

2007 CONSUMER EXPENDITURE INTERVIEW SURVEY  
PUBLIC USE MICRODATA  
User's Documentation  
February 9, 2009

U.S. Department of Labor  
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I.	

## 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 2007 and the first quarter of 2008. The Interview survey collects data on up to 95 percent of total household expenditures. In addition to the FMLY, MEMB, MTAB, 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.

Estimates of average expenditures in 2007 from the Interview Survey, integrated with data from the Diary Survey, will be published in the report *Consumer Expenditures in 2007* (due out in 2009). 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, 2007."

## II. CHANGES FROM THE 2006 MICRODATA FILES

### A. FMLY file

#### Variable Deletions

Beginning in 2007Q2, the following variables will be deleted:

Variable name	Start Position	Format
CUINCOME	3435	CHAR(2)
CUIN_OME	3437	CHAR(1)

#### Variable Additions

Variable name	Description	Start Position	Format
REVSMORT	Do you have a reverse mortgage on this home?  1 – Yes 2 – No	6199	CHAR(1)
REVS_ORT		6200	CHAR(1)
RVSLUMP	Coded 1 – Reverse mortgage paid as a lump sum	6201	CHAR(1)
RVSLUMP_		6202	CHAR(1)
RVSREGMO	Coded 2 – Reverse mortgage paid in regular monthly payments	6203	CHAR(1)

RVSR_GMO		6204	CHAR(1)
RVSLOC	Coded 3 – Reverse mortgage available as a line of credit	6205	CHAR(1)
RVSLOC_		6206	CHAR(1)
RVSOTHPY	Coded 4 – Reverse mortgage paid in another method, specify	6207	CHAR(1)
RVSO_HPY		6208	CHAR(1)
TYPEPYX	Since the first of the month, three months ago, what was the amount you received from the reverse mortgage?	6209	NUM(8)
TYPEPYX_		6217	CHAR(1)

Variable Content Changes

Variable name	Description
RECORDS	<p>Changed from:</p> <p>In answering questions about expenses, did the respondent consult bills, receipts, check stubs, expense books, tax returns, or other records?</p> <p>CODED</p> <p>1 Always 2 Almost always 3 Mostly 4 Occasionally 5 Almost never 6 Never</p> <p>Changed to:</p> <p>In answering questions about expenses, did the respondent consult bills, receipts, check stubs, expense books, tax returns, or other records?</p> <p>CODED</p> <p>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)</p>

**Summary Variable Changes**

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

FDHOMEPQ Food at home last quarter  
190904 \*790220<sup>D(Y072)</sup> \*790230<sup>D(Y072)</sup> \*790240<sup>N(Y072)</sup>

ALCBEVPQ Alcoholic beverages last quarter  
200900 \*790310<sup>D(Y072)</sup> \*790320<sup>D(Y072)</sup> \*790330<sup>N(Y072)</sup> 790420

MRTINTPQ Mortgage interest last quarter  
220311 220313 \*220321<sup>D(Y072)</sup> 880110

OTHLODPQ Other lodging last quarter  
210210 210310 210902 220122 220212 220312 220314 \*220322<sup>D(Y072)</sup> 220902 230123 230152  
230902 240113 240123 240214 240223 240313 240323 320613 320623 320633 340912 880310  
990940 \*680905<sup>N(Y072)</sup>

OTHEXPQ Other household expenses last quarter  
330511 340510 340620 340630 340901 340907 340908 340915 690113 690114 690116 \*690310<sup>N(Y072)</sup>  
990900

TELEPHQP Telephone services last quarter  
270101 270102 270104 \*270105<sup>N(Y072)</sup>

MISCEQPQ Miscellaneous household equipment last quarter  
320120 320130 320150 \*320210<sup>D(Y072)</sup> 320220 \*320231<sup>D(Y072)</sup> 320232 \*320233<sup>N(Y072)</sup> 320410 320420  
320901 320902 320903 320904 340904 430130 690111 690112 690115 690210 690230 690241  
690242 690243 690244 690245

MENSIXPQ Clothing for men, 16 and over last quarter  
360110 360120 360210 360311 360312 360320 360330 360340 360350 360410 \*360511<sup>D(Y072)</sup>  
\*360512<sup>D(Y072)</sup> \*360513<sup>N(Y072)</sup> 360901 360902

BOYFIFPQ Clothing for boys, 2 to 15 last quarter  
370110 370120 370130 370211 370212 370213 370220 370311 \*370312<sup>D(Y072)</sup> \*370313<sup>D(Y072)</sup>  
\*370314<sup>N(Y072)</sup> 370902 370903 370904

WOMSIXPQ Clothing for women, 16 and over last quarter  
380110 380210 380311 380312 380313 380320 \*380331<sup>D(Y072)</sup> \*380332<sup>D(Y072)</sup> \*380333<sup>N(Y072)</sup> 380340  
380410 380420 380430 380510 380901 380902 380903

GRLFIFPQ Clothing for girls, 2 to 15 last quarter  
390110 390120 390210 \*390221<sup>D(Y072)</sup> \*390222<sup>D(Y072)</sup> \*390223<sup>N(Y072)</sup> 390230 390310 390321 390322  
390901 390902

TVRDIOQP Televisions, radios, and sound equipment last quarter  
270310 \*270311<sup>N(Y072)</sup> 310140 310210 310220 310230 310240 310311 310313 310314 310320 310333  
310334 310340 310350 340610 340902 340905 610130 \*690320<sup>N(Y072)</sup> \*690330<sup>N(Y072)</sup> \*690340<sup>N(Y072)</sup>  
\*690350<sup>N(Y072)</sup> 620904 620912 \*620916<sup>N(Y072)</sup>

OTHENTPQ Other entertainment last quarter  
520901 520904 520907 600110 600121 600122 600132 600141 600142 600210 600310 600410  
600420 600430 600901 600902 610210 610230 620320 620330 620905 620906 620908 620909  
620919 620921 620922 620930 \*680310<sup>N(Y072)</sup> \*680320<sup>N(Y072)</sup>

EDUCAPQ Education last quarter  
660110 660210 \*660410<sup>N(Y072)</sup> 660901 660902 670110 670210 \*670410<sup>N(Y072)</sup> 670901 670902

VOTHRLOP Expenditures on owned vacation homes last quarter including mortgage interest, insurance, taxes,  
and maintenance  
210902 220122 220212 220312 220314 \*220322<sup>D(Y072)</sup> 220902 230119 230123 230152 230902  
240113 240123 240214 240223 240313 240323 320613 320623 320633 340912 \*680905<sup>N(Y072)</sup> 880310  
990940

**B. MEMB file**

No Changes

**C. MTAB file**

UCC Deletions

Beginning in 2007Q2, the following UCCs will be deleted from the MTAB file:

UCC	Title
220321	Prepayment penalty, owned home
220322	Prepayment penalty, owned vacation home
320210	Clocks
320231	Other household decorative items
360511	Men's pants
360512	Men's shorts and shorts sets
370312	Boys' pants
370313	Boys' shorts and shorts sets
380331	Women's pants
380332	Women's shorts and shorts sets
390221	Girls' skirts and pants
390222	Girls' shorts and shorts sets
790220	Food and nonalcoholic beverage purchases at grocery stores
790230	Food and nonalcoholic beverage purchases at convenience stores
790310	Beer and wine for home use
790320	Other alcohol for home use
910100	Rental equivalence of owned vacation home

UCC Additions

Beginning in 2007Q2, the following UCCs will be added to the MTAB file:

UCC	Title
270105	Voice over IP telephone service
270311	Satellite radio service
320233	Clocks and other household decorative items
360513	Men's pants and shorts
370314	Boys' pants and shorts
380333	Women's pant and shorts
390223	Girls' skirts, pants, and shorts
620916	Rental of video or computer hardware or software
660410	School books, supplies, and equipment for vocational or technical school
670410	Tuition for vocational or technical school
680310	Live entertainment for catered affairs
680320	Rental of party supplies for catered affairs
680905	Vacation clubs
690310	Installation for computers
690320	Installation for TVs

690330	Installation for satellite TV equipment
690340	Installation of sound systems
690350	Installation of other video or sound systems
790240	Average food and nonalcoholic beverage expenses
790330	Beer, wine, and other alcohol for home use
910101	Rental equivalence for vacation home not available for rent
910102	Rental equivalence for vacation home available for rent
910103	Rental equivalence for timeshares

UCC Content Changes

Beginning in 2007Q2, the following UCCs will have the noted content and/or title changes. All content changes are explained, otherwise there is simply a title change.

UCC	Title
190902	Food and beverages for catered affairs (now only includes food and beverages)
310230	Video and computer game hardware and software
320150	Barbeque grills and outdoor equipment
350110	Renter's insurance
360350	Men's swimsuits, warm-up or ski suits
370904	Boys' swimsuits, warm-up or ski suits
380340	Women's swimsuits, warm-up or ski suits
390230	Girls' swimsuits, warm-up or ski suits
440900	Clothing storage outside the home
600141	Purchase of motor home
600143	Trade-in allowance for motor home
620921	Rental of motor home
860301	Amount motor home sold or reimbursed
870605	Purchase of motor home, not financed
870606	Principal, motor home, financed
870607	Interest, motor home, financed
870608	Down payment, motor home, financed
610130	Musical instruments, supplies, and accessories (now includes pianos)
620904	Rental and repair of musical instruments, supplies, and accessories (now includes pianos)

**D. ITAB file**

No changes

**E. EXPN files**

General note: Throughout the survey questions, the phrase "...NOT used for business..." was replaced with the phrase "...NOT used entirely for business...".

**1. RNT file**

Variable Deletions

Beginning in 2007Q2, the following variables will be deleted:



Variable name	Start Position	Format
RTCMPPD	52	CHAR(1)
RTCMPPD_	53	CHAR(1)

#### Variable Content Changes

Variable name	Description
RTCOMPX	<p>Changed from: What is the rental charge to another tenant for a similar unit?</p> <p>Changed to: What is the current monthly rental charge to another tenant for a similar unit?</p>

## 2. OPB file

#### Variable Deletions

Beginning in 2007Q2, the following variables will be deleted:

Variable name	Start Position	Format
ACQMETH	43	CHAR(1)
ACQMETH_	44	CHAR(1)
VSHARED	81	CHAR(1)
VSHARED_	82	CHAR(1)
VTIMESHHR	83	CHAR(1)
VTIM_SHR	84	CHAR(1)
PROPVALX	Moved to OPI	
PROP_ALX	Moved to OPI	

#### Variable Additions

Variable name	Description	Start Position	Format
TIMESHAR	<p>Is this a time-sharing arrangement where you have use of the property only for a specified time period each year?</p> <p>1 = Yes 2 = No</p>	96	CHAR(1)
TIME_HAR		97	CHAR(1)
SHARWKS	How many weeks per year can you use your timeshare? (only asked for timeshare properties)	98	NUM(2)
SHARWKS_		100	CHAR(1)
SHARED1	Is the timeshare owned with anyone outside the CU? (only asked for timeshare properties)	101	CHAR(1)
SHARED1_		102	CHAR(1)
SHARPER1	What percent of the timeshare do you own?	103	NUM(3)
SHAR_ER1		106	CHAR(1)
SHARED2	Is ownership of this property shared with anyone outside the CU? (asked for all non-timeshare properties regardless of property	107	CHAR(1)

	type) 1 = Yes 2 = No		
SHARED2_		108	CHAR(1)
SHARPER2	What percent of the property do you own?	109	NUM(3)
SHAR_ER2		112	CHAR(1)
GIFTPROP	Was this property received as a gift or inheritance?  1 = Yes 2 = No	113	CHAR(1)
GIFT_ROP		114	CHAR(1)

#### Variable Content Changes

Variable name	Description
OWNYB	Code changed from: 300 - Vacation home or recreational property  Code changed to: 300 - Second home, vacation home, recreational property, or timeshare

### **3. OPD file**

#### Variable Content Changes

Variable name	Description
OWNYD	Code changed from: 300 – Vacation home or recreational property  Code changed to: 300 – Second home, vacation property, recreational property, or timeshare

### **4. MOR file**

#### Variable Deletions

Beginning in 2007Q2, the following variables will be deleted:

Variable name	Start Position	Format
OLDMRRT	28	NUM(5.4)
OLDMRRT_	33	CHAR(1)
MRTMPD	62	CHAR(1)
MRTMPD_	63	CHAR(1)
PAYLIFIN	68	CHAR(1)
PAYL_FIN	69	CHAR(1)
REFINED	156	CHAR(1)
REFINED_	157	CHAR(1)
PAYTYPE	154	CHAR(1)
PAYTYPE_	155	CHAR(1)

Variable Additions

Variable name	Description	Start Position	Format
VARRTE	Is this a variable rate mortgage? 1 = variable rate mortgage	195	CHAR(1)
VARRTE_		196	CHAR(1)
INTONLY	Is this an interest-only mortgage? 2 = interest-only mortgage	197	CHAR(1)
INTONLY_		198	CHAR(1)
OTHRTE	3 = Mortgage is something other than a fixed rate, variable rate, or interest-only mortgage	199	CHAR(1)
OTHRTE_		200	CHAR(1)
PAYMT1X	How much was your payment on this mortgage in the first month of the reference period? (Asked for FIXEDRTE = 2)	201	NUM(8)
PAYMT1X_		209	CHAR(1)
PAYMT2X	How much was your payment on this mortgage in the second month of the reference period? (Asked for FIXEDRTE = 2)	210	NUM(8)
PAYMT2X_		218	CHAR(1)
PAYMT3X	How much was your payment on this mortgage in the third month of the reference period? (Asked for FIXEDRTE = 2)	219	NUM(8)
PAYMT3X_		227	CHAR(1)
PAYPRINI	Did the last regular mortgage payment include principal? 1 – Yes	228	CHAR(1)
PAYP_INI		229	CHAR(1)
PAYINT	Did the last regular mortgage payment include interest? 2 – Yes	230	CHAR(1)
PAYINT_		231	CHAR(1)

Variable Content Changes

Variable name	Description
OWNYF	Code changed from: 300 – Vacation home or recreational property  Code changed to: 300 – Second home, vacation property, recreational property, or timeshare
PAYPROTX	Code changed from: 2 – Last regular payment included property tax  Code changed to: 3 – Last regular payment included property tax
PAYPROIN	Code changed from:

	3 – Last regular payment included property insurance  Code changed to: 4 – Last regular payment included property insurance
M RTPMTX	This question is now only asked for a fixed rate mortgage (FIXEDRTE = 1); it now asks specifically for a monthly mortgage amount.

## 5. HEL file

### Variable Deletions

Beginning in 2007Q2, the following variables will be deleted:

Variable name	Start Position	Format
OLDMRTG	28	NUM(5.4)
OLDMRTG_	33	CHAR(1)
M RTPMPG	62	CHAR(1)
M RTPMPG_	63	CHAR(1)
PAYLFING	68	CHAR(1)
PAYL_ING	69	CHAR(1)
REFINDG	156	CHAR(1)
REFINDG_	157	CHAR(1)
PAYTYPG	154	CHAR(1)
PAYTYPG_	155	CHAR(1)

### Variable Additions

Variable name	Description	Start Position	Format
VARRTEG	Is this a variable rate loan?  1 = variable rate loan	195	CHAR(1)
VARRTEG_		196	CHAR(1)
INTONLYG	Is this an interest-only loan?  2 = interest-only loan	197	CHAR(1)
INTO_LYG		198	CHAR(1)
OTHRTEG	3 = Loan is something other than a fixed rate, variable rate, or interest-only loan	199	CHAR(1)
OTHRTEG_		200	CHAR(1)
PAYMT1G	How much was your payment on this lump sum home equity loan in the first month of the reference period? (Asked for FIXDRTEG = 2)	201	NUM(8)
PAYMT1G_		209	CHAR(1)
PAYMT2G	How much was your payment on this lump sum home equity loan in the second month of the reference period? (Asked for FIXDRTEG = 2)	210	NUM(8)
PAYMT2G_		218	CHAR(1)
PAYMT3G	How much was your payment on this lump sum home equity loan in the third month of the reference period?	219	NUM(8)

	(Asked for FIXDRTEG = 2)		
PAYMT3G_		227	CHAR(1)
PAYPRNPG	Did the last regular payment include principal? 1 – Yes	228	CHAR(1)
PAYP_NPG		229	CHAR(1)
PAYINTG	Did the last regular payment include interest? 2 – Yes	230	CHAR(1)
PAYINTG_		231	CHAR(1)

Variable Content Changes

Variable name	Description
OWNYG	Code changed from: 300 – Vacation home or recreational property  Code changed to: 300 – Second home, vacation property, recreational property, or timeshare
PAYPRTXG	Code changed from: 2 – Last regular payment included property tax  Code changed to: 3 – Last regular payment included property tax
PAYPRING	Code changed from: 3 – Last regular payment included property insurance  Code changed to: 4 – Last regular payment included property insurance
M RTPMTG	This question is now only asked for a fixed rate home equity loan (FIXDRTEG = 1); it now asks specifically for a monthly amount.

**6. OPH file**

Variable Content Changes

Variable name	Description
OWNYH	Code changed from: 300 – Vacation home or recreational property  Code changed to: 300 – Second home, vacation property, recreational property, or timeshare

**7. OPI file**

Variable Deletions

Beginning in 2007Q2, the following variables will be deleted:

Variable name	Start Position	Format
QADPENTX	33	NUM(8)
QADP_NTX	41	CHAR(1)
INC_MORT	147	CHAR(1)

INC__ORT	148	CHAR(1)
QPENALTX	230	NUM(8)
QPEN_LTX	238	CHAR(1)

Variable Additions

Variable name	Description	Start Position	Format
PROPVALX	About how much do you think this property would sell for on today's market?  (moved from OPB section)	264	NUM(8)
PROP_ALX		272	CHAR(1)
VAC_OCCQ	Since the first of the reference period, for how much time did you occupy this timeshare/vacation property?	273	NUM(3)
VAC__CCQ		276	CHAR(1)
VAC_OCCY	Time period 1 – Days 2 – Weeks 3 – Months 4 – Percent 5 – Other, specify	277	CHAR(1)
VAC__CCY		278	CHAR(1)
VAC_SEC	Since the first of the reference period, was this property either rented by someone outside your CU or available to be rented?  1 = Yes 2 = No	279	CHAR(1)
VAC_SEC_		280	CHAR(1)
VAC_RNTQ	Since the first of the reference period, for how much time was this property either rented by someone outside your CU or available to be rented?	281	NUM(3)
VAC__NTQ		284	CHAR(1)
VAC_RNTY	Time period 1 – Days 2 – Weeks 3 – Months 4 – Percent 5 – Other, specify	285	CHAR(1)
VAC__NTY		286	CHAR(1)
RENTPERD	What period of time does this rental amount cover? 1 – Week 2 – Month 3 – Quarter 4 – Other, specify	287	CHAR(1)
RENT_ERD		288	CHAR(1)
RENTUTIL	Does this amount include utilities?  1 = Yes 2 = No	289	CHAR(1)

RENT_TIL		290	CHAR(1)
TIME_RNT	Since the first of the reference period, did you rent this timeshare to someone outside of your CU?  1 = Yes 2 = No	291	CHAR(1)
TIME0RNT		292	CHAR(1)
TIMESHRI	Is this a time-sharing arrangement where you have use of the property only for a specified time period each year?  1 = Yes 2 = No	293	CHAR(1)

#### Variable Content Changes

Variable name	Description
OWNYI	Code changed from: 300 – Vacation home or recreational property  Code changed to: 300 – Second home, vacation property, recreational property, or timeshare
RNTEQVX	Approximate rental value of property on today's market.

#### **8. UTA file**

##### Variable Deletions

Beginning in 2007Q2, the following variables will be deleted:

Variable name	Start Position	Format
TELMO	24	CHAR(2)
TELMO_	26	CHAR(1)
QADBILX	38	NUM(6)
QADB_LLX	44	CHAR(1)
QADINETX	71	NUM(6)
QADI_ETX	77	CHAR(1)
QADCABLX	78	NUM(6)
QADC_BLX	84	CHAR(1)
QADNTRPX	92	NUM(6)
QADN_RPX	98	CHAR(1)
QADNTCHX	99	NUM(6)
QADN_CHX	105	CHAR(1)
TELRESDX	106	NUM(6)
TEL_RSDX	112	CHAR(1)
TELCELLX	113	NUM(6)
TELC_LLX	119	CHAR(1)

##### Variable Additions

Variable name	Description	Start Position	Format
BILPERD	Billing period for telephone services 1 – Month 2 – 2 months 3 – Quarter 4 – Annual 5 – Other	127	CHAR(1)
BILPERD_		128	CHAR(1)
QADINE1X	Total expense for internet access or data services for three months ago, adjusted for business.	129	NUM(6)
QADI_E1X		135	CHAR(1)
QADINE2X	Total expense for internet access or data services for two months ago, adjusted for business.	136	NUM(6)
QADI_E2X		142	CHAR(1)
QADINE3X	Total expense for internet access or data services for one month ago, adjusted for business.	143	NUM(6)
QADI_E3X		149	CHAR(1)
QADCAB1X	Total expense for cable or satellite television service for three months ago, adjusted for business.	150	NUM(6)
QADC_B1X		156	CHAR(1)
QADCAB2X	Total expense for cable or satellite television service for two months ago, adjusted for business.	157	NUM(6)
QADC_B2X		163	CHAR(1)
QADCAB3X	Total expense for cable or satellite television service for one month ago, adjusted for business.	164	NUM(6)
QADC_B3X		170	CHAR(1)
QADNTR1X	Total expense for non-telephone related rentals or purchases for three months ago, adjusted for business.	171	NUM(6)
QADN_R1X		177	CHAR(1)
QADNTR2X	Total expense for non-telephone related rentals or purchases for two months ago, adjusted for business.	178	NUM(6)
QADN_R2X		184	CHAR(1)
QADNTR3X	Total expense for non-telephone related rentals or purchases for one month ago, adjusted for business.	185	NUM(6)
QADN_R3X		191	CHAR(1)
TELRES1X	Total expense for residential service for three months ago, adjusted for business.	192	NUM(6)
TELR_S1X		198	CHAR(1)
TELRES2X	Total expense for residential service for two months ago, adjusted for business.	199	NUM(6)
TELR_S2X		205	CHAR(1)
TELRES3X	Total expense for residential service for one month ago, adjusted for business.	206	NUM(6)
TELR_S3X		212	CHAR(1)



TELCEL1X	Total expense for mobile/cellular service for three months ago, adjusted for business.	213	NUM(6)
TELC_L1X		219	CHAR(1)
TELCEL2X	Total expense for mobile/cellular service for two months ago, adjusted for business.	220	NUM(6)
TELC_L2X		226	CHAR(1)
TELCEL3X	Total expense for mobile/cellular service for one month ago, adjusted for business.	227	NUM(6)
TELC_L3X		233	CHAR(1)

## 9. UTP file

### Variable Additions

Variable name	Description	Start Position	Format
PRPYCELL	Since the first of the reference month, have you had any expenses for prepaid cellular minutes?  1 = Yes 2 = No	35	CHAR(1)
PRPY_ELL		36	CHAR(1)
QPRP3MCX	Reference period total for prepaid cellular minutes minus the current month.	37	NUM(6)
QPRP_MCX		43	CHAR(1)

## 10. UTI file

### Variable Content Changes

Variable name	Description
INTSERV	Codes changed from: 100 – Cable or satellite TV or satellite radio services  Codes changed to: 100 – Cable or satellite TV services 700 – Satellite radio services
INTMO	Wording changed from: 13 – continuous expense  Wording changed to: 13 – same amount each month
INTCHGX	Wording changed from: Amount of the expense  Wording changed to: Amount of the monthly expense
INTSRV1 – INTSRV9	Codes changed from: 100 – Cable or satellite TV or satellite radio services  Codes changed to: 100 – Cable or satellite TV services 700 – Satellite radio services

## 11. UTC file

Variable Deletions

Beginning in 2007Q2, the following variables will be deleted:

Variable name	Start Position	Format
QADFULX	52	NUM(6)
QADFULX_	58	CHAR(1)
BILLMO	30	CHAR(2)
BILLMO_	32	CHAR(1)

Variable Additions

Variable name	Description	Start Position	Format
QADFUL1X	Amount of bill for the utility/fuel for three months ago (adjusted for business expenses)	99	NUM(6)
QADF_L1X		105	CHAR(1)
QADFUL2X	Amount of bill for the utility/fuel for two months ago (adjusted for business expenses)	106	NUM(6)
QADF_L2X		112	CHAR(1)
QADFUL3X	Amount of bill for the utility/fuel for one month ago (adjusted for business expenses)	113	NUM(6)
QADF_L3X		119	CHAR(1)

Variable Content Changes

Variable name	Description
WHATPROP	Deleted codes: 97 – Rented sample unit 98 – Other rental unit 99 – Property not owned or rented by CU  New codes: 40 – Rented sample unit 41 – Other rental unit 42 – Rented vacation property 43 – Property not owned or rented by CU
BLPERIOD	Codes changed from: 4 – Other, specify  Codes changed to: 4 – Annual 5 – Other, specify
UTLPTYPE	New codes: 6 – Rental vacation property

**12. UTB file**

This entire section has been deleted. Utility expenditures for vacation properties are now in the UTC file, using the variable WHATPROP code = 42 to identify that it is a vacation property.

Variable Deletions

Beginning in 2007Q2, the following variables will be deleted:

Variable name	Start Position	Format
VACUTLY	21	CHAR(3)
VACUTLY_	24	CHAR(1)
VACUTMO	25	CHAR(2)
VACUTMO_	27	CHAR(1)
VACUTLX	28	NUM(6)
VACUTLX_	34	CHAR(1)
VACUTL1	35	CHAR(3)
VACUTL1_	38	CHAR(1)
VACUTL2	39	CHAR(3)
VACUTL2_	42	CHAR(1)
VACUTL3	43	CHAR(3)
VACUTL3_	46	CHAR(1)
VACUTL4	47	CHAR(3)
VACUTL4_	50	CHAR(1)
VACUTL5	51	CHAR(3)
VACUTL5_	54	CHAR(1)
VACUTL6	55	CHAR(3)
VACUTL6_	58	CHAR(1)
VACUTL7	59	CHAR(3)
VACUTL7_	62	CHAR(1)
VACUTL8	63	CHAR(3)
VACUTL8_	66	CHAR(1)
VACUTL9	67	CHAR(3)
VACUTL9_	70	CHAR(1)

### 13. CRA file

#### Variable Content Changes

Variable name	Description
CRMCODEA	<p>Wording changed from: 150 – Building outdoor patios, walks, fences or other enclosures, driveways, or permanent swimming pools</p> <p>Wording changed to: 150 – Building outdoor patios, walks, fences or other enclosures, driveways, permanent swimming pools, or hot tubs</p>

### 14. CRB file

#### Variable Deletions

Beginning in 2007Q1, the following variables will be deleted:

Variable name	Start Position	Format
QADLABX	64	NUM(8)
QADLABX_	72	CHAR(1)
QADLAB3X	73	NUM(8)
QADL_B3X	81	CHAR(1)
QADLAB2X	82	NUM(8)

QADL_B2X	90	CHAR(1)
QADLAB1X	91	NUM(8)
QADL_B1X	99	CHAR(1)

Variable Additions

Beginning in 2007Q1 the following variables will be added:

Variable name	Description	Start Position	Format
CONTRACT	Did you do all the work yourself or did you pay someone or contract with a builder to do all or part of the work? 1 – Self only 2 – Contracted out 3 – Both	274	CHAR(1)
CONT_ACT		275	CHAR(1)
JLABOR1X	Contractor's cost excluding kitchen, laundry and cooling equipment in the month, one month ago (adjusted for business and reimbursements)	276	NUM(8)
JLAB_R1X		284	CHAR(1)
JLABOR2X	Contractor's cost excluding kitchen, laundry and cooling equipment in the month, two months ago (adjusted for business and reimbursements)	285	NUM(8)
JLAB_R2X		293	CHAR(1)
JLABOR3X	Contractor's cost excluding kitchen, laundry and cooling equipment in the month, three months ago (adjusted for business and reimbursements)	294	NUM(8)
JLAB_R3X		302	CHAR(1)

Variable Content Changes

Variable name	Description
CRMCODEB	Wording changed from: 150 – Building outdoor patios, walks, fences or other enclosures, driveways, or permanent swimming pools  Wording changed to: 150 – Building outdoor patios, walks, fences or other enclosures, driveways, permanent swimming pools, or hot tubs
APPCDE1 – APPCDE9	Codes deleted: 110 – Gas stove, range, or oven 130 – Other cooking stove, range, or oven 150 – Home freezer  New code definitions: 100 – Cooking stove, range, or oven 140 – Refrigerator or home freezer

**15. APA file**

Variable Content Changes

Variable name	Description
MAJAPPLY	Codes deleted: 110 – Gas stove, range, or oven 130 – Other stove, range, or oven 150 – Home freezer  New code definitions: 100 – Cooking stove, range, or oven 140 – Refrigerator or home freezer
MJAPPL1 – MJAPPL9	Codes deleted: 110 – Gas stove, range, or oven 130 – Other stove, range, or oven 150 – Home freezer  New code definitions: 100 – Cooking stove, range, or oven 140 – Refrigerator or home freezer
MAJPURX	Wording changed from: What was the purchase price after any trade-in allowance?  Wording changed to: What was the purchase price?
MAJINSTX	Wording changed from: How much were any extra charges for installation?  Wording changed to: How much were any extra charges for installation or delivery? (includes charges for disposal of old appliances)

## 16. APB file

### Variable Additions

Variable name	Description	Start Position	Format
INSTLSCR	Were there any additional charges for installation, set-up, or delivery? (only asked for codes 365, 430, 440, 640, 670)  1 – Yes 2 – No	80	CHAR(1)
INST_SCR		81	CHAR(1)

### Variable Content Changes

Variable name	Description
MINAPPLY	Code definitions changed from: 390 – VCRs, video cameras, DVD players, camcorders 450 – Pianos, organs, or keyboards 670 – Satellite dishes  Code definitions changed to: 390 – DVD players, VCRs, digital video recorders (DVRs), or video cameras

	<p>450 – Musical instruments, supplies, and accessories 670 – Satellite dishes, receivers, or accessories</p> <p>Deleted code: 460 – Other musical instruments, supplies, and accessories (codes 450 and 460 were combined and these expenditures are now collected in code 450)</p> <p>New code: 700 – Video and computer game hardware, software, game boy, and accessories (these expenditures were previously collected in Section 19A)</p>
MNAPPL1 – MNAPPL9	<p>Code definitions changed from: 390 – VCRs, video cameras, DVD players, camcorders 450 – Pianos, organs, or keyboards 670 – Satellite dishes</p> <p>Code definitions changed to: 390 – DVD players, VCRs, digital video recorders (DVRs), or video cameras 450 – Musical instruments, supplies, and accessories 670 – Satellite dishes, receivers, or accessories</p> <p>Deleted code: 460 – Other musical instruments, supplies, and accessories (codes 450 and 460 were combined and these expenditures are now collected in code 450)</p> <p>New code: 700 – Video and computer game hardware, software, game boy, and accessories (these expenditures were previously collected in Section 19A)</p>

## 17. EQB file

### Variable Content Changes

Variable name	Description
RPAIRTYP	<p>Wording changed from: 1 – Equipment repair 2 – Service contract</p> <p>Wording changed to: 1 – Item repair 2 – Service contract</p>
APPRPRYB	<p>Wording changed from: Equipment repair or service contract code</p> <p>Wording changed to: Household item repair or service contract code</p>

## 18. FRA file

### Variable Content Changes

Variable name	Description
FURNPURY	<p>Deleted code: 170 – Clocks (these will now be collected in code 173)</p> <p>Wording changed from: 103 – Modular wall units, shelves, or cabinets 141 – Outdoor equipment 180 – Storage items</p> <p>Wording changed to: 103 – Wall units, shelves, or cabinets 141 – Barbeque grills or outdoor decorative items 180 – Closet storage items</p>
FRNPRY1 – FRNPRY9	<p>Deleted code: 170 – Clocks (these will now be collected in code 173)</p> <p>Wording changed from: 103 – Modular wall units, shelves, or cabinets 141 – Outdoor equipment 180 – Storage items</p> <p>Wording changed to: 103 – Wall units, shelves, or cabinets 141 – Barbeque grills or outdoor decorative items 180 – Closet storage items</p>

## 19. CLA file

### Variable Content Changes

Variable name	Description
CLOTHYA	<p>Deleted code: 160 – Shorts and short sets (now included in code 150)</p> <p>Wording changed from: 150 – Pants, slacks, or jeans 240 – Active sportswear</p> <p>Wording changed to: 150 – Pants, jeans, or shorts 240 – Swimsuits, or warm-up or ski suits</p>
CLOTHA1 – CLOTHA9	<p>Deleted code: 160 – Shorts and short sets (now included in code 150)</p> <p>Wording changed from: 150 – Pants, slacks, or jeans 240 – Active sportswear</p> <p>Wording changed to: 150 – Pants, jeans, or shorts 240 – Swimsuits, or warm-up or ski suits</p>

## 20. CLD file

### Variable Content Changes

Variable name	Description
CLOTHYD	Wording changed from: 490 – Clothing storage  Wording changed to: 490 – Clothing storage outside the home
CLOTHD1 – CLOTHD9	Wording changed from: 490 – Clothing storage  Wording changed to: 490 – Clothing storage outside the home

## 21. RLV file

### Variable Content Changes

Variable name	Description
RENTCODE	Wording changed from: 120 – Motorized camper-coach  Wording changed to: 120 – Motor home

## 22. OVB file

### Variable Deletions

Beginning in 2007Q2, the following variables will be deleted:

Variable name	Start Position	Format
FIN_INST	105	CHAR(1)
FIN__NST	106	CHAR(1)
PMTPERD	132	CHAR(1)
PMTPERD_	133	CHAR(1)
EXTRCHGX	134	NUM(6)
EXTR_HGX	140	CHAR(1)

### Variable Content Changes

Variable name	Description
VEHICYB	Wording changed from: 120 – Motorized camper-coach  Wording changed to: 120 – Motor home
NETPURX	Wording changed from: Net purchase price after discount, trade-in allowance, or rebate.  Wording changed to: Net purchase price after discount, trade-in allowance, or rebate, including destination fee.
VEHQPMT	Wording changed from:



	What was the number of payments contracted for?  Wording changed to: For how many months was the payment contracted?
PAYMENTX	Wording changed from: What is the amount of each payment?  Wording changed to: What is the monthly payment amount?

### 23. OVC file

#### Variable Content Changes

Variable name	Description
VEHICYC	Wording changed from: 120 – Motorized camper-coach  Wording changed to: 120 – Motor home

### 24. INB file

#### Variable Deletions

Beginning in 2007Q2, the following variables will be deleted:

Variable name	Start Position	Format
PREMPERD	52	CHAR(1)
PREM_ERD	53	CHAR(1)

#### Variable Content Changes

Variable name	Description
POLICYYYB	Wording changed from: 400 – Tenant’s insurance  Wording changed to: 400 – Renter’s insurance
INSCMB1 – INSCMB9	Wording changed from: 400 – Tenant’s insurance  Wording changed to: 400 – Renter’s insurance

### 25. IHD file

#### Variable Additions

Variable name	Description	Start Position	Format
PREMCHG	Is the premium the same?  1 – Yes 2 – No	51	CHAR(1)
PREMCHG_		52	CHAR(1)

PREMCHGX	What is the new premium amount for the Medicare prescription drug plan?	53	NUM(3)
PREM_HGX		56	CHAR(1)

## 26. MDB file

### Variable Content Changes

Variable name	Description
MEDPMTMO	Wording changed from: 13 – Continuous expense (monthly expense reported)  Wording changed to: 13 – Same amount each month
MEDPCARY	Wording changed from: 410 – Services by medical professionals other than physicians 530 – Other medical care  Wording changed to: 410 – Services by medical professionals other than physicians, both inside and outside the home 530 – Other medical care and services
MEDPCY1 – MEDPCY9	Wording changed from: 410 – Services by medical professionals other than physicians 530 – Other medical care  Wording changed to: 410 – Services by medical professionals other than physicians, both inside and outside the home 530 – Other medical care and services

## 27. MDC file

### Variable Content Changes

Variable name	Description
MEDRCARY	Wording changed from: 410 – Services by medical professionals other than physicians 530 – Other medical care  Wording changed to: 410 – Services by medical professionals other than physicians, both inside and outside the home 530 – Other medical care and services
MEDRCY1 – MEDRCY9	Wording changed from: 410 – Services by medical professionals other than physicians 530 – Other medical care  Wording changed to: 410 – Services by medical professionals other than physicians, both inside and outside the home 530 – Other medical care and services

## 28. EDA file

Variable Content Changes

Variable name	Description
EDSCHL_A	Codes changed from: 5 – Other school  Codes changed to: 5 – Vocational or technical school 6 – Other school
EDMONTHA	Wording changed from: 13 – Continuous expense (monthly expense reported)  Wording changed to: 13 – Same amount each month

**29. SUB file**

Variable Content Changes

Variable name	Description
S17CODEA	Wording changed from: 910 – Global Positioning Services (GPS), such as OnStar  Wording changed to: 910 – Services that use Global Positioning System (GPS), such as OnStar, not already reported  New Code: 950 – Vacation clubs

**30. TRV file**

Variable Deletions

Beginning in 2007Q2, the following variables will be deleted:

Variable name	Start Position	Format
PVLEASEY	85	CHAR(2)
PVLE_SEY	87	CHAR(2)
PVOTHERY	88	CHAR(2)
PVOT_ERY	90	CHAR(1)
FOODOUTS	283	CHAR(1)
FOOD_UTS	284	CHAR(1)
LODGOUTS	285	CHAR(1)
LODG_UTS	286	CHAR(1)
TRANOUTS	287	CHAR(1)
TRAN_UTS	288	CHAR(1)
ELSEOUTS	289	CHAR(1)
ELSE_UTS	290	CHAR(1)

Variable Content Changes

Variable name	Description
PVCARY	Wording changed from:

	<p>13 – Car owned by CU</p> <p>Wording changed to: 13 – Automobile or other vehicles privately owned or leased by CU</p>
RTCARY	<p>Wording changed from: 06 – Rented car or jeep</p> <p>Wording changed to: 06 – Rented automobile</p>
GASOILX	<p>Wording changed from: How much did you spend for gasoline, oil, diesel fuel, or any other fuels?</p> <p>Wording changed to: How much did you spend for gasoline or diesel fuel?</p>

### 31. MIS file

#### Variable Content Changes

Variable name	Description
MISCMO	<p>Wording changed from: 13 – Continuous expense (monthly expense reported)</p> <p>Wording changed to: 13 – Same amount each month</p>
MISCCODE	<p>Code deleted: 290 – Video or computer hardware, software, game boys, or accessories (this was moved to Section 6B)</p> <p>Code changed from: 130 – Catered affairs</p> <p>Code changed to: 130 – Food and beverage for catered affairs</p> <p>Codes added: 410 – Live entertainment 420 – Rental of party supplies 435 Combined food and beverages for catered affairs/live entertainment/rental of party supplies (130, 410, 420)</p>
MISCDE1 – MISCDE9	<p>Code deleted: 290 – Video or computer hardware, software, game boys, or accessories (this was moved to Section 6B)</p> <p>Code changed from: 130 – Catered affairs</p> <p>Code changed to: 130 – Food and beverage for catered affairs</p> <p>Codes added: 410 – Live entertainment 420 – Rental of party supplies 435 Combined food and beverages for catered affairs/live</p>

	entertainment/rental of party supplies (130, 410, 420)
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### 32. CNT file

#### Variable Content Changes

Variable name	Description
CONTMO	Wording changed from: 13 – Continuous expense (monthly expense reported)  Wording changed to: 13 – Same amount each month

### 33. VOT file

#### Variable Deletions

Beginning in 2007Q2, the following variables will be deleted:

Variable name	Start Position	Format
QBSNSEPZ	58	NUM(4.2)
QBSN_EPZ	62	CHAR(1)

### 33. XPA file

#### Variable Deletions

Beginning in 2007Q2, the following variables will be deleted:

Variable name	Start Position	Format
JBRWINQV	48	NUM(8)
JBRW_NQV	56	CHAR(1)
JOTHALQV	57	NUM(8)
JOTH_LQV	65	CHAR(1)

## III. FILE INFORMATION

The microdata on CD-ROM are provided as SAS data sets or ASCII text files. The 2007 Interview release contains five groups of Interview data files (FMLY, MEMB, MTAB, ITAB, and ITAB\_IMPUTE), 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 2007 through the first quarter of 2008. 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. Each of the 51 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 and model 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 51 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
*UTB Section 4, Part E D(Y072)	Utilities and Fuels for Owned and Rented Properties – Detailed Questions for Vacation Properties
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.)

\INTRVW07\FMLYI071x.TXT (Interview FMLY file for first quarter, 2007)  
 \INTRVW07\MEMBI071x.TXT (Interview MEMB file for first quarter, 2007)  
 \INTRVW07\MTABI071x.TXT (Interview MTAB file for first quarter, 2007)  
 \INTRVW07\ITABI071x.TXT (Interview ITAB file for first quarter, 2007)  
 \INTRVW07\ITBII071x.TXT (Interview ITAB\_Imputed file for first quarter, 2007)  
 \INTRVW07\FMLYI072.TXT (etc.)  
 \INTRVW07\MEMBI072.TXT  
 \INTRVW07\MTABI072.TXT  
 \INTRVW07\ITABI072.TXT  
 \INTRVW07\ITBII072.TXT  
 \INTRVW07\FMLYI073.TXT  
 \INTRVW07\MEMBI073.TXT  
 \INTRVW07\MTABI073.TXT  
 \INTRVW07\ITABI073.TXT  
 \INTRVW07\ITBII073.TXT  
 \INTRVW07\FMLYI074.TXT  
 \INTRVW07\MEMBI074.TXT  
 \INTRVW07\MTABI074.TXT  
 \INTRVW07\ITABI074.TXT  
 \INTRVW07\ITBII074.TXT  
 \INTRVW07\FMLYI081.TXT  
 \INTRVW07\MEMBI081.TXT  
 \INTRVW07\MTABI081.TXT  
 \INTRVW07\ITABI081.TXT  
 \INTRVW07\ITBII081.TXT  
 \INTRVW07\UCCI07.TXT



\INTRVW07\VEHI07.TXT  
\EXPNO7\APL07.TXT  
\EXPNO7\RNT07.TXT  
\EXPNO7\OPB07.TXT  
\EXPNO7\OPD07.TXT  
\EXPNO7\MOR07.TXT  
\EXPNO7\HEL07.TXT  
\EXPNO7\OPH07.TXT  
\EXPNO7\OPI07.TXT  
\EXPNO7\UTA07.TXT  
\EXPNO7\UTP07.TXT  
\EXPNO7\UTI07.TXT  
\EXPNO7\UTC07.TXT  
\EXPNO7\UTB07.TXT  
\EXPNO7\CRA07.TXT  
\EXPNO7\CRB07.TXT  
\EXPNO7\APA07.TXT  
\EXPNO7\APB07.TXT  
\EXPNO7\EQB07.TXT  
\EXPNO7\FRA07.TXT  
\EXPNO7\FRB07.TXT  
\EXPNO7\CLA07.TXT  
\EXPNO7\CLB07.TXT  
\EXPNO7\CLD07.TXT  
\EXPNO7\CLC07.TXT  
\EXPNO7\RTV07.TXT  
\EXPNO7\LSD07.TXT  
\EXPNO7\OVB07.TXT  
\EXPNO7\OVC07.TXT  
\EXPNO7\VEQ07.TXT  
\EXPNO7\VLR07.TXT  
\EXPNO7\VOT07.TXT  
\EXPNO7\INB07.TXT  
\EXPNO7\IHB07.TXT  
\EXPNO7\IHC07.TXT  
\EXPNO7\IHD07.TXT  
\EXPNO7\MDB07.TXT  
\EXPNO7\MDC07.TXT  
\EXPNO7\EDA07.TXT  
\EXPNO7\SUB07.TXT  
\EXPNO7\ENT07.TXT  
\EXPNO7\TRD07.TXT  
\EXPNO7\TRV07.TXT  
\EXPNO7\TRE07.TXT  
\EXPNO7\TRF07.TXT  
\EXPNO7\MIS07.TXT  
\EXPNO7\CNT07.TXT  
\EXPNO7\XPA07.TXT  
\EXPNO7\XPB07.TXT  
\EXPNO7\FN207.TXT  
\EXPNO7\FNA07.TXT  
\EXPNO7\FNB07.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

\\INTRVW07\FMLI071x.sas7bdat (Interview FMLY file for first quarter, 2007)  
\\INTRVW07\MEMIO71x.sas7bdat (Interview MEMB file for first quarter, 2007)  
\\INTRVW07\MTBI071x.sas7bdat (Interview MTAB file for first quarter, 2007)  
\\INTRVW07\ITBI071x.sas7bdat (Interview ITAB file for first quarter, 2007)  
\\INTRVW07\ITII071x.sas7bdat (Interview ITBI\_IMPUTED file for first quarter, 2007)  
\\INTRVW07\FMLI072.sas7bdat (etc.)  
\\INTRVW07\MEMIO72.sas7bdat  
\\INTRVW07\MTBI072.sas7bdat  
\\INTRVW07\ITBI072.sas7bdat  
\\INTRVW07\ITII072.sas7bdat  
\\INTRVW07\FMLI073.sas7bdat  
\\INTRVW07\MEMIO73.sas7bdat  
\\INTRVW07\MTBI073.sas7bdat  
\\INTRVW07\ITBI073.sas7bdat  
\\INTRVW07\ITII073.sas7bdat  
\\INTRVW07\FMLI074.sas7bdat  
\\INTRVW07\MEMIO74.sas7bdat  
\\INTRVW07\MTBI074.sas7bdat  
\\INTRVW07\ITBI074.sas7bdat  
\\INTRVW07\ITII074.sas7bdat  
\\INTRVW07\FMLI081.sas7bdat  
\\INTRVW07\MEMIO81.sas7bdat  
\\INTRVW07\MTBI081.sas7bdat  
\\INTRVW07\ITBI081.sas7bdat  
\\INTRVW07\ITII081.sas7bdat  
\\INTRVW07\UCCI07.txt  
\\INTRVW07\VEHI07.txt  
\\EXPNO7\APL07.sas7bdat  
\\EXPNO7\RNT07.sas7bdat  
\\EXPNO7\OPB07.sas7bdat  
\\EXPNO7\OPD07.sas7bdat  
\\EXPNO7\MOR07.sas7bdat  
\\EXPNO7\HEL07.sas7bdat  
\\EXPNO7\OPH07.sas7bdat  
\\EXPNO7\OPI07.sas7bdat  
\\EXPNO7\UTA07.sas7bdat  
\\EXPNO7\UTP07.sas7bdat  
\\EXPNO7\UTI07.sas7bdat  
\\EXPNO7\UTC07.sas7bdat  
\\EXPNO7\UTB07.sas7bdat  
\\EXPNO7\CRA07.sas7bdat  
\\EXPNO7\CRB07.sas7bdat  
\\EXPNO7\APA07.sas7bdat  
\\EXPNO7\APB07.sas7bdat  
\\EXPNO7\EQB06.sas7bdat  
\\EXPNO7\FRA07.sas7bdat  
\\EXPNO7\FRB07.sas7bdat  
\\EXPNO7\CLA07.sas7bdat  
\\EXPNO7\CLB07.sas7bdat

```

\EXPN07\CLD07.sas7bdat
\EXPN07\CLC07.sas7bdat
\EXPN07\RTV07.sas7bdat
\EXPN07\LSD07.sas7bdat
\EXPN07\OVB07.sas7bdat
\EXPN07\OVC07.sas7bdat
\EXPN07\VEQ07.sas7bdat
\EXPN07\VLR07.sas7bdat
\EXPN07\VOT07.sas7bdat
\EXPN07\INB07.sas7bdat
\EXPN07\IHB07.sas7bdat
\EXPN07\IHC07.sas7bdat
\EXPN07\IHD07.sas7bdat
\EXPN07\MDB07.sas7bdat
\EXPN07\MDC07.sas7bdat
\EXPN07\EDA07.sas7bdat
\EXPN07\SUB07.sas7bdat
\EXPN07\ENT07.sas7bdat
\EXPN07\TRD07.sas7bdat
\EXPN07\TRV07.sas7bdat
\EXPN07\TRE07.sas7bdat
\EXPN07\TRF07.sas7bdat
\EXPN07\MIS07.sas7bdat
\EXPN07\CNT07.sas7bdat
\EXPN07\XPA07.sas7bdat
\EXPN07\XPB07.sas7bdat
\EXPN07\FN207.sas7bdat
\EXPN07\FNA07.sas7bdat
\EXPN07\FNB07.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>LRECL</u>	<u>Record Counts</u>
FMLYI071X.TXT	FMLI071X.SAS7BDAT	6198	6965
FMLYI072.TXT	FMLI072.SAS7BDAT	6217	6829
FMLYI073.TXT	FMLI073.SAS7BDAT	6217	6711
FMLYI074.TXT	FMLI074.SAS7BDAT	6217	6830
FMLYI081.TXT	FMLI081.SAS7BDAT	6217	6914
MEMBI071X.TXT	MEMI071X.SAS7BDAT	787	17745
MEMBI072.TXT	MEMI072.SAS7BDAT	787	17331
MEMBI073.TXT	MEMI073.SAS7BDAT	787	17096
MEMBI074.TXT	MEMI074.SAS7BDAT	787	17292
MEMBI081.TXT	MEMI081.SAS7BDAT	787	17427
MTABI071X.TXT	MTBI071X.SAS7BDAT	35	583938
MTABI072.TXT	MTBI072.SAS7BDAT	35	544034
MTABI073.TXT	MTBI073.SAS7BDAT	35	537768

<u>ASCII data set</u>	<u>SAS data set</u>	<u>LRECL</u>	<u>Record Counts</u>
MTABI074.TXT	MTBI074.SAS7BDAT	35	544456
MTABI081.TXT	MTBI081.SAS7BDAT	35	572642
ITABI071X.TXT	ITBI071X.SAS7BDAT	34	389463
ITABI072.TXT	ITBI072.SAS7BDAT	34	384099
ITABI073.TXT	ITBI073.SAS7BDAT	34	375336
ITABI074.TXT	ITBI074.SAS7BDAT	34	379947
ITABI081.TXT	ITBI081.SAS7BDAT	34	386067
ITBII071x.TXT	ITII071x.SAS7BDAT	35	537408
ITBII072.TXT	ITII072.SAS7BDAT	35	525660
ITBII073.TXT	ITII073.SAS7BDAT	35	513804
ITBII074.TXT	ITII074.SAS7BDAT	35	520608
ITBII081.TXT	ITII081.SAS7BDAT	35	529347
<u>EXPN</u>			
APL07.TXT	APL07.SAS7BDAT	40	312667
RNT07.TXT	RNT07.SAS7BDAT	94	11588
OPB07.TXT	OPB07.SAS7BDAT	114	27297
OPD07.TXT	OPD07.SAS7BDAT	64	167
MOR07.TXT	MOR07.SAS7BDAT	231	17253
HEL07.TXT	HEL07.SAS7BDAT	231	1453
OPH07.TXT	OPH07.SAS7BDAT	75	2604
OPI07.TXT	OPI07.SAS7BDAT	293	40111
UTA07.TXT	UTA07.SAS7BDAT	233	67587
UTP07.TXT	UTP07.SAS7BDAT	43	2821
UTI07.TXT	UTI07.SAS7BDAT	72	52340
UTB07.TXT	UTB07.SAS7BDAT	70	224
UTC07.TXT	UTC07.SAS7BDAT	119	146387
CRA07.TXT	CRA07.SAS7BDAT	74	1000
CRB07.TXT	CRB07.SAS7BDAT	302	10889
APA07.TXT	APA07.SAS7BDAT	88	3338
APB07.TXT	APB07.SAS7BDAT	81	32012
EQB07.TXT	EQB07.SAS7BDAT	72	4236
FRA07.TXT	FRA07.SAS7BDAT	72	31552
FRB07.TXT	FRB07.SAS7BDAT	41	137
CLA07.TXT	CLA07.SAS7BDAT	79	150781
CLB07.TXT	CLB07.SAS7BDAT	79	20398
CLD07.TXT	CLD07.SAS7BDAT	72	2868
CLC07.TXT	CLC07.SAS7BDAT	72	2580
RTV07.TXT	RTV07.SAS7BDAT	48	949
LSD07.TXT	LSD07.SAS7BDAT	211	1809
OVB07.TXT	OVB07.SAS7BDAT	323	63379
OVC07.TXT	OVC07.SAS7BDAT	62	2319
VEQ07.TXT	VEQ07.SAS7BDAT	94	39868
VLR07.TXT	VLR07.SAS7BDAT	49	11705
VOT07.TXT	VOT07.SAS7BDAT	101	34246
INB07.TXT	INB07.SAS7BDAT	160	78758

<u>ASCII data set</u>	<u>SAS data set</u>	<u>LRECL</u>	<u>Record Counts</u>
IHB07.TXT	IHB07.SAS7BDAT	55	32068
IHC07.TXT	IHC07.SAS7BDAT	152	11998
IHD07.TXT	IHD07.SAS7BDAT	56	4627
MDB07.TXT	MDB07.SAS7BDAT	74	62293
MDC07.TXT	MDC07.SAS7BDAT	74	1409
EDA07.TXT	EDA07.SAS7BDAT	86	17602
SUB07.TXT	SUB07.SAS7BDAT	35	19338
ENT07.TXT	ENT07.SAS7BDAT	146	21362
TRD07.TXT	TRD07.SAS7BDAT	36	5065
TRV07.TXT	TRV07.SAS7BDAT	315	13874
TRE07.TXT	TRE07.SAS7BDAT	36	3830
TRF07.TXT	TRF07.SAS7BDAT	85	293
MIS07.TXT	MIS07.SAS7BDAT	72	59053
CNT07.TXT	CNT07.SAS7BDAT	36	36655
XPA07.TXT	XPA07.SAS7BDAT	130	34245
XPB07.TXT	XPB07.SAS7BDAT	189	34247
FN207.TXT	FN207.SAS7BDAT	33	25836
FNA07.TXT	FNA07.SAS7BDAT	42	6325
FNB07.TXT	FNB07.SAS7BDAT	104	8647

## **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(Y072) indicates the variable is deleted starting with the data file of the second quarter of 2007.

\*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 (EXPAN)

Expenditures on the EXPAN 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 EXPAN file record, can be interpreted as follows:

### CODED

- 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.

All of the summary level variables are BLS derived. The composition of each summary expenditure variable is given below the variable description. An underlined UCC represents either a new UCC or a deleted UCC. Please note that new UCCs may not be represented in all quarters. The quarter in which the addition (deletion) to the summary expenditure variable occurs is denoted by a leading superscript directly prior to the UCC code. For example, <sup>N071</sup><UCC> or <sup>D071</sup><UCC> identifies an addition or deletion of a given UCC to the summary expenditure variable beginning in Q071.

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 2007Q1 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. 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 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.

**7. PROCESSING FILES**

**a. Istub file**

X:\Programs\Istub2006.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.		

**b. UCC file**

X:\INTRVW06\UCCI06.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	8	CHAR(50)

(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).)

**c. 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:\INTRVW07\CAPIVEHI07.TXT

CAPIVEHI07.TXT is formatted as follows

<b>DESCRIPTION</b>	<b>START POSITION</b>	<b>FORMAT</b>
Make code	1	CHAR(3)
Make of vehicle	5	CHAR(32)

**d. Sample program file**

X:\Programs\Intrvw Mean and SE.sas

X:\Programs\Intrvw Sumvars.sas

X:\Programs\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.

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	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
ALIOTHX	Other regular contributions including alimony	46,296	NA	85,112	NA
ALIOTHXM	Amount received from other regular contributions including alimony	46,296	NA	67,067	NA
BSINVSTX	Investments to farm or business	125,000	NA	744,333	NA
CHDLMPX	Lump sum child support payment	13,000	NA	36,400	NA
CHDOTHX	Child support payments	17,000	NA	25,764	NA
CHDOTHXM	Amount received from other child support payments	17,000	NA	22,336	NA
CKBKACTX	Market value of all checking accounts	30,000	NA	203,457	NA
COMPBNDX	Change in U.S. savings bonds	5,000	-15,000	16,435	-27,667
COMPCKGX	Change in checking account	30,000	-17,000	137,040	-58,573
COMPOWDX	Change in money owed to consumer unit	76,000	-10,000	139,250	-12,460
COMPSAVX	Change in savings account	50,000	-58,000	116,563	-127,288
COMPSECX	Difference in estimated market value of all stocks, bonds, or mutual funds including broker fees	391,000	-225,000	753,163	-633,333
FEDRFNDX	Federal income tax refunds	7,500	NA	11,544	NA
FEDTAXX	Additional federal income tax paid (new UCC Q20062)	34,839	NA	116,790	NA
FININCX	Dividends, royalties, estates, trusts	76,428	NA	136,434	NA
FININCXM	Amount received from regular income from dividends, royalties, estates or trusts	76,428	NA	97,973	NA
INCLOSAM	Amount of net income or loss received from roomers or boarders	40,000	-12,800	57,476	-18,645
INCLOSBM	Amount of net income or loss received from other rental units	55,000	-12,000	51,295	173
INCLOSSA	Roomer and boarder income	40,000	-12,800	71,965	-30,600
INCLOSSB	Other rental income	55,000	-12,000	120,583	-27,351
INSRFNDX	Refunds from insurance policies	2,000	NA	7,612	NA
INTEARNM	Amount received from interest on savings accounts or bonds	35,000	NA	80,272	NA
INTEARNX	Interest	35,000	NA	86,075	NA
LUMPSUMX	Lump sum receipts	140,000	NA	349,738	NA
MISCTAXX	Other taxes	8,973	NA	15,649	NA
MONYOWDX	Amount of money owed to CU by persons outside CU	90,000	NA	178,099	NA
OTHRFNDX	Other tax refunds	3,400	NA	14,163	NA
OTHRINCM	Amount received from other money income	25,000	NA	30,681	NA
OTHRINCX	Other income	25,000	NA	76,667	NA
PENSIONM	Amount received from pensions or annuities	70,668	NA	76,807	NA
PENSIONX	Pensions and annuities	70,668	NA	107,466	NA
PTAXRFDX	Refunds from property taxes	2,000	NA	3,088	NA

Variable	Description	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
PURSEEX	Purchase price of stocks, bonds or mutual funds including broker fees	300,000	NA	596,672	NA
RENTEQVX	Rental equivalence of owned home	3,000	NA	5,542	NA
SALEINCX	Money from sale of household furnishings, etc.	10,000	NA	170,492	NA
SAVACCTX	Market value of all savings accounts	132,000	NA	527,747	NA
SECESTX	Market value of all securities	1,500,000	NA	3,809,027	NA
SELLSEEX	Sale price of stocks, bonds, and mutual funds, net	340,000	NA	466,307	NA
SETLINSX	Change in surrender of insurance policies	54,000	NA	70,333	NA
SLOCTAXX	Additional state and local income tax paid (new UCC Q20062)	8,749	NA	20,849	NA
SLRFUNDX	State and local income tax refunds	2,000	NA	4,263	NA
SSOVERPX	Refund from overpayment on Social Security	2,000	NA	3,267	NA
TAXPROPX	Personal property taxes	1,000	NA	1,957	NA
TYPEPYX	Amount received from reverse mortgage since the first of the month, three months ago	8,000	NA	24,000	NA
USBNDX	Market value of all U.S. savings bonds	35,000	NA	73,421	NA
WDBSASTX	Amount of assets withdrawn from own farm or business	80,000	NA	330,000	NA
WDBSGDSX	Amount of goods or services withdrawn from own farm or business	8,800	NA	214,250	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 \$150,000 (-\$9,999). The topcode value for FARMINCM is \$375,000 (-\$32,597). (See Section IV.B. MEMBER CHARACTERISTICS AND INCOME FILE (MEMB)).

<u>CU</u>	FARMINCM		FFRMINCM		<u>FLAGGED AS TOPCODED?</u>
		<u>REPORTED</u>	<u>AFTER TOPCODING</u>	<u>VALUE</u>	
CU 1:	MEMB1	\$140,000	\$140,000		
	MEMB2	140,000	140,000	280,000	No
CU 2:	MEMB1	270,000	375,000		
	MEMB2	10,000	10,000	485,000	Yes
CU 3	MEMB1	500,000	375,000		
	MEMB2	50,000	50,000	425,000	Yes
CU 4	MEMB1	52,000	52,000		
	MEMB2	-55,000	-32,597	19,403	Yes

While CUs 1 and 2 each originally report \$280,000 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 (\$485,000) is higher than the amount that it reported (\$280,000). 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		
	*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	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
AGE	Age of member	82	NA	87	NA
AMTFED	Amount of Federal income tax deducted from last pay	1,009	NA	2,494	NA
ANFEDTX	Annual amount of Federal income tax deducted from pay	22,400	NA	38,571	NA

<b>Variable</b>	<b>Description</b>	<b>2007 Upper Critical Value</b>	<b>2007 Lower Critical Value</b>	<b>2007 Upper Topcode Value</b>	<b>2007 Lower Topcode Value</b>
ANFEDTXM	Annual amount of Federal income tax deducted from pay	22,400	NA	38,949	NA
ANGOVRTM	Annual amount of government retirement deducted from pay	10,000	NA	12,205	NA
ANGOVRTX	Annual amount of government retirement deducted from pay	10,000	NA	12,205	NA
ANPRVPM	Annual amount of private pension fund deducted from pay	16,875	NA	24,421	NA
ANPRVPMX	Annual amount of private pension fund deducted from pay	16,875	NA	24,336	NA
ANRRDEDM	Annual amount of Railroad Retirement deducted from pay	8,000	NA	12,117	NA
ANRRDEDX	Annual amount of Railroad Retirement deducted from pay	8,000	NA	12,117	NA
ANSLTX	Annual amount of state and local income taxes deducted from pay	7,800	NA	12,861	NA
ANSLTXM	Annual amount of state and local income taxes deducted from pay	7,800	NA	12,866	NA
FARMINCM	Amount of income or loss received from own farm	150,000	-9,999	375,000	-22,386
FARMINCMX	Amount of income or loss received from own farm	150,000	-9,999	375,000	-32,597
GOVRETX	Amount of government retirement deducted from last pay	775	NA	2,047	NA
GROSPAYX	Amount of last gross pay	6,200	NA	19,249	NA
INDRETX	Amount of money placed in individual retirement plan	20,000	NA	55,128	NA
JSSDEDX	Estimated annual Social Security contribution	8,220	NA	11,120	NA
JSSDEDXM	Estimated annual Social Security contribution	8,220	NA	9,122	NA
NONFARMM	Amount of income or loss received from own nonfarm business	150,000	-9,999	170,713	-42,336
NONFARMMX	Amount of income or loss received from own nonfarm business	150,000	-9,999	364,795	-73,432
PRIVPENX	Amount of private pension fund deducted from last pay	1,050	NA	2,612	NA
RRRDEDX	Amount of Railroad Retirement deducted from last pay	400	NA	452	NA
SALARYX	Amount received from wage and salary income before deductions	150,000	NA	305,503	NA
SALARYXM	Amount received from wage and salary income before deductions	150,000	NA	232,840	NA
SLFEMPSM	Amount of self-employment Social Security contribution	15,860	NA	13,149	NA
SLFEMPSS	Amount of self-employment Social Security contribution	15,860	NA	19,522	NA

Variable	Description	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
SLTAXX	Amount of state and local income taxes deducted last pay	360	NA	746	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.

UCC	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
210110	Rent	NA	1,750	NA	2,422	NA
210210	Lodging on out-of-town trips	NA	2,021	NA	3,918	NA
210210	Lodging on out-of-town trips	TOTYUPDY EQ '130'	846	NA	1,545	NA
210210	Lodging on out-of-town trips	TRNONCUY EQ '130'	1,300	NA	1,776	NA
210310	Housing while attending school	EDUC_AY EQ '310' AND EDMONTA EQ '13'	2,064	NA	3,739	NA
210310	Housing while attending school	EDUC_AY EQ '310' AND EDMONTA NE '13'	4,209	NA	5,621	NA
210901	Ground rent	OWNYI EQ '100' OR OWNYI EQ '200'	2,064	NA	9,847	NA
210902	Ground rent	OWNYI EQ '300'	1,500	NA	2,225	NA
220211	Property taxes	OWNYB EQ '100' OR OWNYB EQ '200'	750	NA	1,145	NA
220212	Property taxes	OWNYB EQ '300'	667	NA	1,194	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')	3,333	NA	5,056	NA
220512	Materials and supplies purchased for insulation, dwellings under constr, additions, finishing, remodeling, landscaping, etc.	CRMPTYPE='1' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	10,000	NA	26,721	NA
220512	Materials and supplies purchased for insulation, dwellings under constr, additions, finishing, remodeling, landscaping, etc.	CRMPTYPE='1' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	7,500	NA	9,183	NA
220512	Materials and supplies purchased for insulation, dwellings under constr, additions, finishing, remodeling, landscaping, etc.	CRMPTYPE='1' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	10,000	NA	15,333	NA
220513	Supplies purchased for additions, maintenance and repairs, and new construction	CRMPTYPE='2' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	588	NA	2,450	NA
220513	Supplies purchased for additions, maintenance and repairs, and new construction	CRMPTYPE='2' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	200	NA	3,488	NA

UCC	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
220513	Supplies purchased for additions, maintenance and repairs, and new construction	CRMPTYPE='2' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	1,000	NA	7,933	NA
220611	Capital improvement labor and materials (owned home)	CRMPTYPE='1' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	200	NA	560	NA
220611	Capital improvement labor and materials (owned home)	CRMPTYPE='1' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	150	NA	263	NA
220611	Capital improvement labor and materials (owned home)	CRMPTYPE='1' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	300	NA	1,183	NA
220611	Capital improvement labor and materials (owned home)	CRMPTYPE='1' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	64,000	NA	75,941	NA
220611	Capital improvement labor and materials (owned home)	CRMPTYPE='1' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	50,000	NA	73,172	NA
220611	Capital improvement labor and materials (owned home)	CRMPTYPE='1' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	42,000	NA	81,750	NA
220615	Capital improvement labor and materials (owned vacation)	CRMPTYPE='2' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	NA	NA	NA	NA
220615	Capital improvement labor and materials (owned vacation)	CRMPTYPE='2' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	NA	NA	NA	NA
220615	Capital improvement labor and materials (owned vacation)	CRMPTYPE='2' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	SU	NA	SU	NA
220615	Capital improvement labor and materials (owned vacation)	CRMPTYPE='2' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	14,412	NA	20,050	NA
220615	Capital improvement labor and materials (owned vacation)	CRMPTYPE='2' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	19,000	NA	25,043	NA
220615	Capital improvement labor and materials (owned vacation)	CRMPTYPE='2' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	10,900	NA	23,392	NA
230112	Painting and papering	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	50	NA	291	NA

UCC	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
230112	Painting and papering	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	SU	NA	SU	NA
230112	Painting and papering	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	SU	NA	SU	NA
230112	Painting and papering	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	6,900	NA	12,374	NA
230112	Painting and papering	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	6,800	NA	9,876	NA
230112	Painting and papering	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	7,000	NA	8,297	NA
230113	Plumbing and water heating	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='200'	NA	NA	NA	NA
230113	Plumbing and water heating	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='200'	NA	NA	NA	NA
230113	Plumbing and water heating	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='200'	SU	NA	SU	NA
230113	Plumbing and water heating	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='200'	2,336	NA	4,222	NA
230113	Plumbing and water heating	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='200'	4,975	NA	8,182	NA

UCC	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
230113	Plumbing and water heating	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='200'	4,700	NA	7,114	NA
230114	Heat, a/c, electrical work	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='210'   CRMCODEB='220')	NA	NA	NA	NA
230114	Heat, a/c, electrical work	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='210'   CRMCODEB='220')	NA	NA	NA	NA
230114	Heat, a/c, electrical work	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='210'   CRMCODEB='220')	NA	NA	NA	NA
230114	Heat, a/c, electrical work	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='210'   CRMCODEB='220')	7,500	NA	10,306	NA
230114	Heat, a/c, electrical work	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='210'   CRMCODEB='220')	8,000	NA	9,163	NA
230114	Heat, a/c, electrical work	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='210'   CRMCODEB='220')	5,700	NA	9,820	NA
230115	Roofing and gutters	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='260'	NA	NA	NA	NA
230115	Roofing and gutters	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='260'	SU	NA	SU	NA
230115	Roofing and gutters	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='260'	NA	NA	NA	NA

UCC	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
230115	Roofing and gutters	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='260'	10,000	NA	15,333	NA
230115	Roofing and gutters	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='260'	10,000	NA	13,250	NA
230115	Roofing and gutters	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='260'	12,000	NA	16,500	NA
230121	Repair and replacement of hard surface flooring	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='230'	SU	NA	SU	NA
230121	Repair and replacement of hard surface flooring	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='230'	SU	NA	SU	NA
230121	Repair and replacement of hard surface flooring	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='230'	SU	NA	SU	NA
230121	Repair and replacement of hard surface flooring	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='230'	150	NA	1,472	NA
230121	Repair and replacement of hard surface flooring	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='230'	SU	NA	SU	NA
230121	Repair and replacement of hard surface flooring	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='230'	150	NA	600	NA
230122	Repair and replacement of hard surface flooring	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='230'	33	NA	143	NA
230122	Repair and replacement of hard surface flooring	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='230'	33	NA	154	NA
230122	Repair and replacement of hard surface flooring	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='230'	SU	NA	SU	NA
230122	Repair and replacement of hard surface flooring	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='230'	4,600	NA	7,082	NA



UCC	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
230122	Repair and replacement of hard surface flooring	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='230'	3,700	NA	5,417	NA
230122	Repair and replacement of hard surface flooring	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='230'	10,000	NA	16,333	NA
230123	Repair and replacement of hard surface flooring	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='230'	NA	NA	NA	NA
230123	Repair and replacement of hard surface flooring	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='230'	NA	NA	NA	NA
230123	Repair and replacement of hard surface flooring	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='230'	NA	NA	NA	NA
230123	Repair and replacement of hard surface flooring	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='230'	SU	NA	SU	NA
230123	Repair and replacement of hard surface flooring	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='230'	SU	NA	SU	NA
230123	Repair and replacement of hard surface flooring	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='230'	SU	NA	SU	NA
230150	Repair or maintenance services	(CRMPTYPE='4'   CRMPTYPE='5') & (('120'<=CRMCODEB & CRMCODEB<='220')   CRMCODEB='240'   ('260'<=CRMCODEB & CRMCODEB<='300'))	0	NA	16	NA
230150	Repair or maintenance services	(CRMPTYPE='4'   CRMPTYPE='5') & (('120'<=CRMCODEB & CRMCODEB<='220')   CRMCODEB='240'   ('260'<=CRMCODEB & CRMCODEB<='300'))	0	NA	49	NA

UCC	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
230150	Repair or maintenance services	(CRMPTYPE='4'   CRMPTYPE='5') & (('120'<=CRMCODEB & CRMCODEB<='220')   CRMCODEB='240'   '260'<=CRMCODEB & CRMCODEB<='300'))	7	NA	65	NA
230150	Repair or maintenance services	(CRMPTYPE='4'   CRMPTYPE='5') & (('120'<=CRMCODEB & CRMCODEB<='220')   CRMCODEB='240'   '260'<=CRMCODEB & CRMCODEB<='300'))	1,200	NA	11,500	NA
230150	Repair or maintenance services	(CRMPTYPE='4'   CRMPTYPE='5') & (('120'<=CRMCODEB & CRMCODEB<='220')   CRMCODEB='240'   '260'<=CRMCODEB & CRMCODEB<='300'))	800	NA	3,219	NA
230150	Repair or maintenance services	(CRMPTYPE='4'   CRMPTYPE='5') & (('120'<=CRMCODEB & CRMCODEB<='220')   CRMCODEB='240'   '260'<=CRMCODEB & CRMCODEB<='300'))	1,620	NA	2,967	NA
230150	Repair or maintenance services	UTILY EQ '270' AND (UTLPTYPE EQ '6')	NA	NA	NA	NA
230150	Repair or maintenance services	UTILY EQ '270' AND (UTLPTYPE EQ '6')	NA	NA	NA	NA
230150	Repair or maintenance services	UTILY EQ '270' AND (UTLPTYPE EQ '6')	NA	NA	NA	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'))	100	NA	290	NA

UCC	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 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'))	30	NA	105	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'))	1	NA	203	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'))	18,000	NA	20,833	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'))	15,000	NA	23,330	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'))	16,665	NA	29,100	NA

UCC	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
230152	Repair and remodeling services	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (('120'<=CRMCODEB & CRMCODEB<='220')   CRMCODEB='240'   ('260'<=CRMCODEB & CRMCODEB<='300'))	SU	NA	SU	NA
230152	Repair and remodeling services	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (('120'<=CRMCODEB & CRMCODEB<='220')   CRMCODEB='240'   ('260'<=CRMCODEB & CRMCODEB<='300'))	NA	NA	NA	NA
230152	Repair and remodeling services	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (('120'<=CRMCODEB & CRMCODEB<='220')   CRMCODEB='240'   ('260'<=CRMCODEB & CRMCODEB<='300'))	NA	NA	NA	NA
230152	Repair and remodeling services	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (('120'<=CRMCODEB & CRMCODEB<='220')   CRMCODEB='240'   ('260'<=CRMCODEB & CRMCODEB<='300'))	3,400	NA	7,967	NA
230152	Repair and remodeling services	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (('120'<=CRMCODEB & CRMCODEB<='220')   CRMCODEB='240'   ('260'<=CRMCODEB & CRMCODEB<='300'))	5,100	NA	10,233	NA
230152	Repair and remodeling services	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (('120'<=CRMCODEB & CRMCODEB<='220')   CRMCODEB='240'   ('260'<=CRMCODEB & CRMCODEB<='300'))	3,600	NA	9,667	NA

UCC	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
230901	Property management	REGFEECR EQ '01000' AND (OWNYI EQ '100' OR OWNYI EQ '200')	0	NA	1,552	NA
230902	Property management	REGFEECR EQ '01000' AND (OWNYI EQ '300')	NA	NA	NA	NA
240111	Paint, wallpaper, and supplies	('3'<=QTENURE & QTENURE<='5') & (CRMCODEA='170'   CRMCODEA='180')	18	NA	66	NA
240111	Paint, wallpaper, and supplies	(CRMPTYPE='4'   CRMPTYPE='5') & (CRMCODEB='170'   CRMCODEB='180')	181	NA	384	NA
240111	Paint, wallpaper, and supplies	(CRMPTYPE='4'   CRMPTYPE='5') & (CRMCODEB='170'   CRMCODEB='180')	49	NA	94	NA
240111	Paint, wallpaper, and supplies	(CRMPTYPE='4'   CRMPTYPE='5') & (CRMCODEB='170'   CRMCODEB='180')	226	NA	334	NA
240112	Paints, wallpaper and supplies	('1'<=QTENURE & QTENURE<='2') & (CRMCODEA='170'   CRMCODEA='180')	203	NA	293	NA
240112	Paints, wallpaper and supplies	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	1,016	NA	1,423	NA
240112	Paints, wallpaper and supplies	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	1,304	NA	2,570	NA
240112	Paints, wallpaper and supplies	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	993	NA	1,898	NA
240113	Paints, wallpaper, supplies	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	0	NA	134	NA

UCC	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
240113	Paints, wallpaper, supplies	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	0	NA	135	NA
240113	Paints, wallpaper, supplies	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	23	NA	169	NA
240121	Tools and equipment for painting and wallpapering	('3'<=QTENURE & QTENURE<='5') & (CRMCODEA='170'   CRMCODEA='180')	2	NA	7	NA
240121	Tools and equipment for painting and wallpapering	(CRMPTYPE='4'   CRMPTYPE='5') & (CRMCODEB='170'   CRMCODEB='180')	19	NA	41	NA
240121	Tools and equipment for painting and wallpapering	(CRMPTYPE='4'   CRMPTYPE='5') & (CRMCODEB='170'   CRMCODEB='180')	5	NA	10	NA
240121	Tools and equipment for painting and wallpapering	(CRMPTYPE='4'   CRMPTYPE='5') & (CRMCODEB='170'   CRMCODEB='180')	24	NA	36	NA
240122	Tools and equipment for painting and wallpapering	('1'<=QTENURE & QTENURE<='2') & (CRMCODEA='170'   CRMCODEA='180')	22	NA	31	NA
240122	Tools and equipment for painting and wallpapering	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	109	NA	153	NA
240122	Tools and equipment for painting and wallpapering	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	140	NA	276	NA
240122	Tools and equipment for painting and wallpapering	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	107	NA	204	NA

UCC	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
240123	Tools and equipment for painting and wallpapering	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	0	NA	14	NA
240123	Tools and equipment for painting and wallpapering	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	0	NA	15	NA
240123	Tools and equipment for painting and wallpapering	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	2	NA	18	NA
240211	Materials for plastering, panels, roofing, gutters, etc.	('3'<=QTENURE & QTENURE<='5') & (CRMCODEA='190'   ('260'<=CRMCODEA & CRMCODEA<='280'))	0	NA	18	NA
240211	Materials for plastering, panels, roofing, gutters, etc.	('3'<=QTENURE & QTENURE<='5') & CRMCODEA='160'	SU	NA	SU	NA
240211	Materials for plastering, panels, roofing, gutters, etc.	(CRMPTYPE='4'   CRMPTYPE='5') & (CRMCODEB='190'   ('260'<=CRMCODEB & CRMCODEB<='280'))	85	NA	227	NA
240211	Materials for plastering, panels, roofing, gutters, etc.	(CRMPTYPE='4'   CRMPTYPE='5') & (CRMCODEB='190'   ('260'<=CRMCODEB & CRMCODEB<='280'))	50	NA	156	NA
240211	Materials for plastering, panels, roofing, gutters, etc.	(CRMPTYPE='4'   CRMPTYPE='5') & (CRMCODEB='190'   ('260'<=CRMCODEB & CRMCODEB<='280'))	25	NA	219	NA
240211	Materials for plastering, panels, roofing, gutters, etc.	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='160'	NA	NA	NA	NA
240211	Materials for plastering, panels, roofing, gutters, etc.	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='160'	NA	NA	NA	NA
240211	Materials for plastering, panels, roofing, gutters, etc.	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='160'	SU	NA	SU	NA

UCC	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
240212	Materials for plaster., panel., siding, windows, doors, screens, awnings	('1'<=QTENURE & QTENURE<='2') & (CRMCODEA='190'   CRMCODEA='270'   CRMCODEA='280')	667	NA	1,144	NA
240212	Materials for plaster., panel., siding, windows, doors, screens, awnings	('1'<=QTENURE & QTENURE<='2') & CRMCODEA='160'	34	NA	109	NA
240212	Materials for plaster., panel., siding, windows, doors, screens, awnings	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='190'   CRMCODEB='270'   CRMCODEB='280')	2,500	NA	4,366	NA
240212	Materials for plaster., panel., siding, windows, doors, screens, awnings	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='190'   CRMCODEB='270'   CRMCODEB='280')	1,000	NA	2,440	NA
240212	Materials for plaster., panel., siding, windows, doors, screens, awnings	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='190'   CRMCODEB='270'   CRMCODEB='280')	775	NA	3,200	NA
240212	Materials for plaster., panel., siding, windows, doors, screens, awnings	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='160'	730	NA	1,233	NA
240212	Materials for plaster., panel., siding, windows, doors, screens, awnings	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='160'	430	NA	630	NA
240212	Materials for plaster., panel., siding, windows, doors, screens, awnings	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='160'	515	NA	959	NA
240213	Materials and equipment for roof and gutters	('1'<=QTENURE & QTENURE<='2') & CRMCODEA='260'	133	NA	608	NA
240213	Materials and equipment for roof and gutters	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='260'	500	NA	2,500	NA



UCC	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
240213	Materials and equipment for roof and gutters	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='260'	500	NA	2,074	NA
240213	Materials and equipment for roof and gutters	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='260'	1,900	NA	3,433	NA
240214	Materials for plastering, paneling, roofing, gutters, downspouts, siding, windows, doors, screens, and awnings	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='190'   ('260'<=CRMCODEB & CRMCODEB<='280'))	115	NA	350	NA
240214	Materials for plastering, paneling, roofing, gutters, downspouts, siding, windows, doors, screens, and awnings	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='190'   ('260'<=CRMCODEB & CRMCODEB<='280'))	SU	NA	SU	NA
240214	Materials for plastering, paneling, roofing, gutters, downspouts, siding, windows, doors, screens, and awnings	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='190'   ('260'<=CRMCODEB & CRMCODEB<='280'))	0	NA	740	NA
240214	Materials for plastering, paneling, roofing, gutters, downspouts, siding, windows, doors, screens, and awnings	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='160'	NA	NA	NA	NA
240214	Materials for plastering, paneling, roofing, gutters, downspouts, siding, windows, doors, screens, and awnings	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='160'	NA	NA	NA	NA
240214	Materials for plastering, paneling, roofing, gutters, downspouts, siding, windows, doors, screens, and awnings	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='160'	NA	NA	NA	NA
240221	Materials for patio, walk, fence, driveway, masonry, brick and stucco work	('3'<=QTENURE & QTENURE<='5') & CRMCODEA='160'	SU	NA	SU	NA
240221	Materials for patio, walk, fence, driveway, masonry, brick and stucco work	('3'<=QTENURE & QTENURE<='5') & CRMCODEA='290'	SU	NA	SU	NA
240221	Materials for patio, walk, fence, driveway, masonry, brick and stucco work	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='160'	NA	NA	NA	NA

UCC	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
240221	Materials for patio, walk, fence, driveway, masonry, brick and stucco work	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='160'	NA	NA	NA	NA
240221	Materials for patio, walk, fence, driveway, masonry, brick and stucco work	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='160'	SU	NA	SU	NA
240221	Materials for patio, walk, fence, driveway, masonry, brick and stucco work	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='290'	SU	NA	SU	NA
240221	Materials for patio, walk, fence, driveway, masonry, brick and stucco work	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='290'	NA	NA	NA	NA
240221	Materials for patio, walk, fence, driveway, masonry, brick and stucco work	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='290'	SU	NA	SU	NA
240222	Materials for patio, walk, fence, driveway, masonry, brick and stucco work	('1'<=QTENURE & QTENURE<='2') & CRMCODEA='160'	6	NA	18	NA
240222	Materials for patio, walk, fence, driveway, masonry, brick and stucco work	('1'<=QTENURE & QTENURE<='2') & CRMCODEA='290'	SU	NA	SU	NA
240222	Materials for patio, walk, fence, driveway, masonry, brick and stucco work	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='160'	120	NA	202	NA
240222	Materials for patio, walk, fence, driveway, masonry, brick and stucco work	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='160'	71	NA	103	NA
240222	Materials for patio, walk, fence, driveway, masonry, brick and stucco work	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='160'	85	NA	157	NA
240222	Materials for patio, walk, fence, driveway, masonry, brick and stucco work	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='290'	100	NA	496	NA
240222	Materials for patio, walk, fence, driveway, masonry, brick and stucco work	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='290'	17	NA	878	NA
240222	Materials for patio, walk, fence, driveway, masonry, brick and stucco work	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='290'	0	NA	388	NA

UCC	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
240223	Material for patio, walk, fence, drive, masonry, brick, stucco	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='160'	NA	NA	NA	NA
240223	Material for patio, walk, fence, drive, masonry, brick, stucco	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='160'	NA	NA	NA	NA
240223	Material for patio, walk, fence, drive, masonry, brick, stucco	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='160'	NA	NA	NA	NA
240223	Material for patio, walk, fence, drive, masonry, brick, stucco	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='290'	NA	NA	NA	NA
240223	Material for patio, walk, fence, drive, masonry, brick, stucco	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='290'	NA	NA	NA	NA
240223	Material for patio, walk, fence, drive, masonry, brick, stucco	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='290'	NA	NA	NA	NA
240311	Plumbing supplies and equipment	('3'<=QTENURE & QTENURE<='5') & CRMCODEA='200'	50	NA	221	NA
240311	Plumbing supplies and equipment	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='200'	100	NA	624	NA
240311	Plumbing supplies and equipment	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='200'	54	NA	607	NA
240311	Plumbing supplies and equipment	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='200'	155	NA	330	NA
240312	Plumbing supplies and equipment	('1'<=QTENURE & QTENURE<='2') & CRMCODEA='200'	83	NA	315	NA
240312	Plumbing supplies and equipment	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='200'	450	NA	1,554	NA
240312	Plumbing supplies and equipment	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='200'	600	NA	706	NA

UCC	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
240312	Plumbing supplies and equipment	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='200'	500	NA	857	NA
240313	Plumbing supplies and equipment	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='200'	SU	NA	SU	NA
240313	Plumbing supplies and equipment	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='200'	NA	NA	NA	NA
240313	Plumbing supplies and equipment	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='200'	NA	NA	NA	NA
240321	Electrical supplies, heating and cooling equipment	('3'<=QTENURE & QTENURE<='5') & (CRMCODEA='210'   CRMCODEA='220')	7	NA	69	NA
240321	Electrical supplies, heating and cooling equipment	(CRMPTYPE='4'   CRMPTYPE='5') & (CRMCODEB='210'   CRMCODEB='220')	60	NA	167	NA
240321	Electrical supplies, heating and cooling equipment	(CRMPTYPE='4'   CRMPTYPE='5') & (CRMCODEB='210'   CRMCODEB='220')	65	NA	80	NA
240321	Electrical supplies, heating and cooling equipment	(CRMPTYPE='4'   CRMPTYPE='5') & (CRMCODEB='210'   CRMCODEB='220')	340	NA	587	NA
240322	Electrical supplies, heating and cooling equipment	('1'<=QTENURE & QTENURE<='2') & (CRMCODEA='210'   CRMCODEA='220')	167	NA	528	NA
240322	Electrical supplies, heating and cooling equipment	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='210'   CRMCODEB='220')	400	NA	675	NA
240322	Electrical supplies, heating and cooling equipment	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='210'   CRMCODEB='220')	715	NA	1,767	NA

UCC	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
240322	Electrical supplies, heating and cooling equipment	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='210'   CRMCODEB='220')	250	NA	1,263	NA
240323	Electrical supplies, heating and cooling equipment	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='210'   CRMCODEB='220')	SU	NA	SU	NA
240323	Electrical supplies, heating and cooling equipment	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='210'   CRMCODEB='220')	SU	NA	SU	NA
240323	Electrical supplies, heating and cooling equipment	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='210'   CRMCODEB='220')	NA	NA	NA	NA
250111	Fuel oil (renter)	UTILY EQ '130' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	423	NA	705	NA
250111	Fuel oil (renter)	UTILY EQ '130' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	612	NA	892	NA
250111	Fuel oil (renter)	UTILY EQ '130' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	625	NA	700	NA
250112	Fuel oil (owned home)	UTILY EQ '130' AND UTLPTYPE EQ '1'	1,858	NA	2,450	NA
250112	Fuel oil (owned home)	UTILY EQ '130' AND UTLPTYPE EQ '1'	1,936	NA	2,275	NA
250112	Fuel oil (owned home)	UTILY EQ '130' AND UTLPTYPE EQ '1'	1,570	NA	2,065	NA
250113	Fuel oil (owned vacation)	UTILY EQ '130' AND (UTLPTYPE EQ '2')	396	NA	1,088	NA
250113	Fuel oil (owned vacation)	UTILY EQ '130' AND (UTLPTYPE EQ '2')	400	NA	1,175	NA
250113	Fuel oil (owned vacation)	UTILY EQ '130' AND (UTLPTYPE EQ '2')	550	NA	1,161	NA
250114	Fuel oil (rented vacation)	UTILY EQ '130' AND (UTLPTYPE EQ '6')	300	NA	442	NA
250114	Fuel oil (rented vacation)	UTILY EQ '130' AND (UTLPTYPE EQ '6')	0	NA	273	NA
250114	Fuel oil (rented vacation)	UTILY EQ '130' AND (UTLPTYPE EQ '6')	40	NA	381	NA

UCC	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
250211	Gas, btld/tank (renter)	UTILY EQ '150' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	544	NA	605	NA
250211	Gas, btld/tank (renter)	UTILY EQ '150' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	420	NA	634	NA
250211	Gas, btld/tank (renter)	UTILY EQ '150' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	544	NA	848	NA
250212	Gas, btld/tank (owned home)	UTILY EQ '150' AND UTLPTYPE EQ '1'	1,288	NA	1,398	NA
250212	Gas, btld/tank (owned home)	UTILY EQ '150' AND UTLPTYPE EQ '1'	944	NA	1,078	NA
250212	Gas, btld/tank (owned home)	UTILY EQ '150' AND UTLPTYPE EQ '1'	1,405	NA	2,333	NA
250213	Gas, btld/tank (owned vacation)	UTILY EQ '150' AND (UTLPTYPE EQ '2')	170	NA	527	NA
250213	Gas, btld/tank (owned vacation)	UTILY EQ '150' AND (UTLPTYPE EQ '2')	205	NA	484	NA
250213	Gas, btld/tank (owned vacation)	UTILY EQ '150' AND (UTLPTYPE EQ '2')	386	NA	713	NA
250214	Gas, btld/tank (rented vacation)	UTILY EQ '150' AND (UTLPTYPE EQ '6')	SU	NA	SU	NA
250214	Gas, btld/tank (rented vacation)	UTILY EQ '150' AND (UTLPTYPE EQ '6')	SU	NA	SU	NA
250214	Gas, btld/tank (rented vacation)	UTILY EQ '150' AND (UTLPTYPE EQ '6')	16	NA	444	NA
250911	Coal, wood, other fuels (renter)	UTILY EQ '180' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	200	NA	465	NA
250911	Coal, wood, other fuels (renter)	UTILY EQ '180' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	200	NA	420	NA
250911	Coal, wood, other fuels (renter)	UTILY EQ '180' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	70	NA	128	NA
250912	Coal, wood, other fuels (owned home)	UTILY EQ '180' AND UTLPTYPE EQ '1'	633	NA	975	NA
250912	Coal, wood, other fuels (owned home)	UTILY EQ '180' AND UTLPTYPE EQ '1'	670	NA	797	NA
250912	Coal, wood, other fuels (owned home)	UTILY EQ '180' AND UTLPTYPE EQ '1'	710	NA	848	NA
250913	Coal, wood, other fuels (owned vacation)	UTILY EQ '180' AND (UTLPTYPE EQ '2')	NA	NA	NA	NA
250913	Coal, wood, other fuels (owned vacation)	UTILY EQ '180' AND (UTLPTYPE EQ '2')	SU	NA	SU	NA
250913	Coal, wood, other fuels (owned vacation)	UTILY EQ '180' AND (UTLPTYPE EQ '2')	SU	NA	SU	NA

UCC	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
250914	Coal, wood, other fuels (rented vacation)	UTILY EQ '180' AND (UTLPTYPE EQ '6')	NA	NA	NA	NA
250914	Coal, wood, other fuels (rented vacation)	UTILY EQ '180' AND (UTLPTYPE EQ '6')	NA	NA	NA	NA
250914	Coal, wood, other fuels (rented vacation)	UTILY EQ '180' AND (UTLPTYPE EQ '6')	NA	NA	NA	NA
260111	Electricity (renter)	UTILY EQ '100' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	450	NA	523	NA
260111	Electricity (renter)	UTILY EQ '100' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	400	NA	504	NA
260111	Electricity (renter)	UTILY EQ '100' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	400	NA	516	NA
260112	Electricity (owned home)	UTILY EQ '100' AND UTLPTYPE EQ '1'	500	NA	727	NA
260112	Electricity (owned home)	UTILY EQ '100' AND UTLPTYPE EQ '1'	500	NA	742	NA
260112	Electricity (owned home)	UTILY EQ '100' AND UTLPTYPE EQ '1'	500	NA	702	NA
260113	Electricity (owned vacation)	UTILY EQ '100' AND (UTLPTYPE EQ '2')	451	NA	710	NA
260113	Electricity (owned vacation)	UTILY EQ '100' AND (UTLPTYPE EQ '2')	355	NA	633	NA
260113	Electricity (owned vacation)	UTILY EQ '100' AND (UTLPTYPE EQ '2')	366	NA	630	NA
260114	Electricity (rented vacation)	UTILY EQ '100' AND (UTLPTYPE EQ '6')	225	NA	276	NA
260114	Electricity (rented vacation)	UTILY EQ '100' AND (UTLPTYPE EQ '6')	255	NA	305	NA
260114	Electricity (rented vacation)	UTILY EQ '100' AND (UTLPTYPE EQ '6')	255	NA	320	NA
260211	Utility--natural gas (renter)	UTILY EQ '110' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	388	NA	615	NA
260211	Utility--natural gas (renter)	UTILY EQ '110' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	305	NA	418	NA
260211	Utility--natural gas (renter)	UTILY EQ '110' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	343	NA	456	NA
260212	Utility--natural gas (owned home)	UTILY EQ '110' AND UTLPTYPE EQ '1'	461	NA	661	NA
260212	Utility--natural gas (owned home)	UTILY EQ '110' AND UTLPTYPE EQ '1'	454	NA	688	NA
260212	Utility--natural gas (owned home)	UTILY EQ '110' AND UTLPTYPE EQ '1'	450	NA	667	NA

UCC	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
260213	Utility--natural gas (owned vacation)	UTILY EQ '110' AND (UTLPTYPE EQ '2')	230	NA	509	NA
260213	Utility--natural gas (owned vacation)	UTILY EQ '110' AND (UTLPTYPE EQ '2')	230	NA	314	NA
260213	Utility--natural gas (owned vacation)	UTILY EQ '110' AND (UTLPTYPE EQ '2')	224	NA	362	NA
260214	Utility--natural gas (rented vacation)	UTILY EQ '110' AND (UTLPTYPE EQ '6')	145	NA	253	NA
260214	Utility--natural gas (rented vacation)	UTILY EQ '110' AND (UTLPTYPE EQ '6')	123	NA	249	NA
260214	Utility--natural gas (rented vacation)	UTILY EQ '110' AND (UTLPTYPE EQ '6')	118	NA	230	NA
270101	Residential telephone/pay phones	NA	200	NA	301	NA
270101	Residential telephone/pay phones	NA	200	NA	297	NA
270101	Residential telephone/pay phones	NA	200	NA	292	NA
270102	Cellular phone service	NA	320	NA	459	NA
270102	Cellular phone service	NA	300	NA	416	NA
270102	Cellular phone service	NA	335	NA	497	NA
270211	Water/sewer maint. (renter)	(UTILY EQ '200' OR UTILY EQ '220') AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	200	NA	311	NA
270211	Water/sewer maint. (renter)	(UTILY EQ '200' OR UTILY EQ '220') AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	176	NA	309	NA
270211	Water/sewer maint. (renter)	(UTILY EQ '200' OR UTILY EQ '220') AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	200	NA	383	NA
270212	Water/sewer maint. (owned home)	(UTILY EQ '200' OR UTILY EQ '220') AND UTLPTYPE EQ '1'	248	NA	413	NA
270212	Water/sewer maint. (owned home)	(UTILY EQ '200' OR UTILY EQ '220') AND UTLPTYPE EQ '1'	213	NA	312	NA
270212	Water/sewer maint. (owned home)	(UTILY EQ '200' OR UTILY EQ '220') AND UTLPTYPE EQ '1'	230	NA	384	NA
270213	Water/sewer maint. (owned vacation)	(UTILY EQ '200' OR UTILY EQ '220') AND (UTLPTYPE EQ '2')	124	NA	227	NA
270213	Water/sewer maint. (owned vacation)	(UTILY EQ '200' OR UTILY EQ '220') AND (UTLPTYPE EQ '2')	140	NA	302	NA
270213	Water/sewer maint. (owned vacation)	(UTILY EQ '200' OR UTILY EQ '220') AND (UTLPTYPE EQ '2')	158	NA	277	NA
270214	Water/sewer maint. (rented vacation)	(UTILY EQ '200' OR UTILY EQ '220') AND (UTLPTYPE EQ '6')	80	NA	110	NA
270214	Water/sewer maint. (rented vacation)	(UTILY EQ '200' OR UTILY EQ '220') AND (UTLPTYPE EQ '6')	80	NA	129	NA
270214	Water/sewer maint. (rented vacation)	(UTILY EQ '200' OR UTILY EQ '220') AND (UTLPTYPE EQ '6')	68	NA	89	NA



UCC	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
270310	Cable and satellite television services	INTSERV EQ '100' AND INTMO EQ '13'	161	NA	204	NA
270310	Cable and satellite television services	INTSERV EQ '100' AND INTMO NE '13'	200	NA	381	NA
270310	Cable and satellite television services	NA	150	NA	184	NA
270310	Cable and satellite television services	NA	145	NA	165	NA
270310	Cable and satellite television services	NA	156	NA	202	NA
270411	Trash/garb. coll. (renter)	UTILY EQ '210' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	140	NA	202	NA
270411	Trash/garb. coll. (renter)	UTILY EQ '210' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	105	NA	221	NA
270411	Trash/garb. coll. (renter)	UTILY EQ '210' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	113	NA	283	NA
270412	Trash/garb. coll. (owned home)	UTILY EQ '210' AND UTLPTYPE EQ '1'	132	NA	202	NA
270412	Trash/garb. coll. (owned home)	UTILY EQ '210' AND UTLPTYPE EQ '1'	145	NA	276	NA
270412	Trash/garb. coll. (owned home)	UTILY EQ '210' AND UTLPTYPE EQ '1'	150	NA	219	NA
270413	Trash/garb. coll. (owned vacation)	UTILY EQ '210' AND (UTLPTYPE EQ '2')	82	NA	110	NA
270413	Trash/garb. coll. (owned vacation)	UTILY EQ '210' AND (UTLPTYPE EQ '2')	87	NA	113	NA
270413	Trash/garb. coll. (owned vacation)	UTILY EQ '210' AND (UTLPTYPE EQ '2')	100	NA	221	NA
270414	Trash/garb. coll. (rented vacation)	UTILY EQ '210' AND (UTLPTYPE EQ '6')	19	NA	40	NA
270414	Trash/garb. coll. (rented vacation)	UTILY EQ '210' AND (UTLPTYPE EQ '6')	19	NA	36	NA
270414	Trash/garb. coll. (rented vacation)	UTILY EQ '210' AND (UTLPTYPE EQ '6')	22	NA	41	NA
270901	Septic tank clean. (renter)	UTILY EQ '280' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	NA	NA	NA	NA
270901	Septic tank clean. (renter)	UTILY EQ '280' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	SU	NA	SU	NA
270901	Septic tank clean. (renter)	UTILY EQ '280' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	NA	NA	NA	NA
270902	Septic tank clean. (owned home)	UTILY EQ '280' AND UTLPTYPE EQ '1'	400	NA	786	NA

UCC	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
270902	Septic tank clean. (owned home)	UTILY EQ '280' AND UTLPTYPE EQ '1'	280	NA	402	NA
270902	Septic tank clean. (owned home)	UTILY EQ '280' AND UTLPTYPE EQ '1'	450	NA	543	NA
270903	Septic tank clean. (owned vacation)	UTILY EQ '280' AND (UTLPTYPE EQ '2')	NA	NA	NA	NA
270903	Septic tank clean. (owned vacation)	UTILY EQ '280' AND (UTLPTYPE EQ '2')	NA	NA	NA	NA
270903	Septic tank clean. (owned vacation)	UTILY EQ '280' AND (UTLPTYPE EQ '2')	NA	NA	NA	NA
270904	Septic tank clean. (rented vacation)	UTILY EQ '280' AND (UTLPTYPE EQ '6')	NA	NA	NA	NA
270904	Septic tank clean. (rented vacation)	UTILY EQ '280' AND (UTLPTYPE EQ '6')	NA	NA	NA	NA
270904	Septic tank clean. (rented vacation)	UTILY EQ '280' AND (UTLPTYPE EQ '6')	NA	NA	NA	NA
320611	Material for insulation, other maintenance and repair	('3'<=QTENURE & QTENURE<='5') & (CRMCODEA='240'   CRMCODEA='300')	53	NA	120	NA
320611	Material for insulation, other maintenance and repair	(CRMPTYPE='4'   CRMPTYPE='5') & (CRMCODEB='240'   CRMCODEB='300')	70	NA	662	NA
320611	Material for insulation, other maintenance and repair	(CRMPTYPE='4'   CRMPTYPE='5') & (CRMCODEB='240'   CRMCODEB='300')	112	NA	618	NA
320611	Material for insulation, other maintenance and repair	(CRMPTYPE='4'   CRMPTYPE='5') & (CRMCODEB='240'   CRMCODEB='300')	100	NA	592	NA
320612	Material for insulation, other maintenance and repair	('1'<=QTENURE & QTENURE<='2') & CRMCODEA='300'	691	NA	5,000	NA
320612	Material for insulation, other maintenance and repair	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='240'   CRMCODEB='300')	700	NA	2,580	NA
320612	Material for insulation, other maintenance and repair	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='240'   CRMCODEB='300')	1,000	NA	1,436	NA

UCC	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
320612	Material for insulation, other maintenance and repair	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='240'   CRMCODEB='300')	751	NA	2,760	NA
320613	Material for insulation, other maintenance and repair	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='240'   CRMCODEB='300')	NA	NA	NA	NA
320613	Material for insulation, other maintenance and repair	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='240'   CRMCODEB='300')	SU	NA	SU	NA
320613	Material for insulation, other maintenance and repair	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='240'   CRMCODEB='300')	0	NA	763	NA
320621	Material for hard surface flooring	('3'<=QTENURE & QTENURE<='5') & CRMCODEA='230'	SU	NA	SU	NA
320621	Material for hard surface flooring	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='230'	200	NA	1,928	NA
320621	Material for hard surface flooring	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='230'	75	NA	245	NA
320621	Material for hard surface flooring	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='230'	100	NA	727	NA
320622	Materials for hard surface flooring, repair and replacement	('1'<=QTENURE & QTENURE<='2') & CRMCODEA='230'	500	NA	754	NA
320622	Materials for hard surface flooring, repair and replacement	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='230'	2,000	NA	3,438	NA
320622	Materials for hard surface flooring, repair and replacement	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='230'	2,200	NA	5,333	NA
320622	Materials for hard surface flooring, repair and replacement	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='230'	1,200	NA	3,900	NA

UCC	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
320623	Materials for hard surface flooring	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='230'	SU	NA	SU	NA
320623	Materials for hard surface flooring	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='230'	NA	NA	NA	NA
320623	Materials for hard surface flooring	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='230'	SU	NA	SU	NA
320631	Material for landscape maintenance	('3'<=QTENURE & QTENURE<='5') & CRMCODEA='140'	SU	NA	SU	NA
320631	Material for landscape maintenance	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='140'	50	NA	214	NA
320631	Material for landscape maintenance	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='140'	50	NA	213	NA
320631	Material for landscape maintenance	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='140'	5	NA	192	NA
320632	Materials for landscaping maintenance	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='140'	NA	NA	NA	NA
320632	Materials for landscaping maintenance	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='140'	NA	NA	NA	NA
320632	Materials for landscaping maintenance	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='140'	NA	NA	NA	NA
320633	Materials for landscaping maintenance	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='140'	NA	NA	NA	NA
320633	Materials for landscaping maintenance	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='140'	NA	NA	NA	NA
320633	Materials for landscaping maintenance	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='140'	NA	NA	NA	NA

UCC	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
340420	Water softening service	UTILY EQ '270' AND (UTLPTYPE EQ '2')	SU	NA	SU	NA
340420	Water softening service	UTILY EQ '270' AND (UTLPTYPE EQ '2')	SU	NA	SU	NA
340420	Water softening service	UTILY EQ '270' AND (UTLPTYPE EQ '2')	SU	NA	SU	NA
340420	Water softening service	UTILY EQ '270' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	60	NA	113	NA
340420	Water softening service	UTILY EQ '270' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	57	NA	72	NA
340420	Water softening service	UTILY EQ '270' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	70	NA	117	NA
340420	Water softening service	UTILY EQ '270' AND UTLPTYPE EQ '1'	180	NA	230	NA
340420	Water softening service	UTILY EQ '270' AND UTLPTYPE EQ '1'	100	NA	216	NA
340420	Water softening service	UTILY EQ '270' AND UTLPTYPE EQ '1'	200	NA	258	NA
550320	Medical equipment for general use	MEDPCARY EQ '660'	525	NA	2,356	NA
550320	Medical equipment for general use	MEDRCARY EQ '660'	NA	-200	NA	-326
550330	Supportive and convalescent medical equipment	MEDPCARY EQ '640'	600	NA	1,754	NA
550330	Supportive and convalescent medical equipment	MEDRCARY EQ '640'	NA	-54	NA	-112
560110	Physician's services	MEDPCARY EQ '420'	408	NA	1,052	NA
560110	Physician's services	MEDRCARY EQ '420'	NA	-1,730	NA	-3,831
560210	Dental services	MEDPCARY EQ '200'	1,600	NA	3,181	NA
560210	Dental services	MEDRCARY EQ '200'	NA	-1,400	NA	-4,133
560310	Eyecare services	MEDPCARY EQ '110'	450	NA	1,587	NA
560310	Eyecare services	MEDRCARY EQ '110'	NA	-410	NA	-572
560330	Lab tests, x-rays	MEDPCARY EQ '510'	698	NA	1,246	NA
560330	Lab tests, x-rays	MEDRCARY EQ '510'	NA	-785	NA	-1,220
560400	Service by professionals other than physician	MEDPCARY EQ '410'	780	NA	3,033	NA
560400	Service by professionals other than physician	MEDRCARY EQ '410'	NA	-790	NA	-1,343
570111	Hospital room and services	MEDPCARY EQ '330'	2,200	NA	5,411	NA
570111	Hospital room and services	MEDRCARY EQ '330'	NA	-3,000	NA	-4,227
570220	Care in convalescent or nursing home	MEDPCARY EQ '520'	7,660	NA	8,525	NA
570220	Care in convalescent or nursing home	MEDRCARY EQ '520'	NA	-2,294	NA	-6,740
570230	Other medical care services	MEDPCARY EQ '530'	1,100	NA	2,805	NA

UCC	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
570230	Other medical care services	MEDRCARY EQ '530'	NA	-4,800	NA	-6,340
570240	Medical care in retirement community	REGFEECR EQ '29000'	NA	NA	NA	NA
570240	Medical care in retirement community	SPFEECR EQ '29000'	NA	NA	NA	NA
570901	Rental of medical equipment	MEDPCARY EQ '650'	467	NA	667	NA
570901	Rental of medical equipment	MEDRCARY EQ '650'	NA	-20	NA	-55
570903	Rental of supportive, convalescent medical equipment	MEDPCARY EQ '630'	154	NA	249	NA
570903	Rental of supportive, convalescent medical equipment	MEDRCARY EQ '630'	NA	-21	NA	-58
580111	Traditional fee for service health plan (not BCBS)	HHICODE EQ '2' AND HHIBCBS EQ '2' AND HHIFEET = '1'	1,100	NA	1,415	NA
580112	Traditional fee for service health plan (BCBS)	HHICODE EQ '2' AND HHIBCBS EQ '1' AND HHIFEET = '1'	840	NA	988	NA
580113	Preferred provider health plan (not BCBS)	HHICODE EQ '2' AND HHIBCBS EQ '2' AND HHIFEET = '2'	1,100	NA	1,950	NA
580114	Preferred provider health plan (BCBS)	HHICODE EQ '2' AND HHIBCBS EQ '1' AND HHIFEET = '2'	1,100	NA	1,718	NA
580311	Health maintenance organization (not BCBS)	HHICODE EQ '1' AND HHIBCBS EQ '2'	932	NA	1,204	NA
580312	Health maintenance organization (BCBS)	HHICODE EQ '1' AND HHIBCBS EQ '1'	1,052	NA	1,560	NA
580903	Commercial medicare supplement (not BCBS)	HHICODE EQ '3' AND HHIBCBS EQ '2'	750	NA	1,541	NA
580904	Commercial medicare supplement (BCBS)	HHICODE EQ '3' AND HHIBCBS EQ '1'	900	NA	1,889	NA
580905	Other health insurance (not BCBS)	HHICODE EQ '4' AND HHIBCBS EQ '2'	309	NA	476	NA
580906	Other health insurance (BCBS)	HHICODE EQ '4' AND HHIBCBS EQ '1'	402	NA	923	NA
690114	Computer information services	INTSERV EQ '200' AND INTMO EQ '13'	94	NA	110	NA
690114	Computer information services	INTSERV EQ '200' AND INTMO NE '13'	137	NA	207	NA
690114	Computer information services	NA	80	NA	119	NA
690114	Computer information services	NA	84	NA	112	NA
690114	Computer information services	NA	84	NA	124	NA

UCC	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
790600	Expenses for other properties	CRMPTYPE='3' & (CRMTYPE='3'   CRMTYPE='4') & (('100'<=CRMCODEB & CRMCODEB<='240')   (('260'<=CRMCODEB & CRMCODEB<='300'))	SU	NA	SU	NA
790600	Expenses for other properties	CRMPTYPE='3' & (CRMTYPE='3'   CRMTYPE='4') & (('100'<=CRMCODEB & CRMCODEB<='240')   (('260'<=CRMCODEB & CRMCODEB<='300'))	SU	NA	SU	NA
790600	Expenses for other properties	CRMPTYPE='3' & (CRMTYPE='3'   CRMTYPE='4') & (('100'<=CRMCODEB & CRMCODEB<='240')   (('260'<=CRMCODEB & CRMCODEB<='300'))	SU	NA	SU	NA
790600	Expenses for other properties	CRMPTYPE='3' & (CRMTYPE='3'   CRMTYPE='4') & (('100'<=CRMCODEB & CRMCODEB<='240')   (('260'<=CRMCODEB & CRMCODEB<='300'))	0	NA	513	NA
790600	Expenses for other properties	CRMPTYPE='3' & (CRMTYPE='3'   CRMTYPE='4') & (('100'<=CRMCODEB & CRMCODEB<='240')   (('260'<=CRMCODEB & CRMCODEB<='300'))	150	NA	3,109	NA
790600	Expenses for other properties	CRMPTYPE='3' & (CRMTYPE='3'   CRMTYPE='4') & (('100'<=CRMCODEB & CRMCODEB<='240')   (('260'<=CRMCODEB & CRMCODEB<='300'))	160	NA	7,760	NA

UCC	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
790600	Expenses for other properties	CRMPTYPE='3' & (CRMTYPE='3'   CRMTYPE='4') & (('120'<=CRMCODEB & CRMCODEB<='240')   (('260'<=CRMCODEB & CRMCODEB<='300'))	93	NA	770	NA
790600	Expenses for other properties	CRMPTYPE='3' & (CRMTYPE='3'   CRMTYPE='4') & (('120'<=CRMCODEB & CRMCODEB<='240')   (('260'<=CRMCODEB & CRMCODEB<='300'))	SU	NA	SU	NA
790600	Expenses for other properties	CRMPTYPE='3' & (CRMTYPE='3'   CRMTYPE='4') & (('120'<=CRMCODEB & CRMCODEB<='240')   (('260'<=CRMCODEB & CRMCODEB<='300'))	SU	NA	SU	NA
790600	Expenses for other properties	OWNYB EQ '400' OR OWNYB EQ '500'	375	NA	802	NA
790600	Expenses for other properties	UTILY EQ '270' AND (UTLPTYPE EQ '3')	NA	NA	NA	NA
790600	Expenses for other properties	UTILY EQ '270' AND (UTLPTYPE EQ '3')	NA	NA	NA	NA
790600	Expenses for other properties	UTILY EQ '270' AND (UTLPTYPE EQ '3')	NA	NA	NA	NA
790600	Expenses for other properties	UTILY EQ '280' AND (UTLPTYPE EQ '3')	NA	NA	NA	NA
790600	Expenses for other properties	UTILY EQ '280' AND (UTLPTYPE EQ '3')	NA	NA	NA	NA
790600	Expenses for other properties	UTILY EQ '280' AND (UTLPTYPE EQ '3')	NA	NA	NA	NA
790610	Contractors labor and materials, supplies CU obtained, appliances provided by contractor, other property	CRMPTYPE='3' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	200	NA	810	NA
790610	Contractors labor and materials, supplies CU obtained, appliances provided by contractor, other property	CRMPTYPE='3' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	200	NA	1,367	NA



UCC	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
790610	Contractors labor and materials, supplies CU obtained, appliances provided by contractor, other property	CRMPTYPE='3' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	200	NA	1,620	NA
790610	Contractors labor and materials, supplies CU obtained, appliances provided by contractor, other property	CRMPTYPE='3' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	SU	NA	SU	NA
790610	Contractors labor and materials, supplies CU obtained, appliances provided by contractor, other property	CRMPTYPE='3' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	NA	NA	NA	NA
790610	Contractors labor and materials, supplies CU obtained, appliances provided by contractor, other property	CRMPTYPE='3' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	NA	NA	NA	NA
790610	Contractors labor and materials, supplies CU obtained, appliances provided by contractor, other property	CRMPTYPE='3' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	6,647	NA	14,132	NA
790610	Contractors labor and materials, supplies CU obtained, appliances provided by contractor, other property	CRMPTYPE='3' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	7,500	NA	11,550	NA
790610	Contractors labor and materials, supplies CU obtained, appliances provided by contractor, other property	CRMPTYPE='3' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	9,000	NA	23,617	NA
790640	Property management, security, parking (other property)	REGFEECR EQ '01000' AND (OWNYI EQ '400' OR OWNYI EQ '500')	NA	NA	NA	NA
790690	Construction materials for jobs not started	('3'<=QTENURE & QTENURE<='5') & (('100'<=CRMCODEA & CRMCODEA<='130')   CRMCODEA='150')	100	NA	410	NA
790710	Purchase price of property (other property)	OWNYB EQ '400' OR OWNYB EQ '500'	184,000	NA	275,000	NA
790810	Sale price of property or trade-in amount (other property)	OWNYD EQ '400' OR OWNYD EQ '500'	NA	-49,000	NA	-142,333

UCC	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
790910	Special lump sum mortgage payments (other property)	OWNYI EQ '400' OR OWNYI EQ '500'	NA	-6,000	NA	-23,933
790920	Reduction of mortgage principal (other property)	(OWNYF EQ '400' OR OWNYF EQ '500') AND (LOANTYPE EQ '1')	NA	-4,117	NA	-9,312
790920	Reduction of mortgage principal (other property)	(OWNYF EQ '400' OR OWNYF EQ '500') AND (LOANTYPE EQ '1')	NA	-4,142	NA	-8,453
790920	Reduction of mortgage principal (other property)	(OWNYF EQ '400' OR OWNYF EQ '500') AND (LOANTYPE EQ '1')	NA	-4,167	NA	-8,963
790930	Original loan amount (mortgage obtained during interview quarter) (other property)	(OWNYF EQ '400' OR OWNYF EQ '500') AND (LOANTYPE EQ '1')	126,000	NA	181,280	NA
790940	Reduction mortgage principal, home equity loan (other property)	(OWNYG EQ '400' OR OWNYG EQ '500') AND (LOANTYPE EQ '2')	NA	-223	NA	-274
790940	Reduction mortgage principal, home equity loan (other property)	(OWNYG EQ '400' OR OWNYG EQ '500') AND (LOANTYPE EQ '2')	NA	-225	NA	-277
790940	Reduction mortgage principal, home equity loan (other property)	(OWNYG EQ '400' OR OWNYG EQ '500') AND (LOANTYPE EQ '2')	NA	-226	NA	-278
790950	Original loan amount, home equity loan (loan obtained during interview quarter) (other property)	(OWNYG EQ '400' OR OWNYG EQ '500') AND (LOANTYPE EQ '2')	SU	NA	SU	NA
800721	Estimated market value of owned home	OWNYB EQ '100' OR OWNYB EQ '200'	75,000	NA	138,564	NA
800721	Estimated market value of owned home	OWNYI EQ '100'	75,000	NA	133,900	NA
810101	Purchase price of property (owned home)	OWNYB EQ '100' OR OWNYB EQ '200'	820,000	NA	1,657,857	NA
810102	Purchase price of property (owned vacation)	OWNYB EQ '300'	630,000	NA	1,491,833	NA
820101	Sale price of property or trade-in amount (owned home)	OWNYD EQ '100' OR OWNYD EQ '200'	NA	-440,000	NA	-1,030,500
820102	Sale price of property or trade-in amount (owned vacation)	OWNYD EQ '300'	NA	-150,000	NA	-370,000
830101	Special lump sum mortgage payment (owned home)	OWNYI EQ '100' OR OWNYI EQ '200'	NA	-7,200	NA	-47,346
830102	Special lump sum mortgage payment (owned vacation)	OWNYI EQ '300'	NA	-4,000	NA	-13,667
830201	Reduction of mortgage principal (owned home)	(OWNYF EQ '100' OR OWNYF EQ '200') AND (LOANTYPE EQ '1')	NA	-1,123	NA	-2,070

UCC	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
830201	Reduction of mortgage principal (owned home)	(OWNYF EQ '100' OR OWNYF EQ '200') AND (LOANTYPE EQ '1')	NA	-1,134	NA	-2,100
830201	Reduction of mortgage principal (owned home)	(OWNYF EQ '100' OR OWNYF EQ '200') AND (LOANTYPE EQ '1')	NA	-1,150	NA	-2,111
830202	Reduction of mortgage principal (owned vacation)	(OWNYF EQ '300') AND (LOANTYPE EQ '1')	NA	-1,015	NA	-3,948
830202	Reduction of mortgage principal (owned vacation)	(OWNYF EQ '300') AND (LOANTYPE EQ '1')	NA	-1,169	NA	-5,886
830202	Reduction of mortgage principal (owned vacation)	(OWNYF EQ '300') AND (LOANTYPE EQ '1')	NA	-1,174	NA	-6,607
830203	Reduction mortgage principal, home equity loan (owned home)	(OWNYG EQ '100' OR OWNYG EQ '200') AND (LOANTYPE EQ '2')	NA	-1,186	NA	-2,527
830203	Reduction mortgage principal, home equity loan (owned home)	(OWNYG EQ '100' OR OWNYG EQ '200') AND (LOANTYPE EQ '2')	NA	-1,211	NA	-2,273
830203	Reduction mortgage principal, home equity loan (owned home)	(OWNYG EQ '100' OR OWNYG EQ '200') AND (LOANTYPE EQ '2')	NA	-1,158	NA	-2,262
830204	Reduction mortgage principal, home equity loan (owned vacation)	(OWNYG EQ '300') AND (LOANTYPE EQ '2')	NA	-790	NA	-2,190
830204	Reduction mortgage principal, home equity loan (owned vacation)	(OWNYG EQ '300') AND (LOANTYPE EQ '2')	NA	-795	NA	-2,205
830204	Reduction mortgage principal, home equity loan (owned vacation)	(OWNYG EQ '300') AND (LOANTYPE EQ '2')	NA	-801	NA	-2,219
830301	Original loan amount (mortgage obtained during interview quarter) (owned home)	(OWNYF EQ '100' OR OWNYF EQ '200') AND (LOANTYPE EQ '1')	430,880	NA	578,434	NA
830302	Original loan amount (mortgage obtained during interview quarter) (owned vacation)	(OWNYF EQ '300') AND LOANTYPE EQ '1')	620,264	NA	953,983	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')	90,000	NA	160,451	NA
830304	Original loan amount, home equity loan (loan obtained during interview quarter) (owned vacation)	(OWNYG EQ '300') AND (LOANTYPE EQ '2')	NA	NA	NA	NA
860600	Sale of boats, with motors	VEHICYC EQ '160'	NA	-17,000	NA	-33,667
880120	Principal paid, home equity line of credit (owned home)	OWNYH EQ '100' OR OWNYH EQ '200'	938	-5,203	NA	-14,609

UCC	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
880220	Principal paid, home equity line of credit (other property)	OWNYH EQ '400' OR OWNYH EQ '500'	SU	-71	SU	-3,162
880320	Principal paid, home equity line of credit (owned vacation)	OWNYH EQ '300'	212	-911	NA	-1,522
900002	Occupational expenses	MISCCODE EQ '380' AND MISCMO EQ '13'	200	NA	344	NA
900002	Occupational expenses	MISCCODE EQ '380' AND MISCMO NE '13'	733	NA	1,758	NA
910050	Estimated monthly rental value of owned home	OWNYI EQ '100'	250	NA	413	NA
910100	Rental equivalence of vacation home (thru Q20071)	OWNYI EQ '300'	375	NA	663	NA
910101	Estimated monthly rental value of vacation home not available for rent (new UCC Q20072)	OWNYI EQ '300' AND TIMESHRI NE '1' AND VAC_SEC NE '1'	467	NA	1,051	NA
910102	Estimated monthly rental value of vacation home available for rent (new UCC Q20072)	OWNYI EQ '300' AND VAC_SEC EQ '1'	833	NA	1,104	NA
910103	Estimated annual rental value of timeshare (new UCC Q20072)	OWNYI EQ '300' AND TIMESHRI EQ '1'	17,333	NA	24,604	NA
990920	Materials for additions, finishing basements, remodeling rooms	(CRMPTYPE='4'   CRMPTYPE='5') & (('100'<=CRMCODEB & CRMCODEB<='130')   CRMCODEB='150')	615	NA	1,588	NA
990920	Materials for additions, finishing basements, remodeling rooms	(CRMPTYPE='4'   CRMPTYPE='5') & (('100'<=CRMCODEB & CRMCODEB<='130')   CRMCODEB='150')	400	NA	1,071	NA
990920	Materials for additions, finishing basements, remodeling rooms	(CRMPTYPE='4'   CRMPTYPE='5') & (('100'<=CRMCODEB & CRMCODEB<='130')   CRMCODEB='150')	2,167	NA	49,333	NA
990930	Materials to finish basement, remodel rooms or build patios, walks, etc. (maint., repair and repl. - owned properties)	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='120'   CRMCODEB='130'   CRMCODEB='150')	NA	NA	NA	NA
990930	Materials to finish basement, remodel rooms or build patios, walks, etc. (maint., repair and repl. - owned properties)	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='120'   CRMCODEB='130'   CRMCODEB='150')	NA	NA	NA	NA

UCC	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
990930	Materials to finish basement, remodel rooms or build patios, walks, etc. (maint., repair and repl. - owned properties)	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='120'   CRMCODEB='130'   CRMCODEB='150')	NA	NA	NA	NA
990940	Material for finishing basements and remodeling rooms	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='120'   CRMCODEB='130'   CRMCODEB='150')	NA	NA	NA	NA
990940	Material for finishing basements and remodeling rooms	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='120'   CRMCODEB='130'   CRMCODEB='150')	SU	NA	SU	NA
990940	Material for finishing basements and remodeling rooms	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='120'   CRMCODEB='130'   CRMCODEB='150')	NA	NA	NA	NA
990950	Labor and materials for dwellings under construction and additions	(CRMPTYPE='4'   CRMPTYPE='5') & ('100'<=CRMCODEB & CRMCODEB<='110')	NA	NA	NA	NA
990950	Labor and materials for dwellings under construction and additions	(CRMPTYPE='4'   CRMPTYPE='5') & ('100'<=CRMCODEB & CRMCODEB<='110')	NA	NA	NA	NA
990950	Labor and materials for dwellings under construction and additions	(CRMPTYPE='4'   CRMPTYPE='5') & ('100'<=CRMCODEB & CRMCODEB<='110')	NA	NA	NA	NA
990950	Labor and materials for dwellings under construction and additions	(CRMPTYPE='4'   CRMPTYPE='5') & ('100'<=CRMCODEB & CRMCODEB<='110')	2,700	NA	50,434	NA
990950	Labor and materials for dwellings under construction and additions	(CRMPTYPE='4'   CRMPTYPE='5') & ('100'<=CRMCODEB & CRMCODEB<='110')	0	NA	398	NA
990950	Labor and materials for dwellings under construction and additions	(CRMPTYPE='4'   CRMPTYPE='5') & ('100'<=CRMCODEB & CRMCODEB<='110')	140	NA	1,853	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	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
001000	Purchase price of stocks, bonds or mutual funds including broker fees	25,000	NA	49,723	NA
001010	Sale price of stocks, bonds, and mutual funds, net	NA	-28,333	NA	-38,859
001210	Investments to farm or business	10,417	NA	62,028	NA
002010	Change in savings account	4,167	-4,833	9,714	-10,607
002020	Change in checking account	2,500	-1,417	11,420	-4,881
002030	Change in U.S. savings bonds	417	-1,250	1,370	-2,306
003000	Change in money owed to consumer unit	6,333	-833	11,604	-2,453
003100	Change in surrender of insurance policies	NA	-4,500	NA	-5,861
900040	Pensions and annuities	5,889	NA	6,401	NA
900050	Dividends, royalties, estates, trusts	6,369	NA	8,164	NA
900060	Roomer and boarder income	3,333	-1,067	4,790	-1,554
900070	Other rental income	4,583	-1,000	4,275	14
900080	Interest	2,917	NA	6,689	NA
900131	Child support payments	1,417	NA	1,861	NA
900132	Other regular contributions including alimony	3,858	NA	5,589	NA
900140	Other income	2,083	NA	2,557	NA
910000	Lump sum receipts	11,667	NA	29,145	NA
910010	Money from sale of household furnishings, etc.	833	NA	12,569	NA
910020	Refund from overpayment on Social Security	167	NA	272	NA
910030	Refunds from insurance policies	167	NA	634	NA
910040	Refunds from property taxes	167	NA	257	NA
910041	Lump sum child support payment	1,083	NA	3,033	NA
920010	Market value of all savings accounts	11,000	NA	43,979	NA
920020	Market value of all checking accounts	2,500	NA	16,955	NA
920030	Market value of all U.S. savings bonds	2,917	NA	6,118	NA
920040	Market value of all securities	125,000	NA	317,419	NA
950001	Federal income tax refunds	NA	-625	NA	-962

Variable	Description	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
950003	Additional federal income tax paid (new UCC Q20062)	2,903	NA	9,732	NA
950011	State and local income tax refunds	NA	-167	NA	-355
950013	Additional state and local income tax paid (new UCC Q20062)	729	NA	1,737	NA
950021	Other taxes	748	NA	1,304	NA
950022	Personal property taxes	83	NA	163	NA
950023	Other tax refunds	NA	-283	NA	-1,180

<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.)

UCC	FMLY variable	Description
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 (EXPN)

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

Variable	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
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')	10,000	NA	15,167	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')	675	NA	974	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='190'   CRMCODEA='270'   CRMCODEA='280')	2,000	NA	3,431	NA
ADVMATX	Electrical supplies, heating and cooling equipment	('1'<=QTENURE & QTENURE<='2') & (CRMCODEA='210'   CRMCODEA='220')	500	NA	1,584	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'	119	NA	382	NA
ADVMATX	Plumbing supplies and equipment	('1'<=QTENURE & QTENURE<='2') & CRMCODEA='200'	250	NA	946	NA
ADVMATX	Materials for hard surface flooring, repair and replacement	('1'<=QTENURE & QTENURE<='2') & CRMCODEA='230'	1,500	NA	2,262	NA
ADVMATX	Materials and equipment for roof and gutters	('1'<=QTENURE & QTENURE<='2') & CRMCODEA='260'	400	NA	1,825	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='290'	SU	NA	SU	NA
ADVMATX	Material for insulation, other maintenance and repair	('1'<=QTENURE & QTENURE<='2') & CRMCODEA='300'	2,073	NA	15,000	NA



Variable	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
ADVMATX	Construction materials for jobs not started	('3'<=QTENURE & QTENURE<='5') & (('100'<=CRMCODEA & CRMCODEA<='130')   CRMCODEA='150')	300	NA	1,229	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')	60	NA	220	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'))	0	NA	53	NA
ADVMATX	Electrical supplies, heating and cooling equipment	('3'<=QTENURE & QTENURE<='5') & (CRMCODEA='210'   CRMCODEA='220')	20	NA	206	NA
ADVMATX	Material for insulation, other maintenance and repair	('3'<=QTENURE & QTENURE<='5') & (CRMCODEA='240'   CRMCODEA='300')	160	NA	359	NA
ADVMATX	Material for landscape maintenance	('3'<=QTENURE & QTENURE<='5') & CRMCODEA='140'	SU	NA	SU	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='160'	SU	NA	SU	NA
ADVMATX	Plumbing supplies and equipment	('3'<=QTENURE & QTENURE<='5') & CRMCODEA='200'	150	NA	662	NA
ADVMATX	Material for hard surface flooring	('3'<=QTENURE & QTENURE<='5') & CRMCODEA='230'	SU	NA	SU	NA

Variable	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 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	('3'<=QTENURE & QTENURE<='5') & CRMCODEA='290'	SU	NA	SU	NA
DISPX	Sale price of property or trade-in amount (owned home)	OWNYD EQ '100' OR OWNYD EQ '200'	440,000	NA	1,030,500	NA
DISPX	Sale price of property or trade-in amount (owned vacation)	OWNYD EQ '300'	150,000	NA	370,000	NA
DISPX	Sale price of property or trade-in amount (other property)	OWNYD EQ '400' OR OWNYD EQ '500'	49,000	NA	142,333	NA
INTCHGX	Cable and satellite television services	INTSERV EQ '100' AND INTMO EQ '13'	161	NA	204	NA
INTCHGX	Cable and satellite television services	INTSERV EQ '100' AND INTMO NE '13'	200	NA	381	NA
INTCHGX	Computer information services	INTSERV EQ '200' AND INTMO EQ '13'	94	NA	110	NA
INTCHGX	Computer information services	INTSERV EQ '200' AND INTMO NE '13'	137	NA	207	NA
JEDUCNET	Housing while attending school	EDUC_AY EQ '310' AND EDMONTHA EQ '13'	2,064	NA	3,739	NA
JEDUCNET	Housing while attending school	EDUC_AY EQ '310' AND EDMONTHA NE '13'	4,209	NA	5,621	NA
JFEETOTX	Property management	REGFEECR EQ '01000' AND (OWNYI EQ '100' OR OWNYI EQ '200')	0	NA	1,552	NA
JFEETOTX	Property management	REGFEECR EQ '01000' AND (OWNYI EQ '300')	NA	NA	NA	NA
JFEETOTX	Property management, security, parking (other property)	REGFEECR EQ '01000' AND (OWNYI EQ '400' OR OWNYI EQ '500')	NA	NA	NA	NA
JFEETOTX	Medical care in retirement community	REGFEECR EQ '29000'	NA	NA	NA	NA
JLABOR1X	Labor and materials for dwellings under construction and additions	(CRMPYTYPE='4'   CRMPYTYPE='5') & ('100'<=CRMCODEB & CRMCODEB<='110')	2,700	NA	50,434	NA

Variable	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
JLABOR1X	Repair or maintenance services	(CRMPYTYPE='4'   CRMPYTYPE='5') & (('120'<=CRMCODEB & CRMCODEB<='220')   CRMCODEB='240'   '260'<=CRMCODEB & CRMCODEB<='300'))	1,200	NA	11,500	NA
JLABOR1X	Repair and replacement of hard surface flooring	(CRMPYTYPE='4'   CRMPYTYPE='5') & CRMCODEB='230'	150	NA	1,472	NA
JLABOR1X	Capital improvement labor and materials (owned home)	CRMPYTYPE='1' & (CRMPYTYPE='1'   CRMPYTYPE='2'   CRMPYTYPE='5')	64,000	NA	75,941	NA
JLABOR1X	Other repair and maintenance services	CRMPYTYPE='1' & (CRMPYTYPE='3'   CRMPYTYPE='4') & (('120'<=CRMCODEB & CRMCODEB<='160')   CRMCODEB='190'   CRMCODEB='240'   '270'<=CRMCODEB & CRMCODEB<='300'))	18,000	NA	20,833	NA
JLABOR1X	Painting and papering	CRMPYTYPE='1' & (CRMPYTYPE='3'   CRMPYTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	6,900	NA	12,374	NA
JLABOR1X	Heat, a/c, electrical work	CRMPYTYPE='1' & (CRMPYTYPE='3'   CRMPYTYPE='4') & (CRMCODEB='210'   CRMCODEB='220')	7,500	NA	10,306	NA
JLABOR1X	Plumbing and water heating	CRMPYTYPE='1' & (CRMPYTYPE='3'   CRMPYTYPE='4') & CRMCODEB='200'	2,336	NA	4,222	NA
JLABOR1X	Repair and replacement of hard surface flooring	CRMPYTYPE='1' & (CRMPYTYPE='3'   CRMPYTYPE='4') & CRMCODEB='230'	4,600	NA	7,082	NA
JLABOR1X	Roofing and gutters	CRMPYTYPE='1' & (CRMPYTYPE='3'   CRMPYTYPE='4') & CRMCODEB='260'	10,000	NA	15,333	NA

Variable	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
JLABOR1X	Capital improvement labor and materials (owned vacation)	CRMPTYPE='2' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	14,412	NA	20,050	NA
JLABOR1X	Repair and remodeling services	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (('120'<=CRMCODEB & CRMCODEB<='220')   CRMCODEB='240'   '260'<=CRMCODEB & CRMCODEB<='300'))	3,400	NA	7,967	NA
JLABOR1X	Repair and replacement of hard surface flooring	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='230'	SU	NA	SU	NA
JLABOR1X	Contractors labor and materials, supplies CU obtained, appliances provided by contractor, other property	CRMPTYPE='3' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	6,647	NA	14,132	NA
JLABOR1X	Expenses for other properties	CRMPTYPE='3' & (CRMTYPE='3'   CRMTYPE='4') & (('100'<=CRMCODEB & CRMCODEB<='240')   '260'<=CRMCODEB & CRMCODEB<='300'))	0	NA	513	NA
JLABOR2X	Labor and materials for dwellings under construction and additions	(CRMTYPE='4'   CRMTYPE='5') & '100'<=CRMCODEB & CRMCODEB<='110')	0	NA	398	NA
JLABOR2X	Repair or maintenance services	(CRMTYPE='4'   CRMTYPE='5') & (('120'<=CRMCODEB & CRMCODEB<='220')   CRMCODEB='240'   '260'<=CRMCODEB & CRMCODEB<='300'))	800	NA	3,219	NA
JLABOR2X	Repair and replacement of hard surface flooring	(CRMTYPE='4'   CRMTYPE='5') & CRMCODEB='230'	SU	NA	SU	NA

Variable	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
JLABOR2X	Capital improvement labor and materials (owned home)	CRMPTYPE='1' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	50,000	NA	73,172	NA
JLABOR2X	Other repair and maintenance services	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (('120'<=CRMCODEB & CRMCODEB<='160')   CRMCODEB='190'   CRMCODEB='240'   ('270'<=CRMCODEB & CRMCODEB<='300'))	15,000	NA	23,330	NA
JLABOR2X	Painting and papering	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	6,800	NA	9,876	NA
JLABOR2X	Heat, a/c, electrical work	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='210'   CRMCODEB='220')	8,000	NA	9,163	NA
JLABOR2X	Plumbing and water heating	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='200'	4,975	NA	8,182	NA
JLABOR2X	Repair and replacement of hard surface flooring	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='230'	3,700	NA	5,417	NA
JLABOR2X	Roofing and gutters	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='260'	10,000	NA	13,250	NA
JLABOR2X	Capital improvement labor and materials (owned vacation)	CRMPTYPE='2' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	19,000	NA	25,043	NA

Variable	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
JLABOR2X	Repair and remodeling services	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (('120'<=CRMCODEB & CRMCODEB<='220')   CRMCODEB='240'   '260'<=CRMCODEB & CRMCODEB<='300'))	5,100	NA	10,233	NA
JLABOR2X	Repair and replacement of hard surface flooring	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='230'	SU	NA	SU	NA
JLABOR2X	Contractors labor and materials, supplies CU obtained, appliances provided by contractor, other property	CRMPTYPE='3' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	7,500	NA	11,550	NA
JLABOR2X	Expenses for other properties	CRMPTYPE='3' & (CRMTYPE='3'   CRMTYPE='4') & (('100'<=CRMCODEB & CRMCODEB<='240')   '260'<=CRMCODEB & CRMCODEB<='300'))	150	NA	3,109	NA
JLABOR3X	Labor and materials for dwellings under construction and additions	(CRMPTYPE='4'   CRMPTYPE='5') & '100'<=CRMCODEB & CRMCODEB<='110')	140	NA	1,853	NA
JLABOR3X	Repair or maintenance services	(CRMPTYPE='4'   CRMPTYPE='5') & (('120'<=CRMCODEB & CRMCODEB<='220')   CRMCODEB='240'   '260'<=CRMCODEB & CRMCODEB<='300'))	1,620	NA	2,967	NA
JLABOR3X	Repair and replacement of hard surface flooring	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='230'	150	NA	600	NA
JLABOR3X	Capital improvement labor and materials (owned home)	CRMPTYPE='1' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	42,000	NA	81,750	NA

Variable	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
JLABOR3X	Other repair and maintenance services	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (('120'<=CRMCODEB & CRMCODEB<='160')   CRMCODEB='190'   CRMCODEB='240'   '270'<=CRMCODEB & CRMCODEB<='300'))	16,665	NA	29,100	NA
JLABOR3X	Painting and papering	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	7,000	NA	8,297	NA
JLABOR3X	Heat, a/c, electrical work	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='210'   CRMCODEB='220')	5,700	NA	9,820	NA
JLABOR3X	Plumbing and water heating	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='200'	4,700	NA	7,114	NA
JLABOR3X	Repair and replacement of hard surface flooring	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='230'	10,000	NA	16,333	NA
JLABOR3X	Roofing and gutters	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='260'	12,000	NA	16,500	NA
JLABOR3X	Capital improvement labor and materials (owned vacation)	CRMPTYPE='2' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	10,900	NA	23,392	NA
JLABOR3X	Repair and remodeling services	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (('120'<=CRMCODEB & CRMCODEB<='220')   CRMCODEB='240'   '260'<=CRMCODEB & CRMCODEB<='300'))	3,600	NA	9,667	NA

Variable	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
JLABOR3X	Repair and replacement of hard surface flooring	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='230'	SU	NA	SU	NA
JLABOR3X	Contractors labor and materials, supplies CU obtained, appliances provided by contractor, other property	CRMPTYPE='3' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	9,000	NA	23,617	NA
JLABOR3X	Expenses for other properties	CRMPTYPE='3' & (CRMTYPE='3'   CRMTYPE='4') & (('100'<=CRMCODEB & CRMCODEB<='240')   ('260'<=CRMCODEB & CRMCODEB<='300'))	160	NA	7,760	NA
JLCPRINX	Principal paid, home equity line of credit (owned home)	OWNYH EQ '100' OR OWNYH EQ '200'	15,610	-2,813	43,828	-5,213
JLCPRINX	Principal paid, home equity line of credit (owned vacation)	OWNYH EQ '300'	2,732	-635	4,565	-777
JLCPRINX	Principal paid, home equity line of credit (other property)	OWNYH EQ '400' OR OWNYH EQ '500'	214	SU	9,486	SU
LDGCOSTX	Lodging on out-of-town trips	NA	2,021	NA	3,918	NA
MEDPMTX	Eyecare services	MEDPCARY EQ '110'	450	NA	1,587	NA
MEDPMTX	Dental services	MEDPCARY EQ '200'	1,600	NA	3,181	NA
MEDPMTX	Hospital room and services	MEDPCARY EQ '330'	2,200	NA	5,411	NA
MEDPMTX	Service by professionals other than physician	MEDPCARY EQ '410'	780	NA	3,033	NA
MEDPMTX	Physician"s services	MEDPCARY EQ '420'	408	NA	1,052	NA
MEDPMTX	Lab tests, x-rays	MEDPCARY EQ '510'	698	NA	1,259	NA
MEDPMTX	Care in convalescent or nursing home	MEDPCARY EQ '520'	7,660	NA	8,525	NA
MEDPMTX	Other medical care services	MEDPCARY EQ '530'	1,100	NA	2,805	NA
MEDPMTX	Rental of supportive, convalescent medical equipment	MEDPCARY EQ '630'	154	NA	249	NA
MEDPMTX	Supportive and convalescent medical equipment	MEDPCARY EQ '640'	600	NA	1,754	NA
MEDPMTX	Rental of medical equipment	MEDPCARY EQ '650'	467	NA	667	NA
MEDPMTX	Medical equipment for general use	MEDPCARY EQ '660'	525	NA	1,695	NA
MEDRMBX	Eyecare services	MEDRCARY EQ '110'	410	NA	572	NA
MEDRMBX	Dental services	MEDRCARY EQ '200'	1,400	NA	4,133	NA
MEDRMBX	Hospital room and services	MEDRCARY EQ '330'	3,000	NA	4,227	NA
MEDRMBX	Service by professionals other than physician	MEDRCARY EQ '410'	790	NA	1,343	NA



Variable	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
MEDRMBX	Physician"s services	MEDRCARY EQ '420'	1,730	NA	3,831	NA
MEDRMBX	Lab tests, x-rays	MEDRCARY EQ '510'	785	NA	1,220	NA
MEDRMBX	Care in convalescent or nursing home	MEDRCARY EQ '520'	2,294	NA	6,740	NA
MEDRMBX	Other medical care services	MEDRCARY EQ '530'	4,800	NA	6,340	NA
MEDRMBX	Rental of supportive, convalescent medical equipment	MEDRCARY EQ '630'	21	NA	58	NA
MEDRMBX	Supportive and convalescent medical equipment	MEDRCARY EQ '640'	54	NA	112	NA
MEDRMBX	Rental of medical equipment	MEDRCARY EQ '650'	20	NA	55	NA
MEDRMBX	Medical equipment for general use	MEDRCARY EQ '660'	200	NA	326	NA
MISCEXPX	Occupational expenses	MISCCODE EQ '380' AND MISCMO EQ '13'	200	NA	344	NA
MISCEXPX	Occupational expenses	MISCCODE EQ '380' AND MISCMO NE '13'	733	NA	1,758	NA
MRTPMTG	Amount of last monthly payment, home equity loan (owned property)	(LOANTYPE EQ '2')	1,638	NA	2,982	NA
MRTPMTX	Amount of last monthly payment (owned property)	(LOANTYPE EQ '1')	3,300	NA	5,230	NA
NETPURX	Net purchase price of boat with motor after discount, trade-in, or rebate, including destination fee	VEHICYB EQ '160'	50,000	NA	95,312	NA
ORGMRTG	Original loan amount, home equity loan (loan obtained during interview quarter) (owned home)	(OWNYEQ EQ '100' OR OWNYEQ EQ '200') AND (LOANTYPE EQ '2')	180,000	NA	286,276	NA
ORGMRTG	Original loan amount, home equity loan (loan obtained during interview quarter) (owned vacation)	(OWNYEQ EQ '300') AND (LOANTYPE EQ '2')	137,024	NA	288,213	NA
ORGMRTG	Original loan amount, home equity loan (loan obtained during interview quarter) (other property)	(OWNYEQ EQ '400' OR OWNYEQ EQ '500') AND (LOANTYPE EQ '2')	12,000	NA	38,996	NA
ORGMRTX	Original loan amount (mortgage obtained during interview quarter) (other property)	(OWNYF EQ '400' OR OWNYF EQ '500') AND (LOANTYPE EQ '1')	290,000	NA	513,917	NA
ORGMRTX	Amount of mortgage (owned home)	(OWNYF EQ '100' OR OWNYF EQ '200') AND (LOANTYPE EQ '1')	416,657	NA	586,980	NA

<b>Variable</b>	<b>Description</b>	<b>Condition</b>	<b>2007 Upper Critical Value</b>	<b>2007 Lower Critical Value</b>	<b>2007 Upper Topcode Value</b>	<b>2007 Lower Topcode Value</b>
ORGMRTX	Amount of mortgage (vacation home)	(OWNYF EQ '300') AND (LOANTYPE EQ '1')	505,786	NA	845,174	NA
OWN_PURX	Purchase price of property (owned home)	OWNYB EQ '100' OR OWNYB EQ '200'	800,000	NA	1,512,823	NA
OWN_PURX	Purchase price of property (owned vacation)	OWNYB EQ '300'	1,200,000	NA	1,589,500	NA
OWN_PURX	Purchase price of property (other property)	OWNYB EQ '400' OR OWNYB EQ '500'	280,000	NA	439,650	NA
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')	2,301	NA	4,153	NA
PAYMT1G	Amount of mortgage payment in the first month of the reference period, home equity loan (vacation home)	(OWNYG EQ '300') AND (LOANTYPE EQ '2')	SU	NA	SU	NA
PAYMT1G	Amount of mortgage payment in the first month of the reference period, home equity loan (other property)	(OWNYG EQ '400' OR OWNYG EQ '500') AND (LOANTYPE EQ '2')	NA	NA	NA	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')	4,500	NA	7,281	NA
PAYMT1X	Amount of mortgage payment in the first month of the reference period (vacation home)	(OWNYF EQ '300') AND (LOANTYPE EQ '1')	3,180	NA	10,873	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')	2,216	NA	23,101	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')	2,301	NA	4,153	NA
PAYMT2G	Amount of mortgage payment in the second month of the reference period, home equity loan (vacation home)	(OWNYG EQ '300') AND (LOANTYPE EQ '2')	SU	NA	SU	NA
PAYMT2G	Amount of mortgage payment in the second month of the reference period, home equity loan (other property)	(OWNYG EQ '400' OR OWNYG EQ '500') AND (LOANTYPE EQ '2')	NA	NA	NA	NA

<b>Variable</b>	<b>Description</b>	<b>Condition</b>	<b>2007 Upper Critical Value</b>	<b>2007 Lower Critical Value</b>	<b>2007 Upper Topcode Value</b>	<b>2007 Lower Topcode Value</b>
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')	4,500	NA	21,763	NA
PAYMT2X	Amount of mortgage payment in the second month of the reference period (vacation home)	(OWNYF EQ '300') AND (LOANTYPE EQ '1')	5,342	NA	13,019	NA
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')	2,216	NA	23,101	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')	2,301	NA	4,302	NA
PAYMT3G	Amount of mortgage payment in the third month of the reference period, home equity loan (vacation home)	(OWNYG EQ '300') AND (LOANTYPE EQ '2')	SU	NA	SU	NA
PAYMT3G	Amount of mortgage payment in the third month of the reference period, home equity loan (other property)	(OWNYG EQ '400' OR OWNYG EQ '500') AND (LOANTYPE EQ '2')	NA	NA	NA	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')	3,900	NA	7,101	NA
PAYMT3X	Amount of mortgage payment in the third month of the reference period (vacation home)	(OWNYF EQ '300') AND (LOANTYPE EQ '1')	5,342	NA	11,931	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')	1,800	NA	22,717	NA
PROPVALX	Approximate value property would sell for on today's market (vacation home)	OWNYB EQ '300'	900,000	NA	2,190,902	NA
PROPVALX	Approximate value property would sell for on today's market (other property)	OWNYB EQ '400' OR OWNYB EQ '500'	800,000	NA	1,356,000	NA
PROPVLX1	Estimated market value of owned home	OWNYB EQ '100' OR OWNYB EQ '200'	900,000	NA	1,662,766	NA
PROPVLX2	Estimated market value of owned home	OWNYI EQ '100'	900,000	NA	1,606,801	NA

Variable	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
PROPVLX2	Approximate value property would sell for on today's market (other property)	OWNYI EQ '200' OR OWNYI EQ '400' OR OWNYI EQ '500'	NA	NA	NA	NA
PROPVLX2	Approximate value property would sell for on today's market (timeshare)	OWNYI EQ '300' AND TIMESHRI EQ '1'	500,000	NA	883,333	NA
PROPVLX2	Approximate value property would sell for on today's market (vacation home)	OWNYI EQ '300' AND TIMESHRI NE '1'	1,200,000	NA	3,808,900	NA
QADCAB1X	Cable and satellite television services	NA	150	NA	184	NA
QADCAB2X	Cable and satellite television services	NA	145	NA	165	NA
QADCAB3X	Cable and satellite television services	NA	156	NA	202	NA
QADFUL1X	Water/sewer maint. (owned vacation)	(UTILY EQ '200' OR UTILY EQ '220') AND (UTLPTYPE EQ '2')	124	NA	227	NA
QADFUL1X	Water/sewer maint. (renter)	(UTILY EQ '200' OR UTILY EQ '220') AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	200	NA	311	NA
QADFUL1X	Water/sewer maint. (rented vacation)	(UTILY EQ '200' OR UTILY EQ '220') AND (UTLPTYPE EQ '6')	80	NA	110	NA
QADFUL1X	Water/sewer maint. (owned home)	(UTILY EQ '200' OR UTILY EQ '220') AND UTLPTYPE EQ '1'	248	NA	413	NA
QADFUL1X	Electricity (owned vacation)	UTILY EQ '100' AND (UTLPTYPE EQ '2')	451	NA	710	NA
QADFUL1X	Electricity (renter)	UTILY EQ '100' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	450	NA	523	NA
QADFUL1X	Electricity (rented vacation)	UTILY EQ '100' AND (UTLPTYPE EQ '6')	225	NA	276	NA
QADFUL1X	Electricity (owned home)	UTILY EQ '100' AND UTLPTYPE EQ '1'	500	NA	727	NA
QADFUL1X	Utility--natural gas (owned vacation)	UTILY EQ '110' AND (UTLPTYPE EQ '2')	230	NA	509	NA
QADFUL1X	Utility--natural gas (renter)	UTILY EQ '110' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	388	NA	615	NA
QADFUL1X	Utility--natural gas (rented vacation)	UTILY EQ '110' AND (UTLPTYPE EQ '6')	145	NA	253	NA

Variable	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
QADFUL1X	Utility--natural gas (owned home)	UTILY EQ '110' AND UTLPTYPE EQ '1'	461	NA	661	NA
QADFUL1X	Fuel oil (owned vacation)	UTILY EQ '130' AND (UTLPTYPE EQ '2')	396	NA	1,088	NA
QADFUL1X	Fuel oil (renter)	UTILY EQ '130' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	423	NA	705	NA
QADFUL1X	Fuel oil (rented vacation)	UTILY EQ '130' AND (UTLPTYPE EQ '6')	300	NA	442	NA
QADFUL1X	Fuel oil (owned home)	UTILY EQ '130' AND UTLPTYPE EQ '1'	1,858	NA	2,450	NA
QADFUL1X	Gas, btld/tank (owned vacation)	UTILY EQ '150' AND (UTLPTYPE EQ '2')	170	NA	527	NA
QADFUL1X	Gas, btld/tank (renter)	UTILY EQ '150' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	544	NA	605	NA
QADFUL1X	Gas, btld/tank (rented vacation)	UTILY EQ '150' AND (UTLPTYPE EQ '6')	SU	NA	SU	NA
QADFUL1X	Gas, btld/tank (owned home)	UTILY EQ '150' AND UTLPTYPE EQ '1'	1,288	NA	1,398	NA
QADFUL1X	Coal, wood, other fuels (owned vacation)	UTILY EQ '180' AND (UTLPTYPE EQ '2')	NA	NA	NA	NA
QADFUL1X	Coal, wood, other fuels (renter)	UTILY EQ '180' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	200	NA	465	NA
QADFUL1X	Coal, wood, other fuels (rented vacation)	UTILY EQ '180' AND (UTLPTYPE EQ '6')	NA	NA	NA	NA
QADFUL1X	Coal, wood, other fuels (owned home)	UTILY EQ '180' AND UTLPTYPE EQ '1'	633	NA	975	NA
QADFUL1X	Trash/garb. coll. (owned vacation)	UTILY EQ '210' AND (UTLPTYPE EQ '2')	82	NA	110	NA
QADFUL1X	Trash/garb. coll. (renter)	UTILY EQ '210' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	140	NA	202	NA
QADFUL1X	Trash/garb. coll. (rented vacation)	UTILY EQ '210' AND (UTLPTYPE EQ '6')	19	NA	40	NA
QADFUL1X	Trash/garb. coll. (owned home)	UTILY EQ '210' AND UTLPTYPE EQ '1'	132	NA	202	NA
QADFUL1X	Water softening service	UTILY EQ '270' AND (UTLPTYPE EQ '2')	SU	NA	SU	NA
QADFUL1X	Expenses for other properties	UTILY EQ '270' AND (UTLPTYPE EQ '3')	NA	NA	NA	NA

Variable	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
QADFUL1X	Water softening service	UTILY EQ '270' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	60	NA	113	NA
QADFUL1X	Repair or maintenance services	UTILY EQ '270' AND (UTLPTYPE EQ '6')	NA	NA	NA	NA
QADFUL1X	Water softening service	UTILY EQ '270' AND UTLPTYPE EQ '1'	180	NA	230	NA
QADFUL1X	Septic tank clean. (owned vacation)	UTILY EQ '280' AND (UTLPTYPE EQ '2')	NA	NA	NA	NA
QADFUL1X	Expenses for other properties	UTILY EQ '280' AND (UTLPTYPE EQ '3')	NA	NA	NA	NA
QADFUL1X	Septic tank clean. (renter)	UTILY EQ '280' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	NA	NA	NA	NA
QADFUL1X	Septic tank clean. (rented vacation)	UTILY EQ '280' AND (UTLPTYPE EQ '6')	NA	NA	NA	NA
QADFUL1X	Septic tank clean. (owned home)	UTILY EQ '280' AND UTLPTYPE EQ '1'	400	NA	786	NA
QADFUL1X	Piped in water/sewage maintenance (other property)	(UTILY EQ '200' OR UTILY EQ '220') AND (UTLPTYPE EQ '3')	62	NA	282	NA
QADFUL1X	Electricity (other property)	UTILY EQ '100' AND (UTLPTYPE EQ '3')	200	NA	286	NA
QADFUL1X	Utility--natural gas (other property)	UTILY EQ '110' AND (UTLPTYPE EQ '3')	250	NA	517	NA
QADFUL1X	Fuel oil (other property)	UTILY EQ '130' AND (UTLPTYPE EQ '3')	SU	NA	SU	NA
QADFUL1X	Gas, btld/tank (other property)	UTILY EQ '150' AND (UTLPTYPE EQ '3')	NA	NA	NA	NA
QADFUL1X	Coal, wood, other fuels (other property)	UTILY EQ '180' AND (UTLPTYPE EQ '3')	NA	NA	NA	NA
QADFUL1X	Trash/garb. coll. (other property)	UTILY EQ '210' AND (UTLPTYPE EQ '3')	72	NA	120	NA
QADFUL2X	Water/sewer maint. (owned vacation)	(UTILY EQ '200' OR UTILY EQ '220') AND (UTLPTYPE EQ '2')	140	NA	302	NA
QADFUL2X	Water/sewer maint. (renter)	(UTILY EQ '200' OR UTILY EQ '220') AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	176	NA	309	NA
QADFUL2X	Water/sewer maint. (rented vacation)	(UTILY EQ '200' OR UTILY EQ '220') AND (UTLPTYPE EQ '6')	80	NA	129	NA

Variable	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
QADFUL2X	Water/sewer maint. (owned home)	(UTILY EQ '200' OR UTILY EQ '220') AND UTLPTYPE EQ '1'	213	NA	312	NA
QADFUL2X	Electricity (owned vacation)	UTILY EQ '100' AND (UTLPTYPE EQ '2')	355	NA	633	NA
QADFUL2X	Electricity (renter)	UTILY EQ '100' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	400	NA	504	NA
QADFUL2X	Electricity (rented vacation)	UTILY EQ '100' AND (UTLPTYPE EQ '6')	255	NA	305	NA
QADFUL2X	Electricity (owned home)	UTILY EQ '100' AND UTLPTYPE EQ '1'	500	NA	742	NA
QADFUL2X	Utility--natural gas (owned vacation)	UTILY EQ '110' AND (UTLPTYPE EQ '2')	230	NA	314	NA
QADFUL2X	Utility--natural gas (renter)	UTILY EQ '110' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	305	NA	418	NA
QADFUL2X	Utility--natural gas (rented vacation)	UTILY EQ '110' AND (UTLPTYPE EQ '6')	123	NA	249	NA
QADFUL2X	Utility--natural gas (owned home)	UTILY EQ '110' AND UTLPTYPE EQ '1'	454	NA	688	NA
QADFUL2X	Fuel oil (owned vacation)	UTILY EQ '130' AND (UTLPTYPE EQ '2')	400	NA	1,175	NA
QADFUL2X	Fuel oil (renter)	UTILY EQ '130' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	612	NA	892	NA
QADFUL2X	Fuel oil (rented vacation)	UTILY EQ '130' AND (UTLPTYPE EQ '6')	0	NA	273	NA
QADFUL2X	Fuel oil (owned home)	UTILY EQ '130' AND UTLPTYPE EQ '1'	1,936	NA	2,275	NA
QADFUL2X	Gas, btld/tank (owned vacation)	UTILY EQ '150' AND (UTLPTYPE EQ '2')	205	NA	484	NA
QADFUL2X	Gas, btld/tank (renter)	UTILY EQ '150' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	420	NA	634	NA
QADFUL2X	Gas, btld/tank (rented vacation)	UTILY EQ '150' AND (UTLPTYPE EQ '6')	SU	NA	SU	NA
QADFUL2X	Gas, btld/tank (owned home)	UTILY EQ '150' AND UTLPTYPE EQ '1'	944	NA	1,078	NA
QADFUL2X	Coal, wood, other fuels (owned vacation)	UTILY EQ '180' AND (UTLPTYPE EQ '2')	SU	NA	SU	NA
QADFUL2X	Coal, wood, other fuels (renter)	UTILY EQ '180' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	200	NA	420	NA

Variable	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
QADFUL2X	Coal, wood, other fuels (rented vacation)	UTILY EQ '180' AND (UTLPTYPE EQ '6')	NA	NA	NA	NA
QADFUL2X	Coal, wood, other fuels (owned home)	UTILY EQ '180' AND UTLPTYPE EQ '1'	670	NA	797	NA
QADFUL2X	Trash/garb. coll. (owned vacation)	UTILY EQ '210' AND (UTLPTYPE EQ '2')	87	NA	113	NA
QADFUL2X	Trash/garb. coll. (renter)	UTILY EQ '210' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	105	NA	221	NA
QADFUL2X	Trash/garb. coll. (rented vacation)	UTILY EQ '210' AND (UTLPTYPE EQ '6')	19	NA	36	NA
QADFUL2X	Trash/garb. coll. (owned home)	UTILY EQ '210' AND UTLPTYPE EQ '1'	145	NA	276	NA
QADFUL2X	Water softening service	UTILY EQ '270' AND (UTLPTYPE EQ '2')	SU	NA	SU	NA
QADFUL2X	Expenses for other properties	UTILY EQ '270' AND (UTLPTYPE EQ '3')	NA	NA	NA	NA
QADFUL2X	Water softening service	UTILY EQ '270' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	57	NA	72	NA
QADFUL2X	Repair or maintenance services	UTILY EQ '270' AND (UTLPTYPE EQ '6')	NA	NA	NA	NA
QADFUL2X	Water softening service	UTILY EQ '270' AND UTLPTYPE EQ '1'	100	NA	216	NA
QADFUL2X	Septic tank clean. (owned vacation)	UTILY EQ '280' AND (UTLPTYPE EQ '2')	NA	NA	NA	NA
QADFUL2X	Expenses for other properties	UTILY EQ '280' AND (UTLPTYPE EQ '3')	NA	NA	NA	NA
QADFUL2X	Septic tank clean. (renter)	UTILY EQ '280' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	SU	NA	SU	NA
QADFUL2X	Septic tank clean. (rented vacation)	UTILY EQ '280' AND (UTLPTYPE EQ '6')	NA	NA	NA	NA
QADFUL2X	Septic tank clean. (owned home)	UTILY EQ '280' AND UTLPTYPE EQ '1'	280	NA	402	NA
QADFUL2X	Piped in water/sewage maintenance (other property)	(UTILY EQ '200' OR UTILY EQ '220') AND (UTLPTYPE EQ '3')	65	NA	134	NA
QADFUL2X	Electricity (other property)	UTILY EQ '100' AND (UTLPTYPE EQ '3')	209	NA	290	NA
QADFUL2X	Utility--natural gas (other property)	UTILY EQ '110' AND (UTLPTYPE EQ '3')	250	NA	346	NA
QADFUL2X	Fuel oil (other property)	UTILY EQ '130' AND (UTLPTYPE EQ '3')	NA	NA	NA	NA



Variable	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
QADFUL2X	Gas, btld/tank (other property)	UTILY EQ '150' AND (UTLPTYPE EQ '3')	SU	NA	SU	NA
QADFUL2X	Coal, wood, other fuels (other property)	UTILY EQ '180' AND (UTLPTYPE EQ '3')	NA	NA	NA	NA
QADFUL2X	Trash/garb. coll. (other property)	UTILY EQ '210' AND (UTLPTYPE EQ '3')	33	NA	68	NA
QADFUL3X	Water/sewer maint. (owned vacation)	(UTILY EQ '200' OR UTILY EQ '220') AND (UTLPTYPE EQ '2')	158	NA	277	NA
QADFUL3X	Water/sewer maint. (renter)	(UTILY EQ '200' OR UTILY EQ '220') AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	200	NA	383	NA
QADFUL3X	Water/sewer maint. (rented vacation)	(UTILY EQ '200' OR UTILY EQ '220') AND (UTLPTYPE EQ '6')	68	NA	89	NA
QADFUL3X	Water/sewer maint. (owned home)	(UTILY EQ '200' OR UTILY EQ '220') AND UTLPTYPE EQ '1'	230	NA	384	NA
QADFUL3X	Electricity (owned vacation)	UTILY EQ '100' AND (UTLPTYPE EQ '2')	366	NA	630	NA
QADFUL3X	Electricity (renter)	UTILY EQ '100' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	400	NA	516	NA
QADFUL3X	Electricity (rented vacation)	UTILY EQ '100' AND (UTLPTYPE EQ '6')	255	NA	320	NA
QADFUL3X	Electricity (owned home)	UTILY EQ '100' AND UTLPTYPE EQ '1'	500	NA	702	NA
QADFUL3X	Utility--natural gas (owned vacation)	UTILY EQ '110' AND (UTLPTYPE EQ '2')	224	NA	362	NA
QADFUL3X	Utility--natural gas (renter)	UTILY EQ '110' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	343	NA	456	NA
QADFUL3X	Utility--natural gas (rented vacation)	UTILY EQ '110' AND (UTLPTYPE EQ '6')	118	NA	230	NA
QADFUL3X	Utility--natural gas (owned home)	UTILY EQ '110' AND UTLPTYPE EQ '1'	450	NA	667	NA
QADFUL3X	Fuel oil (owned vacation)	UTILY EQ '130' AND (UTLPTYPE EQ '2')	550	NA	1,161	NA
QADFUL3X	Fuel oil (renter)	UTILY EQ '130' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	625	NA	700	NA
QADFUL3X	Fuel oil (rented vacation)	UTILY EQ '130' AND (UTLPTYPE EQ '6')	40	NA	381	NA

Variable	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
QADFUL3X	Fuel oil (owned home)	UTILY EQ '130' AND UTLPTYPE EQ '1'	1,570	NA	2,065	NA
QADFUL3X	Gas, btld/tank (owned vacation)	UTILY EQ '150' AND (UTLPTYPE EQ '2')	386	NA	713	NA
QADFUL3X	Gas, btld/tank (renter)	UTILY EQ '150' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	544	NA	848	NA
QADFUL3X	Gas, btld/tank (rented vacation)	UTILY EQ '150' AND (UTLPTYPE EQ '6')	16	NA	444	NA
QADFUL3X	Gas, btld/tank (owned home)	UTILY EQ '150' AND UTLPTYPE EQ '1'	1,405	NA	2,333	NA
QADFUL3X	Coal, wood, other fuels (owned vacation)	UTILY EQ '180' AND (UTLPTYPE EQ '2')	SU	NA	SU	NA
QADFUL3X	Coal, wood, other fuels (renter)	UTILY EQ '180' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	70	NA	128	NA
QADFUL3X	Coal, wood, other fuels (rented vacation)	UTILY EQ '180' AND (UTLPTYPE EQ '6')	NA	NA	NA	NA
QADFUL3X	Coal, wood, other fuels (owned home)	UTILY EQ '180' AND UTLPTYPE EQ '1'	710	NA	848	NA
QADFUL3X	Trash/garb. coll. (owned vacation)	UTILY EQ '210' AND (UTLPTYPE EQ '2')	100	NA	221	NA
QADFUL3X	Trash/garb. coll. (renter)	UTILY EQ '210' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	113	NA	283	NA
QADFUL3X	Trash/garb. coll. (rented vacation)	UTILY EQ '210' AND (UTLPTYPE EQ '6')	22	NA	41	NA
QADFUL3X	Trash/garb. coll. (owned home)	UTILY EQ '210' AND UTLPTYPE EQ '1'	150	NA	219	NA
QADFUL3X	Water softening service	UTILY EQ '270' AND (UTLPTYPE EQ '2')	SU	NA	SU	NA
QADFUL3X	Expenses for other properties	UTILY EQ '270' AND (UTLPTYPE EQ '3')	NA	NA	NA	NA
QADFUL3X	Water softening service	UTILY EQ '270' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	70	NA	117	NA
QADFUL3X	Repair or maintenance services	UTILY EQ '270' AND (UTLPTYPE EQ '6')	NA	NA	NA	NA
QADFUL3X	Water softening service	UTILY EQ '270' AND UTLPTYPE EQ '1'	200	NA	258	NA
QADFUL3X	Septic tank clean. (owned vacation)	UTILY EQ '280' AND (UTLPTYPE EQ '2')	NA	NA	NA	NA
QADFUL3X	Expenses for other properties	UTILY EQ '280' AND (UTLPTYPE EQ '3')	NA	NA	NA	NA

Variable	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
QADFUL3X	Septic tank clean. (renter)	UTILY EQ '280' AND (UTLPTYPE EQ '4' OR UTLPTYPE EQ '5')	NA	NA	NA	NA
QADFUL3X	Septic tank clean. (rented vacation)	UTILY EQ '280' AND (UTLPTYPE EQ '6')	NA	NA	NA	NA
QADFUL3X	Septic tank clean. (owned home)	UTILY EQ '280' AND UTLPTYPE EQ '1'	450	NA	543	NA
QADFUL3X	Piped in water/sewage maintenance (other property)	(UTILY EQ '200' OR UTILY EQ '220') AND (UTLPTYPE EQ '3')	99	NA	300	NA
QADFUL3X	Electricity (other property)	UTILY EQ '100' AND (UTLPTYPE EQ '3')	209	NA	306	NA
QADFUL3X	Utility--natural gas (other property)	UTILY EQ '110' AND (UTLPTYPE EQ '3')	136	NA	333	NA
QADFUL3X	Fuel oil (other property)	UTILY EQ '130' AND (UTLPTYPE EQ '3')	NA	NA	NA	NA
QADFUL3X	Gas, btld/tank (other property)	UTILY EQ '150' AND (UTLPTYPE EQ '3')	SU	NA	SU	NA
QADFUL3X	Coal, wood, other fuels (other property)	UTILY EQ '180' AND (UTLPTYPE EQ '3')	NA	NA	NA	NA
QADFUL3X	Trash/garb. coll. (other property)	UTILY EQ '210' AND (UTLPTYPE EQ '3')	52	NA	92	NA
QADINE1X	Computer information services	NA	80	NA	119	NA
QADINE2X	Computer information services	NA	84	NA	112	NA
QADINE3X	Computer information services	NA	84	NA	124	NA
QADPSP2X	Materials for additions, finishing basements, remodeling rooms	(CRMPTYPE='4'   CRMPTYPE='5') & (('100'<=CRMCODEB & CRMCODEB<='130')   CRMCODEB='150')	400	NA	1,071	NA
QADPSP2X	Total cost of tools, equipment, and supplies purchased for painting and wall papering	(CRMPTYPE='4'   CRMPTYPE='5') & (CRMCODEB='170'   CRMCODEB='180')	54	NA	104	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'))	50	NA	156	NA
QADPSP2X	Electrical supplies, heating and cooling equipment	(CRMPTYPE='4'   CRMPTYPE='5') & (CRMCODEB='210'   CRMCODEB='220')	65	NA	80	NA

Variable	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
QADPSP2X	Material for insulation, other maintenance and repair	(CRMPTYPE='4'   CRMPTYPE='5') & (CRMCODEB='240'   CRMCODEB='300')	112	NA	618	NA
QADPSP2X	Material for landscape maintenance	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='140'	50	NA	213	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='160'	NA	NA	NA	NA
QADPSP2X	Plumbing supplies and equipment	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='200'	54	NA	607	NA
QADPSP2X	Material for hard surface flooring	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='230'	75	NA	245	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='290'	NA	NA	NA	NA
QADPSP2X	Materials and supplies purchased for insulation, dwellings under constr, additions, finishing, remodeling, landscaping, etc.	CRMPTYPE='1' & (CRMPTYPE='1'   CRMPTYPE='2'   CRMPTYPE='5')	7,500	NA	9,183	NA
QADPSP2X	Materials to finish basement, remodel rooms or build patios, walks, etc. (maint., repair and repl. - owned properties)	CRMPTYPE='1' & (CRMPTYPE='3'   CRMPTYPE='4') & (CRMCODEB='120'   CRMCODEB='130'   CRMCODEB='150')	NA	NA	NA	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')	1,444	NA	2,846	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')	1,000	NA	2,440	NA

Variable	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
QADPSP2X	Electrical supplies, heating and cooling equipment	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='210'   CRMCODEB='220')	715	NA	1,767	NA
QADPSP2X	Material for insulation, other maintenance and repair	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='240'   CRMCODEB='300')	1,000	NA	1,436	NA
QADPSP2X	Materials for landscaping maintenance	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='140'	NA	NA	NA	NA
QADPSP2X	Total cost of materials purchased for patios, walks, fences, driveways, masonry,brick, stucco, plastering, panels, roofing, gutters, etc.	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='160'	500	NA	733	NA
QADPSP2X	Plumbing supplies and equipment	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='200'	600	NA	706	NA
QADPSP2X	Materials for hard surface flooring, repair and replacement	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='230'	2,200	NA	5,333	NA
QADPSP2X	Materials and equipment for roof and gutters	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='260'	500	NA	2,074	NA
QADPSP2X	Total cost of materials purchased for patios, walks, fences, driveways, masonry,brick, stucco, plastering, panels, roofing, gutters, etc.	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='290'	17	NA	878	NA
QADPSP2X	Supplies purchased for additions, maintenance and repairs, and new construction	CRMPTYPE='2' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	200	NA	3,488	NA

Variable	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
QADPSP2X	Material for finishing basements and remodeling rooms	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='120'   CRMCODEB='130'   CRMCODEB='150')	SU	NA	SU	NA
QADPSP2X	Total cost of tools, equipment, and supplies purchased for painting and wall papering	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	0	NA	150	NA
QADPSP2X	Total cost of materials purchased for plastering, paneling, roofing, gutters, downspouts, siding, windows, doors, screens, awnings, patios, walks, fences, drives, masonry, brick, and stucco	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='190'   ('260' <= CRMCODEB & CRMCODEB <='280'))	SU	NA	SU	NA
QADPSP2X	Electrical supplies, heating and cooling equipment	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='210'   CRMCODEB='220')	SU	NA	SU	NA
QADPSP2X	Material for insulation, other maintenance and repair	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='240'   CRMCODEB='300')	SU	NA	SU	NA
QADPSP2X	Materials for landscaping maintenance	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='140'	NA	NA	NA	NA
QADPSP2X	Total cost of materials purchased for plastering, paneling, roofing, gutters, downspouts, siding, windows, doors, screens, awnings, patios, walks, fences, drives, masonry, brick, and stucco	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='160'	NA	NA	NA	NA
QADPSP2X	Plumbing supplies and equipment	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='200'	NA	NA	NA	NA
QADPSP2X	Materials for hard surface flooring	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='230'	NA	NA	NA	NA

Variable	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
QADPSP2X	Total cost of materials purchased for plastering, paneling, roofing, gutters, downspouts, siding, windows, doors, screens, awnings, patios, walks, fences, drives, masonry, brick, and stucco	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='290'	NA	NA	NA	NA
QADPSP2X	Contractors labor and materials, supplies CU obtained, appliances provided by contractor, other property	CRMPTYPE='3' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	200	NA	1,367	NA
QADPSP2X	Expenses for other properties	CRMPTYPE='3' & (CRMTYPE='3'   CRMTYPE='4') & (('120'<=CRMCODEB & CRMCODEB<='240')   ('260'<=CRMCODEB & CRMCODEB<='300'))	SU	NA	SU	NA
QADPSP3X	Materials for additions, finishing basements, remodeling rooms	(CRMPTYPE='4'   CRMTYPE='5') & (('100'<=CRMCODEB & CRMCODEB<='130')   CRMCODEB='150')	2,167	NA	49,333	NA
QADPSP3X	Total cost of tools, equipment, and supplies purchased for painting and wall papering	(CRMPTYPE='4'   CRMTYPE='5') & (CRMCODEB='170'   CRMCODEB='180')	250	NA	370	NA
QADPSP3X	Total cost of materials purchased for patios, walks, fences, driveways, masonry, brick, stucco, plastering, panels, roofing, gutters, etc.	(CRMPTYPE='4'   CRMTYPE='5') & (CRMCODEB='190'   ('260'<=CRMCODEB & CRMCODEB<='280'))	25	NA	219	NA
QADPSP3X	Electrical supplies, heating and cooling equipment	(CRMPTYPE='4'   CRMTYPE='5') & (CRMCODEB='210'   CRMCODEB='220')	340	NA	587	NA
QADPSP3X	Material for insulation, other maintenance and repair	(CRMPTYPE='4'   CRMTYPE='5') & (CRMCODEB='240'   CRMCODEB='300')	100	NA	592	NA
QADPSP3X	Material for landscape maintenance	(CRMPTYPE='4'   CRMTYPE='5') & CRMCODEB='140'	5	NA	192	NA

Variable	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
QADPSP3X	Total cost of materials purchased for patios, walks, fences, driveways, masonry,brick, stucco, plastering, panels, roofing, gutters, etc.	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='160'	SU	NA	SU	NA
QADPSP3X	Plumbing supplies and equipment	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='200'	155	NA	330	NA
QADPSP3X	Material for hard surface flooring	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='230'	100	NA	727	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='290'	SU	NA	SU	NA
QADPSP3X	Materials and supplies purchased for insulation, dwellings under constr, additions, finishing, remodeling, landscaping, etc.	CRMPTYPE='1' & (CRMPTYPE='1'   CRMPTYPE='2'   CRMPTYPE='5')	10,000	NA	15,333	NA
QADPSP3X	Materials to finish basement, remodel rooms or build patios, walks, etc. (maint., repair and repl. - owned properties)	CRMPTYPE='1' & (CRMPTYPE='3'   CRMPTYPE='4') & (CRMCODEB='120'   CRMCODEB='130'   CRMCODEB='150')	NA	NA	NA	NA
QADPSP3X	Total cost of tools, equipment, and supplies purchased for painting and wall papering	CRMPTYPE='1' & (CRMPTYPE='3'   CRMPTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	1,100	NA	2,101	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')	775	NA	3,200	NA
QADPSP3X	Electrical supplies, heating and cooling equipment	CRMPTYPE='1' & (CRMPTYPE='3'   CRMPTYPE='4') & (CRMCODEB='210'   CRMCODEB='220')	250	NA	1,263	NA



Variable	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
QADPSP3X	Material for insulation, other maintenance and repair	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='240'   CRMCODEB='300')	751	NA	2,760	NA
QADPSP3X	Materials for landscaping maintenance	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='140'	NA	NA	NA	NA
QADPSP3X	Total cost of materials purchased for patios, walks, fences, driveways, masonry,brick, stucco, plastering, panels, roofing, gutters, etc.	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='160'	600	NA	1,117	NA
QADPSP3X	Plumbing supplies and equipment	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='200'	500	NA	857	NA
QADPSP3X	Materials for hard surface flooring, repair and replacement	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='230'	1,200	NA	3,900	NA
QADPSP3X	Materials and equipment for roof and gutters	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='260'	1,900	NA	3,433	NA
QADPSP3X	Total cost of materials purchased for patios, walks, fences, driveways, masonry,brick, stucco, plastering, panels, roofing, gutters, etc.	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='290'	0	NA	388	NA
QADPSP3X	Supplies purchased for additions, maintenance and repairs, and new construction	CRMPTYPE='2' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	1,000	NA	7,933	NA
QADPSP3X	Material for finishing basements and remodeling rooms	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='120'   CRMCODEB='130'   CRMCODEB='150')	NA	NA	NA	NA

Variable	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
QADPSP3X	Total cost of tools, equipment, and supplies purchased for painting and wall papering	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	25	NA	188	NA
QADPSP3X	Total cost of materials purchased for plastering, paneling, roofing, gutters, downspouts, siding, windows, doors,screens, awnings, patios, walks, fences, drives, masonry, brick, and stucco	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='190'   ('260'<=CRMCODEB & CRMCODEB<='280'))	0	NA	740	NA
QADPSP3X	Electrical supplies, heating and cooling equipment	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='210'   CRMCODEB='220')	NA	NA	NA	NA
QADPSP3X	Material for insulation, other maintenance and repair	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='240'   CRMCODEB='300')	0	NA	763	NA
QADPSP3X	Materials for landscaping maintenance	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='140'	NA	NA	NA	NA
QADPSP3X	Total cost of materials purchased for plastering, paneling, roofing, gutters, downspouts, siding, windows, doors,screens, awnings, patios, walks, fences, drives, masonry, brick, and stucco	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='160'	NA	NA	NA	NA
QADPSP3X	Plumbing supplies and equipment	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='200'	NA	NA	NA	NA
QADPSP3X	Materials for hard surface flooring	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='230'	SU	NA	SU	NA

Variable	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
QADPSP3X	Total cost of materials purchased for plastering, paneling, roofing, gutters, downspouts, siding, windows, doors, screens, awnings, patios, walks, fences, drives, masonry, brick, and stucco	CRMPTYPE='2' & (CRMPTYPE='3'   CRMPTYPE='4') & CRMCODEB='290'	NA	NA	NA	NA
QADPSP3X	Contractors labor and materials, supplies CU obtained, appliances provided by contractor, other property	CRMPTYPE='3' & (CRMPTYPE='1'   CRMPTYPE='2'   CRMPTYPE='5')	200	NA	1,620	NA
QADPSP3X	Expenses for other properties	CRMPTYPE='3' & (CRMPTYPE='3'   CRMPTYPE='4') & (('120' <= CRMCODEB & CRMCODEB <= '240')   ('260' <= CRMCODEB & CRMCODEB <= '300'))	SU	NA	SU	NA
QADPSPLX	Materials for additions, finishing basements, remodeling rooms	(CRMPTYPE='4'   CRMPTYPE='5') & (('100' <= CRMCODEB & CRMCODEB <= '130')   CRMCODEB='150')	615	NA	1,588	NA
QADPSPLX	Total cost of tools, equipment, and supplies purchased for painting and wall papering	(CRMPTYPE='4'   CRMPTYPE='5') & (CRMCODEB='170'   CRMCODEB='180')	200	NA	425	NA
QADPSPLX	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'))	85	NA	227	NA
QADPSPLX	Electrical supplies, heating and cooling equipment	(CRMPTYPE='4'   CRMPTYPE='5') & (CRMCODEB='210'   CRMCODEB='220')	60	NA	167	NA
QADPSPLX	Material for insulation, other maintenance and repair	(CRMPTYPE='4'   CRMPTYPE='5') & (CRMCODEB='240'   CRMCODEB='300')	70	NA	662	NA
QADPSPLX	Material for landscape maintenance	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='140'	50	NA	214	NA

Variable	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
QADPSPLX	Total cost of materials purchased for patios, walks, fences, driveways, masonry,brick, stucco, plastering, panels, roofing, gutters, etc.	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='160'	NA	NA	NA	NA
QADPSPLX	Plumbing supplies and equipment	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='200'	100	NA	624	NA
QADPSPLX	Material for hard surface flooring	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='230'	200	NA	1,928	NA
QADPSPLX	Total cost of materials purchased for patios, walks, fences, driveways, masonry,brick, stucco, plastering, panels, roofing, gutters, etc.	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='290'	SU	NA	SU	NA
QADPSPLX	Materials and supplies purchased for insulation, dwellings under constr, additions, finishing, remodeling, landscaping, etc.	CRMPTYPE='1' & (CRMPTYPE='1'   CRMPTYPE='2'   CRMPTYPE='5')	10,000	NA	26,721	NA
QADPSPLX	Materials to finish basement, remodel rooms or build patios, walks, etc. (maint., repair and repl. - owned properties)	CRMPTYPE='1' & (CRMPTYPE='3'   CRMPTYPE='4') & (CRMCODEB='120'   CRMCODEB='130'   CRMCODEB='150')	NA	NA	NA	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')	1,125	NA	1,575	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='190'   CRMCODEB='270'   CRMCODEB='280')	2,500	NA	4,366	NA
QADPSPLX	Electrical supplies, heating and cooling equipment	CRMPTYPE='1' & (CRMPTYPE='3'   CRMPTYPE='4') & (CRMCODEB='210'   CRMCODEB='220')	400	NA	675	NA

Variable	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
QADPSPLX	Material for insulation, other maintenance and repair	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='240'   CRMCODEB='300')	700	NA	2,580	NA
QADPSPLX	Materials for landscaping maintenance	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='140'	NA	NA	NA	NA
QADPSPLX	Total cost of materials purchased for patios, walks, fences, driveways, masonry,brick, stucco, plastering, panels, roofing, gutters, etc.	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='160'	850	NA	1,435	NA
QADPSPLX	Plumbing supplies and equipment	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='200'	450	NA	1,554	NA
QADPSPLX	Materials for hard surface flooring, repair and replacement	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='230'	2,000	NA	3,438	NA
QADPSPLX	Materials and equipment for roof and gutters	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='260'	500	NA	2,500	NA
QADPSPLX	Total cost of materials purchased for patios, walks, fences, driveways, masonry,brick, stucco, plastering, panels, roofing, gutters, etc.	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='290'	100	NA	496	NA
QADPSPLX	Supplies purchased for additions, maintenance and repairs, and new construction	CRMPTYPE='2' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	588	NA	2,450	NA
QADPSPLX	Material for finishing basements and remodeling rooms	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='120'   CRMCODEB='130'   CRMCODEB='150')	NA	NA	NA	NA

Variable	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
QADPSPLX	Total cost of tools, equipment, and supplies purchased for painting and wall papering	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	0	NA	148	NA
QADPSPLX	Total cost of materials purchased for plastering, paneling, roofing, gutters, downspouts, siding, windows, doors,screens, awnings, patios, walks, fences, drives, masonry, brick, and stucco	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='190'   ('260'<=CRMCODEB & CRMCODEB<='280'))	115	NA	350	NA
QADPSPLX	Electrical supplies, heating and cooling equipment	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='210'   CRMCODEB='220')	SU	NA	SU	NA
QADPSPLX	Material for insulation, other maintenance and repair	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='240'   CRMCODEB='300')	NA	NA	NA	NA
QADPSPLX	Materials for landscaping maintenance	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='140'	NA	NA	NA	NA
QADPSPLX	Total cost of materials purchased for plastering, paneling, roofing, gutters, downspouts, siding, windows, doors,screens, awnings, patios, walks, fences, drives, masonry, brick, and stucco	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='160'	NA	NA	NA	NA
QADPSPLX	Plumbing supplies and equipment	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='200'	SU	NA	SU	NA
QADPSPLX	Materials for hard surface flooring	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='230'	SU	NA	SU	NA

Variable	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
QADPSPLX	Total cost of materials purchased for plastering, paneling, roofing, gutters, downspouts, siding, windows, doors, screens, awnings, patios, walks, fences, drives, masonry, brick, and stucco	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='290'	NA	NA	NA	NA
QADPSPLX	Contractors labor and materials, supplies CU obtained, appliances provided by contractor, other property	CRMPTYPE='3' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	200	NA	810	NA
QADPSPLX	Expenses for other properties	CRMPTYPE='3' & (CRMTYPE='3'   CRMTYPE='4') & (('120'<=CRMCODEB & CRMCODEB<='240')   ('260'<=CRMCODEB & CRMCODEB<='300'))	93	NA	770	NA
QADPTAX	Property taxes	OWNYB EQ '100' OR OWNYB EQ '200'	9,000	NA	13,739	NA
QADPTAX	Property taxes	OWNYB EQ '300'	8,000	NA	14,330	NA
QADPTAX	Expenses for other properties	OWNYB EQ '400' OR OWNYB EQ '500'	4,500	NA	9,629	NA
QADRSP2X	Labor and materials for dwellings under construction and additions	(CRMPTYPE='4'   CRMPTYPE='5') & ('100'<=CRMCODEB & CRMCODEB<='110')	NA	NA	NA	NA
QADRSP2X	Repair or maintenance services	(CRMPTYPE='4'   CRMPTYPE='5') & (('120'<=CRMCODEB & CRMCODEB<='220')   CRMCODEB='240'   ('260'<=CRMCODEB & CRMCODEB<='300'))	0	NA	49	NA
QADRSP2X	Repair and replacement of hard surface flooring	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='230'	SU	NA	SU	NA
QADRSP2X	Capital improvement labor and materials (owned home)	CRMPTYPE='1' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	150	NA	263	NA

Variable	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
QADRSP2X	Other repair and maintenance services	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (('120'<=CRMCODEB & CRMCODEB<='160')   CRMCODEB='190'   CRMCODEB='240'   '270'<=CRMCODEB & CRMCODEB<='300'))	30	NA	105	NA
QADRSP2X	Painting and papering	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	SU	NA	SU	NA
QADRSP2X	Heat, a/c, electrical work	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='210'   CRMCODEB='220')	NA	NA	NA	NA
QADRSP2X	Plumbing and water heating	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='200'	NA	NA	NA	NA
QADRSP2X	Repair and replacement of hard surface flooring	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='230'	33	NA	154	NA
QADRSP2X	Roofing and gutters	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='260'	SU	NA	SU	NA
QADRSP2X	Capital improvement labor and materials (owned vacation)	CRMPTYPE='2' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	NA	NA	NA	NA
QADRSP2X	Repair and remodeling services	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (('120'<=CRMCODEB & CRMCODEB<='220')   CRMCODEB='240'   '260'<=CRMCODEB & CRMCODEB<='300'))	NA	NA	NA	NA



Variable	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
QADRSP2X	Repair and replacement of hard surface flooring	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='230'	NA	NA	NA	NA
QADRSP2X	Contractors labor and materials, supplies CU obtained, appliances provided by contractor, other property	CRMPTYPE='3' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	NA	NA	NA	NA
QADRSP2X	Expenses for other properties	CRMPTYPE='3' & (CRMTYPE='3'   CRMTYPE='4') & (('100'<=CRMCODEB & CRMCODEB<='240')   ('260'<=CRMCODEB & CRMCODEB<='300'))	SU	NA	SU	NA
QADRSP3X	Labor and materials for dwellings under construction and additions	(CRMPTYPE='4'   CRMTYPE='5') & ('100'<=CRMCODEB & CRMCODEB<='110')	NA	NA	NA	NA
QADRSP3X	Repair or maintenance services	(CRMPTYPE='4'   CRMTYPE='5') & (('120'<=CRMCODEB & CRMCODEB<='220')   CRMCODEB='240'   ('260'<=CRMCODEB & CRMCODEB<='300'))	7	NA	65	NA
QADRSP3X	Repair and replacement of hard surface flooring	(CRMPTYPE='4'   CRMTYPE='5') & CRMCODEB='230'	SU	NA	SU	NA
QADRSP3X	Capital improvement labor and materials (owned home)	CRMPTYPE='1' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	300	NA	1,183	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'))	1	NA	203	NA

Variable	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
QADRSP3X	Painting and papering	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	SU	NA	SU	NA
QADRSP3X	Heat, a/c, electrical work	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='210'   CRMCODEB='220')	NA	NA	NA	NA
QADRSP3X	Plumbing and water heating	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='200'	SU	NA	SU	NA
QADRSP3X	Repair and replacement of hard surface flooring	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='230'	SU	NA	SU	NA
QADRSP3X	Roofing and gutters	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='260'	NA	NA	NA	NA
QADRSP3X	Capital improvement labor and materials (owned vacation)	CRMPTYPE='2' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	SU	NA	SU	NA
QADRSP3X	Repair and remodeling services	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (('120'<=CRMCODEB & CRMCODEB<='220')   CRMCODEB='240'   '260'<=CRMCODEB & CRMCODEB<='300'))	NA	NA	NA	NA
QADRSP3X	Repair and replacement of hard surface flooring	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='230'	NA	NA	NA	NA
QADRSP3X	Contractors labor and materials, supplies CU obtained, appliances provided by contractor, other property	CRMPTYPE='3' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	NA	NA	NA	NA

Variable	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
QADRSP3X	Expenses for other properties	CRMPTYPE='3' & (CRMTYPE='3'   CRMTYPE='4') & (('100'<=CRMCODEB & CRMCODEB<='240')   '260'<=CRMCODEB & CRMCODEB<='300'))	SU	NA	SU	NA
QADRSP3X	Labor and materials for dwellings under construction and additions	(CRMPTYPE='4'   CRMPTYPE='5') & '100'<=CRMCODEB & CRMCODEB<='110')	NA	NA	NA	NA
QADRSP3X	Repair or maintenance services	(CRMPTYPE='4'   CRMPTYPE='5') & (('120'<=CRMCODEB & CRMCODEB<='220')   CRMCODEB='240'   '260'<=CRMCODEB & CRMCODEB<='300'))	0	NA	16	NA
QADRSP3X	Repair and replacement of hard surface flooring	(CRMPTYPE='4'   CRMPTYPE='5') & CRMCODEB='230'	SU	NA	SU	NA
QADRSP3X	Capital improvement labor and materials (owned home)	CRMPTYPE='1' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	200	NA	560	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'))	100	NA	290	NA
QADRSP3X	Painting and papering	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='170'   CRMCODEB='180')	50	NA	291	NA

Variable	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
QADRSPLX	Heat, a/c, electrical work	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & (CRMCODEB='210'   CRMCODEB='220')	NA	NA	NA	NA
QADRSPLX	Plumbing and water heating	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='200'	NA	NA	NA	NA
QADRSPLX	Repair and replacement of hard surface flooring	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='230'	33	NA	143	NA
QADRSPLX	Roofing and gutters	CRMPTYPE='1' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='260'	NA	NA	NA	NA
QADRSPLX	Capital improvement labor and materials (owned vacation)	CRMPTYPE='2' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	NA	NA	NA	NA
QADRSPLX	Repair and remodeling services	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & (('120'<=CRMCODEB & CRMCODEB<='220')   CRMCODEB='240'   ('260'<=CRMCODEB & CRMCODEB<='300'))	SU	NA	SU	NA
QADRSPLX	Repair and replacement of hard surface flooring	CRMPTYPE='2' & (CRMTYPE='3'   CRMTYPE='4') & CRMCODEB='230'	NA	NA	NA	NA
QADRSPLX	Contractors labor and materials, supplies CU obtained, appliances provided by contractor, other property	CRMPTYPE='3' & (CRMTYPE='1'   CRMTYPE='2'   CRMTYPE='5')	SU	NA	SU	NA
QADRSPLX	Expenses for other properties	CRMPTYPE='3' & (CRMTYPE='3'   CRMTYPE='4') & (('100'<=CRMCODEB & CRMCODEB<='240')   ('260'<=CRMCODEB & CRMCODEB<='300'))	SU	NA	SU	NA

Variable	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
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')	143,327	NA	218,050	NA
QBLNCM1X	Principal balance outstanding at the beginning of the month 3 months ago	('100' LE OWNYF LE '500') AND (LOANTYPE EQ '1')	400,876	NA	563,082	NA
QBLNCM2G	Principal balance outstanding at the beginning of the month 2 months ago, home equity loan	('100' LE OWNYG LE '500') AND (LOANTYPE EQ '2')	141,417	NA	215,376	NA
QBLNCM2X	Principal balance outstanding at the beginning of the month 2 months ago	('100' LE OWNYF LE '500') AND (LOANTYPE EQ '1')	402,142	NA	564,372	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')	140,639	NA	214,334	NA
QBLNCM3X	Principal balance outstanding at the beginning of the month 1 month ago	('100' LE OWNYF LE '500') AND (LOANTYPE EQ '1')	402,316	NA	565,561	NA
QHI3MCX	Health maintenance organization (BCBS)	HHICODE EQ '1' AND HHIBCBS EQ '1'	3,156	NA	4,680	NA
QHI3MCX	Health maintenance organization (not BCBS)	HHICODE EQ '1' AND HHIBCBS EQ '2'	2,795	NA	3,613	NA
QHI3MCX	Traditional fee for service health plan (BCBS)	HHICODE EQ '2' AND HHIBCBS EQ '1' AND HHIFEET = '1'	2,520	NA	2,965	NA
QHI3MCX	Preferred provider health plan (BCBS)	HHICODE EQ '2' AND HHIBCBS EQ '1' AND HHIFEET = '2'	3,300	NA	5,155	NA
QHI3MCX	Traditional fee for service health plan (not BCBS)	HHICODE EQ '2' AND HHIBCBS EQ '2' AND HHIFEET = '1'	3,300	NA	4,246	NA
QHI3MCX	Preferred provider health plan (not BCBS)	HHICODE EQ '2' AND HHIBCBS EQ '2' AND HHIFEET = '2'	3,300	NA	5,851	NA
QHI3MCX	Commercial medicare supplement (BCBS)	HHICODE EQ '3' AND HHIBCBS EQ '1'	2,700	NA	5,668	NA
QHI3MCX	Commercial medicare supplement (not BCBS)	HHICODE EQ '3' AND HHIBCBS EQ '2'	2,250	NA	4,623	NA
QHI3MCX	Other health insurance (BCBS)	HHICODE EQ '4' AND HHIBCBS EQ '1'	1,206	NA	2,768	NA
QHI3MCX	Other health insurance (not BCBS)	HHICODE EQ '4' AND HHIBCBS EQ '2'	926	NA	1,427	NA
QLMPSUMX	Special lump sum mortgage payment (owned home)	OWNYI EQ '100' OR OWNYI EQ '200'	7,200	NA	47,346	NA
QLMPSUMX	Special lump sum mortgage payment (vacation home)	OWNYI EQ '300'	4,000	NA	13,667	NA

Variable	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
QLMPSUMX	Special lump sum mortgage payment (other property)	OWNYI EQ '400' OR OWNYI EQ '500'	6,000	NA	23,933	NA
QLR3MCMX	Ground rent	OWNYI EQ '100' OR OWNYI EQ '200'	2,064	NA	9,847	NA
QLR3MCMX	Amount paid for ground or land rent (vacation home)	OWNYI EQ '300'	1,500	NA	2,225	NA
QPRINM1G	Reduction mortgage principal, home equity loan (owned home)	(OWNYG EQ '100' OR OWNYG EQ '200') AND (LOANTYPE EQ '2')	1,186	NA	2,527	NA
QPRINM1G	Reduction mortgage principal, home equity loan (owned vacation)	(OWNYG EQ '300') AND (LOANTYPE EQ '2')	790	NA	2,190	NA
QPRINM1G	Reduction mortgage principal, home equity loan (other property)	(OWNYG EQ '400' OR OWNYG EQ '500') AND (LOANTYPE EQ '2')	223	NA	274	NA
QPRINM1X	Reduction of mortgage principal (owned vacation)	(OWNYF EQ '300') AND (LOANTYPE EQ '1')	1,015	NA	3,948	NA
QPRINM1X	Reduction of mortgage principal (other property)	(OWNYF EQ '400' OR OWNYF EQ '500') AND (LOANTYPE EQ '1')	4,117	NA	9,312	NA
QPRINM1X	Reduction of mortgage principal (owned home)	(OWNYF EQ '100' OR OWNYF EQ '200') AND (LOANTYPE EQ '1')	1,123	NA	2,070	NA
QPRINM2G	Reduction mortgage principal, home equity loan (owned home)	(OWNYG EQ '100' OR OWNYG EQ '200') AND (LOANTYPE EQ '2')	1,211	NA	2,273	NA
QPRINM2G	Reduction mortgage principal, home equity loan (owned vacation)	(OWNYG EQ '300') AND (LOANTYPE EQ '2')	795	NA	2,205	NA
QPRINM2G	Reduction mortgage principal, home equity loan (other property)	(OWNYG EQ '400' OR OWNYG EQ '500') AND (LOANTYPE EQ '2')	225	NA	277	NA
QPRINM2X	Reduction of mortgage principal (owned vacation)	(OWNYF EQ '300') AND (LOANTYPE EQ '1')	1,169	NA	5,886	NA
QPRINM2X	Reduction of mortgage principal (other property)	(OWNYF EQ '400' OR OWNYF EQ '500') AND (LOANTYPE EQ '1')	4,142	NA	8,453	NA
QPRINM2X	Reduction of mortgage principal (owned home)	(OWNYF EQ '100' OR OWNYF EQ '200') AND (LOANTYPE EQ '1')	1,134	NA	2,100	NA

Variable	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
QPRINM3G	Reduction mortgage principal, home equity loan (owned home)	(OWNYGEQ '100' OR OWNYGEQ '200') AND (LOANTYPE EQ '2')	1,158	NA	2,262	NA
QPRINM3G	Reduction mortgage principal, home equity loan (owned vacation)	(OWNYGEQ '300') AND (LOANTYPE EQ '2')	801	NA	2,219	NA
QPRINM3G	Reduction mortgage principal, home equity loan (other property)	(OWNYGEQ '400' OR OWNYGEQ '500') AND (LOANTYPE EQ '2')	226	NA	278	NA
QPRINM3X	Reduction of mortgage principal (owned vacation)	(OWNYFEQ '300') AND (LOANTYPE EQ '1')	1,174	NA	6,607	NA
QPRINM3X	Reduction of mortgage principal (other property)	(OWNYFEQ '400' OR OWNYFEQ '500') AND (LOANTYPE EQ '1')	4,167	NA	8,963	NA
QPRINM3X	Reduction of mortgage principal (owned home)	(OWNYFEQ '100' OR OWNYFEQ '200') AND (LOANTYPE EQ '1')	1,150	NA	2,111	NA
QRT3MCMX	Rent	NA	5,250	NA	7,266	NA
QSPCLX	Medical care in retirement community	SPFEECREQ '29000'	NA	NA	NA	NA
QSPCLX	?? Repayment of loans...in coop?	SPFEECREQ '01000'	SU	NA	SU	NA
RNTEQVX	Estimated monthly rental value of owned home	OWNYIEQ '100'	3,000	NA	4,962	NA
RNTEQVX	Estimated monthly rental value of other property	OWNYIEQ '200' OR ('400' LE OWNYIEQ '500')	2,500	NA	3,200	NA
RNTEQVX1	Rental equivalence of vacation home (thru Q20071)	OWNYIEQ '300'	4,500	NA	7,958	NA
RNTEQVX2	Estimated annual rental value of timeshare (new UCC Q20072)	OWNYIEQ '300' AND TIMESHRIEQ '1'	17,333	NA	24,604	NA
RNTEQVX2	Estimated monthly rental value of vacation home not available for rent (new UCC Q20072)	OWNYIEQ '300' AND TIMESHRIEQ '1' AND VAC_SECEQ '1'	5,600	NA	12,613	NA
RNTEQVX2	Estimated monthly rental value of vacation home available for rent (new UCC Q20072)	OWNYIEQ '300' AND VAC_SECEQ '1'	10,000	NA	13,250	NA
SALEX	Sale of boats, with motors	VEHICYCEQ '160'	17,000	NA	33,667	NA
TELCEL1X	Cellular phone service	NA	320	NA	459	NA
TELCEL2X	Cellular phone service	NA	300	NA	416	NA
TELCEL3X	Cellular phone service	NA	335	NA	497	NA
TELRES1X	Residential telephone/pay phones	NA	200	NA	301	NA

Variable	Description	Condition	2007 Upper Critical Value	2007 Lower Critical Value	2007 Upper Topcode Value	2007 Lower Topcode Value
TELRES2X	Residential telephone/pay phones	NA	200	NA	297	NA
TELRES3X	Residential telephone/pay phones	NA	200	NA	292	NA
TOTYUPDX	Lodging on out-of-town trips	TOTYUPDY EQ '130'	846	NA	1,545	NA
TRNONCUX	Lodging on out-of-town trips	TRNONCUY EQ '130'	1,300	NA	1,776	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 2007, they are reporting expenditures for November and December of 2006, and January of 2007. 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 2007 contains expenditure data collected in interviews that took place in April, May, and June of 2007. Referring to the rotation chart, one can see that this MTAB file contains expenditures made between January 2007 and May 2007. Similarly, the MTAB file for the third quarter of 2007 (interviews conducted between July and September) contains expenditures made between April and August 2007. To obtain all expenditures made in January 2007, one should access the MTAB files for both the first and second quarters of 2007. The MTAB file for the first quarter of 2007 would contain January expenditures made by CUs interviewed in February and March 2007, while the MTAB file for the second quarter of 2007 would contain January expenditures made by CUs interviewed in April 2007.

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 2007 based on collection period, that is, from all interviews conducted in 2007, data users need data only from Q071 through Q074 files. However, to produce a 2007 annual estimate based on expenditures made in 2007 (calendar period), one needs to access five collection-quarter files, the first quarter of 2007 through the first quarter of 2008. (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 2007, 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		ITAB	
<u>VARIABLE</u>	<u>AMOUNT</u>	<u>UCC</u>	<u>AMOUNT</u>	<u>MONTH</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 2007 is 6,965 CUs. (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 2007. 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 2007). 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 2007 estimate would be based on data from interviews over five quarters. MO\_SCOPE would take on the following values:

	<b>Interview Month and Year</b>									
	<b>2007</b>					<b>2007</b>				
	<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>	
<b>MO_SCOPE</b>	0	1	2	3	3	3	3	3	3	
			<b>2007</b>		<b>2008</b>					
	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>		<u>Jan</u>	<u>Feb</u>	<u>Mar</u>			
<b>MO_SCOPE</b>	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 2007, 2/3 the independent sample for the first quarter of 2007, and one independent sample for the second, third, and fourth quarters of 2006. 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

$E_{j,x,i}$  = 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

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

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.

### **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

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

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.

## **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.

$AK X_{(S,x)(q,m),a}$  = 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 2007 is \$6,133.40. The standard error for this estimate is \$63.51. 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 \$6,008.92 to \$6,257.88. We could conclude with 95 percent confidence that the true population mean expenditure for food for all consumer units in 2007 lies within the interval \$6,008.92 to \$6,257.88.

## **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 2007 mean expenditure estimate for apparel and services for CUs in the \$40,000 to \$49,999 income range is \$1,516.83 and the estimate for CUs in the \$50,000 to \$59,999 income range is \$1,855.94. The apparent difference between the two mean expenditures is \$339.11. The standard error on the estimate of \$1,516.83 is \$107.98 and the estimated standard error for \$1,855.94 is \$94.04.

The standard error of a difference is approximately equal to

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

where

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

This assumes the two sample means,  $\bar{X}_1$  and  $\bar{X}_2$ , 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

$$\sqrt{((107.98)^2 + (94.04)^2)} = 143.19 \quad (2)$$

This means that the 95 percent confidence interval around the difference is from \$58.46 to \$619.76. 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 nondisjoint sets of population, where one is a subset of the other. The formula for computing the standard error of the difference between two nondisjoint estimates is

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

where

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

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

## VII. MICRODATA VERIFICATION AND ESTIMATION METHODOLOGY

This section is designed to help users become familiar with the microdata files. The following program gives users a benchmark to verify that their copy of the CD-ROM contains valid data, 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

```

1  /*****/
2  /* PROGRAM NAME: CEX INTERVIEW SURVEY SAMPLE PROGRAM (SAS)          */
3  /* LOCATION: D:\PROGRAMS                                           */
4  /* FUNCTION: CREATE AN INTERVIEW SURVEY EXPENDITURE TABLE BY INCOME CLASS */
5  /* USING MICRODATA FROM THE BUREAU OF LABOR STATISTIC'S CONSUMER */
6  /* EXPENDITURE SURVEY.                                           */
7  /*                                                                 */
8  /* WRITTEN BY: ERIC KEIL                                           */
9  /* MODIFICATIONS:                                               */
10 /* DATE-   MODIFIED BY-   REASON-                               */
11 /* ----   - - - - -      - - - - -                               */
12 /* 03/21/02 ERIC KEIL   IMPROVE EFFICIENCY                       */
13 /* 10/22/03 ERIC KEIL   UPDATE FOR 2002 DATA                   */
14 /* 11/20/03 ERIC KEIL   INCLUDE ROUTINE TO AGGREGATE EASIER     */
15 /*                                                                 */
16 /* FOR SAS VERSION 8 OR HIGHER                                     */
17 /*                                                                 */
18 /*****/
19
20 /*Enter Data Year*/
21 %LET YEAR = 2007;
22 /*Enter location of the unzipped microdata file*/
23 /*Be sure to keep the same file structure as on the CD*/
24 %LET DRIVE = C:\2007_CEX;
25
26
27 /*****/
28 /* STEP1: READ IN THE STUB PARAMETER FILE AND CREATE FORMATS      */
29 /* ----- */
30 /* 1 CONVERTS THE STUB PARAMETER FILE INTO A LABEL FILE FOR OUTPUT */
31 /* 2 CONVERTS THE STUB PARAMETER FILE INTO AN EXPENDITURE AGGREGATION FILE */
32 /* 3 CREATES FORMATS FOR USE IN OTHER PROCEDURES                  */
33 /*****/
34
35
36 %LET YR1 = %SUBSTR(&YEAR,3,2);
37 %LET YR2 = %SUBSTR(%EVAL(&YEAR+1),3,2);
38
39 LIBNAME I&YR1 "&DRIVE.\INTRVW&YR1";
NOTE: Libref I07 was successfully assigned as follows:

```

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



cpu time 0.01 seconds

```
76
77
78 PROC TRANSPOSE DATA= AGGFMT1 OUT= AGGFMT2 (RENAME=(COL1= LINE));
79 BY UCC COMPARE;
80 VAR LINE1-LINE10;
81 RUN;
```

NOTE: There were 589 observations read from the data set WORK.AGGFMT1.

NOTE: The data set WORK.AGGFMT2 has 5890 observations and 4 variables.

NOTE: PROCEDURE TRANSPOSE used:

real time 0.10 seconds  
cpu time 0.04 seconds

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

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

86:8

NOTE: There were 5890 observations read from the data set WORK.AGGFMT2.

NOTE: The data set WORK.AGGFMT has 2757 observations and 2 variables.

NOTE: DATA statement used:

real time 0.01 seconds  
cpu time 0.01 seconds

```
91
92
93 PROC SQL NOPRINT;
94 SELECT UCC, LINE, COUNT(*)
95 INTO :UCCS SEPARATED BY " ",
96 :LINES SEPARATED BY " ",
97 :CNT
98 FROM AGGFMT;
```

NOTE: The query requires remerging summary statistics back with the original data.

99 QUIT;

NOTE: PROCEDURE SQL used:

real time 0.10 seconds  
cpu time 0.01 seconds

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

NOTE: There were 716 observations read from the data set WORK.STUBFILE.

NOTE: The data set WORK.LBLFMT has 716 observations and 4 variables.

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

NOTE: DATA statement used:  
real time 0.01 seconds  
cpu time 0.01 seconds

```
116  
117  
118 PROC FORMAT;  
119  
120 VALUE $AGGFMT (MULTILABEL)  
121 %MAPPING  
122 OTHER= 'OTHER';  
NOTE: Format $AGGFMT has been output.  
123 /* CREATE AGGREGATION FORMAT */  
124  
125  
126 VALUE $INC (MULTILABEL)  
127 '01' = '01'  
128 '01' = '10'  
129 '02' = '02'  
130 '02' = '10'  
131 '03' = '03'  
132 '03' = '10'  
133 '04' = '04'  
134 '04' = '10'  
135 '05' = '05'  
136 '05' = '10'  
137 '06' = '06'  
138 '06' = '10'  
139 '07' = '07'  
140 '07' = '10'  
141 '08' = '08'  
142 '08' = '10'  
143 '09' = '09'  
144 '09' = '10';  
NOTE: Format $INC has been output.  
145 /* CREATE INCOME CLASS FORMAT */  
146 RUN;
```

NOTE: PROCEDURE FORMAT used:  
real time 16.40 seconds  
cpu time 16.13 seconds

```
147  
148  
149 PROC FORMAT LIBRARY= WORK CNTLIN= LBLFMT;  
NOTE: Format $LBLFMT has been output.  
150 /* CREATE LABEL FILE FORMATS */  
151 RUN;
```

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

NOTE: There were 716 observations read from the data set WORK.LBLFMT.

```
152  
153  
154 /******  
155 /* STEP2: READ IN ALL NEEDED DATA FROM THE CD-ROM */  
156 /* ----- */  
157 /* 1 READ IN THE INTERVIEW FMLY FILES & CREATE THE MO_SCOPE VARIABLE */  
158 /* 2 READ IN THE INTERVIEW MTAB AND ITAB FILES */  
159 /* 3 MERGE FMLY AND EXPENDITURE FILES TO DERIVE WEIGHTED EXPENDITURES */
```

Formats:

Puts the aggregation scheme into a SAS format.

Puts the income groupings into a SAS format.

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

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



```

160  /*****/
161
162
163 DATA FMLY (KEEP = NEWID INCLASS WTREP01-WTREP44 FINLWT21 REPWT1-REPWT45);
164
165 SET I&YR1..FMLI&YR1.1X (IN = FIRSTQTR)
166   I&YR1..FMLI&YR1.2
167   I&YR1..FMLI&YR1.3
168   I&YR1..FMLI&YR1.4
169 I&YR1..FMLI&YR2.1 (IN = LASTQTR);
170 BY NEWID;
171 /* READ IN FMLY FILE DATA */
172
173 IF FIRSTQTR THEN
174   MO_SCOPE = (QINTRVMO - 1);
175 ELSE IF LASTQTR THEN
176   MO_SCOPE = (4 - QINTRVMO);
177 ELSE
178   MO_SCOPE = 3;
179 /* CREATE MONTH IN SCOPE VARIABLE (MO_SCOPE) */
180
181 ARRAY REPS_A(45) WTREP01-WTREP44 FINLWT21;
182 ARRAY REPS_B(45) REPWT1-REPWT45;
183
184 DO i = 1 TO 45;
185   IF REPS_A(i) > 0 THEN
186     REPS_B(i) = (REPS_A(i) * MO_SCOPE / 12);
187   ELSE REPS_B(i) = 0;
188   END;
189 /* ADJUST WEIGHTS BY MO_SCOPE TO ACCOUNT FOR SAMPLE ROTATION */
190 RUN;

```

NOTE: Character values have been converted to numeric values at the places given by: (Line):(Column).  
174:19 176:23

NOTE: There were 6965 observations read from the data set I07.FMLI071X.  
NOTE: There were 6829 observations read from the data set I07.FMLI072.  
NOTE: There were 6711 observations read from the data set I07.FMLI073.  
NOTE: There were 6830 observations read from the data set I07.FMLI074.  
NOTE: There were 6914 observations read from the data set I07.FMLI081.  
NOTE: The data set WORK.FMLY has 34249 observations and 92 variables.  
NOTE: DATA statement used:  
real time 9.03 seconds  
cpu time 2.10 seconds

```

191
192
193
194 DATA EXPEND (KEEP=NEWID UCC COST);
195
196 SET I&YR1..MTBI&YR1.1X
197   I&YR1..MTBI&YR1.2
198   I&YR1..MTBI&YR1.3
199   I&YR1..MTBI&YR1.4
200   I&YR1..MTBI&YR2.1
201
202   I&YR1..ITBI&YR1.1X (RENAME=(VALUE=COST))
203   I&YR1..ITBI&YR1.2 (RENAME=(VALUE=COST))
204   I&YR1..ITBI&YR1.3 (RENAME=(VALUE=COST))
205   I&YR1..ITBI&YR1.4 (RENAME=(VALUE=COST))
206   I&YR1..ITBI&YR2.1 (RENAME=(VALUE=COST));
207 BY NEWID;
208
209 IF REFYR = "&YEAR" OR REF_YR = "&YEAR";
210 IF UCC = '710110' THEN
211   COST = (COST * 4);
212 /* READ IN MTAB AND ITAB EXPENDITURE AND INCOME DATA */
213 /* ADJUST UCC 710110 TO ANNUALIZE */
214 RUN;

```

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

Lines 173-179 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.

Lines 181-189 create weights that are mo\_scope adjusted to account for sample rotation.

Reads in all MTAB expenditure data and ITAB income data.

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

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.

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).

NOTE: There were 583938 observations read from the data set I07.MTBI071X.  
 NOTE: There were 544034 observations read from the data set I07.MTBI072.  
 NOTE: There were 537768 observations read from the data set I07.MTBI073.  
 NOTE: There were 544456 observations read from the data set I07.MTBI074.  
 NOTE: There were 572642 observations read from the data set I07.MTBI081.  
 NOTE: There were 389463 observations read from the data set I07.ITBI071X.  
 NOTE: There were 384099 observations read from the data set I07.ITBI072.  
 NOTE: There were 375336 observations read from the data set I07.ITBI073.  
 NOTE: There were 379947 observations read from the data set I07.ITBI074.  
 NOTE: There were 386067 observations read from the data set I07.ITBI081.  
 NOTE: The data set WORK.EXPEND has 3726629 observations and 3 variables.  
 NOTE: DATA statement used:  
 real time 16.57 seconds  
 cpu time 5.56 seconds

```

215
216
217
218 DATA PUBFILE (KEEP = NEWID INCLASS UCC RCOST1-RCOST45);
219 MERGE FMLY (IN = INFAM)
220 EXPEND (IN = INEXP);
221 BY NEWID;
222 IF INEXP AND INFAM;
223
224 IF COST = . THEN
225 COST = 0;
226
227 ARRAY REPS_A(45) WTREP01-WTREP44 FINLWT21;
228 ARRAY REPS_B(45) RCOST1-RCOST45;
229
230 DO i = 1 TO 45;
231 IF REPS_A(i) > 0
232 THEN REPS_B(i) = (REPS_A(i) * COST);
233 ELSE REPS_B(i) = 0;
234 END;
235 /* MERGE FMLY FILE WEIGHTS AND CHARACTERISTICS WITH MTAB/ITAB COSTS */

236 /* MULTIPLY COSTS BY WEIGHTS TO DERIVE WEIGHTED COSTS */

237 RUN;

```

NOTE: There were 34249 observations read from the data set WORK.FMLY.  
 NOTE: There were 3726629 observations read from the data set WORK.EXPEND.  
 NOTE: The data set WORK.PUBFILE has 3726629 observations and 48 variables.  
 NOTE: DATA statement used:  
 real time 1:56.43  
 cpu time 31.28 seconds

```

238
239
240 /******
241 /* STEP3: CALCULATE POPULATIONS */
242 /* ----- */
243 /* 1 SUM ALL 45 WEIGHT VARIABLES TO DERIVE REPLICATE POPULATIONS */
244 /* 2 FORMAT FOR CORRECT COLUMN CLASSIFICATIONS */
245 /******
246
247
248 PROC SUMMARY NWAY DATA=FMLY;
249 CLASS INCLASS / MLF;
250 VAR REPWT1-REPWT45;
251 FORMAT INCLASS $INC.;

```

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.

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

```

252 OUTPUT OUT = POP (DROP = _TYPE_ _FREQ_) SUM = RPOP1-RPOP45;
253 /* SUMS WEIGHTS TO CREATE POPULATIONS PER REPLICATE */
254 /* FORMATS TO CORRECT COLUMN CLASSIFICATIONS */
255 RUN;

```

```

NOTE: There were 34249 observations read from the data set WORK.FMLY.
NOTE: The data set WORK.POP has 10 observations and 46 variables.
NOTE: PROCEDURE SUMMARY used:
      real time      3.20 seconds
      cpu time       0.34 seconds

```

```

256
257
258
259 /*****/
260 /* STEP4: CALCULATE WEIGHTED AGGREGATE EXPENDITURES */
261 /* ----- */
262 /* 1 SUM THE 45 REPLICATE WEIGHTED EXPENDITURES TO DERIVE AGGREGATES */
263 /* 2 FORMAT FOR CORRECT COLUMN CLASSIFICATIONS AND AGGREGATION SCHEME */
264 /*****/

```

```

265
266
267 PROC SUMMARY NWAY DATA=PUBFILE SUMSIZE=MAX COMPLETETYPES;
268 CLASS UCC INCLASS / MLF;
269 VAR RCOST1-RCOST45;
270 FORMAT UCC $AGGFMT. INCLASS $INC.;
271 OUTPUT OUT=AGG (DROP=_TYPE_ _FREQ_ RENAME=(UCC=LINE))
272 SUM = RCOST1-RCOST45;
273 /* SUMS WEIGHTED COSTS PER REPLICATE TO GET AGGREGATES */
274 /* FORMATS INCOME TO CREATE COMPLETE REPORTING COLUMN */
275 /* FORMATS EXPENDITURES TO CORRECT AGGREGATION SCHEME */
276 RUN;

```

```

NOTE: There were 3726629 observations read from the data set WORK.PUBFILE.
NOTE: The data set WORK.AGG has 6880 observations and 47 variables.
NOTE: PROCEDURE SUMMARY used:
      real time      1:52.57
      cpu time       46.09 seconds

```

```

277
278
279 /*****/
281 /* STEP5: CALCULATE MEAN EXPENDITURES */
282 /* ----- */
283 /* 1 READ IN POPULATIONS AND LOAD INTO MEMORY USING A 2 DIMENSIONAL ARRAY */
284 /* POPULATIONS ARE ASSOCIATED BY INCLASS(i), AND REPLICATE(j) */
285 /* 2 READ IN AGGREGATE EXPENDITURES FROM AGG DATASET */
286 /* CALCULATE MEANS BY DIVIDING AGGREGATES BY CORRECT SOURCE POPULATIONS */
287 /* 4 CALCULATE STANDARD ERRORS USING REPLICATE FORMULA */
288 /*****/

```

```

289
290

```

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

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

```

291 DATA TAB1 (KEEP = LINE MEAN SE);
292
293 /* READS IN POP DATASET. _TEMPORARY_ LOADS POPULATIONS INTO SYSTEM MEMORY */

294 ARRAY POP{01:10,45} _TEMPORARY_;
295 IF _N_ = 1 THEN DO i = 1 TO 10;
296   SET POP;
297   ARRAY REPS(45) RPOP1-RPOP45;
298   DO j = 1 TO 45;
299     POP{INCLASS,j} = REPS(j);
300   END;
301 END;
302
303 /* READS IN AGG DATASET AND CALCULATES MEANS BY DIVIDING BY POPULATIONS */

304 SET AGG (KEEP = LINE INCLASS RCOST1-RCOST45);
305 ARRAY AGGS(45) RCOST1-RCOST45;
306 ARRAY AVGS(45) MEAN1-MEAN44 MEAN;
307 DO k = 1 TO 45;
308   IF AGGS(k) = . THEN AGGS(k) = 0;
309   AVGS(k) = AGGS(k) / POP{INCLASS,k};
310 END;
311
312 /* CALCULATES STANDARD ERRORS USING REPLICATE FORMULA */
313 ARRAY RMNS(44) MEAN1-MEAN44;
314 ARRAY DIFF(44) DIFF1-DIFF44;
315 DO n = 1 TO 44;
316   DIFF(n) = (RMNS(n) - MEAN)**2;
317 END;
318 SE = SQRT((1/44)*SUM(OF DIFF(*)));
319 RUN;

```

This data step calculates means and standard errors:

Lines 294-301 reads in the column populations and stores them into temporary memory. Populations in memory are associated with INCLASS(i), and REPLICATE(j).

Line 304 reads in the aggregated expenditures.

Lines 305-310 calculates means by dividing the aggregate expenditures by the appropriate populations in memory as determined by INCLASS and REPLICATE.

Lines 313-319 calculates standard errors using the replicate weight formula.

NOTE: Character values have been converted to numeric values at the places given by: (Line):(Column).  
299:13 309:33

NOTE: There were 10 observations read from the data set WORK.POP.  
NOTE: There were 6880 observations read from the data set WORK.AGG.  
NOTE: The data set WORK.TAB1 has 6880 observations and 3 variables.  
NOTE: DATA statement used:  
real time 0.53 seconds  
cpu time 0.17 seconds

```

320
321
322
323 /*****

324 /* STEP6: TABULATE EXPENDITURES */

325 /* ----- */

326 /* 1 ARRANGE DATA INTO TABULAR FORM */

327 /* 2 SET OUT INTERVIEW POPULATIONS FOR POPULATION LINE ITEM */

328 /* 3 INSERT POPULATION LINE INTO TABLE */

329 /* 4 INSERT ZERO EXPENDITURE LINE ITEMS INTO TABLE FOR COMPLETENESS */

330 /*****

331
332
333 PROC TRANSPOSE DATA=TAB1 OUT=TAB2
334 NAME = ESTIMATE PREFIX = INCLASS;
335 BY LINE;
336 VAR MEAN SE;
337 /*ARRANGE DATA INTO TABULAR FORM */
338 RUN;

```

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

NOTE: There were 6880 observations read from the data set WORK.TAB1.

NOTE: The data set WORK.TAB2 has 1376 observations and 12 variables.

NOTE: PROCEDURE TRANSPOSE used:

```
real time    0.15 seconds
cpu time     0.03 seconds
```

339

340

341 PROC TRANSPOSE DATA=POP (KEEP = RPOP45) OUT=CUS

342 NAME = LINE PREFIX = INCLASS;

343 VAR RPOP45;

344 /\* SET ASIDE POPULATIONS FROM INTERVIEW \*/

345 RUN;

NOTE: There were 10 observations read from the data set WORK.POP.

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

NOTE: PROCEDURE TRANSPOSE used:

```
real time    0.03 seconds
cpu time     0.00 seconds
```

346

347

348 DATA TAB3;

349 SET CUS TAB2;

350 IF LINE = 'RPOP45' THEN DO;

351 LINE = '100001';

352 ESTIMATE = 'N';

353 END;

354 /\* INSERT POPULATION LINE ITEM INTO TABLE AND ASSIGN LINE NUMBER \*/

355 RUN;

NOTE: There were 1 observations read from the data set WORK.CUS.

NOTE: There were 1376 observations read from the data set WORK.TAB2.

NOTE: The data set WORK.TAB3 has 1377 observations and 12 variables.

NOTE: DATA statement used:

```
real time    0.01 seconds
cpu time     0.00 seconds
```

356

357

358 DATA TAB;

359 MERGE TAB3 STUBFILE;

360 BY LINE;

361 IF LINE NE '100001' THEN DO;

362 IF SURVEY = 'S' THEN DELETE;

363 END;

364 ARRAY CNTRL(10) INCLASS1-INCLASS10;

365 DO i = 1 TO 10;

366 IF CNTRL(i) = . THEN CNTRL(i) = 0;

367 IF SUM(OF CNTRL(\*)) = 0 THEN ESTIMATE = 'MEAN';

368 END;

369

370 IF GROUP IN ('CUCHARS' 'INCOME') THEN DO;

371 IF LAG(LINE) = LINE THEN DELETE;

372 END;

373 /\* MERGE STUBFILE BACK INTO TABLE TO INSERT EXPENDITURE LINES \*/

374 /\* THAT HAD ZERO EXPENDITURES FOR THE YEAR \*/

375 RUN;

NOTE: There were 1377 observations read from the data set WORK.TAB3.

NOTE: There were 716 observations read from the data set WORK.STUBFILE.

NOTE: The data set WORK.TAB has 1325 observations and 20 variables.

NOTE: DATA statement used:

```
real time    0.10 seconds
cpu time     0.01 seconds
```

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

Population totals per income class are inserted into the output.

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

```

376
377
378 PROC TABULATE DATA=TAB;
379 CLASS LINE / GROUPINTERNAL ORDER=DATA;
380 CLASS ESTIMATE;
381 VAR INCLASS1-INCLASS10;
382 FORMAT LINE $LBLFMT.;
383
384 TABLE (LINE * ESTIMATE), (INCLASS10 INCLASS1 INCLASS2 INCLASS3 INCLASS4
385
386 INCLASS5 INCLASS6 INCLASS7 INCLASS8 INCLASS9)
387
388 *SUM=" / RTS=25;
389 LABEL ESTIMATE=ESTIMATE LINE=LINE
390 INCLASS1='LESS THAN $5,000' INCLASS2='$5,000 TO $9,999'
391 INCLASS3='$10,000 TO $14,999' INCLASS4='$15,000 TO $19,999'
392 INCLASS5='$20,000 TO $29,999' INCLASS6='$30,000 TO $39,999'
393 INCLASS7='$40,000 TO $49,999' INCLASS8='$50,000 TO $69,999'
394 INCLASS9='$70,000 AND OVER' INCLASS10='ALL CONSUMER UNITS';
395 OPTIONS NODATE NOCENTER NONUMBER LS=167 PS=MAX;
396 WHERE LINE NE 'OTHER';
397 TITLE "INTERVIEW EXPENDITURES FOR &YEAR BY INCOME BEFORE TAXES";
398 RUN;

```

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

```

NOTE: There were 1323 observations read from the data set WORK.TAB.
      WHERE LINE not = 'OTHER';
NOTE: PROCEDURE TABULATE used:
      real time      0.93 seconds
      cpu time       0.10 seconds

```

## B. OUTPUT

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

## VIII. DESCRIPTION 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 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 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 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 noninstitutional persons.

The first step in sampling is the selection of primary sampling units (PSUs), which consist of counties (or parts thereof) or groups of counties. The set of sample PSUs used for the 2007 and 2008 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 2007 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	Eligible housing unit interviews			Response Rate for Eligible Interviews
			Number of potential interviews	Type A nonresponse	Total respondent interviews	
2003	50,596	9,357	41,239	8,841	32,398	78.6%
2004	50,509	9,626	40,883	9,798	31,085	76.0%
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%

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 subsampling is performed in the field.

- 3) A noninterview adjustment is made for units where data could not be collected from occupied housing units. The adjustment is performed as a function of region, housing tenure, family size and race.
- 4) A final adjustment is performed to adjust the sample estimates to national population controls derived from the Current Population Survey. The adjustments are made based on both the CU's member composition and 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 noninstitutional population of the United States as well as that portion of the institutional population living in the following group quarters: Boarding houses, housing facilities for students and workers, staff units in hospitals and homes for the aged, infirm, or needy, permanent living quarters in hotels and motels, and mobile home parks. Urban population is defined as all persons living in a Metropolitan Statistical Area (MSA'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)Y071</sup>(UCC) identifies a new (deleted) UCC beginning in Q071.

### 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 (2007)
*L 006004	Total amount owed to creditors, 5th interview, asked first quarter, current year (2007)
006005	Total amount owed to creditors, 2nd interview, asked first quarter, current year + 1 (2008)
006006	Total amount owed to creditors, 5th interview, asked first quarter, current year +1 (2008)
190901	Food or board at school
190902	Food and beverages for catered affairs (now only includes food and beverages)
190903	Food and non-alc 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
<sup>D072</sup> 220321	Penalty charges on special or lump-sum mortgage payment - owned home
<sup>D072</sup> 220322	Penalty charges on special or lump-sum mortgage payment - 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

<sup>N072</sup>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

<sup>N072</sup>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
- D072 310210 VCR, video disc player, video camera, and camcorder
- 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
- D072 320231 Other household decorative items
- 320232 Telephones and accessories
- N072 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  
 D072 360511 Men's pants  
 D072 360512 Men's shorts and shorts sets, excl. athletic  
 N072 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  
 D072 370312 Boys' pants  
 D072 370313 Boys' shorts and shorts sets, excl. athletic  
 N072 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  
 D072 380331 Women's pants  
 D072 380332 Women's shorts and shorts sets, excl. athletic  
 N072 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  
 D072 390221 Girls' skirts, culottes, and pants  
 D072 390222 Girls' shorts and shorts sets, excl. athletic  
 N072 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  
 N072 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  
 N072 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  
 N072 670410 Tuition for vocational or technical school  
 670901 Same as 670110 – other schools  
 670902 Rentals of books and equipment, and other school-related expenses  
 680110 Legal fees, excluding real estate closing costs  
 680140 Funeral, burial or cremation expenses, including limousine and flowers  
 680210 Safe deposit boxes  
 680220 Charges for checking accounts and other banking services  
 N072 680310 Live entertainment for catered affairs  
 N072 680320 Rental of party supplies for catered affairs  
 N072 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  
 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  
 N072 690310 Installation for computers  
 N072 690320 Installation for TVs  
 N072 690330 Installation for satellite TV equipment  
 N072 690350 Installation of other video or sound systems  
 N072 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  
 D072 790220 Food and nonalcoholic beverage purchases at grocery stores  
 D072 790230 Food and nonalcoholic beverage purchases at convenience or specialty stores  
 N072 790240 Average food and non-alcoholic beverage expenses  
 790310 Beer and wine for home use  
 790320 Other alcoholic beverages for home use  
 N072 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  
<sup>D072</sup>910100 Rental equivalence of owned vacation home  
<sup>N072</sup>910101 Rental equivalence for vacation home not available for rent  
<sup>N072</sup>910102 Rental equivalence for vacation home available for rent  
<sup>N072</sup>910103 Rental equivalence for timeshares  
 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.

## A. FMLY FILE

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	EDUC0REF	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	FGOVRETX	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	FJSSDEX	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	FRRDEX	370	MARI_AL1	537
COMPSAV_	186	FRRDEX_	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	* C(Y072) FDHOMEPQ	1373
ROOMSQ	683	WTREP05	885	FDHOMECQ	1385
ROOMSQ_	686	WTREP06	896	FDAWAYPQ	1397
SALEINCX	687	WTREP07	907	FDAWAYCQ	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
* C(Y072) ALCBEVPQ	1469	BBYDAYCQ	2009	GASMO PQ	2549
ALCBEVCQ	1481	* C(Y072) 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	VEHINS PQ	2621
OWNDWECQ	1553	FURNTRPQ	2093	VEHINSCQ	2633
* C(Y072) MRTINTPQ	1565	FURNTRCQ	2105	VRNTLOPQ	2645
MRTINTCQ	1577	FLRCVRPQ	2117	VRNTLOCQ	2657
PROPTXPQ	1589	FLRCVRCQ	2129	PUBTRAPQ	2669
PROPTXCQ	1601	MAJAPPQ	2141	PUBTRACQ	2681
MRPINS PQ	1613	MAJAPPCQ	2153	TRNTRPPQ	2693
MRPINS CQ	1625	SMLAPPQ	2165	TRNTRPCQ	2705
RENDWEPQ	1637	SMLAPPCQ	2177	TRNOTHPQ	2717
RENDWECQ	1649	* C(Y072) 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
* C(Y072) OTHLODPQ	1709	MENBOYCQ	2249	MEDSRVPQ	2789
OTHLODCQ	1721	* C(Y072) MENSIXPQ	2261	MEDSRVCQ	2801
UTILPQ	1733	MENSIXCQ	2273	PREDRGPQ	2813
UTILCQ	1745	* C(Y072) BOYFIFPQ	2285	PREDRGCQ	2825
NTLGAS PQ	1757	BOYFIFCQ	2297	MEDSUPPQ	2837
NTLGASCQ	1769	WOMGRLPQ	2309	MEDSUPCQ	2849
ELCTRCPQ	1781	WOMGRLCQ	2321	ENTERTPQ	2861
ELCTRCCQ	1793	* C(Y072) WOMSIXPQ	2333	ENTERTCQ	2873
ALLFULPQ	1805	WOMSIXCQ	2345	FEEADMPQ	2885
ALLFULCQ	1817	* C(Y072) GRLFIFPQ	2357	FEEADMCQ	2897
FULOILPQ	1829	GRLFIFCQ	2369	* C(Y072) TVRDIOPQ	2909
FULOILCQ	1841	CHLDRNPQ	2381	TVRDIOCQ	2921
OTHFLSPQ	1853	CHLDRNCQ	2393	OTHEQPPQ	2933
OTHFLSCQ	1865	FOOTWRPQ	2405	OTHEQPCQ	2945
* C(Y072) TELEPHPQ	1877	FOOTWRCQ	2417	PETTOYPQ	2957
TELEPHCQ	1889	OTHAPLPQ	2429	PETTOYCQ	2969
WATRPS PQ	1901	OTHAPLCQ	2441	* C(Y072) 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	* C(Y072) EDUCAPQ	3053

Interview: FMLY

Variable Name	Start Position	Variable Name	Start Position	Variable Name	Start Position
EDUCACQ	3065	ALIOTHX	3338	TALCBEVC	3552
TOBACCPQ	3077	ALIOTHX_	3346	TOTHRLOP	3562
TOBACCCQ	3089	CHDLMPX	3347	TOTHRLOC	3572
MISCPQ	3101	CHDLMPX_	3355	TTRANPRP	3582
MISCCQ	3113	ERANKMTH	3356	TTRANPRC	3592
MISC1PQ	3125	ERAN_MTH	3367	TGASMOTP	3602
MISC1CQ	3137	ERANKH	3368	TGASMOTC	3612
MISC2PQ	3149	ERANKH_	3377	TVRENTLP	3622
MISC2CQ	3161	TOTEX4PQ	3387	TVRENTLC	3632
CASHCOPOQ	3173	TOTEX4CQ	3399	TCARTRKP	3642
CASHCOCQ	3185	MISCX4PQ	3411	TCARTRKC	3652
PERINSPQ	3197	MISCX4CQ	3423	TOTHVHRP	3662
PERINSCQ	3209	* D(Y072) CUINCOME	3435	TOTHVHRC	3672
LIFINSPQ	3221	* D(Y072) CUIN_OME	3437	TOTHTREP	3682
LIFINSCQ	3233	* C(Y072) RECORDS	3438	TOTHTREC	3692
RETPENPQ	3245	RECORDS_	3439	TTRNTRIP	3702
RETPENCQ	3257	TYPEREC1	3440	TTRNTRIC	3712
HH_CU_Q	3269	TYPE_EC1	3441	TFAREP	3722
HH_CU_Q_	3271	TYPEREC2	3442	TFAREC	3732
HHID	3272	TYPE_EC2	3443	TAIRFARP	3742
HHID_	3275	TYPEREC3	3444	TAIRFARC	3752
POV_CY	3276	TYPE_EC3	3445	TOTHFARP	3762
POV_CY_	3277	TYPEREC4	3446	TOTHFARC	3772
POV_PY	3278	TYPE_EC4	3447	TLOCALTP	3782
POV_PY_	3279	TYPEREC5	3448	TLOCALTC	3792
HEATFUEL	3292	TYPE_EC5	3449	TENTRMNP	3802
HEAT_UEL	3294	TYPEREC6	3450	TENTRMNC	3812
SWIMPOOL	3298	TYPE_EC6	3451	TFEESADP	3822
SWIM_OOL	3300	TYPEREC7	3452	TFEESADC	3832
WATERHT	3307	TYPE_EC7	3453	TOTHENTP	3842
WATERHT_	3309	TYPEREC8	3454	TOTHENTC	3852
APTMENT	3310	TYPE_EC8	3455	OWNVACP	3862
APTMENT_	3312	VEHQL	3456	OWNVACC	3872
OFSTPARK	3313	VEHQL_	3458	* C(Y072) VOTHRLOP	3882
OFST_ARK	3315	NUM_TVAN	3459	VOTHRLOC	3892
WINDOWAC	3316	NUM_VAN	3461	VMISCHEP	3902
WIND_WAC	3318	TTOTALP	3462	VMISCHEC	3912
CNTRALAC	3319	TTOTALC	3472	UTILOWNP	3922
CNTR_LAC	3321	TFOODTOP	3482	UTILOWNC	3932
CHILDAGE	3322	TFOODTOC	3492	VFUELOIP	3942
CHIL_AGE	3323	TFOODAWP	3502	VFUELOIC	3952
INCLASS	3324	TFOODAWC	3512	VOTHRFLP	3962
STATE	3326	TFOODHOP	3522	VOTHRFLC	3972
CHDOTHX	3329	TFOODHOC	3532	VELECTRP	3982
CHDOTHX_	3337	TALCBEVP	3542	VELECTRC	3992

Interview: FMLY

Variable Name	Start Position	Variable Name	Start Position	Variable Name	Start Position
VNATLGAP	4002	EVEHPURC	4396	WELFAREB	4664
VNATLGAC	4012	ECARTKNP	4406	WELF_REB	4666
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	INCLSABX	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	INCLSBBX	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

Interview: FMLY

Variable Name	Start Position	Variable Name	Start Position	Variable Name	Start Position
INTERI	4783	FFRMINC4	5060	FOODSMP1	5381
HORREF1	4784	FFRMINC5	5068	FOODSMP2	5389
HORREF1_	4785	FFRMINCI	5076	FOODSMP3	5397
HORREF2	4786	FGOVRETM	5079	FOODSMP4	5405
HORREF2_	4787	FGOV_ETM	5087	FOODSMP5	5413
ALIOHXM	4788	FINCATXM	5088	FOODSMPI	5421
ALIO_HXM	4798	FINCA_XM	5099	FPRIENM	5424
ALIOHXM1	4799	FINCATX1	5100	FPRI_ENM	5432
ALIOHXM2	4807	FINCATX2	5109	FRRDEDM	5433
ALIOHXM3	4815	FINCATX3	5118	FRRDEDM_	5441
ALIOHXM4	4823	FINCATX4	5127	FRRETIRM	5442
ALIOHXM5	4831	FINCATX5	5136	FRRE_IRM	5452
ALIOHXM1	4839	FINCBTXM	5145	FRRETIR1	5453
CHDOHXM	4842	FINCB_XM	5156	FRRETIR2	5461
CHDO_HXM	4852	FINCBTX1	5157	FRRETIR3	5469
CHDOHXM1	4853	FINCBTX2	5166	FRRETIR4	5477
CHDOHXM2	4861	FINCBTX3	5175	FRRETIR5	5485
CHDOHXM3	4869	FINCBTX4	5184	FRRETIRI	5493
CHDOHXM4	4877	FINCBTX5	5193	FSALARYM	5496
CHDOHXM5	4885	FINCBTXI	5202	FSAL_RYM	5506
CHDOHXM1	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
ERNKMTM	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	FOODSMPM	5370	INC_RNK1	5665
FFRMINC3	5052	FOOD_MPM	5380	INC_RNK2	5674



Interview: FMLY

Variable Name	Start Position	Variable Name	Start Position	Variable Name	Start Position
INC_RNK3	5683	POV_CY1	5994	COLP_ANX	6194
INC_RNK4	5692	POV_CY2	5995	PSU	6195
INC_RNK5	5701	POV_CY3	5996	* N(Y072) REVSMORT	6199
INCLOSAM	5710	POV_CY4	5997	* N(Y072) REVS_ORT	6200
INCL_SAM	5721	POV_CY5	5998	* N(Y072) RVSLUMP	6201
INCLOSA1	5722	POV_PYM	5999	* N(Y072) RVSLUMP_	6202
INCLOSA2	5731	POV_PYM_	6000	* N(Y072) RVSREGMO	6203
INCLOSA3	5740	POV_PY1	6001	* N(Y072) RVSR_GMO	6204
INCLOSA4	5749	POV_PY2	6002	* N(Y072) RVSLOC	6205
INCLOSA5	5758	POV_PY3	6003	* N(Y072) RVSLOC_	6206
INCLOSAI	5767	POV_PY4	6004	* N(Y072) RVSOTHPY	6207
INCLOSBM	5770	POV_PY5	6005	* N(Y072) RVSO_HPY	6208
INCL_SBM	5781	PRINERNM	6006	* N(Y072) TYPEPYX	6209
INCLOSBI	5782	PRIN_RNM	6008	* N(Y072) TYPEPYX_	6217
INCLOSBI	5791	PRINERN1	6009		
INCLOSBI	5800	PRINERN2	6011		
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		

## B. MEMB FILE

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	JSSDEX	140	NONFARMB	272
ANFEDTX_	29	JSSDEX_	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
ANRRDEX	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	RRRDEX	185	HISP_NIC	314
EMPLCONT	77	RRRDEX_	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	SOCRRX	239	RC_DK_	329
INCM_DCR	119	SOCRRX_	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
ANPRVPM	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	SOCRXXM	683
FARMINC1	389	SOCRXXM_	693
FARMINC2	398	SOCRXX1	694
FARMINC3	407	SOCRXX2	702
FARMINC4	416	SOCRXX3	710
FARMINC5	425	SOCRXX4	718
FARMINCI	434	SOCRXX5	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		
NONFARM1	488		
NONFARM2	497		
NONFARM3	506		
NONFARM4	515		
NONFARM5	524		
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

A partial list of publications containing data from the CE program appears below. Reports may be purchased from the Chicago regional sales center, from the U.S. Government Printing Office, Washington D.C., 20402, or from National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia 22161. To place a telephone order with National Technical Information Service, call (703)-487-4650, or for a rush order, call 1(800)-553-NTIS. Single year Consumer Expenditure reports are available on the Consumer Expenditure Survey website: [www.bls.gov/cex](http://www.bls.gov/cex).

Consumer Expenditures in 2006	Consumer unit income and expenditures, integrated data from Diary and Interview Surveys, classified by consumer unit characteristics. 10 tables.
Consumer Expenditures in 2005, Report 998 (2007)	Consumer unit income and expenditures, integrated data from Diary and Interview Surveys, classified by consumer unit characteristics. 10 tables.
Consumer Expenditures in 2004, Report 992 (2006)	Consumer unit income and expenditures, integrated data from Diary and Interview Surveys, classified by consumer unit characteristics. 10 tables.
Consumer Expenditures in 2003, Report 986 (2005)	Consumer unit income and expenditures, integrated data from Diary and Interview Surveys, classified by consumer unit characteristics. 10 tables.
Consumer Expenditure Survey Anthology, Report 981 (2005)	A collection of analytical and methodological articles using Consumer Expenditure Survey data.
Consumer Expenditures in 2002, Report 974 (2004)	Consumer unit income and expenditures, integrated data from Diary and Interview Surveys, classified by consumer unit characteristics. 10 tables.
Consumer Expenditure Survey, 2000-2001, Report 969 (2003)	Consumer unit income and expenditures, integrated data from Interview and Diary Surveys, classified by consumer unit characteristics: one way and cross tabulations, relative and aggregate shares. 64 tables.
Consumer Expenditure Survey Anthology, Report 967 (2003)	A collection of analytical and methodological articles using Consumer Expenditure Survey data.
Consumer Expenditures in 2001, Report 966 (2003)	Consumer unit income and expenditures, integrated data from Diary and Interview Surveys, classified by consumer unit characteristics. 10 tables. Available on request (202)691-6900.
Consumer Expenditures in 2000, Report 958 (2002)	Consumer unit income and expenditures, integrated data from Diary and Interview Surveys, classified by consumer unit characteristics. 10 tables. Available on request (202)691-6900.

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

## CONSUMER EXPENDITURE SURVEY DATA ON THE INTERNET

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

### One Year Tables

*Standard Tables from 1984-2007*  
*Expenditure Shares Tables from 1998-2007*  
*Aggregate Expenditure Shares Tables from 1998-2007*

### Two Year Tables

*Cross-Tabulated Tables from 1986-2007*  
*Metropolitan Statistical Area Tables from 1986-2007*  
*Region Tables from 1998-2007*  
*High Income Tables from 1998-2002*  
*Multi-Year Tables for 1984-1992 and 1994-2007*

## FAX ON DEMAND - FAXSTAT

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

## CD-ROMS

CE microdata on CD-Rom are available from the Bureau of Labor Statistics for 1972-73, 1980-81, 1990-91, 1992-93, and for each individual year from 1994-2007. The 1980-81 through 2007 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.