not U.S. population estimates. They cannot be used to calculate total expenditures or expenditure shares for the U.S. population. They are useful only at the computed level.

### 3. ESTIMATION OF WEIGHTED STATISTICS

By applying weights when computing aggregates or means, one transforms the results from sample estimates to population estimates. There are 45 weight variables on the FMLY file, WTREP01-WTREP44 and FINLWT21. All the WTREP variables are half-sample replicate weights that should be used in variance computation. Use FINLWT21 to estimate weighted statistics for the population of CUs.

Users should follow the procedures for estimating unweighted statistics described above. When estimating weighted aggregates, the desired cost or value field should be multiplied by FINLWT21 at the CU level before summing across all appropriate records. In determining the proper sample size when computing collection period means, divide the sum of FINLWT21 for the CUs interviewed by the quotient of the number of months in which these interviews occurred divided by 3. Where calendar period means are to be estimated, multiply MO\_SCOPE by FINLWT21 for each CU prior to summing and dividing by 3.

## B. DESCRIPTION OF FORMULAS

Expenditure items will be referred to in these descriptions, but income items can be handled similarly except where otherwise stated.

### Definition of Terms:

Let

- $S$  = all CUs in the subpopulation of interest
- $x$  = item(s) of interest
- $q$  = number of months for which estimate is desired
- $m$  = number of months of interviews whose expenditures are to be used in calculating the estimate (collection period estimate)
- $r$  = number of months in which expenditures were made to be used in calculating the estimate (calendar period estimate)
- $j$  = individual CU in subpopulation  $S$
- $t$  = month of expenditure
- $i$  = month of interview
- $MSC$  = MO\_SCOPE value

Then

- $E_{i,x,i}$  = 3-month expenditure by  $CU_j$  on item  $x$  reported at month  $i$  interview
- $E_{j,x,t}$  = monthly expenditure by  $CU_j$  on item  $x$  made during month  $t$
- $W_{j,i,F21}$  = weight assigned to  $CU_j$  for interview at month  $i$
- $W_{j,t,F21}$  = weight assigned to  $CU_j$  for interview where  $CU_j$  makes expenditure during month  $t$

The F21 denotes FINLWT21, which is used for population estimates.

### 1. AGGREGATE EXPENDITURE ESTIMATES (UNWEIGHTED)

An estimate of unweighted aggregate expenditures for a collection period can be expressed as:

${}_{UK} X_{(S,x)(q,m)}$  = an unweighted collection ( $UK$ ) period estimate of aggregate expenditures ( $X$ ) by CUs in subpopulation  $S$ , indexed from  $j = 1$  through  $k$ , on item  $x$  over  $q$  months of interviews, where data collected over  $m$  months of interviews are used.

or

$${}_{UK} X_{(S,x)(q,m)} = \left( \frac{q}{m} \right) \sum_{i=1}^m \left( \sum_{j=1}^k E_{x,j} \right)_i$$

An estimate of unweighted aggregate expenditures for a calendar period can be expressed as:

${}_{UC} X_{(S,x)(q,r)}$  = an unweighted calendar (*UC*) period estimate of aggregate expenditures (*X*) by CUs in subpopulation *S*, indexed from *j* = 1 through *k*, on item *x* over *q* months, where expenditures made over *r* months are used.

or

$${}_{UC} X_{(S,x)(q,r)} = \left( \frac{q}{r} \right) \sum_{t=1}^r \left( \sum_{j=1}^k E_{x,j} \right)_t$$

## 2. **SAMPLE MEAN EXPENDITURE ESTIMATES (UNWEIGHTED)**

An estimate of an unweighted mean expenditure for a collection period can be expressed as:

${}_{UK} \bar{X}_{(S,x)(q,m)}$  = an unweighted collection period estimate of the mean expenditure by CUs in subpopulation *S* on item *x* over a period of *q* months, where data collected over *m* months of interviews are used.

or

$${}_{UK} \bar{X}_{(S,x)(q,m)} = \left( \frac{{}_{UK} X_{(S,x)(q,m)}}{\sum_{i=1}^m \left( \sum_{j=1}^k S_j \right)_i} \right) \left( \frac{m}{3} \right)$$

An estimate of an unweighted mean expenditure for a calendar period can be expressed as:

${}_{UC} \bar{X}_{(S,x)(q,r)}$  = an unweighted calendar period estimate of the mean expenditure by CUs in subpopulation S on item x over a period of  $q$  months, where expenditures made over  $r$  months are used.

or

$${}_{UC} \bar{X}_{(S,x)(q,r)} = \left( \frac{{}_{UC} X_{(S,x)(q,r)}}{\sum_{t=1}^{r+3} \left( \frac{MSC \sum_{j=1}^k S_j}{r} \right)_t} \right)$$

Note: For  $t=1$ , MO\_SCOPE ( $MSC$ ) = 0, since CUs interviewed in the first month for which the estimate is to be generated report expenditures outside the estimate period, i.e., in the previous quarter, month, etc. For  $t = (r+3)$ , MO\_SCOPE = 1 since only 1 month's worth of expenditures have a chance to contribute to the calendar period of  $r$  months.

### 3. AGGREGATE EXPENDITURE ESTIMATES (WEIGHTED)

An estimate of weighted aggregate expenditures for a collection period can be expressed as:

${}_{WK} X_{(S,x)(q,m)}$  = a weighted collection ( $WK$ ) period estimate of aggregate expenditures by CUs in subpopulation S on item x over a period of  $q$  months, where data collected over  $m$  months of interviews are used.

or

$${}_{WK} X_{(S,x)(q,m)} = \left( \frac{q}{m} \right) \sum_{i=1}^m \left( \sum_{j=1}^k (W_{j,F21} E_{x,j}) \right)_i$$

An estimate of weighted aggregate expenditures for a calendar period can be expressed as:

${}_{WC} X_{(S,x)(q,r)}$  = a weighted calendar ( $WC$ ) period estimate of aggregate expenditures by CUs in subpopulation S on item x over  $q$  months, where expenditures made over  $r$  months are used.

or

$${}_{WC} X_{(S,x)(q,r)} = \left( \frac{q}{r} \right) \sum_{t=1}^r \left( \sum_{j=1}^k (W_{j,F21} E_{x,j}) \right)_t$$

#### 4. SAMPLE MEAN EXPENDITURE ESTIMATES (WEIGHTED)

An estimate of a weighted mean expenditure for a collection period can be expressed as:

${}^{WK}\bar{X}_{(S,x)(q,m)}$  = a weighted collection (*WK*) period estimate of the mean expenditure by CUs in subpopulation *S* on item *x* over a period of *q* months, where data collected over *m* months of interviews are used.

or

$${}^{WK}\bar{X}_{(S,x)(q,m)} = \left( \frac{{}^{WK}X_{(S,x)(q,m)}}{\sum_{i=1}^m \left( \sum_{j=1}^k W_{j,F21} \right)_i} \right) \left( \frac{m}{3} \right)$$

An estimate of a weighted mean expenditure for a calendar period can be expressed as:

${}^{WC}\bar{X}_{(S,x)(q,r)}$  = a weighted calendar (*WC*) period estimate of the mean expenditure by CUs in subpopulation *S* on item *x* over a period of *q* months, where expenditures made over *r* months are used.

or

$${}^{WC}\bar{X}_{(S,x)(q,r)} = \left( \frac{{}^{WC}X_{(S,x)(q,r)}}{\sum_{t=1}^{r+3} \left[ (MSC) \left( \sum_{j=1}^k W_{j,F21} \right) \right]_t} \right) r$$

Note: For  $t=1$ , *MO\_SCOPE* (*MSC*) = 0, since CUs interviewed in the first month for which the estimate is to be generated report expenditures outside the estimate period, i.e., in the previous quarter, month, etc. For  $t = (r+3)$ , *MO\_SCOPE* = 1 since only 1 month's worth of expenditures have a chance to contribute to the calendar period of *r* months.

## VI. RELIABILITY STATEMENT

### A. DESCRIPTION OF SAMPLING AND NONSAMPLING ERRORS

Sample surveys are subject to two types of errors, sampling and non-sampling. 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 enable 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 of 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 expenditures obtained in the Interview survey are generally lower than the "true" level due to the above factors.

## B. ESTIMATING SAMPLING ERROR

### 1. VARIANCE ESTIMATION

Variances can be estimated in many ways. The method illustrated below (a pseudo replication technique) is chosen because it is accurate and simple to understand. The basic idea is to construct several artificial "subsamples" from the original sample data such that the variance information of the original data is preserved in the subsamples. The subsamples (or pseudo replicates) can then be used to approximate variances for the estimates. Forty-four separate subsamples can be extracted from the data base using the replicate weight variables, WTREP01-WTREP44, associated with each CU. Note that only half of the CUs are assigned to each of the 44 replicates. The replicate weight variable contains a value greater than 0 for CUs assigned to that replicate. A value of missing is assigned to the weight variable for those CUs not included in a particular replicate.

The notation for the weighted collection period and calendar period estimates of aggregate expenditures in Section V.B.3 AGGREGATE EXPENDITURE ESTIMATES (WEIGHTED) does not explicitly identify the replicate as a variable because to calculate an aggregate (or mean) only FINLWT21 is used.

An estimate for the variance of an aggregate or mean estimate can be computed by generating 44 separate estimates using the 44 replicate weights and employing the standard formula for computing sample variance. To illustrate the estimation of variance, the notation must first be expanded to include the replicates explicitly.

Expenditure items will be referred to in these descriptions, but income items can be handled similarly except where otherwise stated.

Let the subscript "a" represent one of the 44 sets of replicate weights on the FMLY files. Following the earlier notation in Section V.B., we have.

$AK \sum_{(S,x)(q,m),a}$  = a collection period estimate of aggregate expenditures by CUs in subpopulation S on item x over a period of q months, using data collected over m months of interviews, calculated using the weights of the a<sup>th</sup> replicate

and,

${}_{AK} \bar{X}_{(S,x)(q,m),a}$  = a collection period estimate of the mean expenditure by CUs in subpopulation S on item x over a period of q months, using data collected over m months of interviews, calculated using the weights of the a<sup>th</sup> replicate

Note that an estimate using any one of the first 44 replicate weights uses only part of the expenditure data; in general:  ${}_{AK} X_{(S,x)(q,m),1}, \dots, {}_{AK} X_{(S,x)(q,m),44} \neq {}_{WK} X_{(S,x)(q,m)}$

Using standard variance formula, the variance of aggregate expenditures can be estimated as follows:

$$V\left({}_{WK} X_{(S,x)(q,m)}\right) = \frac{1}{44} \sum_{a=1}^{44} \left( {}_{AK} X_{(S,x)(q,m),a} - {}_{WK} X_{(S,x)(q,m)} \right)^2$$

Similarly, estimates for the variances of  ${}_{WK} \bar{X}_{(S,x)(q,m)}$  can be given as:

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

## 2. STANDARD ERROR OF THE MEAN

The standard error 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.  $S.E.(\bar{X})$  is defined as the square root of the variance of the mean. For example, the weighted calendar period estimated mean expenditure for total food by all consumer units in 2009 is \$6936.34. The standard error for this estimate is \$62.20. A 95 percent confidence interval can be constructed around this estimate, bounded by values 1.96 times the standard error less than and greater than the estimate, that is, from \$6,814.43 to \$7,058.25. We could conclude with 95 percent confidence that the true population mean expenditure for food for all consumer units in 2009 lies within the interval \$6814.43 to \$7,058.25.

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

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

For example, the 2009 mean expenditure estimate for apparel and services for CUs in the \$40,000 to \$49,999 income range is \$853.18 and the estimate for CUs in the \$50,000 to \$59,999 income range is \$1034.99. The apparent difference between the two mean expenditures is \$181.81. The standard error on the estimate of \$853.18 is \$39.70 and the estimated standard error for \$1034.99 is \$32.35.

The standard error of a difference is approximately equal to

$$S.E.({}_{WK} \bar{X}_1, {}_{WK} \bar{X}_2) = \sqrt{V({}_{WK} \bar{X}_1) + V({}_{WK} \bar{X}_2)} \quad (1)$$

where

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



This assumes the two sample means,  ${}_{WC}\bar{X}_1$  and  ${}_{WC}\bar{X}_2$ , are disjoint subsets of the population. Hence the standard error of the difference in apparel and services expenditures between these two income groups of complete income reporters is about

$$\sqrt{((39.70)^2 + (32.35)^2)} = 51.21 \quad (2)$$

This means that the 95 percent confidence interval around the difference is from \$81.44 to \$282.18. Since this interval does not include zero, we can conclude with 95 percent confidence that the mean apparel and services expenditures for CUs in the \$50,000 to \$59,999 income range is different than the mean apparel and services expenditures for CUs in the \$40,000 to \$49,999 income range.

Analyses of the difference between two estimates can also be performed on non-disjoint sets of population, where one is a subset of the other. The formula for computing the standard error of the difference between two non-disjoint estimates is

$$S.E.({}_w\bar{X}_1, {}_w\bar{X}_2) = \sqrt{(V({}_w\bar{X}_1) + V({}_w\bar{X}_2) - 2r(V({}_w\bar{X}_1) * V({}_w\bar{X}_2)))} \quad (3)$$

where

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

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

## VII. MICRODATA VERIFICATION AND ESTIMATION METHODOLOGY

This section is designed to help users become familiar with the microdata files. The following program gives users a benchmark to verify that their copy of the CD-ROM contains valid data, illustrates the methodology CE uses in producing publication tables, and offers 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 data sets available on the SAS CD-ROM. A program written in SAS but utilizing the ASCII data sets 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.F. DETAILED VARIABLE DESCRIPTIONS in this documentation.

This program produces a table of selected expenditures by income class of the CU. The first section of the program extracts the relevant variables from the FMLY files, while the second section extracts the expenditure and income data from the MTAB, ITAB and ITBI files. These three data sets are then used along with the ISTUB 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.

## A. SAMPLE PROGRAM

380	/******	
381	/* PROGRAM NAME: CEX INTERVIEW SURVEY SAMPLE PROGRAM (SAS)	*/
382	/* LOCATION: D:\PROGRAMS	*/
383	/* FUNCTION: CREATE AN INTERVIEW SURVEY EXPENDITURE TABLE BY INCOME CLASS	*/
384	/* USING MICRODATA FROM THE BUREAU OF LABOR STATISTIC'S CONSUMER	*/
385	/* EXPENDITURE SURVEY.	*/
386	/*	*/
387	/* WRITTEN BY: ERIC KEIL	*/
388	/* MODIFICATIONS:	*/
389	/* DATE- MODIFIED BY- REASON-	*/
390	/* -----	*/
391	/* 03/21/02 ERIC KEIL IMPROVE EFFICIENCY	*/
392	/* 10/22/03 ERIC KEIL UPDATE FOR 2002 DATA	*/
393	/* 11/20/03 ERIC KEIL INCLUDE ROUTINE TO AGGREGATE EASIER	*/
394	/*	*/
395	/* FOR SAS VERSION 8 OR HIGHER	*/
396	/*	*/
397	/*	*/
398	/* DATA AND INPUT FILES USED IN THIS SAMPLE PROGRAM WERE UNZIPPED	*/
399	/* OR COPIED TO THE LOCATIONS BELOW:	*/
400	/*	*/
401	/* INTRVW DATA -- C:\2009_CEX\INTRVW09	*/
402	/* ISTUB2009.TXT -- C:\2009_CEX\Programs	*/
403	/*	*/
404	/******	
405		
406	/*Enter Data Year*/	
407	%LET YEAR = 2009;	
408	/*Enter location of the unzipped microdata file*/	
409	%LET DRIVE = C:\2009_CEX;	
410		
411		
412	/******	
413	/* STEP1: READ IN THE STUB PARAMETER FILE AND CREATE FORMATS	*/
414	/* -----	*/
415	/* 1 CONVERTS THE STUB PARAMETER FILE INTO A LABEL FILE FOR OUTPUT	*/
416	/* 2 CONVERTS THE STUB PARAMETER FILE INTO AN EXPENDITURE AGGREGATION FILE	*/
417	/* 3 CREATES FORMATS FOR USE IN OTHER PROCEDURES	*/
418	/******	
419		
420		
421	%LET YR1 = %SUBSTR(&YEAR,3,2);	
422	%LET YR2 = %SUBSTR(%EVAL(&YEAR+1),3,2);	
423		
424	LIBNAME I&YR1 "&DRIVE\INTRVW&YR1";	
NOTE:	Libref I09 was successfully assigned as follows:	
	Engine: V9	
	Physical Name: C:\2009_CEX\INTRVW09	
425		
426		
427	DATA STUBFILE (KEEP= COUNT TYPE LEVEL TITLE UCC SURVEY GROUP LINE);	
428	INFILE "&DRIVE\PROGRAMS\ISTUB&YEAR..TXT"	
429	PAD MISSEVER;	
430	INPUT @1 TYPE \$1. @ 4 LEVEL \$1. @7 TITLE \$CHAR60. @70 UCC \$6.	
		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

<pre> 431      @80 SURVEY \$1. @86 GROUP \$7.; 432      IF (TYPE = '1'); 433      IF GROUP IN ('CUCHARS' 'FOOD' 'EXPEND' 'INCOME'); 434      IF SURVEY = 'T' THEN DELETE; 435 436      RETAIN COUNT 9999; 437      COUNT + 1; 438      LINE = PUT(COUNT, \$5.)  LEVEL ; WARNING: Variable COUNT has already been defined as numeric. 439      /* READS IN THE STUB PARAMETER FILE AND CREATES LINE NUMBERS FOR UCCS */ 440      /* A UNIQUE LINE NUMBER IS ASSIGNED TO EACH EXPENDITURE LINE ITEM      */ 441      RUN;  NOTE: The infile "C:\2009_CEX\PROGRAMS\ISTUB2009.TXT" is:       File Name=C:\2009_CEX\PROGRAMS\ISTUB2009.TXT,       RECFM=V,LRECL=256  NOTE: 1233 records were read from the infile "C:\2009_CEX\PROGRAMS\ISTUB2009.TXT".       The minimum record length was 91.       The maximum record length was 95. NOTE: The data set WORK.STUBFILE has 695 observations and 8 variables. NOTE: DATA statement used (Total process time):       real time          0.32 seconds       cpu time           0.04 seconds  442 443 444      DATA AGGFMT1 (KEEP= UCC LINE LINE1-LINE10); 445      SET STUBFILE; 446      LENGTH LINE1-LINE10 \$6.; 447      ARRAY LINES(9) LINE1-LINE9; 448      IF (UCC &gt; 'A') THEN 449          LINES(SUBSTR(LINE,6,1)) = LINE; 450      RETAIN LINE1-LINE9; 451      IF (UCC &lt; 'A') THEN 452          LINE10 = LINE; 453      IF (LINE10); 454      /* MAPS LINE NUMBERS TO UCCS */ 455      RUN;  NOTE: Character values have been converted to numeric values at the places given by:       (Line):(Column).       449:15  453:7 NOTE: There were 695 observations read from the data set WORK.STUBFILE. NOTE: The data set WORK.AGGFMT1 has 570 observations and 12 variables. NOTE: DATA statement used (Total process time):       real time          0.21 seconds       cpu time           0.01 seconds  456 457 458      PROC SORT DATA= AGGFMT1 (RENAME=(LINE= COMPARE)); 459      BY UCC; 460      RUN; </pre>	<p>modified to accommodate any customized aggregation scheme.</p> <p>One needs only to make sure that the column start positions in the file match the start positions in the input statement.</p> <p>Subsequent program steps manipulate the aggregation stub file into a dataset that associates UCCs with line numbers.</p>
---	--

```

NOTE: There were 570 observations read from the data set WORK.AGGFMT1.
NOTE: The data set WORK.AGGFMT1 has 570 observations and 12 variables.
NOTE: PROCEDURE SORT used (Total process time):
      real time          0.15 seconds
      cpu time           0.00 seconds

461
462
463 PROC TRANSPOSE DATA= AGGFMT1 OUT= AGGFMT2 (RENAME=(COL1= LINE));
464   BY UCC COMPARE;
465   VAR LINE1-LINE10;
466 RUN;

NOTE: There were 570 observations read from the data set WORK.AGGFMT1.
NOTE: The data set WORK.AGGFMT2 has 5700 observations and 4 variables.
NOTE: PROCEDURE TRANSPOSE used (Total process time):
      real time          0.23 seconds
      cpu time           0.01 seconds

467
468
469 DATA AGGFMT (KEEP= UCC LINE);
470   SET AGGFMT2;
471   IF LINE;
472   IF SUBSTR(COMPARE,6,1) > SUBSTR(LINE,6,1) OR COMPARE=LINE;
473   /* AGGREGATION FILE. EXTRANEIOUS MAPPINGS ARE DELETED          */
474   /* PROC SQL WILL AGGANGE LINE#/UCC PAIRS FOR USE IN PROC FORMAT */
475 RUN;

NOTE: Character values have been converted to numeric values at the places given by:
(Line):(Column).
      471:8
NOTE: There were 5700 observations read from the data set WORK.AGGFMT2.
NOTE: The data set WORK.AGGFMT has 2667 observations and 2 variables.
NOTE: DATA statement used (Total process time):
      real time          0.15 seconds
      cpu time           0.03 seconds

476
477
478 PROC SQL NOPRINT;
479   SELECT UCC, LINE, COUNT(*)
480   INTO   :UCCS SEPARATED BY " ",
481         :LINES SEPARATED BY " ",
482         :CNT
483   FROM AGGFMT;
NOTE: The query requires remerging summary statistics back with the original data.
484   QUIT;
NOTE: PROCEDURE SQL used (Total process time):
      real time          0.20 seconds
      cpu time           0.03 seconds

485 RUN;

```

<pre> 486 487 488 %MACRO MAPPING; 489     %DO I = 1 %TO &amp;CNT; 490         "%SCAN(&amp;UCCS,&amp;I,%STR( ))" = "%SCAN(&amp;LINES,&amp;I,%STR( ))" 491     %END; 492 %MEND MAPPING; 493 494 495 DATA LBLFMT (RENAME=(LINE= START TITLE= LABEL)); 496     SET STUBFILE (KEEP= LINE TITLE); 497     RETAIN FMTNAME 'LBLFMT' TYPE 'C'; 498     /* LABEL FILE. LINE NUMBERS ARE ASSIGNED A TEXT LABEL */ 499     /* DATASET CONSTRUCTED TO BE READ INTO A PROC FORMAT */ 500 RUN;  NOTE: There were 695 observations read from the data set WORK.STUBFILE. NOTE: The data set WORK.LBLFMT has 695 observations and 4 variables. NOTE: DATA statement used (Total process time):       real time          0.09 seconds       cpu time           0.00 seconds  501 502 503 PROC FORMAT; 504 505     VALUE \$AGGFMT (MULTILABEL) 506         %MAPPING 507         OTHER= 'OTHER'; NOTE: Format \$AGGFMT is already on the library. NOTE: Format \$AGGFMT has been output. 508     /* CREATE AGGREGATION FORMAT */ 509 510 511     VALUE \$INC (MULTILABEL) 512         '01' = '01' 513         '01' = '10' 514         '02' = '02' 515         '02' = '10' 516         '03' = '03' 517         '03' = '10' 518         '04' = '04' 519         '04' = '10' 520         '05' = '05' 521         '05' = '10' 522         '06' = '06' 523         '06' = '10' 524         '07' = '07' 525         '07' = '10' 526         '08' = '08' 527         '08' = '10' 528         '09' = '09' 529         '09' = '10'; NOTE: Format \$INC is already on the library. NOTE: Format \$INC has been output. 530     /* CREATE INCOME CLASS FORMAT */ </pre>	<p>Creates a Dataset that can be used to associate titles with line numbers with a format procedure.</p> <p>Formats:</p> <p>Puts the aggregation scheme into a SAS format.</p> <p>Puts the income groupings into a SAS format.</p> <p>Note: The multilabel option is necessary in the aggregation format and income format since multiple mappings occur. This option is available in SAS V8 or higher.</p>
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<pre> 531 RUN;  NOTE: PROCEDURE FORMAT used (Total process time):       real time          15.57 seconds       cpu time           14.57 seconds  532 533 534 PROC FORMAT LIBRARY= WORK CNTLIN= LBLFMT; NOTE: Format \$LBLFMT is already on the library. NOTE: Format \$LBLFMT has been output. 535 /* CREATE LABEL FILE FORMATS */ 536 RUN;  NOTE: PROCEDURE FORMAT used (Total process time):       real time          0.06 seconds       cpu time           0.01 seconds  NOTE: There were 695 observations read from the data set WORK.LBLFMT.  537 538 539 /***** 540 /* STEP2: READ IN ALL NEEDED DATA FROM THE CD-ROM */ 541 /* ----- */ 542 /* 1 READ IN THE INTERVIEW FMLY FILES &amp; CREATE THE MO_SCOPE VARIABLE */ 543 /* 2 READ IN THE INTERVIEW MTAB AND ITAB FILES */ 544 /* 3 MERGE FMLY AND EXPENDITURE FILES TO DERIVE WEIGHTED EXPENDITURES */ 545 /***** 546 547 548 DATA FMLY (KEEP = NEWID INCLASS WTREP01-WTREP44 FINLWT21 REPWT1-REPWT45); 549 550 SET I&amp;YR1..FMLI&amp;YR1.1X (IN = FIRSTQTR) 551     I&amp;YR1..FMLI&amp;YR1.2 552     I&amp;YR1..FMLI&amp;YR1.3 553     I&amp;YR1..FMLI&amp;YR1.4 554     I&amp;YR1..FMLI&amp;YR2.1 (IN = LASTQTR); 555     BY NEWID; 556     /* READ IN FMLY FILE DATA */ 557 558     IF FIRSTQTR THEN 559         MO_SCOPE = (QINTRVMO - 1); 560     ELSE IF LASTQTR THEN 561         MO_SCOPE = (4 - QINTRVMO); 562     ELSE 563         MO_SCOPE = 3; 564     /* CREATE MONTH IN SCOPE VARIABLE (MO_SCOPE) */ 565 566     ARRAY REPS_A(45) WTREP01-WTREP44 FINLWT21; 567     ARRAY REPS_B(45) REPWT1-REPWT45; 568 569     DO i = 1 TO 45; 570         IF REPS_A(i) &gt; 0 THEN 571             REPS_B(i) = (REPS_A(i) * MO_SCOPE / 12); 572             ELSE REPS_B(i) = 0; </pre>	<p>Puts the titles into a SAS format for use in the final output.</p> <p>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.</p> <p>Lines 558-563 create the variable mo_scope. Mo_scope is used to calculate calendar year, as opposed to collection year, estimates. It is used in conjunction with weights to determine populations. NOTE: More information on mo_scope can be found in the ESTIMATION PROCEDURES section of this documentation.</p> <p>Lines 566-572 create weights that are mo_scope adjusted to account for sample rotation.</p>
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<pre> 573      END; 574      /* ADJUST WEIGHTS BY MO_SCOPE TO ACCOUNT FOR SAMPLE ROTATION */ 575  RUN;  NOTE: Character values have been converted to numeric values at the places given by: (Line):(Column).       559:19   561:23 NOTE: There were 6940 observations read from the data set I09.FMLI091X. NOTE: There were 6991 observations read from the data set I09.FMLI092. NOTE: There were 6994 observations read from the data set I09.FMLI093. NOTE: There were 7104 observations read from the data set I09.FMLI094. NOTE: There were 7198 observations read from the data set I09.FMLI101. NOTE: The data set WORK.FMLY has 35227 observations and 92 variables. NOTE: DATA statement used (Total process time):       real time          24.38 seconds       cpu time           3.00 seconds  576 577 578 579  DATA EXPEND (KEEP=NEWID UCC COST); 580 581      SET I&amp;YR1..MTBI&amp;YR1.1X 582          I&amp;YR1..MTBI&amp;YR1.2 583          I&amp;YR1..MTBI&amp;YR1.3 584          I&amp;YR1..MTBI&amp;YR1.4 585          I&amp;YR1..MTBI&amp;YR2.1 586 587          I&amp;YR1..ITBI&amp;YR1.1X (RENAME=(VALUE=COST)) 588          I&amp;YR1..ITBI&amp;YR1.2 (RENAME=(VALUE=COST)) 589          I&amp;YR1..ITBI&amp;YR1.3 (RENAME=(VALUE=COST)) 590          I&amp;YR1..ITBI&amp;YR1.4 (RENAME=(VALUE=COST)) 591          I&amp;YR1..ITBI&amp;YR2.1 (RENAME=(VALUE=COST)); 592  BY NEWID; 593 594  IF REFYR = "&amp;YEAR" OR REF_YR = "&amp;YEAR"; 595  IF UCC = '710110' THEN 596      COST = (COST * 4); 597  /* READ IN MTAB AND ITAB EXPENDITURE AND INCOME DATA */ 598  /* ADJUST UCC 710110 TO ANNUALIZE */ 599  RUN;  NOTE: There were 569990 observations read from the data set I09.MTBI091X. NOTE: There were 560836 observations read from the data set I09.MTBI092. NOTE: There were 570110 observations read from the data set I09.MTBI093. NOTE: There were 573383 observations read from the data set I09.MTBI094. NOTE: There were 598534 observations read from the data set I09.MTBI101. NOTE: There were 387501 observations read from the data set I09.ITBI091X. NOTE: There were 392274 observations read from the data set I09.ITBI092. NOTE: There were 392511 observations read from the data set I09.ITBI093. NOTE: There were 396261 observations read from the data set I09.ITBI094. NOTE: There were 402249 observations read from the data set I09.ITBI101. NOTE: The data set WORK.EXPEND has 3875252 observations and 3 variables. NOTE: DATA statement used (Total process time):       real time          37.09 seconds       cpu time           7.17 seconds </pre>	<p>Reads in all MTAB expenditure data and ITAB income data.</p> <p>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.</p> <p>Refyr and Ref_yr are the reference year of the expenditure. These are set such that any expenditure outside of the desired reference year is excluded.</p> <p>UCC 710110 must be adjusted because only one-fourth of all consumer units interviewed in a quarter are asked this question (those in the 5<sup>th</sup> interview).</p>
---	--



```

600
601
602
603 DATA PUBFILE (KEEP = NEWID INCLASS UCC RCOST1-RCOST45);
604     MERGE FMLY    (IN = INFAM)
605         EXPEND (IN = INEXP);
606     BY NEWID;
607     IF INEXP AND INFAM;
608
609     IF COST = . THEN
610         COST = 0;
611
612     ARRAY REPS_A(45) WTREP01-WTREP44 FINLWT21;
613     ARRAY REPS_B(45) RCOST1-RCOST45;
614
615     DO i = 1 TO 45;
616         IF REPS_A(i) > 0
617             THEN REPS_B(i) = (REPS_A(i) * COST);
618             ELSE REPS_B(i) = 0;
619     END;
620     /* MERGE FMLY FILE WEIGHTS AND CHARACTERISTICS WITH MTAB/ITAB COSTS */
621     /* MULTIPLY COSTS BY WEIGHTS TO DERIVE WEIGHTED COSTS */
622 RUN;

```

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

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

```

NOTE: There were 35227 observations read from the data set WORK.FMLY.
NOTE: There were 3875252 observations read from the data set WORK.EXPEND.
NOTE: The data set WORK.PUBFILE has 3875252 observations and 48 variables.
NOTE: DATA statement used (Total process time):
      real time          1:49.12
      cpu time           18.90 seconds

```

```

623
624
625 /*****
626 /* STEP3: CALCULATE POPULATIONS */
627 /* ----- */
628 /* 1 SUM ALL 45 WEIGHT VARIABLES TO DERIVE REPLICATE POPULATIONS */
629 /* 2 FORMAT FOR CORRECT COLUMN CLASSIFICATIONS */
630 /*****
631
632
633 PROC SUMMARY NWAY DATA=FMLY;
634     CLASS INCLASS / MLF;
635     VAR REPWT1-REPWT45;
636     FORMAT INCLASS $INC.;
637     OUTPUT OUT = POP (DROP = _TYPE_ _FREQ_) SUM = RPOP1-RPOP45;
638     /* SUMS WEIGHTS TO CREATE POPULATIONS PER REPLICATE */
639     /* FORMATS TO CORRECT COLUMN CLASSIFICATIONS */
640 RUN;

```

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.

```

NOTE: There were 35227 observations read from the data set WORK.FMLY.
NOTE: The data set WORK.POP has 10 observations and 46 variables.
NOTE: PROCEDURE SUMMARY used (Total process time):
      real time          4.47 seconds

```

<pre> cpu time          0.53 seconds  641 642 643 644 /***** 645 /* STEP4: CALCULATE WEIGHTED AGGREGATE EXPENDITURES */ 646 /* ----- */ 647 /* 1 SUM THE 45 REPLICATE WEIGHTED EXPENDITURES TO DERIVE AGGREGATES */ 648 /* 2 FORMAT FOR CORRECT COLUMN CLASSIFICATIONS AND AGGREGATION SCHEME */ 649 /***** 650 651 652 PROC SUMMARY NWAY DATA=PUBFILE SUMSIZE=MAX COMPLETETYPES; 653   CLASS UCC INCLASS / MLF; 654   VAR RCOST1-RCOST45; 655   FORMAT UCC \$AGGfmt. INCLASS \$INC.; 656   OUTPUT OUT=AGG (DROP= _TYPE_ _FREQ_  RENAME=(UCC=LINE)) 657   SUM = RCOST1-RCOST45; 658   /* SUMS WEIGHTED COSTS PER REPLICATE TO GET AGGREGATES */ 659   /* FORMATS INCOME TO CREATE COMPLETE REPORTING COLUMN */ 660   /* FORMATS EXPENDITURES TO CORRECT AGGREGATION SCHEME */ 661 RUN;  NOTE: There were 3875252 observations read from the data set WORK.PUBFILE. NOTE: The data set WORK.AGG has 6740 observations and 47 variables. NOTE: PROCEDURE SUMMARY used (Total process time):       real time          1:32.19       cpu time           49.71 seconds  662 663 664 665 /***** 666 /* STEP5: CALCULATE MEAN EXPENDITURES */ 667 /* ----- */ 668 /* 1 READ IN POPULATIONS AND LOAD INTO MEMORY USING A 2 DIMENSIONAL ARRAY */ 669 /* POPULATIONS ARE ASSOCIATED BY INCLASS(i), AND REPLICATE(j) */ 670 /* 2 READ IN AGGREGATE EXPENDITURES FROM AGG DATASET */ 671 /* CALCULATE MEANS BY DIVIDING AGGREGATES BY CORRECT SOURCE POPULATIONS */ 672 /* 4 CALCULATE STANDARD ERRORS USING REPLICATE FORMULA */ 673 /***** 674 675 676 DATA TAB1 (KEEP = LINE MEAN SE); 677 678 /* READS IN POP DATASET. _TEMPORARY_ LOADS POPULATIONS INTO SYSTEM MEMORY */ 679 ARRAY POP{01:10,45} _TEMPORARY_; 680 IF _N_ = 1 THEN DO i = 1 TO 10; 681   SET POP; 682   ARRAY REPS(45) RPOP1-RPOP45; 683   DO j = 1 TO 45; 684     POP{INCLASS,j} = REPS(j); 685   END; 686 END; </pre>	<p>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.</p> <p>This data step calculates means and standard errors:</p> <p>Lines 679-684 reads in the column populations and stores them into temporary memory. Populations in memory are associated with INCLASS(i), and REPLICATE(j).</p>
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<pre> 687 688 /* READS IN AGG DATASET AND CALCULATES MEANS BY DIVIDING BY POPULATIONS */ 689 SET AGG (KEEP = LINE INCLASS RCOST1-RCOST45); 690 ARRAY AGGS(45) RCOST1-RCOST45; 691 ARRAY AVGS(45) MEAN1-MEAN44 MEAN; 692 DO k = 1 TO 45; 693     IF AGGS(k) = . THEN AGGS(k) = 0; 694     AVGS(k) = AGGS(k) / POP{INCLASS,k}; 695 END; 696 697 /* CALCULATES STANDARD ERRORS USING REPLICATE FORMULA */ 698 ARRAY RMNS(44) MEAN1-MEAN44; 699 ARRAY DIFF(44) DIFF1-DIFF44; 700 DO n = 1 TO 44; 701     DIFF(n) = (RMNS(n) - MEAN)**2; 702 END; 703 SE = SQRT((1/44)*SUM(OF DIFF(*))); 704 RUN;  NOTE: Character values have been converted to numeric values at the places given by: (Line):(Column).       684:13      694:33 NOTE: There were 10 observations read from the data set WORK.POP. NOTE: There were 6740 observations read from the data set WORK.AGG. NOTE: The data set WORK.TAB1 has 6740 observations and 3 variables. NOTE: DATA statement used (Total process time):       real time          0.64 seconds       cpu time           0.10 seconds  705 706 707 708 /****** 709 /* STEP6: TABULATE EXPENDITURES */ 710 /* ----- */ 711 /* 1 ARRANGE DATA INTO TABULAR FORM */ 712 /* 2 SET OUT INTERVIEW POPULATIONS FOR POPULATION LINE ITEM */ 713 /* 3 INSERT POPULATION LINE INTO TABLE */ 714 /* 4 INSERT ZERO EXPENDITURE LINE ITEMS INTO TABLE FOR COMPLETENESS */ 715 /****** 716 717 718 PROC TRANSPOSE DATA=TAB1 OUT=TAB2 719     NAME = ESTIMATE PREFIX = INCLASS; 720     BY LINE; 721     VAR MEAN SE; 722 /*ARRANGE DATA INTO TABULAR FORM */ 723 RUN;  NOTE: There were 6740 observations read from the data set WORK.TAB1. NOTE: The data set WORK.TAB2 has 1348 observations and 12 variables. NOTE: PROCEDURE TRANSPOSE used (Total process time):       real time          0.63 seconds       cpu time           0.03 seconds </pre>	<p>Line 689 reads in the aggregated expenditures.</p> <p>Lines 690-694 calculates means by dividing the aggregate expenditures by the appropriate populations in memory as determined by INCLASS and REPLICATE.</p> <p>Lines 698-703 calculates standard errors using the replicate weight formula.</p> <p>Arranges output for tabulation. This will give a rough expenditure table.</p>
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<pre> 724 725 726 PROC TRANSPOSE DATA=POP (KEEP = RPOP45) OUT=CUS 727     NAME = LINE PREFIX = INCLASS; 728     VAR RPOP45; 729     /* SET ASIDE POPULATIONS FROM INTERVIEW */ 730 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 (Total process time):       real time          0.23 seconds       cpu time           0.01 seconds  731 732 733 DATA TAB3; 734     SET CUS TAB2; 735     IF LINE = 'RPOP45' THEN DO; 736         LINE = '100001'; 737         ESTIMATE = 'N'; 738     END; 739     /* INSERT POPULATION LINE ITEM INTO TABLE AND ASSIGN LINE NUMBER */ 740 RUN;  NOTE: There were 1 observations read from the data set WORK.CUS. NOTE: There were 1348 observations read from the data set WORK.TAB2. NOTE: The data set WORK.TAB3 has 1349 observations and 12 variables. NOTE: DATA statement used (Total process time):       real time          0.78 seconds       cpu time           0.01 seconds  741 742 743 DATA TAB; 744     MERGE TAB3 STUBFILE; 745     BY LINE; 746     IF LINE NE '100001' THEN DO; 747         IF SURVEY = 'S' THEN DELETE; 748     END; 749     ARRAY CNTRL(10) INCLASS1-INCLASS10; 750     DO i = 1 TO 10; 751         IF CNTRL(i) = . THEN CNTRL(i) = 0; 752         IF SUM(OF CNTRL(*)) = 0 THEN ESTIMATE = 'MEAN'; 753     END; 754 755     IF GROUP IN ('CUCHARS' 'INCOME') THEN DO; 756         IF LAG(LINE) = LINE THEN DELETE; 757     END; 758     /* MERGE STUBFILE BACK INTO TABLE TO INSERT EXPENDITURE LINES */ 759     /* THAT HAD ZERO EXPENDITURES FOR THE YEAR */ 760 RUN;  NOTE: There were 1349 observations read from the data set WORK.TAB3. NOTE: There were 695 observations read from the data set WORK.STUBFILE. </pre>	<p>All populations are put into dataset POP. A special dataset, CUS, is created specifically for inserting the full US population into the output.</p> <p>Population totals per income class are inserted into the output.</p> <p>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.</p>
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<p>NOTE: The data set WORK.TAB has 1290 observations and 20 variables.</p> <p>NOTE: DATA statement used (Total process time):</p> <pre> real time          2.01 seconds cpu time           0.07 seconds </pre> <pre> 761 762 763 PROC TABULATE DATA=TAB; 764   CLASS LINE / GROUPINTERNAL ORDER=DATA; 765   CLASS ESTIMATE; 766   VAR INCLASS1-INCLASS10; 767   FORMAT LINE \$LBLFMT.; 768 769   TABLE (LINE * ESTIMATE), (INCLASS10 INCLASS1 INCLASS2 INCLASS3 INCLASS4 770                               INCLASS5 INCLASS6 INCLASS7 INCLASS8 INCLASS9) 771   *SUM=' ' / RTS=25; 772   LABEL ESTIMATE=ESTIMATE LINE=LINE 773         INCLASS1='LESS THAN \$5,000' INCLASS2='\$5,000 TO \$9,999' 774         INCLASS3='\$10,000 TO \$14,999' INCLASS4='\$15,000 TO \$19,999' 775         INCLASS5='\$20,000 TO \$29,999' INCLASS6='\$30,000 TO \$39,999' 776         INCLASS7='\$40,000 TO \$49,999' INCLASS8='\$50,000 TO \$69,999' 777         INCLASS9='\$70,000 AND OVER' INCLASS10='ALL CONSUMER UNITS'; 778   OPTIONS NODATE NOCENTER NONUMBER LS=167 PS=MAX; 779   WHERE LINE NE 'OTHER'; 780   TITLE "INTERVIEW EXPENDITURES FOR &amp;YEAR BY INCOME BEFORE TAXES"; 781 RUN; </pre> <p>NOTE: There were 1288 observations read from the data set WORK.TAB.</p> <p>WHERE LINE not = 'OTHER';</p> <p>NOTE: PROCEDURE TABULATE used (Total process time):</p> <pre> real time          3.15 seconds cpu time           0.15 seconds </pre>	<p>Tabulate the data. Line numbers are formatted to give titles.</p>
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## B. OUTPUT

Sample program output is stored as a separate file in the Programs folder on the CD.

## VIII.DESCRPTION OF THE SURVEY

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

1) 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.

2) 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.

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 any CU member's identity.

The quarterly Interview survey is designed to collect data on major items of expense which respondents can be expected to recall for 3 months or longer. In practice, the Interview survey collects detailed data on an estimated 60 to 70 percent of total household expenditures. In addition, global estimates are obtained for food and other selected items. These global estimates account for an additional 20 to 25 percent of total expenditures. The Interview survey does not collect expenses for housekeeping supplies, personal care products, and nonprescription drugs, which contribute about 5 to 15 percent of total expenditures. Thus, up to 95 percent of total expenditures are covered in the Interview survey. Household characteristics, income, and financial data are also collected. At BLS, each quarter of data is processed independently from other quarters. Thus the annual estimates published by BLS are not dependent on the participation of a CU for the full five interviews.

The initial interview collects demographic and family characteristics data. These pertain to age, sex, race, marital status, education, and CU relationship for each CU member. This information is updated at each subsequent interview. Expenditures are for the month prior to the interview. They are used along with the inventory information solely for bounding purposes, that is, to prevent the reporting of expenditures from an indefinite past period. Expenditure data from the first interview are not on these files since they are not included in expenditure estimation.

The second through fifth interviews use uniform questionnaires to collect expenditure information from the previous three months. 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, are collected in the second and fifth interviews only.

Income data and employment information collected in the second interview are carried over to the third and fourth interviews. For new CU members and CU members who started work since the previous interview, wage, salary, and other information on employment are collected in the third and fourth interviews. In the fifth interview, a supplement is used to collect information on asset values and changes in balances of assets and liabilities. These data, along with other household characteristics information, permit users to classify sample units for research purposes and allow BLS to adjust population weights for CUs who do not cooperate in the survey.

Each quarter, 20 percent of the sample are new households introduced for the first time. They replace one-fifth of the sample that completed its final interview in the previous quarter. This rotating procedure with overlap is designed to provide more efficient data collection. CUs that move away from their sample address between interviews are dropped from the survey. New CUs that move into the sample address are screened for eligibility and included in the survey. Students living in college- or university-regulated housing report their own expenditures directly, while at school, rather than being considered part of their parents' household.

## **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. THE US CENSUS BUREAU ACTIVITIES**

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

All interviews are sent electronically to the U.S. Census Bureau headquarters in Suitland, MD, where they pass through basic quality checks of control counts, missing values, etc. Also, missing sections of questionnaires, and certain inconsistencies and errors are identified and corrected. The data are then electronically transmitted to BLS in Washington, DC.

An input file is created by the U.S. Census Bureau when the data are electronically sent to BLS. The input file is used in the next quarter's interview to prevent the recording of duplicate reports by respondents. The input file also contains data collected in the first interview about owned property, vehicles, and insurance policies. Because the input file contains this data, only updates and new records are collected about owned property, vehicles, and insurance policies in the second through fifth interviews.

## **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 eliminate business and reimbursed expenses, apply appropriate sales taxes, and derive CU weights based on BLS specifications. In addition, demographic and work experience items (except income) are imputed when missing or invalid. All data changes and imputations are identified with flags on the Interview data base.

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

Cases of extreme data values are investigated. Any errors discovered are corrected prior to release of the data.

Two major types of data adjustment routines--imputation and allocation--are carried out to classify expenditures and improve estimates. Data imputation routines correct for missing or invalid entries. All fields except assets are subject to imputation. Allocation routines are applied when respondents provide 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. While not strictly an allocation routine, another adjustment separates mortgage and vehicle loan payments into principal and interest components using associated data on the interest rate and term of the loan. Another adjustment is done to prepare the data for the production of calendar year estimates. Time adjustment routines are used to classify expenditures by month. Aggregation can then be done at a monthly level, permitting the production of monthly, quarterly, annual, and other interval estimates. To analyze the effects of these adjustments, tabulations are made before and after the data adjustments. At this point, processing activities are completed and the database is ready for use.

## **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 non-institutional 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 2009 and 2010 samples is composed of 91 areas. The design classifies the PSUs into four categories:

- 21 "A" certainty PSUs are Metropolitan Statistical Areas (MSA's) with a population greater than 1.5 million.
- 38 "X" PSUs, are medium-sized MSA's.
- 16 "Y" PSUs are nonmetropolitan areas that are included in the CPI.
- 16 "Z" 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 2009 survey is generated from the 2000 Census of Population 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. Interviewers are then assigned to list these areas before a sample is drawn.

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.

The Interview Survey is a panel rotation survey. Each panel is interviewed for five consecutive quarters and then dropped from the survey. As one panel leaves the survey, a new panel is introduced. Approximately 20 percent of the addresses are new to the survey each month.

## B. COOPERATION LEVELS

The quarterly target sample size at the United States level for the Interview Survey is 7,060 participating sample units. To achieve this target the total estimated work load is 11,500 sample units per quarter. This allows for refusals, vacancies, or nonexistent sample unit addresses. Information on interview annual participation levels for the past five years follows.

Year	Consumer units designated for the survey	Type B or C ineligible cases	<i>Eligible housing unit interviews</i>			Response Rate for Eligible Interviews
			Number of potential interviews	Type A nonresponse	Total respondent interviews	
2005	49,242	9,254	39,988	10,184	29,804	74.5%
2006	46,789	9,080	37,709	8,842	28,867	76.6%
2007	45,996	8,980	37,016	9,681	27,335	73.8%
2008	46,546	9,244	37,302	9,757	27,545	73.8%
2009	46,846	9,223	37,623	9,594	28,029	74.5%

Type B or C cases are housing units that are vacant, nonexistent, or ineligible for interview. Type A nonresponses are housing units that 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 an interview is obtained. There are four 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 interview if sub-sampling is performed in the field.
- 3) A non-interview 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 the CU as a whole. The weight for the CU is adjusted for individuals within the CU to meet the controls for 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 CUs who own their living quarters. The weighting procedure uses an iterative process to ensure that the sample estimates meet all the population controls.

NOTE: The weight for a consumer unit (CU) can be different for each quarter 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 CU 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 CUs 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.

## **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 CUs and the average of those purchasing. (See Section V.A.2.b.ii. for MEANS OF THOSE REPORTING.) 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 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 lower utility expenses. Employers or insurance companies frequently pay other costs. CU 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 non-institutional 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's) 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 MSA. The general concept of an MSA is one of a large population nucleus together with adjacent communities that 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 and Supplemental Security income, unemployment compensation, workmen'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 taxes, and other taxes.

### Geographic regions

CUs are classified by region according to the address at which they reside during the time of 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. Medical care UCCs have negative values if they are reimbursements. Reduction in loan principal UCCs are all negative for programming convenience. However, they are considered positive expenditures in CE publications.

Underlined UCCs represent either a new UCC or a deleted UCC. Please note that new UCCs may not be represented in all quarters. The quarter in which the addition (deletion) occurs is denoted by a leading superscript directly prior to the UCC code. For example, <sup>N(D)Y091</sup>(UCC) identifies a new (deleted) UCC beginning in Q091.

### **A. EXPENDITURE UCCS ON MTAB FILE**

002120	Other non-health insurance
006001	Total amount owed to creditors, 2nd interview
006002	Total amount owed to creditors, 5th interview
*L 006003	Total amount owed to creditors, 2nd interview, asked first quarter, current year (2009)
*L 006004	Total amount owed to creditors, 5th interview, asked first quarter, current year (2009)
006005	Total amount owed to creditors, 2nd interview, asked first quarter, current year + 1 (2010)
006006	Total amount owed to creditors, 5th interview, asked first quarter, current year +1 (2010)
190901	Food or board at school
190902	Food and beverages for catered affairs (now only includes food and beverages)
190903	Food and non-alcoholic beverages at restaurants, cafes, fast food places on trips
190904	Food and beverages purchased and prepared by CU on trips
200900	Alcoholic beverages at restaurants, cafes, bars on trips
210110	Rent of dwelling
210210	Lodging away from home on trips
210310	Housing for someone at school
210901	Ground rent - owned home
210902	Ground rent - owned vacation home
220121	Homeowners insurance - owned home including fire and extended coverage; management fees for property insurance in coops (non-vacation)
220122	Same as 220121 - owned vacation home, vacation coops
220311	Mortgage interest - owned home; portion of management fees for repayment of loans in coops (non-vacation)
220211	Property taxes - owned home; management fees for property taxes in coops (non- vacation)
220212	Same as 220211 - owned vacation home, vacation coops
220312	Same as 220311 - owned vacation home; vacation coops
220313	Interest on home equity loan - owned home
220314	Interest on home equity loan - owned vacation home
220512	Cost of supplies purchased for jobs considered addition, alteration, or new construction incl. dwellings and additions being built, finishing basement or attic, remodeling rooms, landscaping, building outdoor patios, driveways, or permanent swimming pools, and

insulation - owned home

220513 Same as 220512 - owned vacation home

220611 Contractors' labor and material costs, and cost of supplies rented for jobs considered addition, alteration, or new construction (see 220512) - owned home; management fees for capital improvements in condos and coops (non-vacation)

220612 Built-in dishwasher, garbage disposal, or range hood for jobs considered addition, alteration, or new construction - owned home and vacation home

220615 Same as 220611 - owned vacation home; vacation condos and coops

220616 Installed and non-installed original wall to wall carpeting for owned homes

220901 Parking at owned home; management fees for parking in condos and coops (non-vacation)

220902 Parking at owned vacation home, vacation condos and coops

230112 Contractors labor and material costs, and cost of supplies rented for inside and outside painting and papering for jobs considered replacement or maintenance/repair - owned home; management fees for similar jobs in condos and coops (non-vacation)

230113 Same as 230112 for plumbing or water heating installations and repairs

230114 Same as 230112 for electrical work and heating or air - conditioning jobs (incl. service contracts)

230115 Same as 230112 for roofing, gutters, or downspouts

230117 Built-in dishwasher, garbage disposal, or range hood for jobs considered replacement or maintenance/repair - renter

230118 Same as 230117 - owned home

230121 Contractors' labor and material costs, and cost of supplies rented for repair or replacement of hard surfaced flooring - renter

230122 Contractors' labor and material costs, and cost of supplies rented for repair or replacement of hard surfaced flooring for jobs considered replacement or maintenance/repair- owned home; management fees for similar jobs in condos and coops (non-vacation)

230123 Same as 230122 - owned vacation home; vacation condos and coops

230133 Installed and non-installed replacement wall to wall carpeting for owned homes

230134 Installed and non-installed original wall to wall carpeting for rental homes

230141 Service contract charges and cost of maintenance or repair for built-in dishwasher, garbage disposal, or range hood - renter

230150 Repair or maintenance services (renter)

230151 Other repair or maintenance services (owned)

230152 Repair and remodeling services (owned vacation)

230142 Same as 230141 - owned home and vacation home

230901 Property management fees - owned home; condos and coops (non-vacation)

230902 Same as 230901 - owned vacation home; vacation condos and coops

240111 Cost of paint, wallpaper, and supplies purchased for inside and outside painting and papering - renter

240112 Same as 240111 - for jobs considered replacement or maintenance/repair - owned home

240113 Same as 240112 - owned vacation home

240121 Cost of equipment purchased for inside and outside painting and papering - renter

240122 Same as 240121 - for jobs considered replacement or maintenance/repair - owned home

240123 Same as 240122 - owned vacation home

240211 Cost of supplies purchased for plastering, paneling, roofing and gutters, siding, windows, screens, doors, awnings; portion of cost of supplies purchased for patios, walks, fences, driveways, swimming pools - renter

240212 Cost of supplies purchased for plastering, paneling, siding, windows, screens, doors, awnings for jobs considered replacement or maintenance/repair; portion of cost of supplies purchased for patios, walks, fences, driveways, swimming pools for jobs considered replacement or maintenance/repair - owned home

240213 Cost of supplies purchased for roofing, gutters, or downspouts for jobs considered replacement or maintenance/repair - owned home

240214 Same as 240212-240213 - owned vacation home

240221 Cost of supplies purchased for masonry, brick or stucco work; portion of cost of supplies purchased for patios, walks, fences, driveways, swimming pools - renter  
 240222 Same as 240221 for jobs considered replacement or maintenance/repair - owned home  
 240223 Same as 240222 - owned vacation home  
 240311 Cost of supplies purchased for plumbing or water heating installations and repairs - renter  
 240312 Same as 240311 for jobs considered replacement or maintenance/repair - owned home  
 240313 Same as 240312 - owned vacation home  
 240321 Cost of supplies purchased for electrical work, heating or air conditioning jobs - renter  
 240322 Same as 240321 for jobs considered replacement or maintenance/repair - owned home  
 240323 Same as 240322 - owned vacation home  
 250111 Fuel oil - renter  
 250112 Fuel oil - owned home; portion of management fees for utilities in condos and coops (non vacation)  
 250113 Same as 250112 - owned vacation home; vacation condos and coops  
 250114 Fuel oil - rented vacation property  
 250211 Gas, bottled or tank - renter  
 250212 Gas, bottled or tank - owned home  
 250213 Gas, bottled or tank - owned vacation home  
 250214 Gas, bottled or tank - rented vacation property  
 250911 Other fuels – renter  
 250912 Other fuels – owned home  
 250913 Other fuels – owned vacation home  
 250914 Other fuels – rented vacation property  
 260111 Electricity – renter  
 260112 Electricity – owned home; portion of management fees for utilities in condos and coops (non-vacation)  
 260113 Same as 260112 – owned vacation home; vacation condos and coops  
 260114 Electricity – rented vacation property  
 260211 Natural or utility gas – renter  
 260212 Natural or utility gas – owned home; portion of management fees for utilities in condos and coops (non-vacation)  
 260213 Same as 260212 – owned vacation home; vacation condos and coops  
 260214 Natural or utility gas – rented vacation property  
 270101 Residential telephone or pay phones  
 270102 Cellular phone service  
 270104 Phone cards  
 270105 Voice over IP telephone service  
 270211 Water and sewerage maintenance – renter  
 270212 Water and sewerage maintenance – owned home; portion of management fees for utilities in condos and coops (non-vacation)  
 270213 Same as 270212 – owned vacation home; vacation condos and coops  
 270214 Water and sewerage maintenance – rented vacation property  
 270310 Cable, satellite, or community antenna service  
 270311 Satellite radio service  
 270411 Trash and garbage collection – renter  
 270412 Trash and garbage collection – owned home; management fees for trash collection in condos and coops (non-vacation)  
 270413 Same as 270412 – owned vacation home; vacation condos and coops  
 270414 Trash and garbage collection – rented vacation property  
 270901 Septic tank cleaning – renter  
 270902 Septic tank cleaning – owned home  
 270903 Septic tank cleaning – owned vacation home  
 270904 Septic tank cleaning – rented vacation property  
 280110 Bathroom linens  
 280120 Bedroom linens

280130 Kitchen and dining room linens  
 280210 Curtains and drapes  
 280220 Slipcovers, decorative pillows, and cushions  
 280230 Sewing materials for slipcovers, curtains, and other home handiwork  
 280900 Other linens  
 290110 Mattresses and springs  
 290120 Other bedroom furniture  
 290210 Sofas  
 290310 Living room chairs  
 290320 Living room tables  
 290410 All kitchen and dining room furniture  
 290420 Infants' furniture  
 290430 Patio, porch, or outdoor furniture  
 290440 Modular wall units, shelves or cabinets; other living room, family or recreation room furniture including desks  
 300111 Purchase and installation of refrigerator or home freezer – renter  
 300112 Purchase and installation of refrigerator or home freezer – homeowner  
 300211 Purchase and installation of clothes washer – renter  
 300212 Purchase and installation of clothes washer – homeowner  
 300221 Purchase and installation of clothes dryer – renter  
 300222 Purchase and installation of clothes dryer – homeowner  
 300311 Purchase and installation of cooking stove, range or oven, excl. microwave – renter  
 300312 Purchase and installation of cooking stove, range or oven, excl. microwave – homeowner  
 300321 Purchase and installation of microwave oven – renter  
 300322 Purchase and installation of microwave oven – homeowner  
 300331 Purchase and installation of portable dishwasher – renter  
 300332 Purchase and installation of portable dishwasher – homeowner  
 300411 Window air conditioner – renter  
 300412 Window air conditioner – homeowner  
 310140 Televisions  
 310220 Video cassettes, tapes, and discs  
 310230 Video and computer game hardware and software  
 310240 Streaming or downloaded video files  
 310311 Radio  
 310313 Tape recorder and player  
 310314 Digital audio players  
 310320 Sound components, component systems, and compact disc sound systems  
 310333 Accessories and other sound equipment including phonographs  
 310334 Satellite dishes  
 310340 Records, CDs, audio tapes  
 310350 Streaming or downloaded audio files  
 320111 Carpet squares for owned and rented homes (Non-Permanent)  
 320120 Venetian blinds, window shades and other window coverings  
 320130 Infants' equipment  
 320150 Barbeque grills and outdoor equipment  
 320162 Non-installed wall to wall carpeting (replacement) and carpet squares – homeowner  
 320163 Installed and non-installed replacement wall to wall carpeting for rental homes  
 320210 Clocks  
 320220 Lamps and other lighting fixtures  
 320232 Telephones and accessories  
 320233 Clocks and other household decorative items  
 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 Non-electric cookware  
 320410 Lawnmowing equipment and other yard machinery  
 320420 Power tools  
 320511 Electric floor cleaning equipment  
 320512 Sewing machines  
 320521 Small electrical kitchen appliances  
 320522 Portable heating and cooling equipment  
 320611 Cost of supplies purchased for insulation and other improvements/repairs; materials and supplies purchased not for any specific job – renter  
 320612 Cost of supplies purchased for insulation and other improvements/repairs for jobs considered replacement or maintenance/repair; materials and supplies purchased not for any specific job – owned home  
 320613 Cost of supplies purchased for insulation and other improvements/repairs for jobs considered replacement or maintenance/repair – owned vacation home  
 320621 Cost of supplies purchased for repair or replacement of hard surfaced flooring – renter  
 320622 Cost of supplies purchased for repair or replacement of hard surfaced flooring for jobs considered replacement or maintenance/repair – owned home  
 320623 Same as 320622 – owned vacation home  
 320631 Cost of supplies purchased for landscaping – renter  
 320632 Cost of supplies purchased for landscaping for jobs considered replacement or maintenance/repair – owned home  
 320633 Same as 320632 – owned vacation home  
 320901 Office furniture for home use  
 320902 Non-power tools  
 320903 Fresh flowers or potted plants  
 320904 Closet storage items  
 330511 Cost of materials purchased for termite and pest control for jobs considered replacement or maintenance/repair  
 340211 Babysitting or other child care in your own home  
 340212 Babysitting or other child care in someone else's home  
 340310 Housekeeping service, incl. management fees for maid service in condos  
 340410 Gardening and lawn care services, incl. management fees for lawn care in coops and condos  
 340420 Water softening service  
 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, excl. garbage disposal, range hood, and built-in dishwasher  
 340630 Furniture repair, refinishing, or reupholstering  
 340901 Rental or repair of equipment and other yard machinery, power and non-power tools  
 340902 Rental of televisions  
 340903 Miscellaneous home services and small repair jobs not already specified  
 340904 Rental of furniture  
 340905 Rental of VCR, radio, and sound equipment – see 310210, 310311-310330  
 340906 Care for invalids, convalescents, handicapped or elderly persons in the CU  
 340907 Rental and installation of household equipment – see 300111-300332  
 340908 Rental of office equipment for non-business use – see 320232, 690111, 690112, 690210-690230  
 340910 Adult day care centers  
 340911 Management fees for security, incl. guards and alarm systems in coops and condos (non-vacation)  
 340912 Management fees for security, incl. guards and alarm systems in coops and condos

(vacation)

340914 Services for termite/pest control maintenance

340915 Service fee expenditures for home security systems

350110 Renter's insurance

360110 Men's suits

360120 Men's sport coats

360210 Men's coats, jackets, and furs

360311 Men's underwear

360312 Men's hosiery

360320 Men's nightwear

360330 Men's accessories

360340 Men's sweaters and vests

360350 Men's swimsuits, warm-up or ski suits

360410 Men's shirts

360513 Men's pants and shorts

360901 Men's uniforms

360902 Men's other clothing, incl. costumes

370110 Boys' coats, jackets, and furs

370120 Boys' sweaters

370130 Boys' shirts

370211 Boys' underwear

370212 Boys' nightwear

370213 Boys' hosiery

370220 Boys' accessories

370311 Boys' suits, sport coats, and vests

370314 Boys' pants and shorts

370902 Boys' other clothing, incl. costumes

370903 Boys' uniforms

370904 Boys' swimsuits, warm-up or ski suits

380110 Women's coats, jackets, and furs

380210 Women's dresses

380311 Women's sport coats and tailored jackets

380312 Women's vests, sweaters, and sweater sets

380313 Women's shirts, tops, and blouses

380320 Women's skirts and culottes

380333 Women's pants and shorts

380340 Women's swimsuits, warm-up or ski suits

380410 Women's nightwear

380420 Women's undergarments

380430 Women's hosiery

380510 Women's suits

380901 Women's accessories

380902 Women's uniforms

380903 Women's other clothing, incl. costumes

390110 Girls' coats, jackets, and furs

390120 Girls' dresses and suits

390210 Girls' sport coats, tailored jackets, shirts, blouses, sweaters, sweater sets, and vests

390223 Girls' pants and shorts

390230 Girls' swimsuits, warm-up or ski suits

390310 Girls' undergarments and nightwear

390321 Girls' hosiery

390322 Girls' accessories

390901 Girls' uniforms

390902 Girls' other clothing, incl. costumes

400110 Men's footwear

400210 Boys' footwear



400220 Girls' footwear  
 400310 Women's footwear  
 410110 Infants' coats, jackets, and snowsuits  
 410120 Infants' dresses and other outerwear  
 410130 Infants' undergarments, incl. diapers  
 410140 Infants' sleeping garments  
 410901 Infants' accessories, hosiery, and footwear  
 420110 Sewing materials 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, and 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 outside the home  
 450110 New cars (net outlay)  
 450116 Trade-in allowance for new cars  
 450210 New trucks or vans (net outlay)  
 450216 Trade-in allowance for new trucks or vans  
 450220 New motorcycles, motor scooters, or mopeds (net outlay)  
 450226 Trade-in allowance for new motorcycles, motor scooters, or mopeds  
 450310 Basic lease charge (car lease)  
 450311 Charges other than basic lease, such as insurance or maintenance (car lease)  
 450312 Trade-in allowance (car lease)  
 450313 Cash down payment (car lease)  
 450314 Termination fee (car lease)  
 450410 Basic lease charge (truck/van lease)  
 450411 Charges other than basic lease, such as insurance or maintenance (truck/van lease)  
 450412 Trade-in allowance (truck/van lease)  
 450413 Cash down payment (truck/van lease)  
 450414 Termination fee (truck/van lease)  
 460110 Used cars (net outlay)  
 460116 Trade-in allowance for used cars  
 460901 Used trucks or vans (net outlay)  
 460902 Used motorcycles, motor scooters, or mopeds (net outlay)  
 460907 Trade-in allowance for used trucks or vans  
 460908 Trade-in allowance for used motorcycles, motor scooters, or mopeds  
 470111 Gasoline  
 470112 Diesel fuel  
 470113 Gasoline on out-of-town trips  
 470211 Motor oil  
 470212 Motor oil on out-of-town trips  
 470220 Coolant/antifreeze, brake & transmission fluids, additives, and radiator/cooling system protectant (not purchased with tune-up)  
 480110 Tires (new, used or recapped); replacement and mounting of tires, including tube replacement  
 480212 Vehicle products and services  
 480213 Vehicle parts, equipment, and accessories  
 480214 Vehicle audio equipment excluding labor  
 480215 Vehicle video equipment  
 490110 Body work, painting, repair and replacement of upholstery, vinyl/convertible top, and glass, installation of carpet

- 490211 Clutch and transmission repair
- 490212 Drive shaft and rear-end repair
- 490221 Brake work
- 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
- 490318 Repair tires and miscellaneous repair work, such as battery charge, wash, wax, repair and replacement of windshield wiper, wiper motor, heater, air conditioner, radio and antenna
- 490319 Vehicle air conditioner repair
- 490411 Exhaust system repair
- 490412 Electrical system repair
- 490413 Motor repair and replacement
- 490501 Vehicle accessories including labor
- 490900 Auto repair service policy
- 500110 Vehicle insurance
- 510110 Automobile finance charges
- 510901 Truck or van finance charges
- 510902 Motorcycle finance charges
- 520310 Driver's license
- 520410 Vehicle inspection
- 520511 Auto rental, excl. trips
- 520512 Auto rental on out-of-town trips
- 520521 Truck or van rental, excl. trips
- 520522 Truck or van rental on out-of-town trips
- 520531 Parking fees at garages, meters, and lots excl. fees that are costs of property ownership
- 520532 Parking fees on out-of-town trips
- 520541 Tolls or electronic toll passes
- 520542 Tolls on out-of-town trips
- 520550 Towing charges (excl. contracted or pre-paid)
- 520560 Global positioning services
- 520901 Docking and landing fees for boats and planes
- 520902 Motorcycle, motor scooter, or moped rental
- 520904 Rental of non camper-type trailer, such as for boat or cycle
- 520905 Same as 520902 – out-of-town trips
- 520907 Rental of boat or non camper-type trailer, such as for boat or cycle on out-of-town trips
- 530110 Airline fares on out-of-town trips
- 530210 Intercity bus fares on out-of-town trips
- 530311 Intracity mass transit fares
- 530312 Local transportation (excl. taxis) on out-of-town trips
- 530411 Taxi fares on out-of-town trips
- 530412 Taxi fares and limousine service (not on trips)
- 530510 Intercity train fares on out-of-town trips
- 530901 Ship fares on out-of-town trips
- 530902 Private school bus
- \*L 540000 Prescription drugs and medicines (net outlay)
- \*L 550110 Purchase of eye glasses or contact lenses, incl. kits and equipment, fittings, warranty expenses, and insurance (net outlay)
- \*L 550320 Purchase of medical or surgical equipment for general use, such as thermometers, needles/syringes, ice bags, heating pads, orthopedic appliances, and blood pressure kits (not including band aids, gauze, cotton rolls/balls) (net outlay)
- \*L 550330 Purchase of supportive or convalescent medical equipment, such as crutches, wheelchairs, braces, and ace bandages (net outlay)

- \*L 550340 Hearing aids (net outlay)
- \*L 560110 Physicians' services (net outlay)
- \*L 560210 Dental care (net outlay)
- \*L 560310 Eye exams, treatment or surgery (net outlay)
- \*L 560330 Lab tests and X-rays (net outlay)
- \*L 560400 Services by medical professionals other than physicians, nursing services, and  
therapeutic treatments (net outlay)
- 570111 Hospital room and services
- \*L 570220 Care in convalescent or nursing home (net outlay)
- \*L 570230 Other medical care service, such as blood donation, ambulance, emergency room, or  
outpatient hospital services (net outlay)
- 570240 Medical care in retirement community
- \*L 570901 Rental of medical or surgical equipment for general use (net outlay) – see 550320
- \*L 570903 Rental of supportive and convalescent equipment (net outlay) – see 550330
- 580111 Traditional fee for service health plan (not BC/BS)
- 580112 Traditional fee for service health plan (BC/BS)
- 580113 Preferred provider health plan (not BC/BS)
- 580114 Preferred provider health plan (BC/BS)
- 580311 Health maintenance organization (not BC/BS)
- 580312 Health maintenance organization (BC/BS)
- 580400 Long Term Care insurance
- 580901 Medicare payment
- 580903 Commercial Medicare supplement (not BC/BS)
- 580904 Commercial Medicare supplement (BC/BS)
- 580905 Other health insurance (not BC/BS)
- 580906 Other health insurance (BC/BS)
- 580907 Medicare Prescription Drug premium
- 590220 Books through book clubs
- 590230 Books not through book clubs
- 590310 Magazine or newspaper subscription
- 590410 Magazine or newspaper, single copy
- 600110 Outboard motor
- 600121 Boat without motor or non camper-type trailer, such as for boat or cycle (net outlay)
- 600122 Trailer-type or other attachable-type camper (net outlay)
- 600127 Trade in allowance for boat without motor or non camper-type trailer, such as for boat or  
cycle
- 600128 Trade-in allowance for trailer-type or other attachable-type camper
- 600132 Boat with motor (net outlay)
- 600138 Trade-in allowance for boat with motor
- 600141 Purchase of motor home
- 600142 Purchase of other vehicle
- 600143 Trade in allowance for motor home
- 600144 Trade in allowance, other vehicle
- 600210 Ping-Pong, pool tables, other similar recreation room items, general sports equipment,  
and health and exercise equipment
- 600310 Bicycles
- 600410 Camping equipment
- 600420 Hunting and fishing equipment
- 600430 Winter sports equipment
- 600901 Water sports equipment
- 600902 Other sports equipment
- 610110 Toys, games, arts, crafts, tricycles, and battery powered riders
- 610120 Playground equipment
- 610130 Musical instruments, supplies, and accessories (now includes pianos)
- 610210 Photographic film
- 610230 Photographic equipment

610320 Pets, pet supplies and medicine for pets  
 610900 Miscellaneous recreational expenses on out-of-town trips  
 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  
 620115 Membership fees for shopping clubs  
 620121 Fees for participant sports, such as golf, tennis, and bowling; management fees for recreational facilities, such as tennis courts and swimming pools in condos and coops  
 620122 Fees for participant sports on out-of-town trips  
 620211 Admission fees for entertainment activities, including movie, theater, concert, opera or other musical series (single admissions and season tickets)  
 620212 Entertainment expenses on out-of-town trips, including admissions to events, museums and tours  
 620221 Admission fees to sporting events (single admissions and season tickets)  
 620222 Admission fees to sporting events on out-of-town trips  
 620310 Fees for recreational lessons or other instructions  
 620320 Professional photography fees  
 620330 Film processing  
 620410 Pet services  
 620420 Veterinarian expenses for pets  
 620903 Miscellaneous entertainment services on out-of-town trips  
 620904 Rental and repair of musical instruments, supplies, and accessories (now includes pianos)  
 620905 Rental and repair of photographic equipment  
 620906 Rental of all boats and outboard motors  
 620908 Rental and repair of sports, recreation, and exercise equipment  
 620909 Rental of all campers on out-of-town trips  
 620912 Rental of video cassettes, tapes, and discs  
 620916 Rental of video or computer hardware or software  
 620919 Rental of other vehicles on out-of-town trips  
 620921 Rental of motor home  
 620922 Rental of other RV's  
 620926 Lotteries and pari-mutuel losses  
 620930 Online entertainment and games  
 630110 Cigarettes  
 630210 Cigars, pipe tobacco, and other tobacco products  
 640130 Wigs, hairpieces, or toupees  
 640420 Electric personal care appliances  
 650310 Personal care services for males and females, including haircuts  
 650900 Rental and repair of personal care appliances  
 660110 School books, supplies, and equipment for college  
 660210 Same as 660110 – elementary and high school  
 660310 Encyclopedia and other sets of reference books  
 660410 School books, supplies, and equipment for vocational or technical school  
 660900 Same as 660110 – day care center, nursery school, and other schools  
 660901 School books, supplies, and equipment for day care centers and nursery schools  
 660902 School books, supplies, and equipment for other schools  
 670110 Tuition for college  
 670210 Same as 670110 – elementary and high school  
 670310 Other expenses for day care centers and nursery schools, including tuition  
 670410 Tuition for vocational or technical school  
 670901 Same as 670110 – other schools  
 670902 Rentals of books and equipment, and other school-related expenses  
 N(Y092) 670903 Test preparation, tutoring services  
 680110 Legal fees, excluding real estate closing costs

680140 Funeral, burial or cremation expenses, including limousine and flowers  
 680210 Safe deposit boxes  
 680220 Charges for checking accounts and other banking services  
 680310 Live entertainment for catered affairs  
 680320 Rental of party supplies for catered affairs  
 680905 Vacation clubs  
 680901 Purchase and upkeep of cemetery lots or vaults  
 680902 Accounting fees  
 680904 Dating services  
 690111 Computers, computer systems, and related hardware for non-business use  
 690112 Computer software and accessories for non-business use  
 690113 Repair of computers, computer systems, and related equipment for non-business use  
 690114 Computer information services  
 690115 Personal digital assistants  
 690116 Internet services away from home  
 N(Y092) 690117 Portable memory  
 690210 Telephone answering devices  
 690230 Typewriters and other office machines for non-business use  
 690241 Purchases and rentals of smoke alarms and detectors – renter  
 690242 Same as 690241 – owned home  
 690243 Same as 690241 – owned vacation home  
 690244 Other household appliances – renter  
 690245 Same as 690244 – homeowner  
 690310 Installation for computers  
 690320 Installation for TVs  
 690330 Installation for satellite TV equipment  
 690350 Installation of other video or sound systems  
 690340 Installation of sound systems  
 700110 Life, endowment, annuities, and other insurance policies providing death benefits  
 710110 Finance charges, excluding mortgage and vehicles  
 790210 Total purchases at grocery stores  
 790240 Average food and non-alcoholic beverage expenses  
 790310 Beer and wine for home use  
 790320 Other alcoholic beverages for home use  
 790330 Beer, wine, and other alcohol for home use  
 790410 Dining out at restaurants, cafeterias, drive-ins, etc. (excluding alcoholic beverages)  
 790420 Alcoholic beverages at restaurants, cafeterias, drive-ins, etc.  
 790430 School meals for preschool and school age children  
 790600 Same as 220111, 1220121, 220211, 220311, 220313, 220321, 210901, 250111-260211, 270211-270904, incl. management fees for these services – other properties; contractors' labor and material costs, and cost of supplies rented for jobs considered replacement or maintenance/repair – other properties; cost of supplies purchased for jobs considered replacement or maintenance/repair, excl. dwellings and additions being built, and termite and pest control – other properties  
 790610 Contractors' labor and material costs, cost of supplies rented or purchased for jobs considered addition, alteration or new construction – other properties  
 790611 Same as 220612 – other properties  
 790620 Management fees for capital improvements – other properties  
 790630 Special assessments for services and capital improvements – other properties  
 790640 Same as 790620 for management, security, and parking – other properties  
 790690 Cost of supplies purchased for dwellings and additions being built, finishing basement or attic, remodeling rooms, building outdoor patios, driveways, or permanent swimming pools – jobs not yet started – renter  
 790710 Purchase price of property excluding cost of common areas – other properties  
 790730 Closing costs – other properties  
 \*L 790810 Selling price or trade-in value – other properties

790830 Total selling expenses – other properties  
 \*L 790910 Special or lump-sum mortgage payments – other properties  
 \*L 790920 Reduction of mortgage principal – other properties  
 790930 Original mortgage amount (mortgage obtained during current quarter's interview) – other properties  
 790940 Reduction of principal on lump sum home equity loan – other properties  
 790950 Original amount of lump sum home equity loan – other properties (loan obtained during current quarter's interview)  
 800111 Alimony expenditures  
 800121 Child support expenditures  
 800700 Meals received as pay  
 800710 Rent received as pay  
 800721 Market value of owned home  
 800804 Support for college students  
 800811 Gifts to non-CU members of stocks, bonds, mutual funds  
 800821 Cash contributions to charities, other organizations  
 800831 Cash contributions to churches or religious organizations  
 800841 Cash contributions to educational institutions  
 800851 Cash contributions to political organizations  
 800861 Other cash gifts  
 810101 Purchase price of property excluding cost of common areas – owned home  
 810102 Purchase price of property excluding cost of common areas – owned vacation home  
 810301 Closing costs – owned home  
 810302 Closing costs – owned vacation home  
 810400 Trip expenses for persons outside the CU  
 \*L 820101 Selling price or trade-in value – owned home  
 \*L 820102 Selling price or trade-in value – owned vacation home  
 820301 Total selling expenses – owned home  
 820302 Total selling expenses – owned vacation home  
 \*L 830101 Special or lump-sum mortgage payments – owned home  
 \*L 830102 Special or lump-sum mortgage payments – owned vacation home  
 \*L 830201 Reduction of mortgage principal – owned home; portion of management fees for repayment of loans in coops (non-vacation)  
 \*L 830202 Same as 830201 – owned vacation home; vacation coops  
 \*L 830203 Reduction of principal on lump sum home equity loan – owned home  
 \*L 830204 Reduction of mortgage principal, lump sum home equity loan – owned vacation home  
 830301 Original mortgage amount (mortgage obtained during current quarter's interview) – owned home  
 830302 Original mortgage amount (mortgage obtained during current quarter's interview) – owned vacation home  
 830303 Original amount of lump sum home equity loan (loan obtained during current quarter's interview) – owned home  
 830304 Original amount of lump sum home equity loan (loan obtained during current quarter's interview) – owned vacation home  
 840101 Amount for special assessment for roads, streets, or similar purposes not included in property tax – owned home  
 840102 Amount for special assessment for roads, streets, or similar purposes not included in property tax – owned vacation home  
 \*L 850100 Reduction of principal on vehicle loan  
 850200 Amount borrowed excluding interest on vehicle loan  
 850300 Finance charges on other vehicles  
 \*L 860100 Amount automobile sold or reimbursed  
 \*L 860200 Amount truck or van sold or reimbursed  
 \*L 860301 Amount motor home sold or reimbursed  
 \*L 860302 Amount other vehicle sold or reimbursed  
 \*L 860400 Amount trailer-type or other attachable-type camper sold or reimbursed

\*L 860500 Amount motorcycle, motor scooter, or moped sold or reimbursed  
 \*L 860600 Amount boat with motor sold or reimbursed  
 \*L 860700 Amount boat without motor or non camper-type trailer, such as for or cycle sold or reimbursed  
 870101 New cars, trucks, or vans (net outlay), purchase not financed  
 870102 Cash downpayment for new cars, trucks, or vans, purchase financed  
 870103 Finance charges on loans for new cars, trucks, or vans  
 870104 Principal paid on loans for new cars, trucks, or vans  
 870201 Used cars, trucks, or vans (net outlay), purchase not financed  
 870202 Cash downpayment for used cars, trucks, or vans, purchase financed  
 870203 Finance charges on loans for used cars, trucks, or vans  
 870204 Principal paid on loans for used cars, trucks, or vans  
 870301 Motorcycles, motor scooters, or mopeds (net outlay), purchase not financed  
 870302 Cash downpayment for motorcycles, motor scooters, or mopeds, purchase financed  
 870303 Finance charges on loans for motorcycles, motor scooters, or mopeds  
 870304 Principal paid on loans for motorcycles, motor scooters, or mopeds  
 870401 Boat without motor or non camper-type trailer, such as for boat or cycle (net outlay), purchase not financed  
 870402 Cash downpayment for boat without motor, or non camper-type trailer, such as for boat or cycle, purchase financed  
 870403 Finance charges on loans for boat without motor or non camper-type trailer, such as for boat or cycle  
 870404 Principal paid on loans for boat without motor, or non camper-trailer, such as for boat or cycle  
 870501 Trailer-type or other attachable-type camper (net outlay), purchase not financed  
 870502 Cash downpayment for trailer-type or other attachable-type camper, purchase financed  
 870503 Finance charges on loans for trailer-type or other attachable-type camper  
 870504 Principal paid on loans for trailer-type or other attachable-type camper  
 870605 Purchase of motor home, not financed  
 870606 Principal, motor home, financed  
 870607 Interest, motor home, financed  
 870608 Downpayment, motor home, financed  
 870701 Boat with motor (net outlay), purchase not financed  
 870702 Cash downpayment for boat with motor, purchase financed  
 870703 Finance charges on loans for boat with motor  
 870704 Principal paid on loans for boat with motor  
 870801 Purchase of other vehicle, not financed  
 870802 Principal, other vehicle, financed  
 870803 Interest, other vehicle, financed  
 870804 Downpayment, other vehicle, financed  
 880110 Interest on line of credit home equity loan – owned home  
 \*L 880120 Reduction of principal on line of credit home equity loan – owned home  
 880210 Interest on line of credit home equity loan – other properties  
 \*L 880220 Reduction of principal on line of credit home equity loan – other properties  
 880310 Interest on line of credit home equity loan – owned vacation home  
 \*L 880320 Reduction of principal on line of credit home equity loan – owned vacation home  
 900002 Occupational expenses  
 910042 Monthly transit subsidy amount  
 910050 Rental equivalence of owned home  
 910101 Rental equivalence for vacation home not available for rent  
 910102 Rental equivalence for vacation home available for rent  
 910103 Rental equivalence for timeshares  
 N(Y092) 910104 CPI Adjusted rental equivalence of vacation home  
 N(Y092) 910105 CPI Adjusted rental equivalence of home not available for rent  
 N(Y092) 910106 CPI Adjusted rental equivalence of home available for rent  
 N(Y092) 910107 CPI Adjusted rental equivalence for timeshares

D(Y091) 950030 2008 Tax stimulus  
 D(Y091) 950031 2008 Tax stimulus  
 990900 Rental and installation of dishwasher, disposal, and range hood  
 990920 Cost of supplies purchased for dwellings and additions being built, finishing basement or attic, remodeling rooms, or building outdoor patios, walks, fences, driveways or swimming pools - renter  
 990930 Cost of supplies purchased finishing basement or attic, remodeling rooms or building outdoor patios, walks, fences, driveways or swimming pools for jobs considered maintenance/repair - owner  
 990940 Same as 990930 - owned vacation home  
 990950 Contractors' labor and material costs, and cost of supplies rented for dwellings and additions being built - other properties

## B. INCOME AND RELATED UCCS ON ITAB FILE

001000 Purchase price of stocks, bonds, or mutual funds including broker fees  
 \*L 001010 Sale price of stocks, bonds, and mutual funds, net  
 001210 Investments to farm or business  
 \*L 001220 Assets taken from farm and business  
 \*L 002010 Change in savings account  
 \*L 002020 Change in checking account  
 \*L 002030 Change in amount held in U.S. savings bonds  
 \*L 003000 Change in money owed to CU  
 \*L 003100 Amount received in settlement on surrender of insurance policies  
 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  
 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 savings accounts or bonds  
 900090 Supplemental security income  
 900100 Unemployment compensation  
 900110 Workers' compensation and veterans payments including education  
 900120 Public assistance or welfare including money received from job training grants such as Job Corps  
 900131 Child support payments received (regular)  
 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 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  
 920010 Market value of savings accounts  
 920020 Market value of checking accounts, brokerage accounts and other similar accounts  
 920030 Market value of U.S. savings bonds  
 920040 Market value of stocks, bonds, mutual funds and other such securities  
 \*L 950001 Federal income tax refunds  
 950002 Federal income tax - deducted  
 950003 Additional federal income tax paid  
 \*L 950011 State and local income tax refunds  
 950012 State and local income tax – deducted  
 950013 Additional state and local income tax paid  
 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  
 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, mortgage not reported  
 980260 Percent renter  
 980270 Percent black reference person  
 980281 Percent white reference person  
 980282 Percent Asian reference person  
 980283 Percent Other race reference person  
 980285 Percent Hispanic or Latino reference person  
 980286 Percent non-Hispanic or Latino 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/other  
 980330 Percent vehicle owner  
 980340 Percent of CUs with at least one leased auto, truck, or van  
 980350 Percent of CUs with at least one owned or leased vehicle  
 980360 Number of vehicles leased

## XIV.APPENDIX 3 -- UCC AGGREGATION

The Istub file in the Programs folder on the CD shows the UCC aggregation used in the sample program. New and used aircraft purchases are not on the microdata files for confidentiality reasons. They are included in the published CE tables so transportation estimates based on these data may vary slightly from BLS published tables.

## XV.APPENDIX 4 -- FMLY AND MEMB VARIABLES ORDERED BY START POSITION (applicable for column-parametered ASCII file ONLY)

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

### Interview: FMLY

Variable Name	Start Position	Variable Name	Start Position	Variable Name	Start Position
NEWID	1	COMP_AVX	195	FRRE_IRX	387
DIRACC	9	COMPSEC	196	FSALARYX	388
DIRACC_	10	COMPSEC_	197	FSAL_RYX	396
AGE_REF	11	COMPSECX	198	FSLTAXX	397
AGE_REF_	13	COMP_ECX	206	FSLTAXX_	405
AGE2	14	CUTENURE	216	FSSIX	406
AGE2_	16	CUTE_URE	217	FSSIX_	414
AS_COMP1	26	EARNCOMP	221	GOVTCOST	421
AS_C_MP1	28	EARN_OMP	222	GOVT_OST	422
AS_COMP2	29	EDUC_REF	233	HLFBATHQ	423
AS_C_MP2	31	EDUCOREF	235	HLFB_THQ	426
AS_COMP3	32	EDUCA2	236	INC_HRS1	427
AS_C_MP3	34	EDUCA2_	238	INC_RS1	430
AS_COMP4	35	FAM_SIZE	242	INC_HRS2	431
AS_C_MP4	37	FAM_IZE	244	INC_RS2	434
AS_COMP5	38	FAM_TYPE	245	INC_RANK	435
AS_C_MP5	40	FAM_YPE	246	INC__ANK	445
BATHRMQ	41	FAMTFEDX	247	INCLOSSA	456
BATHRMQ_	44	FAMT_EDX	255	INCL_SSA	464
BEDROOMQ	45	FEDRFNDX	256	INCLOSSB	465
BEDR_OMQ	48	FEDR_NDX	264	INCL_SSB	473
BLS_URBN	49	FEDTAXX	265	INCNONW1	474
BSINVSTX	50	FEDTAXX_	273	INCN_NW1	475
BSIN_STX	60	FFRMINCX	274	INCNONW2	476
BUILDING	61	FFRM_NCX	283	INCN_NW2	477
BUIL_ING	63	FGOVRETXX	284	INCOMEY1	478
CKBKACTX	85	FGOV_ETX	292	INCO_EY1	479
CKBK_CTX	95	FINCATAX	293	INCOMEY2	480
COMPBND	143	FINCAT_X	302	INCO_EY2	481
COMPBND_	144	FINCBTAX	303	INCWEEK1	482

COMPBNDX	145	FINCBT_X	312	INCW_EK1	484
COMP_NDX	153	FINDRETX	313	INCWEEK2	485
COMPCKG	154	FIND_ETX	321	INCW_EK2	487
COMPCKG_	155	FININCX	322	INSRFNDX	488
COMPCKGX	156	FININCX_	330	INSR_NDX	496
COMP_KGX	164	FINLWT21	331	INTEARNX	497
COMPENSX	165	FJSSDEDX	342	INTE_RNX	505
COMP_NSX	173	FJSS_EDX	350	MISCTAXX	515
COMPOWD	174	FNONFRMX	351	MISC_AXX	523
COMPOWD_	175	FNON_RMX	360	LUMPSUMX	527
COMPOWDX	176	FPRIPENX	361	LUMP_UMX	535
COMP_WDX	184	FPRI_ENX	369	MARITAL1	536
COMPSAV	185	FRRDEDX	370	MARI_AL1	537
COMPSAV_	186	FRRDEDX_	378	MONYOWDX	547
COMPSAVX	187	FRRETIRX	379	MONY_WDX	555

Interview: FMLY

Variable Name	Start Position	Variable Name	Start Position	Variable Name	Start Position
NO_EARNR	556	SAVA_CTX	706	WTREP10	940
NO_E_RNR	558	SECESTX	707	WTREP11	951
NONINCMX	572	SECESTX_	717	WTREP12	962
NONI_CMX	580	SELLSECX	718	WTREP13	973
NUM_AUTO	581	SELL_ECX	728	WTREP14	984
NUM_UTO	583	SETLINSX	729	WTREP15	995
OCCUCOD1	593	SETL_NSX	737	WTREP16	1006
OCCU_OD1	595	SEX_REF	738	WTREP17	1017
OCCUCOD2	596	SEX_REF_	739	WTREP18	1028
OCCU_OD2	598	SEX2	740	WTREP19	1039
OTHRFNDX	606	SEX2_	741	WTREP20	1050
OTHR_NDX	614	SLOCTAXX	742	WTREP21	1061
OTHRINCX	615	SLOC_AXX	750	WTREP22	1072
OTHR_NCX	623	SLRFUNDX	751	WTREP23	1083
PENSIONX	624	SLRF_NDX	759	WTREP24	1094
PENS_ONX	632	SMSASTAT	760	WTREP25	1105
PERSLT18	633	SSOVERPX	761	WTREP26	1116
PERS_T18	635	SSOV_RPX	769	WTREP27	1127
PERSOT64	636	ST_HOUS	770	WTREP28	1138
PERS_T64	638	ST_HOUS_	771	WTREP29	1149
POPSIZE	639	TAXPROPX	772	WTREP30	1160
PRINEARN	640	TAXP_OPX	780	WTREP31	1171
PRIN_ARN	642	TOTTXPDX	781	WTREP32	1182
PTAXRFDX	643	TOTT_PDX	790	WTREP33	1193
PTAX_FDX	651	UNEMPLX	791	WTREP34	1204
PUBLHOUS	652	UNEMPLX_	799	WTREP35	1215
PUBL_OUS	653	USBNDX	800	WTREP36	1226
PURSSECX	654	USBNDX_	808	WTREP37	1237
PURS_ECX	662	VEHQ	809	WTREP38	1248
QINTRVMO	663	VEHQ_	811	WTREP39	1259
QINTRVYR	665	WDBSASTX	812	WTREP40	1270
RACE2	669	WDBS_STX	822	WTREP41	1281
RACE2_	670	WDBSGDSX	823	WTREP42	1292
REF_RACE	671	WDBS_DSX	831	WTREP43	1303
REF__ACE	672	WELFAREX	832	WTREP44	1314
REGION	673	WELF_REX	840	TOTEXPPQ	1325
RENTEQVX	674	WTREP01	841	TOTEXPCQ	1337
RENT_QVX	680	WTREP02	852	FOODPQ	1349
RESPSTAT	681	WTREP03	863	FOODCQ	1361
RESP_TAT	682	WTREP04	874	FDHOMEPCQ	1373
ROOMSQ	683	WTREP05	885	FDHOMEPCQ	1385
ROOMSQ_	686	WTREP06	896	FDAYWAYPQ	1397
SALEINCX	687	WTREP07	907	FDAYWAYCQ	1409
SALE_NCX	695	WTREP08	918	FDXMAPPQ	1421
SAVACCTX	696	WTREP09	929	FDXMAPCQ	1433

Interview: FMLY

Variable Name	Start Position	Variable Name	Start Position	Variable Name	Start Position
FDMAPPQ	1445	DMSXCCCQ	1985	OTHVEHPQ	2525
FDMAPCQ	1457	BBYDAYPQ	1997	OTHVEHCQ	2537
ALCBEPVQ	1469	BBYDAYCQ	2009	GASMOPQ	2549
ALCBEVCQ	1481	OTHHEXPQ	2021	GASMOCQ	2561
HOUSPQ	1493	OTHHEXCQ	2033	VEHFINPQ	2573
HOUSCQ	1505	HOUSEQPQ	2045	VEHFINCQ	2585
SHELTPQ	1517	HOUSEQCQ	2057	MAINRPPQ	2597
SHELTCQ	1529	TEXTILPQ	2069	MAINRPCQ	2609
OWNDWEPQ	1541	TEXTILCQ	2081	VEHINSQP	2621
OWNDWECQ	1553	FURNTRPQ	2093	VEHINSCQ	2633
MRTINTPQ	1565	FURNTRCQ	2105	VRNTLOPQ	2645
MRTINTCQ	1577	FLRCVRPQ	2117	VRNTLOCQ	2657
PROPTXPQ	1589	FLRCVRCQ	2129	PUBTRAPQ	2669
PROPTXCQ	1601	MAJAPPQ	2141	PUBTRACQ	2681
MRPINSPQ	1613	MAJAPPCQ	2153	TRNTRPPQ	2693
MRPINSCQ	1625	SMLAPPQ	2165	TRNTRPCQ	2705
RENDWEPQ	1637	SMLAPPCQ	2177	TRNOTHPQ	2717
RENDWECQ	1649	MISCEQPQ	2189	TRNOTHCQ	2729
RNTXRPPQ	1661	MISCEQCQ	2201	HEALTHPQ	2741
RNTXRPCQ	1673	APPARPQ	2213	HEALTHCQ	2753
RNTAPYPQ	1685	APPARCQ	2225	HLTHINPQ	2765
RNTAPYCQ	1697	MENBOYPQ	2237	HLTHINCQ	2777
OTHLODPQ	1709	MENBOYCQ	2249	MEDSRVPQ	2789
OTHLODCQ	1721	MENSIXPQ	2261	MEDSRVCQ	2801
UTILPQ	1733	MENSIXCQ	2273	PREDRGPQ	2813
UTILCQ	1745	BOYFIFPQ	2285	PREDRGCQ	2825
NTLGASPPQ	1757	BOYFIFCQ	2297	MEDSUPPQ	2837
NTLGASCQ	1769	WOMGRLPQ	2309	MEDSUPCQ	2849
ELCTRCPQ	1781	WOMGRLCQ	2321	ENTERTPQ	2861
ELCTRCCQ	1793	WOMSIXPQ	2333	ENTERTCQ	2873
ALLFULPQ	1805	WOMSIXCQ	2345	FEEADMPQ	2885
ALLFULCQ	1817	GRLFIFPQ	2357	FEEADMCQ	2897
FULOILPQ	1829	GRLFIFCQ	2369	TVRDIOPQ	2909
FULOILCQ	1841	CHLDRNPQ	2381	TVRDIOCQ	2921
OTHFLSPQ	1853	CHLDRNCQ	2393	OTHEQPPQ	2933
OTHFLSCQ	1865	FOOTWRPQ	2405	OTHEQPCQ	2945
TELEPHPQ	1877	FOOTWRCQ	2417	PETTOYPQ	2957
TELEPHCQ	1889	OTHAPLPQ	2429	PETTOYCQ	2969
WATRPSPQ	1901	OTHAPLCQ	2441	OTHENTPQ	2981
WATRPSCQ	1913	TRANSPQ	2453	OTHENTCQ	2993
HOUSOPPQ	1925	TRANSCQ	2465	PERSCAPQ	3005
HOUSOPCQ	1937	CARTKNPQ	2477	PERSCACQ	3017
DOMSRVPQ	1949	CARTKNCQ	2489	READPQ	3029
DOMSRVCQ	1961	CARTKUPQ	2501	READCQ	3041
DMSXCCPQ	1973	CARTKUCQ	2513	EDUCAPQ	3053

Interview: FMLY

Variable Name	Start Position	Variable Name	Start Position	Variable Name	Start Position
EDUCACQ	3065	ALIOTHX	3338	TOTHRLOC	3572
TOBACCPQ	3077	ALIOTHX_	3346	TTRANPRP	3582
TOBACCCQ	3089	CHDLMPX	3347	TTRANPRC	3592
MISCPQ	3101	CHDLMPX_	3355	TGASMOTP	3602
MISCCQ	3113	ERANKMTH	3356	TGASMOTC	3612
MISC1PQ	3125	ERAN_MTH	3367	TVRENTLP	3622
MISC1CQ	3137	ERANKH	3368	TVRENTLC	3632
MISC2PQ	3149	ERANKH_	3377	TCARTRKP	3642
MISC2CQ	3161	TOTEX4PQ	3387	TCARTRKC	3652
CASHCOPQ	3173	TOTEX4CQ	3399	TOTHVHRP	3662
CASHCOCQ	3185	MISCX4PQ	3411	TOTHVHRC	3672
PERINSPQ	3197	MISCX4CQ	3423	TOTHTREP	3682
PERINSCQ	3209	* D(Y091) RECORDS	3438	TOTHTREC	3692
LIFINSPQ	3221	* D(Y091) RECORDS_	3439	TTRNTRIP	3702
LIFINSCQ	3233	* D(Y091) TYPEREC1	3440	TTRNTRIC	3712
RETPENPQ	3245	* D(Y091) TYPE_EC1	3441	TFAREP	3722
RETPENCQ	3257	* D(Y091) TYPEREC2	3442	TFAREC	3732
HH_CU_Q	3269	* D(Y091) TYPE_EC2	3443	TAIRFARP	3742
HH_CU_Q_	3271	* D(Y091) TYPEREC3	3444	TAIRFARC	3752
HHID	3272	* D(Y091) TYPE_EC3	3445	TOTHFARP	3762
HHID_	3275	* D(Y091) TYPEREC4	3446	TOTHFARC	3772
POV_CY	3276	* D(Y091) TYPE_EC4	3447	TLOCALTP	3782
POV_CY_	3277	* D(Y091) TYPEREC5	3448	TLOCALTC	3792
POV_PY	3278	* D(Y091) TYPE_EC5	3449	TENTRMNP	3802
POV_PY_	3279	* D(Y091) TYPEREC6	3450	TENTRMNC	3812
HEATFUEL	3292	* D(Y091) TYPE_EC6	3451	TFEESADP	3822
HEAT_UEL	3294	* D(Y091) TYPEREC7	3452	TFEESADC	3832
SWIMPOOL	3298	* D(Y091) TYPE_EC7	3453	TOTHENTP	3842
SWIM_OOL	3300	* D(Y091) TYPEREC8	3454	TOTHENTC	3852
WATERHT	3307	* D(Y091) TYPE_EC8	3455	OWNVACP	3862
WATERHT_	3309	VEHQL	3456	OWNVACC	3872
APTMENT	3310	VEHQL_	3458	VOTHRLOP	3882
APTMENT_	3312	NUM_TVAN	3459	VOTHRLOC	3892
OFSTPARK	3313	NUM__VAN	3461	VMISCHEP	3902
OFST_ARK	3315	TTOTALP	3462	VMISCHEC	3912
WINDOWAC	3316	TTOTALC	3472	UTILOWNP	3922
WIND_WAC	3318	TFOODTOP	3482	UTILOWNC	3932
CNTRALAC	3319	TFOODTOC	3492	VFUELOIP	3942
CNTR_LAC	3321	TFOODAWP	3502	VFUELOIC	3952
CHILDAGE	3322	TFOODAWC	3512	VOTHRFLP	3962
CHIL_AGE	3323	TFOODHOP	3522	VOTHRFLC	3972
INCLASS	3324	TFOODHOC	3532	VELECTRP	3982
STATE	3326	TALCBEVP	3542	VELECTRC	3992
CHDOTHX	3329	TALCBEVC	3552	VNATLGAP	4002
CHDOTHX_	3337	TOTHRLOP	3562	VNATLGAC	4012

Interview: FMLY

Variable Name	Start Position	Variable Name	Start Position	Variable Name	Start Position
VWATERPP	4022	ECARTKNC	4416	WELFREBX	4667
VWATERPC	4032	ECARTKUP	4426	WELF_EBX	4673
MRTPRNOP	4042	ECARTKUC	4436	FOODSMPX	4677
MRTPRNOC	4052	EOTHVEHP	4446	FOOD_MPX	4683
UTILRNTP	4062	EOTHVEHC	4456	FOODSMPB	4684
UTILRNTP	4072	EENTRMTP	4466	FOOD_MPB	4686
RFUELOIP	4082	EENTRMTC	4476	FOODSPBX	4687
RFUELOIC	4092	EOTHENTP	4486	FOOD_PBX	4693
ROTHRFLP	4102	EOTHENTC	4496	INCLOSAB	4694
ROTHRFLC	4112	ENOMOTRP	4506	INCL_SAB	4696
RELECTRP	4122	ENOMOTRC	4516	INCL_SABX	4697
RELECTRC	4132	EMOTRVHP	4526	INCL_ABX	4703
RNATLGAP	4142	EMOTRVHC	4536	INCLOSBB	4704
RNATLGAC	4152	EENTMSCP	4546	INCL_SBB	4706
RWATERPP	4162	EENTMSCC	4556	INCL_SBBX	4707
RWATERPC	4172	EMISCELP	4566	INCL_BBX	4713
POVLEVCY	4182	EMISCELC	4576	CHDLMPB	4714
POVL_VCY	4190	EMISCMTP	4586	CHDLMPB_	4716
POVLEVPY	4191	EMISCMTC	4596	CHDLMPBX	4717
POVL_VPY	4199	UNISTRQ	4606	CHDL_PBX	4723
COOKING	4200	UNISTRQ_	4608	CHDOTHB	4724
COOKING_	4202	YRBUILT	4609	CHDOTHB_	4726
PORCH	4203	YRBUILT_	4613	CHDOTHBX	4727
PORCH_	4205	INTEARNB	4614	CHDO_HBX	4733
ETOTALP	4206	INTE_RNB	4616	ALIOHNB	4734
ETOTALC	4216	INTERNBX	4617	ALIOHNB_	4736
ETOTAPX4	4226	INTE_NBX	4623	ALIOHNBX	4737
ETOTACX4	4236	FININCB	4624	ALIO_HBX	4743
EHOUSNGP	4246	FININCB_	4626	LUMPSUMB	4744
EHOUSNGC	4256	FININCBX	4627	LUMP_UMB	4746
ESHELTRP	4266	FINI_CBX	4633	LMPSUMBX	4747
ESHELTRC	4276	PENSIONB	4634	LMPS_MBX	4753
EOWNDWLP	4286	PENS_ONB	4636	SALEINCB	4754
EOWNDWLC	4296	PNSIONBX	4637	SALE_NCB	4756
EOTHLODP	4306	PNSI_NBX	4643	SALINCBX	4757
EOTHLODC	4316	UNEMPLB	4644	SALI_CBX	4763
EMRTPNOP	4326	UNEMPLB_	4646	OTHRINCB	4764
EMRTPNOC	4336	UNEMPLBX	4647	OTHR_NCB	4766
EMRTPNVP	4346	UNEM_LBX	4653	OTRINCBX	4767
EMRTPNVC	4356	COMPENSB	4654	OTRI_CBX	4773
ETRANPTP	4366	COMP_NSB	4656	INCLASS2	4774
ETRANPTC	4376	COMPNSBX	4657	INCL_SS2	4775
EVEHPURP	4386	COMP_SBX	4663	CUID	4776
EVEHPURC	4396	WELFAREB	4664	INTERI	4783
ECARTKNP	4406	WELF_REB	4666	HORREF1	4784

Interview: FMLY

Variable Name	Start Position	Variable Name	Start Position	Variable Name	Start Position
HORREF1_	4785	FFRMINCI	5076	FOODSMP3	5397
HORREF2	4786	FGOVRETM	5079	FOODSMP4	5405
HORREF2_	4787	FGOV_ETM	5087	FOODSMP5	5413
ALIOTHXM	4788	FINCATXM	5088	FOODSMPI	5421
ALIO_HXM	4798	FINCA_XM	5099	FPRIPENM	5424
ALIOTHX1	4799	FINCATX1	5100	FPRI_ENM	5432
ALIOTHX2	4807	FINCATX2	5109	FRRDEDM	5433
ALIOTHX3	4815	FINCATX3	5118	FRRDEDM_	5441
ALIOTHX4	4823	FINCATX4	5127	FRRETIRM	5442
ALIOTHX5	4831	FINCATX5	5136	FRRE_IRM	5452
ALIOTHXI	4839	FINCBTXM	5145	FRRETIR1	5453
CHDOTHXM	4842	FINCB_XM	5156	FRRETIR2	5461
CHDO_HXM	4852	FINCBTX1	5157	FRRETIR3	5469
CHDOTHX1	4853	FINCBTX2	5166	FRRETIR4	5477
CHDOTHX2	4861	FINCBTX3	5175	FRRETIR5	5485
CHDOTHX3	4869	FINCBTX4	5184	FRRETIRI	5493
CHDOTHX4	4877	FINCBTX5	5193	FSALARYM	5496
CHDOTHX5	4885	FINCBTXI	5202	FSAL_RYM	5506
CHDOTHXI	4893	FININCXM	5205	FSALARY1	5507
COMPENSM	4896	FINI_CXM	5215	FSALARY2	5515
COMP_NSM	4906	FININCX1	5216	FSALARY3	5523
COMPENS1	4907	FININCX2	5224	FSALARY4	5531
COMPENS2	4915	FININCX3	5232	FSALARY5	5539
COMPENS3	4923	FININCX4	5240	FSALARYI	5547
COMPENS4	4931	FININCX5	5248	FSLTAXXM	5550
COMPENS5	4939	FININCXI	5256	FSLT_XXM	5560
COMPENSI	4947	FJSSDEDM	5259	FSLTAXX1	5561
ERANKHM	4950	FJSS_EDM	5269	FSLTAXX2	5569
ERANKHM_	4959	FJSSDED1	5270	FSLTAXX3	5577
ERNKMTHM	4960	FJSSDED2	5278	FSLTAXX4	5585
ERNK_THM	4973	FJSSDED3	5286	FSLTAXX5	5593
FAMTFEDM	4974	FJSSDED4	5294	FSSIXM	5601
FAMT_EDM	4983	FJSSDED5	5302	FSSIXM_	5611
FAMTFED1	4984	FNONFRMM	5310	FSSIX1	5612
FAMTFED2	4992	FNON_RMM	5321	FSSIX2	5620
FAMTFED3	5000	FNONFRM1	5322	FSSIX3	5628
FAMTFED4	5008	FNONFRM2	5331	FSSIX4	5636
FAMTFED5	5016	FNONFRM3	5340	FSSIX5	5644
FFRMINCM	5024	FNONFRM4	5349	FSSIXI	5652
FFRM_NCM	5035	FNONFRM5	5358	INC_RNKM	5655
FFRMINC1	5036	FNONFRMI	5367	INC__NKM	5664
FFRMINC2	5044	FOODSMPPM	5370	INC_RNK1	5665
FFRMINC3	5052	FOOD_MPM	5380	INC_RNK2	5674
FFRMINC4	5060	FOODSMP1	5381	INC_RNK3	5683
FFRMINC5	5068	FOODSMP2	5389	INC_RNK4	5692



Interview: FMLY

Variable Name	Start Position	Variable Name	Start Position	Variable Name	Start Position
INC_RNK5	5701	POV_CY3	5996	REVSMORT	6199
INCLOSAM	5710	POV_CY4	5997	REVS_OR	6200
INCL_SAM	5721	POV_CY5	5998	RVSLUMP	6201
INCLOSA1	5722	POV_PYM	5999	RVSLUMP_	6202
INCLOSA2	5731	POV_PYM_	6000	RVSREGMO	6203
INCLOSA3	5740	POV_PY1	6001	RVSR_GMO	6204
INCLOSA4	5749	POV_PY2	6002	RVSLOC	6205
INCLOSA5	5758	POV_PY3	6003	RVSLOC_	6206
INCLOSAI	5767	POV_PY4	6004	RVSOHPY	6207
INCLOSBI	5770	POV_PY5	6005	RVSOHPY	6208
INCL_SBI	5781	PRINERNM	6006	TYPEPYX	6209
INCLOSBI	5782	PRIN_RNM	6008	TYPEPYX_	6217
INCLOSBI	5791	PRINERN1	6009	* N(Y091) HISP_REF	6218
INCLOSBI	5800	PRINERN2	6011	* N(Y091) HISP2	6219
INCLOSBI	5809	PRINERN3	6013		
INCLOSBI	5818	PRINERN4	6015		
INCLOSBI	5827	PRINERN5	6017		
INTEARNM	5830	TOTTXPDM	6019		
INTE_RNM	5840	TOTT_PDM	6030		
INTEARN1	5841	TOTTXPD1	6031		
INTEARN2	5849	TOTTXPD2	6040		
INTEARN3	5857	TOTTXPD3	6049		
INTEARN4	5865	TOTTXPD4	6058		
INTEARN5	5873	TOTTXPD5	6067		
INTEARNI	5881	UNEMPLXM	6076		
OTHRINCM	5884	UNEM_LXM	6086		
OTHR_NCM	5894	UNEMPLX1	6087		
OTHRINC1	5895	UNEMPLX2	6095		
OTHRINC2	5903	UNEMPLX3	6103		
OTHRINC3	5911	UNEMPLX4	6111		
OTHRINC4	5919	UNEMPLX5	6119		
OTHRINC5	5927	UNEMPLXI	6127		
OTHRINCI	5935	WELFAREM	6130		
PENSIONM	5938	WELF_REM	6140		
PENS_ONM	5948	WELFARE1	6141		
PENSION1	5949	WELFARE2	6149		
PENSION2	5957	WELFARE3	6157		
PENSION3	5965	WELFARE4	6165		
PENSION4	5973	WELFARE5	6173		
PENSION5	5981	WELFAREI	6181		
PENSIONI	5989	COLPLAN	6184		
POV_CYM	5992	COLPLAN_	6185		
POV_CYM_	5993	COLPLANX	6186		
POV_CY1	5994	COLP_ANX	6194		
POV_CY2	5995	PSU	6195		

## Interview: MEMB

Variable Name	Start Position	Variable Name	Start Position	Variable Name	Start Position
NEWID	1	INCORP_	125	SSNORM_	261
AGE	9	INCWEEKQ	126	SALARYB	262
AGE_	11	INCW_EKQ	128	SALARYB_	264
AMTFED	12	INDRETX	129	SALARYBX	265
AMTFED_	20	INDRETX_	139	SALA_YBX	271
ANFEDTX	21	JSSDEDX	140	NONFARMB	272
ANFEDTX_	29	JSSDEDX_	146	NONF_RMB	274
ANGOVRTX	30	MARITAL	147	NONFRMBX	275
ANGO_RTX	38	MEDICOV	149	NONF_MBX	281
ANPRVPNX	39	MEDICOV_	150	FARMINCB	282
ANPR_PNX	47	MEMBNO	151	FARM_NCB	284
ANRRDEDX	48	NFRMLOSS	153	FRMINCBX	285
ANRR_EDX	56	NFRM_OSS	154	FRMI_CBX	291
ANSLTX	57	NONFARMX	155	RRRETIRB	292
ANSLTX_	65	NONF_RMX	165	RRRE_IRB	294
ARM_FORC	66	OCCUCODE	166	RRRETRBX	295
ARM_ORC	67	OCCU_ODE	168	RRRE_RBX	301
CU_CODE	68	PAYPERD	170	SSIB	302
EARNER	70	PAYPERD_	171	SSIB_	304
EARNER_	71	PRIVPENX	172	SSIBX	305
EARNTYPE	72	PRIV_ENX	180	SSIBX_	311
EARN_YPE	73	PWRKSTAT	181	HORIGIN	312
EDUCA	74	PWRK_TAT	182	HISPANIC	313
EDUCA_	76	RRRDEDX	185	HISP_NIC	314
EMPLCONT	77	RRRDEDX_	193	MEMBRACE	315
EMPL_ONT	78	RRRETIRX	194	RC_WHITE	316
FARMINCX	79	RRRE_IRX	202	RC_W_ITE	317
FARM_NCX	89	SALARYX	203	RC_BLACK	318
FARMLOSS	90	SALARYX_	213	RC_B_ACK	319
FARM_OSS	91	SCHMLWKQ	214	RC_NATAM	320
GOVRETX	92	SCHM_WKQ	216	RC_N_TAM	321
GOVRETX_	100	SCHMLWKX	217	RC_ASIAN	322
GROSPAYX	101	SCHM_WKX	220	RC_A_IAN	323
GROS_AYX	111	SEX	221	RC_PACIL	324
IN_COLL	112	SLFEMPSS	223	RC_P_CIL	325
IN_COLL_	113	SLFE_PSS	229	RC_OTHER	326
INC_HRSQ	114	SLTAXX	230	RC_O_HER	327
INC_RSQ	117	SLTAXX_	238	RC_DK	328
INCMEDCR	118	SOCRXX	239	RC_DK_	329
INCM_DCR	119	SOCRXX_	247	ASIAN	330
INCNONWK	120	SS_RRQ	248	ASIAN_	331
INCN_NWK	121	SS_RRQ_	250	ANFEDTXM	332
INCOMEY	122	SSIX	251	ANFE_TXM	340
INCOMEY_	123	SSIX_	259	ANGOVRTM	341
INCORP	124	SSNORM	260	ANGO_RTM	349

# Interview: MEMB

Variable Name	Start Position	Variable Name	Start Position
ANPRVPNM	350	SLFEMPSM	644
ANPR_PNM	358	SLFE_PSM	652
ANRRDEDM	359	SLFEMPS1	653
ANRR_EDM	367	SLFEMPS2	659
ANSLTXM	368	SLFEMPS3	665
ANSLTXM_	376	SLFEMPS4	671
FARMINCM	377	SLFEMPS5	677
FARM_NCM	388	SOCRRXM	683
FARMINC1	389	SOCRRXM_	693
FARMINC2	398	SOCRRX1	694
FARMINC3	407	SOCRRX2	702
FARMINC4	416	SOCRRX3	710
FARMINC5	425	SOCRRX4	718
FARMINCI	434	SOCRRX5	726
JSSDEDXM	437	SSIXM	734
JSSD_DXM	445	SSIXM_	744
JSSDEDX1	446	SSIX1	745
JSSDEDX2	452	SSIX2	753
JSSDEDX3	458	SSIX3	761
JSSDEDX4	464	SSIX4	769
JSSDEDX5	470	SSIX5	777
NONFARMM	476	SSIXI	785
NONF_RMM	487	* N(Y093) PYMT2009	788
NONFARM1	488	* N(Y093) PYMT_009	789
NONFARM2	497	* N(Y093) HWUSED09	790
NONFARM3	506	* N(Y093) HWUS_D09	791
NONFARM4	515	* N(Y093) QSTIMPYX	792
NONFARM5	524	* N(Y093) QSTI_PYX	796
NONFARMI	533		
RRRETIRM	536		
RRRE_IRM	546		
RRRETIR1	547		
RRRETIR2	555		
RRRETIR3	563		
RRRETIR4	571		
RRRETIR5	579		
RRRETIRI	587		
SALARYXM	590		
SALA_YXM	600		
SALARYX1	601		
SALARYX2	609		
SALARYX3	617		
SALARYX4	625		
SALARYX5	633		
SALARYXI	641		

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

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

CE reports and data tables can be found on-line at <http://www.bls.gov/cex/home.htm> .

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 1984-2009  
Expenditure Shares Tables from 1998-2009  
Aggregate Expenditure Shares Tables from 1998-2009

#### **Two Year Tables**

Cross-Tabulated Tables from 1986-2009  
Metropolitan Statistical Area Tables from 1986-2009  
Region Tables from 1998-2009  
High Income Tables from 1998-2002  
Multi-Year Tables for 1984-1992 and 1994-2009

#### **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 1994-2009. The 1980-81 through 2009 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>).

More information on the particular CD roms available and the order form can be found on the Consumer Expenditure Survey web site: <http://www.bls.gov/cex/csxmico.htm>

#### **STATE CODES**

State codes from 1982 to 1993 are available for the Interview Survey. The files contain the variables NEWID and STATE, thus enabling the microdata user to identify the states in which consumer units reside. Caution should be exercised when analysis is done by state, due to the composition of some PSUs. PSUs in some state border areas may not be unique to one state, but may contain CUs from two or more states. (See Section X.D. STATE IDENTIFIER.) Also, because of nondisclosure requirements STATE has been suppressed for some sampled CUs. (See Section IV.A. CU CHARACTERISTICS AND INCOME FILE (FMLY.)) The state data diskettes are free and may be obtained by contacting the BLS national office. (See Section XVII. INQUIRIES, SUGGESTIONS, AND COMMENTS)

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

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

Written suggestions and comments should be forwarded to:

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

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