

OPLC REQUIREMENTS FOR THE CONSUMER EXPENDITURE SURVEYS

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I. Purpose

This report identifies the necessary minimum set of data elements the Consumer Expenditure Surveys (CE) must collect to meet the needs of the Office of Prices and Living Conditions (OPLC) Division of Consumer Expenditure Surveys (DCES), the Consumer Prices and Price Indexes Division (CPI), and the Division of Price and Index Number Research (DPINR). The purposes of this report are to 1) provide a basis for ongoing survey redesign discussions and 2) serve as a living document that will be updated with any changes in the priorities of the program offices represented.

This document discusses those data requirements that enable the CE to fulfill its mission but does not discuss survey design features necessary to meet those requirements. It addresses both expenditure and non-expenditure requirements. Section II provides some background on the objectives of the CE. Section III presents the set of expenditure categories that the CE survey must provide. Section IV details the non-expenditure data items the survey must also collect. These consist of demographic and socioeconomic characteristics variables. In Section V, there are recommendations concerning qualities or features of the data assigned to these categories, such as population coverage and periodicity.

While these requirements meet the basic mission of the CE, each division needs additional features in terms of expenditure categories, non-expenditure data items, and other survey-related functionalities that would enhance the CE. These features are presented in Appendix E of this report.

II. Background

The mission of the CE is to collect, produce and disseminate information that presents a statistical picture of consumer spending for use by government agencies and private data users. First and foremost, these data are used by the CPI to estimate weights for the consumer goods and services classification structure used in calculation of its indexes, commonly referred to as the 'market basket' of consumer purchases. More specifically, the CPI uses CE data to estimate annualized expenditures, for the total

urban population and the urban wage-earner population groups, for the Consumer Price Index for Urban Consumers (CPI-U) and the Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W). These expenditure weights were previously updated biennially but are currently updated annually beginning with January 2023 indexes. The CPI also uses CE data to estimate monthly expenditure weights for the urban population to construct the Chained CPI index series (C-CPI-U). Furthermore, the CPI uses annualized expenditure estimates from CE data to probabilistically select entry-level item categories for pricing in its Commodities & Services (C&S) Survey, and to make certain quote-level weight adjustments to the sample of unique items priced in the survey. CE data is also the primary source of the CPI establishment sampling frame.

For DCES itself, the objectives are threefold: 1) to disseminate data on consumer expenditures and demographic/socioeconomic characteristics in several formats, 2) to provide education and assistance in the use of the data; and 3) to conduct analytical studies. The CE publishes tabulations of all expenditures nationally and for selected subgroups, provides comprehensive annual public use microdata for the analysis of the expenditure patterns of individual consuming units in the U.S., and supports a variety of economic research, such as determining poverty thresholds and analyzing spending patterns by income level. As an internal user of CE data, DPINR staff use CE data in several different research projects. In cooperation with the Bureau of the Census, DPINR is at the forefront of using CE data to produce the Supplemental Poverty Measure (SPM thresholds, a supplement to official poverty thresholds). Additionally, the PINR division, in coordination with the CE division, is working to produce a consumption measure with the CE as the base survey. The DPINR and DCES divisions are also working together to produce distributional National Accounts of Personal Consumption Expenditures (PCE) using the CE to allocate PCE across consumer units. For additional details on current research work see: [CE Research: U.S. Bureau of Labor Statistics \(bls.gov\)](https://www.bls.gov/research/ce/).

Other Federal agencies are also prominent users of CE data. The Internal Revenue Service employs CE data to derive its optional state and local sales tax table. The U.S. Department of Agriculture produces its annual report on expenditures on children by families, a resource used in establishing child support and foster care guidelines, from

CE data. As a final example, the Department of Defense uses CE data to compute cost of living allowances for Armed Forces families.

The universe of CE data users extends to state governments, public policy think-tanks, academic institutions, and private companies. Topics such as the distributional effects of consumption-based taxes, analysis of income and consumption inequality, and poverty measurement are addressed employing CE data.

III. Expenditure Categories

A list of broadly defined expenditure item categories has been developed that represent the minimum set of expenditures the CE survey must produce. These categories satisfy CPI's expenditure class (EC) level of detail, but do not meet the level of entry level items (ELI) currently defined within CPI's market basket structure. These categories will supply sufficient detail to support the production of publication tables and public use microdata by DCES. They also provide the detail necessary to support the research agenda of DPINR, particularly for the development of the SPM.

In determining what constitutes an expenditure, decisions have been made concerning when an expenditure has been considered to occur, how it is to be valued, how it is paid for, and for whom the expenditure has been made. Expenditures are defined as the acquisition costs, including sales taxes, as measured by actual financial obligation at the time of acquisition in dollar terms, for any type of payment method, of all goods and services that are acquired from outside the consumer unit. To obtain the actual financial obligation or out-of-pocket expense, third-party reimbursements paid at the time of acquisition or later should be accounted for in determining the amount of expenditure. Goods and services acquired for persons outside the consumer unit (gifts) are included. Those purchases or portions of purchases directly assignable to business purposes are excluded. Also excluded are periodic credit or installment payments on goods or services already acquired. Goods and services obtained through non-financial means, such as home production, barter, and in-kind receipts do not qualify as well.

In order to determine the requirements, CPI provided a spreadsheet that contained CPI EC, Item Strata, ELI, and Universal Classification Code (UCC) detail that form the basis

for creating the CPI market basket. Appendix A presents the 126 expenditure categories decided upon by DCES, CPI, and DPINR. Beside each category are listed the current expenditure items, designated by their UCC number, that comprise the item category.

IV. Nonexpenditure items

While the primary goal of the CE survey is to collect accurate expenditure data on consumer purchases, there are nonexpenditure data items, such as demographic characteristics and socioeconomic variables, that are required to meet the needs of the DCES, CPI and DPINR divisions. These data items serve such functions as classification variables for the publication tables produced by DCES, as qualifying variables for eligibility of expenditures in producing market baskets for the CPI-U, CPI-W, and CPI-E¹ populations, and as explanatory variables in economic studies within DPINR and the outside research community.

Appendix B presents the nonexpenditure variables that must be collected in the CE. The first column shows the variable name while the second column shows the categories the variable should identify. While continuous variables are typically preferred, there are many numeric variables where less detailed categorical breakdowns are sufficient to meet the needs of the DCES, CPI, and DPINR divisions.

In addition, to provide insight into what variables were selected and how the breakdown categories were chosen, information has been provided on which division(s) required the variable, the general purpose for which it was needed, and the desired variable categories to fulfill that purpose. The CE Branch of the Statistical Methods Division (SMD) was included as there were some variables that were required for weighting and nonresponse adjustment. The third and fourth columns of the table show the division and rationale.

Other useful demographic and socioeconomic variables may be collected as resources permit but should not be considered integral to the core scope of the CE. They will need to compete with other items for inclusion in the survey, based on available resources and respondent burden.

¹ The CPI-E is a research Consumer Price Index for Americans 62 years of age and older,

V. Other required data features

Population. Coverage for the national, civilian, non-institutional population² is necessary from the CE. In order to provide national coverage, the CE must measure spending in both urban and rural areas.

Reference unit. To achieve its goal of collecting expenditure data from the U.S. civilian non-institutional population, the survey must be able to assign expenditure data to a reference unit composed of an individual or group of persons that behave as an organized unit in making expenditure decisions. The CE has identified this entity as a “consumer unit” or “CU” and it has been the historical collection unit since the 1972-73 survey.

The formal definition of a CU in the CE is: (1) all members of a particular household who are related by blood, marriage, adoption, or other legal arrangements; or (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 independent³; or (3) two or more persons living together who pool their income to make joint expenditure decisions.

The consumer unit is very similar to, but may provide more accurate expenditure data than, a "household". The Census Bureau, the data collection agency for the CE, defines a household as all people living in a housing unit with a shared entrance. A household can include persons paying jointly for housing space but who do not share other living expenses. In addition, if household members are independent agents with respect to their spending decisions, it is unlikely any particular household member will know the expenditures of all other members, so the aggregate totals for the household are not collectible.

²The civilian noninstitutional population includes students living in college or university housing and excludes active-duty members of the U.S. Armed Forces and people confined to, or living in, institutions or facilities such as prisons, jails, and other correctional institutions and detention centers, or residential care facilities such as skilled nursing homes.

³ Financial independence is determined by spending behavior with regard to the three major expense categories: housing, food, and other living expenses. To be considered financially independent, the respondent must provide at least two of the three major expenditure categories, either entirely or in part.

While the CU is the current choice as the reference unit for the organization of CE data, this may not be the case in the future. As living arrangements among people evolve, it may be that individuals will form new organizational units that are theoretically more appropriate than the CU, as currently defined, for CE purposes. Such units would still be required to make joint spending decisions and exhibit financial interdependence among their members. These are areas for further comparative research.

Sample size. The sample size of the CE survey must be sufficient to allow the CPI to (1) produce reliable monthly expenditure estimates as needed for the C-CPI-U national index, and (2) replace its cost weights every year for its national and subnational CPI-U and CPI-W indexes.

For the CE, the sample size must be large enough to provide enough usable interviews to produce reliable annual estimates at the level of expenditure detail shown in Appendix C, both nationally and for the calendar year tables currently produced. The sample size must also be sufficient to guarantee that the public use microdata meets the U.S. Census Disclosure Review Board's confidentiality requirements so that respondents cannot be identified.

Time period and periodicity. To support the CPI-U, annual expenditure estimates for calendar base periods are required. The C-CPI-U requires expenditure estimates for each basic index cell (item strata/index area combination) in each calendar month.

The CE data are currently published twice per year. The "Annual Release" is comprised of annual tables and public use microdata containing the previous calendar year's estimates. The "Midyear Release" adds an additional two calendar quarters of spending information to the annual release. Beginning in 2022, these additional quarters are provided as public use microdata. Prior to 2022, these were presented as annual tables with the most recent four quarters of data. In summary, the CE must be able to produce annual and monthly data to satisfy CE and CPI needs.

Panel component. The CE Interview Survey estimates and microdata currently include four quarters of data from CUs from interview waves 1 - 4. This panel component allows microdata users to track spending for a CU over the course of an entire year. The CE

considers the ability to support micro-level analyses over a 12-month period to be a requirement. This can be accomplished by either of two base designs:

1. A design similar to the current Interview Survey design which collects a continuous 12 months of spending data.
2. A design based on collect spending data covering a minimum reference period of three months that are 12 months apart.

Here are other key features of the requirement for base design 1:

- The reference period for collecting spending data is flexible. The current design meets this option since it collects the continuous 12 months of spending data through four interviews, each with a three-month reference period. Alternatively, a design employing three interviews with a four-month reference period over 12 months would also meet the option.
- The supporting data (demographics, income, assets, and liabilities) must cover the same 12-month period as the expenditures. Data on income and assets and liabilities should be collected at the endpoints of the panel. The reference period for these items need not match the reference period for expenditures, as long as users will be able to calculate a 12-month estimate for income and the change in assets and liabilities that matches the 12-month time period for expenditures.
- Information on the roster of household members, such as which members are living in the household, must be updated each interview.

Here are other key features of the requirement for base design 2:

- The reference period for collecting spending and income data must be a minimum of three months. Thus, for example, a CU interviewed in January 2020 would provide at a minimum expenditure and income data for October – December 2019. The CU would be interviewed again in January 2021 and provide at a minimum expenditure and income data for October – December 2020. The reference period for expenditures and income do not need to be the same as long as users can estimate the 12-month change in both.

- Demographic data and the stock value for assets and liabilities must be collected at each interview.
- Information on the roster of household members, such as which members are living in the household, must be updated each interview.

Here are other features of the overall requirement:

- A synthetic panel does not meet the requirement since the survey will not collect sufficient information about each CU to permit a valid matching of expenditures between CUs.
- While the requirement is to collect data from the same CU over time, the design will not be based on “following” CUs that move from one location to another.
- It is not required that the 12 months over which spending, or income are measured match the calendar year. Thus, depending on the design chosen, a CU may be interviewed only once within a calendar year.

The CPI does not require the CE data to come from a panel of respondents.

Full profile of spending in microdata. The CE must incorporate the capability of producing microdata files where a full profile of expenditures is available for each sampled unit for either design 1 or 2 of the panel component. To the extent that the survey employs a variety of modes of primary data collection from sample units, or incorporates data from secondary sources (administrative data, data from other special-purpose expenditure surveys), a methodology to integrate the data from these multiple sources will also be required.

Collection of outlet information. The transition to using CE data as a source for outlet information previously collected in the Telephone Point of Purchase Survey (TPOPS) in 2019 has resulted in additional requirements for the CE. The frame requirement is to collect the name of at least one outlet associated with each expenditure category reported. For implementation into the CE, matrix sampling is used since the CPI rotation requirement only requires outlet information for each category once over a four-year period in each primary sampling unit (PSU). Outlet questions need to be administered to a sub-sample of respondents, to obtain sufficient outlet frame sizes. CE collects outlet

name, mode of purchase (online, over the telephone, in person), and city and state of the outlet (location is only asked for in-person purchases). In addition, extended recall questions have been added which are asked when no purchase is reported, with the objective of resolving differences in total number of outlets collected due to differences in recall periods between the CE and TPOPS. Details of outlet collection are provided in Appendix F.

Appendix A. Expenditure Item Categories

UCC updates in Appendix A reflect changes made to the original 2013 OPLC requirements document through 2023.

<u>Item Category</u>	<u>Component UCCs</u>
1. Men's apparel	360110 Men's Suits 360120 Men's Sportcoats/Tailored Jackets 360210 Men's Coats and Jackets 360319 Men's Underwear, Hosiery, Nightwear, and Swimwear 360330 Men's Accessories 360350 Men's Swimsuits/Warm-Up/Ski Suits 360340 Men's Sweaters and Vests 360410 Men's Shirts 360420 Men's Sweaters/Shirts/Vests 360513 Men's Pants and Shorts 360901 Men's Uniforms 360902 Men's Costumes
2. Women's apparel	380110 Women's Coats and Jackets 380210 Women's Dresses 380312 Women's Vests and Sweaters 380319 Women's Tops 380339 Women's Skirts, Pants and Shorts 380510 Women's Suits 380429 Women's Undergarments, Nightwear, Shapewear and Swimwear 380901 Women's Accessories 380340 Women's Swimsuits/Warm-Up/Ski Suit 380909 Women's Uniforms and Costumes
3. Children's apparel	720210 Children's clothing 370110 Boys Coats and Jackets 370120 Boys Sweaters 370125 Boys Sweaters/Shirts/Vests 370130 Boys Shirts 370219 Boys Underwear, Hosiery, Nightwear, and Swimwear 370220 Boys Accessories 370319 Boys Suits, Sportcoats, Pants and Shorts 370902 Boys Costumes 370903 Boys Uniforms

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3. Children’s Apparel cont.	390110 Girls Coats and Jackets 390120 Girls Dresses, Suits 390210 Girls Shirts/Blouses/Sweaters 390223 Girls Skirts, Pants, And Shorts 390319 Girls Underwear, Nightwear, Hosiery, and Swimwear 390322 Girls Accessories 390901 Girls Uniforms 390902 Girls Costumes
4. Footwear	400110 Men’s Footwear 400210 Boys Footwear 400220 Girls Footwear 400310 Women’s Footwear
5. Infants' and toddlers' apparel	410110 Infant Coat/Jacket/Snowsuit/Swimsuit 410119 Infant and Toddler Outer/Play/Dress /Sleepwear and Accessories 410130 Infant Undergarments
6. Jewelry and watches	430110 Watches 430120 Jewelry
7. Gifts of clothing⁴	720310 Gifts of clothing
8. Educational books and supplies	660000 School Suppl., Etc. - Unspec. 660001 Educational books/Supl/Oth exp
9. College tuition	670110 College Tuition 671000 Prepaid Tuition
10. Other school tuition, tutoring, and test preparation	670210 Elem./H.S. Tuition 670410 Voc/ Tech School Tuition 670903 Test Prep/Tutoring Services

⁴ This category should be comprised of gifts of items in the men’s apparel, women’s apparel, children’s apparel, footwear, infants’ and toddlers’ apparel, and jewelry and watches categories. As such it represents a subset of the expenditures collected in its component item categories. Those categories will include all expenditures, both gift and non-gift.

Appendix A. Expenditure Item Categories

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11. Childcare	670320 Babysitting/Childcare/Daycare/Presch
12. Postage and delivery services	340110 Postage 340120 Delivery Services
13. Telephone services	270102 Cellular Phone Service 270106 Residential Telephone Incl VOIP
14. Internet services	690114 Computer Information Services 690116 Internet Services Away from Home
15. Information and information processing other than internet services	310400 Apps/Games/Ringtones for Devices 320232 Telephones and Accessories 600903 Global Positioning System Device 690111 Compter/Compter Hrdwar N-Bus Use 690113 Repair-Cmptr,Cmptr Sys N-B 690117 Portable Memory 690118 Digital Book Readers 690119 Computer Software 690120 Computer Accessories 690230 Typwrits/Oth Off Mach Non-Bus Use 690310 Installation for Computers
16. Cereals and cereal products	010119 Flour and Prepared Flour Mixes 010210 Cereal, Breakfast and Granola Bars 010310 Rice 010320 Pasta Cornmeal Oth Cereal Prods
17. Bakery products	020219 Bread 020310 Fresh Biscuits, Rolls, Muffins 020410 Cakes and Cupcakes 020510 Cookies 020610 Crackers 020620 Bread and Cracker Products 020710 Doughnuts, Sweetrolls, Coffeecake 020810 Frozen & Refrig. Bakery Prod. 020820 Fresh Pies, Tarts, Turnovers

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18. Beef and veal	030110 Ground Beef Exclude Canned 030219 Other Beef Roasts 030519 Uncooked Beef Steaks 030810 Other Beef (Exclude Canned)
19. Pork	040119 Bacon, Breakfast Sausage and Related Products 040210 Pork Chops 040319 Ham 040410 Other Pork
20. Other meats	050110 Frankfurters 050319 Lunch Meats 050419 Lamb, Organ Meat and Game
21. Poultry	060119 Chicken 060310 Other Poultry
22. Fish and seafood	070119 Processed Fish and Shellfish 070230 Fresh Fish & Shellfish
23. Eggs	080110 Eggs
24. Dairy and related products	090110 Fresh Milk All Types 100210 Cheese 100410 Ice Cream and Related Products 100519 Other Dairy and Related Products 160310 Non-Dairy Cream Substitutes
25. Fresh fruits	110110 Apples 110210 Bananas 110319 Citrus Fruits 110410 Other Fresh Fruits
26. Fresh vegetables	120110 Potatoes 120210 Lettuce 120310 Tomatoes 120410 Other Fresh Vegetables

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27. Processed fruits and vegetables	130129 Frozen Fruits and Vegetables 140219 Canned Fruits and Vegetables 140349 Dried Fruits and Vegetables
28. Juices and nonalcoholic drinks	130119 Frozen Non-carbonated Juices and Drinks 170110 Cola Drinks 170210 Other Carbonated Drinks 170539 Non-frozen Non-carbonated Juices and Drinks
29. Beverage materials including coffee	170319 Coffee 170520 Tea
30. Sugar and sweets	150110 Candy and Chewing Gum 150219 Sugar and Artificial Sweeteners 150310 Other Sweets
31. Fats and oils	100119 Butter and Margarine 160211 Fats & Oils 160212 Salad Dressings
32. Other foods	180110 Soup 180210 Frozen Meals 180220 Froz/Prep. Food Oth Than Meals 180310 Potato Chips And Other Snacks 180320 Nuts 180410 Salt/Other Seasonings & Spices 180420 Olives, Pickles, Relishes 180510 Sauces And Gravies 180520 Other Condiments 180611 Prepared Salads 180612 Prepared Desserts 180620 Baby Food 180710 Misc. Prepared Foods 550219 Vitamins and Supplements
33. Food away from home at fast food	190400 Food and nonalcoholic beverages at fast food

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34. Food away from home at full-service restaurants	190500 Food and nonalcoholic beverages at full-service restaurants
35A. Food away from home at vending machines	190600 Food and nonalcoholic beverages at vending machines and mobile vendors
35B. Food away from home at employer	190700 Food and nonalcoholic beverages at employer
36 Gifts of food⁵	800600 Gifts of food and beverages
37. School meals	190905 School Meals and Board
38. Catered affairs	190902 Food and Bev For Catered Affairs 680310 Live Entertain. For Cat Affairs 680320 Rental of Party Supp Cat Affairs
39. Food on out-of-town trips	190903 Food Out of Town Trips
40. Food prepared by CU on out-of-town trips	190904 Food Prepared by Consumer Unit On Out-Of-Town Trips
41. Meals as pay	800700 Meals as Pay
42. Beer, wine and other alcoholic beverages at home	200119 Beer, Ale and other Malt Beverages at Home 200219 Distilled Spirits at Home 200310 Wine at Home

⁵ This category should be comprised of gifts of items in the food at home and food away from home categories. Once again, this represents a subset of expenditures in the component categories; all expenditures will be collected in those categories.

Appendix A. Expenditure Item Categories

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43. Beer, wine and other alcoholic beverages away from home	790420 Alcoholic beverages at restaurants, taverns, and bars
44. Tobacco and smoking products	630110 Cigarettes 630210 Other Tobacco Products 630220 Smoking Accessories
45. Personal care products	640119 Products for the Hair 640130 Wigs and Hairpieces 640219 Nonelectric Dental and Shaving Products 640310 Cosmetics, Perfume, Bath Prep 640410 Deod, Fem Hyg, Misc. Pers. Care 640420 Electric Personal Care Appl.
46. Personal care services	650310 Pers. Care Serv. 650900 Repair Of Pers. Care App.
47. Legal fees and financial expenses	620112 Credit Card Memberships 680110 Legal Fees 680210 Safe Deposit Box Rental 680220 Check Accts / Oth Bank Serv Chgs 680902 Accounting Fees
48. Funeral expenses	680140 Funeral Expense 680901 Cemetery Lots, Vaults, Maint Fees
49. Other apparel services	340520 Hshld Lndry,Drycln Not Coin-Op 340530 Coin-Op Hshld Lndry, Dry Cln 440110 Shoe Repair, Oth Shoe Service 440120 Coin-Op Apparel Ldry/Dry Clng 440130 Alter/Repair Of Apparel, Access 440140 Clothing Rental 440150 Watch And Jewelry Repair 440210 Apparel Lndry/Dry Clng N/Coin-Op 440900 Clothing Storage Outside the Home

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50. Miscellaneous personal services⁶	680903 Misc. Pers. Services
51. Miscellaneous personal goods⁷	320130 Infants Equipment 330410 Stationery, Giftwrap, Etc. 430130 Luggage
52. Rent of primary residence	210110 Rent Of Dwelling
53. Rent as pay	800710 Rent As Pay
54. Lodging away from home	210210 Lodging Away From Home 210310 Housing For Someone At School
55. Owners' equivalent rent of primary residence	910104 Rental Equivalence Of Owned Home
56. Owners' equivalent rent of vacation/second residence	910105 Rent Equiv Vac Home Not Avail Rnt 910106 Rent Equiv Vac Home Avail For Rnt 910107 Rental Equivalence For Timeshares
57. Household insurance⁸	220121 Homeowners Insurance Ownd 220122 Homeowners Insurance Ownv 350110 Renters Insurance

⁶ The CE Division will research remapping the Diary item codes that constitute "Misc. pers. services" when source selection for publication tables is reviewed.

⁷ The Requirements Team notes that this category is a collection of disparate items that should be examined for reassignment.

⁸ To satisfy CE and CPI needs, the distinctions between owned/rented/owned vacation are required. The tenure status of the sample unit and the inventory of owned property can be used to distinguish renters from owners and owned sample units from owned vacation homes. These distinctions will apply to all categories marked with an asterisk, such as utilities, that are composed of UCC's distinguishing owners and renters.

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58. Fuel oil and other fuels	250111 Fuel Oil Rntr 250112 Fuel Oil Ownd 250113 Fuel Oil Ownv 250114 Fuel Oil Rntv 250211 Gas, Bottled Or Tank Rntr 250212 Gas, Bottled Or Tank Ownd 250213 Gas,Bottled Or Tank - Ownv & Rvs 250214 Gas, Bottled Or Tank Rntv 250911 Other Fuels Rntr 250912 Other Fuels Ownd 250913 Other Fuels Ownv 250914 Other Fuels Rntv
59. Electricity	260111 Electricity Rntr 260112 Electricity Ownd 260113 Electricity Ownv 260114 Electricity Rntv
60. Natural gas	260211 Utility--Natural Gas Rntr 260212 Utility--Natural Gas Ownd 260213 Utility--Natural Gas Ownv 260214 Utility--Natural Gas Rntv
61. Water, sewer and trash collection services	270211 Water And Sewerage Maint Rntr 270212 Water And Sewerage Maint Ownd 270213 Water And Sewerage Maint Ownv 270214 Water And Sewerage Maint Rntv 270411 Trash/Garbage Collect Rntr 270412 Trash/Garbage Collect Ownd 270413 Trash/Garbage Collect Ownv 270414 Trash/Garbage Collect Rntv 270901 Septic Tank Cleaning Rntr 270902 Septic Tank Cleaning Ownd 270903 Septic Tank Cleaning Ownv 270904 Septic Tank Cleaning Rented Vac
62. Floor coverings	320624 Flooring Inst/Rep/Repl Rntr 320625 Flooring Inst/Rep/Repl Ownd

Appendix A. Expenditure Item Categories

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62. Floor coverings cont.	320626 Flooring Inst/Rep/Repl Ownv
63. Household textiles	280110 Bathroom Linens 280120 Bedroom Linens 280140 Kitchen/Dining Room/Othr Linens 280210 Curtains And Drapes 280220 Slipcovers/Decorative Pillows 320111 Floor Coverings (Non-Perm.) 320120 Window Coverings
64. Maintenance and repair supplies	240111 Paint/Wallpaper And Supp Rntr 240112 Paint/Wallpaper And Supp Ownd 240113 Paint/Wallpaper And Supp Ownv 240121 Equip For Paint/Wpaper Rntr 240122 Equip For Paint/Wpaper Ownd 240123 Equip For Paint/Wpaper Ownv 240211 Mat For Panl/Roof/Siding,Etc Rntr 240212 Mat For Panel/Siding, Etc Ownd 240213 Mat For Roof & Gutters, Ownd 240214 Mat For Panl/Roof/Siding, Etc, Ownv 240221 Mat For Patio,Masonry,Etc Rntr 240222 Mat For Patio,Masonry,Etc Ownd 240223 Mat For Patio,Masonry,Etc Ownv 240311 Plumbing Supp/Equip Rntr 240312 Plumbing Supp/Equip Ownd 240313 Plumbing Supp/Equip Ownv 240321 Elec Supp, Heat/Cool Equip Rntr 240322 Elec Supp,Heat/Cool Equip Ownd 240323 Elec Supp,Heat/Cool Equip Ownv 320611 Constrct Mat-Rntr/Udr Cn/Sec Hm 320612 Construction Mat Ownd 320613 Construction Mat Ownv 320631 Lndscping Mat-Rntr/Udr Cn/Sc Hm 320632 Landscaping Materials Ownd 320633 Landscaping Materials Ownv

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65. Unpriced maintenance and repair services	230112 Painting/Papering Labor/Mat Ownd 230113 Plmb/Wtr Heat Labor/Mat Ownd 230114 Heat/Ac/Elec Labor/Mat Ownd 230115 Roofing/Gutters Labor/Mat Ownd 230117 Repl Dishwash/Disp/Hood Rntr 230118 Repl Dishwash/Disp/Hood Ownd 230141 Repair-Displ/Dwshr/Rang Hd Rntr 230142 Repair-Displ/Dwshr/Rang Hd Ownd 230150 Rep/Maint Labor/Mat Rntr 230151 Oth Rep/Maint Labor/Mat Ownd 230152 Oth Rep/Maint Labor/Mat Ownv 230901 Property Management Ownd 230902 Prop Management Ownv 340620 Repair Of Household Appliances 340630 Reupholstery Of Furniture 340913 Repair Of Misc Hshld Eq/Fshgs 990900 Rent/Inst Dwash/Hoods/Disposal
66. Furniture⁹	290110 Mattress And Springs 290120 Other Bedroom Furniture 290210 Sofas 290310 Living Room Chairs 290320 Living Room Tables 290410 Kitchen/Dining Room Furniture 290420 Infants Furniture 290430 Outdoor Furniture 290440 Wall Units, Cabinets, Occas Furn 320901 Office Furniture Home Use 340904 Rental Of Furniture
67. Appliances¹⁰	300111 Purch/Inst Refrig/Freezer Rntr 300112 Purch/Inst Refrig/Freezer Ownd 300216 Purch/Inst Clths Washr/Dryr Rntr

⁹ The CPI and CE Divisions need to determine whether purchases and rentals of furniture should be combined or maintained as separate categories.

¹⁰ The CPI and DCES divisions need to determine whether purchases and rentals of appliances should be combined or maintained as separate categories.

Appendix A. Expenditure Item Categories

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67. Appliances cont.	300217 Purch/Inst Clths Washr/Dryr Ownd 300311 Stoves, Ovens Rntr 300312 Stoves, Ovens Ownd 300321 Microwave Ovens Rntr 300322 Microwave Ovens Ownd 300331 Purch/Inst Port Dishwasher Rntr 300332 Purch/Inst Port Dishwasher Ownd 300411 Purch/Inst Window A/C Rntr 300412 Purch/Inst Window A/C Ownd 300900 Misc Household Appliances 320511 Electric Floor Cleaning Equip 320521 Small Electric Kitchen Appliances 320522 Portable Heating/Cooling Equip 340907 Rental Of Household Equipment 690244 Oth Hh Appl Rntr 690245 Oth Hh Appl Ownd
68. Other household equipment and furnishings	320221 Lamps/Light Fixtures/Ceiling Fans 320233 Clocks And Other Hh Decor Items 320330 Flatware 320345 Dishes/Cups/Glasses/Serving Pieces 320370 Nonelectric Cookware 320380 Tableware/Non-Elec. Kitware 320903 Indoor Plants, Fresh Flowers
69. Tools, hardware, outdoor equipment and supplies	320150 Barbeque Grills And Outdoor Equip 320410 Lawn And Garden Equipment 320420 Power Tools 320430 Other Hardware 320902 Hand Tools 320904 Closet And Storage Items 320905 Misc. Household Equip/Parts 330511 Mat For Termte/Pst Cntrl Maintce 330610 Lawn And Garden Supplies
70. Housekeeping supplies	320140 Laundry And Cleaning Equip. 330119 Laundry and Cleaning Products 330310 Paper Towels/Napkins/Toilet Tissue 330510 Misc Household Products

Appendix A. Expenditure Item Categories

UCC updates in Appendix A reflect changes made to the original 2013 OPLC requirements document through 2023.

71. Household operations	340310 Domestic Service 340410 Gardening/Lawn Care Service 340420 Water Softening Service 340510 Moving, Storage, Freight 340901 Rental/Repair-Tools, Lawn/Garden 340903 Misc. Home Services 340908 Rntl Off Equip Non-Bus Use 340911 Mgmt/Spec Ser/Security Ownd 340912 Mgmt/Spec Ser/Security Ownv 340914 Serv For Termt/Pst Cntrl 340915 Home Security Sys. Serv. Fee
72. Professional medical services	560110 Physicians Services 560210 Dental Services 560310 Eyecare Services 560400 Serv By Pros Oth Than Physicians 560410 Non physician services inside home 560420 Non physician services outside home
73. Adult care	340906 Care Of Invalids, Elderly, Etc 340910 Adult Day Care Centers
74. Hospital and related services	560330 Lab Tests, X-Rays 570111 Hospital Rooms & Services 570220 Care In Convl Or Nursing Home 570230 Other Medical Care Service 570240 Medcl Serv Incl In Hm Own Exp
75. Commercial Health insurance	580115 Fee for Serv Hlth Plan (No BCBS) 580116 Fee for Serv Hlth Plan (BCBS) 580311 Hlth Maint. Org (No BCBS) 580312 Hlth Maint. Org (BCBS) 580411 Dental Care Insurance (No BCBS) 580412 Dental Care Insurance (BCBS) 580431 Vision care insurance (not BCBS) 580432 Vision care insurance (BCBS) 580441 Other single service insurance (not BCBS) 580442 Other Single Service Insurance (BCBS) 580903 Coml Medicare Supplement (No BCBS) 580904 Coml Medicare Supplement (BCBS)

Appendix A. Expenditure Item Categories

UCC updates in Appendix A reflect changes made to the original 2013 OPLC requirements document through 2023.

75. Commercial Health insurance cont.	580905 Other Health Insurance (No BCBS) 580906 Other Health Insurance (BCBS)
76. Medicare payments	580901 Medicare Payments 580908 Medicaid premiums 580909 Tricare/military premiums 580910 CHIP premiums
77. Long term care insurance	580401 Long term care insurance (not BCBS) 580402 Long term care insurance (BCBS)
78. Medicare presc. drug prem.	580907 Medicare Pres. Drug Premiums 580421 Prescription drug insurance (not BCBS) 580422 Prescription Drug Insurance (BCBS)
79. Medicinal drugs	540000 Prescription Drugs 550210 Over-The-Counter Drugs 630900 Marijuana
80. Medical equipment and supplies	550110 Eyeglasses And Contact Lenses 550310 Topicals And Dressings 550320 Medical Equip. For General Use 550330 Supportive/Conval Med. Equip. 550340 Hearing Aids 570901 Rental Of Medical/Surgical Equip 570902 Repair Of Medical Equipment 570903 Rental Of Supportive/Conval Equip
81. Video and audio	270310 Cable/Satellite/Com Antenna Serv 270311 Satellite Radio Service 310140 Televisions 310210 Vcrs/Video Disc Players 310220 Video Cassettes/Tapes/Discs 310231 Video Game Software 310232 Video Game Hardware/Accessories 310241 Streaming Video Files 310242 Downloading Video Files 310243 Rental, streaming, downloading video 310312 Phonographs

Appendix A. Expenditure Item Categories

UCC updates in Appendix A reflect changes made to the original 2013 OPLC requirements document through 2023.

<p>81. Video and audio cont.</p>	<p>310314 Digital Audio Players 310315 Digital Media Players & Recorders 310316 Radios/Speakers/Sound Comp Systems 310331 Misc Sound Equipment 310332 Sound Equip Accessories 310334 Satellite Dishes 310335 Misc Video Equipment 310340 Records,Cds,Audio Tapes 310350 Streaming/Downloading Audio 310900 Access. For Electronic Equip. 340610 Repair Of Tv/Radio/Sound Equip 340902 Rental Of Televisions 340905 Rental Of Vcr/Radio/Sound Equip 620912 Rntl Video Cass/Tapes/Discs/Films 620917 Rental Video Hardwr/Accessor 620918 Rental Video Software 620930 Online Entertainment and Games¹¹ 690320 Installation For Tvs 690330 Installation Satellite Tv Equip 690340 Installation Of Sound Systems 690350 Install Of Other Video/Sound Syst</p>
<p>82. Pets, pet products and services</p>	<p>610310 Pet Food 610320 Pet-Purchase/Supplies/Medicine 620410 Pet Services 620420 Vet Services</p>
<p>83. Sporting goods</p>	<p>600210 General Sport/Exercise Equip 600310 Bicycles 600315 Scooters, and other single rider transport 600410 Camping Equipment 600420 Hunting, Fishing Equipment 600430 Winter Sport Equipment 600901 Water Sport Equipment 600902 Other Sport Equipment 610120 Playground Equipment</p>

¹¹ The Requirements Team recommends that research be done to determine whether “Online entertainment and games” should be assigned here or to “Recreation services”.

Appendix A. Expenditure Item Categories

UCC updates in Appendix A reflect changes made to the original 2013 OPLC requirements document through 2023.

83. Sporting goods cont.	620908 Rent/Repair Of Misc Sports Equipment
84. Boats, RV's, and other recreational vehicles	450900 Aircraft 460903 Used Aircraft 520901 Docking/Landing Fees 520904 Rental Non-Camper Trailer 520907 Boat/Trailer Rent Out Of Town 600110 Outboard Motor 600121 Boat W/O Motor/Boat Trailers 600122 Trail/Oth Attachable Campers 600132 Purchase Of Boat With Motor 600141 Purchase Of Motor Home 600142 Purchase Of Other Vehicle 620906 Rental Of Boat 620909 Rental Camper On Trips 620919 Rental Other Vehicles On Trips 620921 Rental Of Motor Home 620922 Rental Of Other RVs
85. Amount recreational vehicle sold or reimbursed	860301 Amt Motor Home Sold/Reimb 860302 Amt Oth Vehicle Sold/Reimb 860600 Amt Boat With Motor Sold/Reim 860400 Amt Trailers/Oth Attach Campers Sold/Reimb 860800 Amt Plane Sold/Reimb
86. Photography	610210 Film 610220 Other Photographic Supplies 610230 Photographic Equipment 620320 Photographer Fees 620330 Film Processing 620905 Rent/Rep Photo Equip
87. Other recreational goods	610110 Toys Games Arts Crafts Tricycles 610130 Music Instruments/Accessories 610140 Stamp And Coin Collecting 610901 Fireworks 610902 Souvenirs 610903 Visual Goods

Appendix A. Expenditure Item Categories

UCC updates in Appendix A reflect changes made to the original 2013 OPLC requirements document through 2023.

87. Other recreational goods cont.	620904 Rent/Rep Music Instruments
88. Sewing	320512 Sewing Machines 420115 Sewing/Ndlwrk/Quilt Matrls/Items
89. Recreation services	610900 Recreation Expenses Out-Of-Town 620111 Social/Recre/Civic Club Membrshp 620115 Shopping Club Memb Fees 620121 Fees For Participant Sports 620122 Partic. Sports Out-Of-Town Trip 620310 Fees For Recreational Lessons 620710 Camp Fees 620903 Oth Ent Serv, Out-Of-Town Trip 680904 Dating Services 680905 Vacation Clubs
90. Movie, theater, sporting event, and other admissions	620212 Movie, Oth Adm. Out-Of-Town 620213 Tkts to Play/Theatr/ Opera/Concert 620215 Tickets to movies 620216 Tickets to parks or museums 620221 Admission To Sporting Events 620222 Adm To Sprts Events Out-Of-Tow 620913 Pinball/Electronic Video Games 620510 Admissions Misc 620610 Misc. Entertainment Services
91. Recreational reading materials	590220 Books Thru Book Clubs 590230 Books Not Thru Book Clubs 590210 Magazines 590110 Newspapers 590900 Newsletters
92. New cars and trucks	450110 New Cars 450210 New Trucks

Appendix A. Expenditure Item Categories

UCC updates in Appendix A reflect changes made to the original 2013 OPLC requirements document through 2023.

93. Used cars and trucks	460110 Used Cars 460901 Used Trucks
94. Motorcycles	450220 New Motorcycles 460902 Used Motorcycles
95. Leased and rented vehicles	450353 Cash Downpayment for Car/Truck Lease 450354 Termination Fee for Car/Truck Lease 520516 Auto/Truck Rental 520517 Auto/Truck Rental, Out-Of-Town Trips 520902 Motorcycle Rental 520903 Aircraft Rental 520905 Motorcycle Rental Out-Of-Town 520906 Aircraft Rental/Out-Of-Town Trips
96. Trade-in allowance, new cars and trucks	450116 Trade-In Allowance/New Cars 450216 Trade-In Allow/New Trucks
97. Trade-in allowance, new motorcycles	450226 Trade-In Allow/New Motorcycles
98. Trade-in allowance, leased vehicles	450352 Trade-In Allow for Car/Truck Lease
99. Amount car/truck sold or reimbursed	860100 Amt Auto Sold Or Reimbursed 860200 Amt Truck Sold Or Reimbursed
100. Amount motorcycle sold or reimbursed	860500 Amt Motorcycle Sold/Reim
101. Motor fuel	470111 Gasoline 470112 Diesel Fuel 470113 Gasoline On Out Of Town Trips 470114 Alternate fuels

Appendix A. Expenditure Item Categories

UCC updates in Appendix A reflect changes made to the original 2013 OPLC requirements document through 2023.

101. Motor fuel cont.	470311 Electric Vehicle Charging
102. Motor vehicle parts and equipment	470212 Motor Oil On Out Of Town Trips 480110 Tires Purchased/Replaced/Install 480100 Vehicle parts, accessories, fluids excluding tires
103. Motor vehicle maintenance and repair	490100 Vehicle maint/repair excluding tire purchase 490900 Auto repair service policy 520410 Vehicle Inspection
104. Motor vehicle insurance	500110 Vehicle Insurance
105. Motor vehicle fees	510115 Vehicle registration including personal property tax 520310 Drivers License 520531 Prkng Fee In Hme City Excl Rsdnc 520532 Parking Fees, Out-Of-Town Trip 520541 Tolls Or Electronic Toll Passes 520542 Tolls On Out-Of-Town Trips 520550 Towing Charges 620114 Auto Service Clubs/GPS Services*
106. Personal Property Taxes	
107. Airline fares	530110 Airline Fares
108. Other public transportation	530210 Intercity Bus Fares 530311 Intracity Mass Transit Fares 530312 Local Trans. Out of Town Trips 530411 Taxi Fares on Trips 530412 Taxi Fares and Limousine Service 530510 Intercity Train Fares 530901 Ship Fares 530902 School Bus 600311 Bike Sharing, E-scooters

Appendix A. Expenditure Item Categories

UCC updates in Appendix A reflect changes made to the original 2013 OPLC requirements document through 2023.

109. Mortgage interest and charges	220311 Mortgage Interest Ownd 220312 Mortgage Interest Ownv 220313 Interest, Lmp Sum Hm Eq Ln, Ownd 220314 Interest, Lmp Sum Hm Eq Ln, Ownv 880110 Interest, Hm Eq Ln (Crdt), Ownd 880210 Interst,Hm Eq Ln(Crdt), Oth Prop 880310 Interest, Hm Eq Ln (Crdt), Ownv
110. Property taxes	220211 Property Taxes Ownd 220212 Property Taxes Ownv
111. Other housing expenses	210901 Ground Rent Ownd 210902 Ground Rent Ownv 220901 Parking Ownd 220902 Parking Ownv
112. Miscellaneous	620925 Miscellaneous Fees 620926 Lotteries And Parimutuel Losses 790600 Maint/Rep/Util Oth Prop
113. Occupational expenses	900002 Occupational Expenses
114. All other gifts¹²	
115. Miscellaneous maintenance and repair supplies, renters	790690 Constr Mat Job Not Strtd Rntr 990920 Mat For Add/Remod/Etc Rntr 990930 Mat Remod Etc Maint/Rep Ownd 990940 Mat Remod Etc Maint/Rep Ownv
116. Life and other personal insurance	002120 Other Non-Health Insurance 700110 Life/Endow/Annuity/Oth Pers Ins
117. Vehicle finance charges	510110 Automobile Finance Charges 510901 Truck Finance Charges 510902 Motorcycle & Plane Finance Chg 850300 Int Paid On Oth Veh

¹² This category should be comprised of all other gifts, excluding clothing and food categories.

Appendix A. Expenditure Item Categories

UCC updates in Appendix A reflect changes made to the original 2013 OPLC requirements document through 2023.

118. Finance charges excl. mortgage & vehicle	710110 Finance Charges Excl Mort/Veh
119. Deductions for Social Security	800940 Deductions For Social Security
120. Payroll deductions to retirement plans	800910 Deductions For Government Retire 800920 Deductions For Railroad Retire 800931 Deductions For Private Pensions
121. Non-payroll deposit to retirement plans	800932 Non-Payroll Deposit To Retire Plans
122. Alimony¹³	800111 Alimony Expenditures
123. Child Support	800121 Child Support Expenditures
124. Support for college students	800804 Support For College Students
125. Cash contrib. to charities, educ. & other organizations	800821 Cash Contrib. To Charities, Oth. Orgs. 800831 Cash Contrib. To Churches, Relig. Orgs. 800841 Cash Contrib. To Educational Orgs.
126. Other cash and non-cash gifts	800811 Gifts To Non-Cu - Stock, Bonds, Etc. 800851 Cash Contrib. To Political Orgs. 800861 Other Cash Gifts

¹³ Needed for tax simulation program

Appendix B. Required Nonexpenditure Item Categories

<u>Variable</u>	<u>Categories</u>	<u>Division</u>	<u>Primary use</u>
1. Relationship to reference person	Spouse, child, other related person, unmarried partner/member		
	Spouse	CPI	CPI elderly index
	Spouse, own child, other	DCES	Publication tables
	Spouse, child, other related person, unmarried partner/member	DCES DPINR	Tax simulation model SPM thresholds
2. Age of member	Continuous		
	Age of reference person: 62 or over (yes/no)	CPI	CPI elderly index
	Age of reference person: Continuous	DCES	Publication tables
	Age of spouse: 62 or over (yes/no)	CPI	CPI elderly index
	Age of spouse: Continuous	DPINR	SPM thresholds and consumption measure: classification of spouses as adults
	Age of member: 14-24, 25-34, 35-44, 45-54, 55-64, 65-74, 75 and over	SMD	Calibration weighting
	Age of member: Under 18 (yes/no); 65 and over (yes/no)	DCES	Publication tables
	Age of member: Under 24 (yes/no); under 18 (yes/no)	DCES	Tax simulation program
	Age of member: women age over 15, 15-45	DPINR	SPM thresholds and consumption measure: WIC benefits imputation
	Age of member: children age less than 1, 1-4	DPINR	SPM thresholds and consumption measure: WIC benefits imputation
	Age of member: children age 5-17, 5-18	DPINR	SPM thresholds and consumption measure: school lunch imputation
	Age of own child: Under 6 (yes/no), 6 to 17 (yes/no), 18 and over (yes/no)	DCES	Publication tables – used in conjunction with relationship variable that identifies own child

Appendix B. Required Nonexpenditure Item Categories

3. Occupation of member	Administrator, manager, teacher & professionals; technicians, sales – business goods and services & Armed Forces; sales – retail & administrative support (incl. clerical); private household service; protective & other services¹⁴; machine operator, assembler, inspector, transportation operator, handler, helper, laborer; farming, forestry, fishing, & groundskeeping; mechanics, repairers, precision production, construction, & mining; retired; all other (unemployed, working without pay, ill, disabled, unable to work, taking care of home/family, going to school, doing something else)		Combined with Work status of member will satisfy OPLC occupation requirements and SPM thresholds and consumption measure for imputation of in-kind benefits
4. Work status of member	Salaried – private industry, salaried – government, self-employed, working without pay		Combined with Occupation of member will satisfy OPLC occupation requirements
	Occupation of member: Self-employed workers; the following set of occupations: sales-retail; administrative support (incl. clerical); protective service; other service; machine operator, assembler, inspector; handler, helper, laborer; transportation operator; forestry, fishing, groundskeeping; mechanics, repairers, precision production; construction, mining;	CPI	CPI-W – To qualify, 50% or more of total income must be from a specific set of occupations defined as clerical or wage earning. Not eligible for any CPI population if 50% or more of total income is from Armed Forces

¹⁴ Examples of “other service” occupations are: child care worker, cook, food counter/fountain worker, food preparer, hairstylist, janitor, maid/houseman, orderly, waiter/waitress.

Appendix B. Required Nonexpenditure Item Categories

	Armed Forces		
	Occupation of member: Self-employed workers; managers & professionals; technical sales & clerical workers; service workers; construction workers and mechanics; operators, fabricators and laborers; retired; all other	DCES	Publication tables
		DCES	Publication tables
	Type of employment: Private enterprise wage earner, government employee, self-employed in own enterprise, working without pay	DCES	Economic analysis
		DPINR	For SPM thresholds and consumption measure: imputations for in-kind benefits
5. CBSA status	Urban (yes/no)		Not collected in instrument
	Urban (yes/no)	CPI	CPI-U
6. MSA status	Central city (inside MSA), other inside MSA, outside MSA		Not collected in instrument; Combined with Urban/rural will satisfy OPLC type of area requirements
7. Urban/rural	Urban, rural		Not collected in instrument; Combined with MSA status will satisfy OPLC type of area requirements
	Type of area: Central city, other urban, rural	DCES	Publication tables and SPM thresholds and consumption measure
	Type of area: Urban (yes/no)	SMD	Calibration weighting – use in conjunction with region
8. Type of building	Single family/townhouse/ duplex, mobile home, other (apartment, college dormitory, etc.)		

Appendix B. Required Nonexpenditure Item Categories

	Single family/townhouse/duplex, other (apartment, mobile home, etc.)	CPI	Rental equivalence adjustments
	Mobile home (yes/no)	DCES	Special table for BEA – used in conjunction with farm variable
	Single family/townhouse or duplex/mobile home/apartment/college or university dormitory	DPINR	SPM thresholds and consumption measure: imputed rents
9. Appliances included in home (renters)	Stove/range/oven, refrigerator/freezer, dishwasher, washer, dryer		
	Stove/range/oven, refrigerator/freezer, dishwasher, washer, dryer	CPI DPINR	Rental equivalence adjustment of owner’s appliances – appliances in home when renter moved in SPM thresholds and consumption measure: for owners
10. Number of bedrooms	Continuous		
	0-1, 2-3, 4 or more	CPI DCES	Rental equivalence adjustments
	0, 1, 2-3, 4 or more	DPINR	SPM thresholds and consumption measure: in imputation of market rents
11. Farm	Based on \$1,000 in farm sales¹⁵ – Yes, no		
	Based on \$1,000 in farm sales – Yes, no	CPI	CPI-U
12. CU size	Continuous		

¹⁵ The Requirements Team agrees that this definition should be researched since it seems to be out of date.

Appendix B. Required Nonexpenditure Item Categories

	1 person, 2 persons, 3-4 persons, 5+ persons	SMD	Calibration weighting and nonresponse adjustment
	1 person, 2 persons, 3 persons, 4 persons, 5+ persons	DCES	Publication tables
	Continuous	DCES DPINR	Tax simulation program SPM thresholds and consumption measure
13. Housing tenure	Owner with mortgage, owner without mortgage, renter		
	Owner, renter	SMD	Calibration weighting and nonresponse adjustment
	Owner with mortgage, owner without mortgage, renter	DCES DPINR	Publication tables Economic research SPM thresholds and consumption measure
	Owner, renter	CPI	Weights for selected items are adjusted by tenure status
14. Race of member	Black, Asian, white and all other		Mandated by OMB
	Race of reference person: Black, Asian, white and all other	DCES	Publication tables
	Race of reference person: Black, nonblack	SMD	Calibration weighting and nonresponse adjustment
	Race of member: Black, nonblack	SMD	Calibration weighting
15. Region	New Census subregions		Not collected in instrument
	Northeast, Midwest, South, West	SMD DCES DPINR	Calibration weighting and nonresponse adjustment Publication tables SPM thresholds and consumption measure
16. Weeks worked	Continuous		Combined with Age of member and Work status of member will satisfy OPLC earner requirements
	Earner: 1) Member is 14 or over	DCES	Publication tables

Appendix B. Required Nonexpenditure Item Categories

	2) Number of weeks worked > 0 3) Worked for pay (yes/no)		
	0-52	DCES	Economic analysis
	Full-time worker: Worked 40 or more hours per week, worked less than 40 hours per week	DCES DPINR	Economic analysis SPM thresholds and consumption
17. Reason for not working	Retired, taking care of home/family, going to school, ill/disabled/unable to work, unable to find work, doing something else		
	Retired, taking care of home/family, going to school, ill/disabled/unable to work, unable to find work, doing something else	DCES DPINR	Economic analysis Identification of post-secondary students (who are their own CUs) and consumption measure
18. Sex of reference person	Male, female		
	Male, female	DCES DPINR	Publication tables SPM thresholds and consumption measure
19. Origin of reference person	Hispanic, non-Hispanic		Mandated by OMB
	Hispanic, non-Hispanic	DCES DPINR	Publication tables SPM thresholds and consumption measure
20. Education of member	Elementary, less than high school graduate, high school graduate, some college, no degree, associate degree, bachelor's degree, master's/professional/doctorate, never attended/other		

Appendix B. Required Nonexpenditure Item Categories

	Stub percent distribution (based on grade completed): Elementary (1-8), high school (9-12), college (13 and over), never attended/other (0)	DCES	Publication tables
	Column header definition: Less than high school graduate, high school graduate, high school graduate with some college, associate degree, bachelor's degree, master's/professional/doctoral degree	DCES	Publication tables
	Elementary, less than high school graduate, high school graduate, some college, no degree, associate degree, bachelor's degree, master's/professional/doctorate, never attended/other	DPINR	SPM thresholds and consumption measure
21. Population size	Based on Census designation of Urbanized Area: Outside urban area, less than 100,000, 100,000 to 249,999, 250,000 to 999,999, 1,000,000 to 2,499,999, 2,500,000 to 4,999,999, 5,000,000 & over		Not collected in instrument
	Outside urban area, less than 100,000, 100,000 to 249,999, 250,000 to 999,999, 1,000,000 to 2,499,999, 2,500,000 to 4,999,999, 5,000,000 & over	DCES	Publication tables
22. State	FIPS state code		Not collected in instrument
	FIPS state code	DCES	Tax simulation program
22. State-cont.	FIPS state code	DPINR	For SPM thresholds and consumption measure imputations
23. County	FIPS county code		Not collected in instrument
	FIPS county code	DPINR	SPM thresholds and consumption measure

Appendix B. Required Nonexpenditure Item Categories

24. Zip Code	5-digit zip code		Not collected in instrument
	5-digit zip code	DCES SMD DPINR	Nonresponse weighting adjustment – obtained via agreement with Census for info
25. Marital status of member	Married, not married		
	Married, not married	DCES DPINR	Publication tables Tax simulation program SPM thresholds and consumption measure
26. Public housing	Yes, no		
	Yes, no	DPINR	SPM thresholds and consumption measure
27. Rent subsidized	Yes, no		
	Yes, no	DPINR	SPM thresholds and consumption measure
28. Property type	Primary home, secondary home available for rent, secondary home unavailable for rent, timeshare, other		
	Primary home, secondary home available for rent, secondary home unavailable for rent, timeshare, other	CPI DPINR	Rental equivalence adjustment SPM thresholds and consumption measure
	Vacation/second home: Yes, no	DCES DPINR	Special table for BEA Consumption measure and SPM thresholds
	Timeshare: Yes, no	DCES DPINR	Special table for BEA Consumption measure and SPM thresholds

Appendix B. Required Nonexpenditure Item Categories

29. Percentage of property owned	Continuous		
	Continuous	CPI	Rental equivalence adjustment SPM thresholds and Consumption measure
30. Number of weeks per year owner can occupy timeshare	Continuous		
	Continuous	CPI	Rental equivalence adjustment SPM thresholds and Consumption measure
31. Percent of time property rented/ available for rent to outside members	Continuous		
	Continuous	CPI DPINR	Rental equivalence adjustment SPM thresholds and Consumption measure
32. (Paradata variables - TBD)	Dependent on survey method		
33. Wages and salaries – member level	Continuous		
	Wages and salaries – CU level: Continuous	DCES	CE publication tables Tax simulation model
	Wages and salaries – member level: Continuous	CPI	CPI-W
	Wages and salaries-member level	DPINR	Assignment of different types of health insurance
34. Self-employment income – member level	Continuous		

Appendix B. Required Nonexpenditure Item Categories

	Self-employment income – CU level: Continuous	DCES	CE publication tables Tax simulation model ¹⁶
35. Social Security/ Railroad Retirement income – member level	Continuous		
	Social Security/ Railroad Retirement income – CU level: Continuous	DCES	CE publication tables Tax simulation model ¹⁵
36. Supplemental Security income – member level	Supplemental Security income – CU level: Continuous	DCES DCES	CE publication tables Tax simulation model ¹⁵
37. Interest/dividend income – member level	Continuous		
	Interest/dividend income – CU level: Continuous	DCES	CE publication tables Tax simulation model ¹⁵
38. Net rental income or loss – CU level	Continuous		
	Net rental income or loss – tax unit: Continuous	DCES	CE publication tables Tax simulation model ¹⁵
39. Royalty income and income from estates and trusts– CU level	Continuous		
	Royalty income and income from estates and trusts – tax unit: Continuous	DCES	CE publication tables Tax simulation model ¹⁵
40. Retirement, survivor, or disability	Continuous		

¹⁶ The tax simulation model uses earned income which consists of wages and salaries, and self-employment income from nonfarm and farm businesses. Ideally income from each listed category would be attributable to specific members to allow assignment to each tax unit.

Appendix B. Required Nonexpenditure Item Categories

pension income – CU level			
	Retirement, survivor, or disability pension income – tax unit: Continuous	DCES	CE publication tables Tax simulation model ¹⁵
41. Welfare payments or cash assistance from state or local welfare office - CU level	Continuous		
	Welfare payments or cash assistance from state or local welfare office – tax unit: Continuous	DCES	CE publication tables Tax simulation model ¹⁵
42. Cash value of Food Stamps or Electronic Benefit Transfers (EBT) received – CU level	Continuous		
	Cash value of Food Stamps or Electronic Benefit Transfers (EBT) received – tax unit: Continuous	DCES DCES DPINR	CE publication tables Tax simulation model ¹⁵ SPM thresholds and consumption measure
43. Regular income from other sources, such as veterans’ (VA) payments, unemployment compensation, child support, or alimony – CU level	Continuous		
	Regular income from other sources, such as veterans’ (VA) payments, unemployment compensation, child support, or alimony – tax unit: Continuous	DCES	CE publication tables Tax simulation model ¹⁵

44. Lump-sum payments from insurance, estates, trusts, royalties, child support, alimony, prize or games of chance, or from persons outside the CU – CU level	Continuous		
	Lump-sum payments from insurance, estates, trusts, royalties, child support, alimony, prize or games of chance, or from persons outside the CU – tax unit: Continuous	DCES	CE publication tables Tax simulation model ¹⁵
	Alimony and child support payments	DPINR	SPM thresholds and consumption measure
45. Other money income, including from cash scholarships and fellowships, stipends not based on working and the care of foster children – CU level	Continuous		
	Other money income, including from cash scholarships and fellowships, stipends not based on working and the care of foster children – tax unit: Continuous	DCES	CE publication tables Tax simulation model ¹⁵
	Income from pre- and post-secondary education scholarships	DPINR	Consumption measure
46. Assets and liabilities - total	Continuous		
	Continuous	DCES	CE publication tables
47. Assets and liabilities – net change from previous year	Continuous		

	Continuous	DCES	CE publication tables
48. Inventory of household durables	Cooking range, stove or oven; refrigerator; home freezer; built-in dishwasher; portable dishwasher; clothes washer; clothes dryer		
	Household durables listed above to be collected in the Interview Survey questionnaire	DCES DPINR	Economic analyses SPM thresholds and consumption measure
49. Inventory of vehicles	All owned/leased vehicles		
	All owned/leased vehicles	DCES DPINR	CE publication tables Consumption measure

Appendix C. Expenditure Detail Required for Publications Tables

<u>Expenditure category</u>
Average annual expenditures
Food
Food at home
Cereals, grains, and bakery products
Beef, pork & other meats
Poultry, fish and seafood, and eggs
Dairy products
Fresh fruits and vegetables
Processed fruits and vegetables
Prepared foods, chips, nuts and other snacks, condiments & seasonings
Sugar and other sweets
Fats and oils
Nonalcoholic beverages
Food away from home
Food and nonalcoholic beverages at fast food
Food and nonalcoholic beverages at full service restaurants
Food and nonalcoholic beverages at vending machines and mobile vendors
Food and nonalcoholic beverages at employer
Alcoholic beverages
At home
Away from home
Housing
Shelter
Owned dwellings
Mortgage interest and charges
Property taxes
Homeowners insurance

Appendix C. Expenditure Detail Required for Publications Tables

<u>Expenditure category</u>
Maintenance and repair
Other owner's expenses
Rented dwellings
Rent
Other renter's expenses
Owned vacation homes and other properties
Lodging on out-of-town trips
Utilities, fuels, and public services
Natural gas
Electricity
Fuel oil and other fuels
Telephone services
Water and other public services
Household operations
Personal services
Child care
Adult care
Other household operations
Computer information services
Other household expenses
Housekeeping supplies
Household furnishings and equipment
Household textiles
Furniture, floor & window coverings
Appliances
Miscellaneous household equipment
Housewares & household decorative items
Information processing and communication equipment
Other household equipment
Apparel and services

Appendix C. Expenditure Detail Required for Publications Tables

<u>Expenditure category</u>
Men's apparel
Women's apparel
Apparel for children, 2 to 15
Footwear
Children under 2
Other apparel products and services
Transportation
Vehicle purchases (net outlay)
Cars and trucks, new
Cars and trucks, used
Motorcycles (alternatively incl. with rec. vehicles)
Gasoline and motor oil
Other vehicle expenses
Vehicle finance charges
Maintenance and repairs
Vehicle insurance
Vehicle rental, leases, licenses, and other charges
Leased and rented vehicles
Miscellaneous vehicle expenses
Public transportation
Airline fares
Other public transportation expenses
Healthcare
Health insurance
Medicare payments
Medicare prescription drug, Medicare supplements, long term care, and other health insurance
Medical services
Professional medical services
Hospital and related services

Appendix C. Expenditure Detail Required for Publications Tables

<u>Expenditure category</u>
Drugs
Medical supplies
Entertainment
Movie, theater, sporting event and other admissions
Audio and visual equipment and services
Pets, toys, hobbies, and playground equipment
Pets
Toys, games, hobbies, incl. photography
Other entertainment supplies, equipment, and services
Boats, RVs, and other recreational vehicles
Sports, recreation, and exercise equipment
Recreation services
Personal care products and services
Personal care products
Personal care services
Reading
Education
College tuition
Other school tuition, tutoring and test preparation
School books, supplies, and other expenses
Tobacco products and smoking supplies
Miscellaneous
Finance charges excluding mortgage and vehicle
Legal fees and financial expenses
Funeral expenses
Other miscellaneous expenses
Cash contributions
Alimony, child support and support for college students
Cash contributions to churches, charities, educational and other organizations

Appendix C. Expenditure Detail Required for Publications Tables

<u>Expenditure category</u>
Other cash and non-cash gifts
Personal insurance and pensions
Life and other personal insurance
Pensions and Social Security
Deductions for Social Security
Payroll deductions to retirement plans
Non-payroll deposit to retirement plans
Addenda
Gifts of goods and services
Estimated monthly rental value of owned home
Estimated monthly rental value of vacation home
Sale/reimbursement of cars and trucks
Sale/reimbursement of other vehicles
Personal property taxes

Appendix D. Summary of OPLC requirements

Category	Requirement
1. Expenditures	A minimum set of 126 expenditure item categories has been assembled that will satisfy the current needs of CE, CPI, and PINR. Any new survey design should collect data that can produce estimates for these categories.
2. Non-expenditure items	A minimum set of 49 demographic and socioeconomic variables that function as classification variables for publication tables, qualifying variables for eligibility in CPI indexes, explanatory variables common in economic analysis, and processing variables for weighting and nonresponse adjustment. They include geographic detail, income, assets and liabilities, and inventories of vehicles and household durables.
3. Population	Sufficient coverage data for the national, civilian, non-institutional population including data for urban and rural areas is required. No change to current requirements
4. Collection unit	An individual or group of persons that behave as an organized unit in making expenditure decisions. It is embodied by the current survey entity, “consumer unit” or “CU”.
5. Sample size	The sample size should be sufficient: 1) to produce reliable monthly expenditure estimates as needed for the C-CPI-U, 2) to allow the CPI to replace its cost weights every year for national and subnational indexes, 3) to allow the CE to produce reliable annual estimates for the required level of expenditure detail both nationally and for calendar year tables currently produced, and 4) to allow the CE to produce microdata that meets Census’s confidentiality requirements.
6. Time period and periodicity	The production of annual and monthly data is necessary to satisfy CE and CPI needs.
7. Panel component	The ability to measure the change in spending over a 12-month period for a CU is required. If monthly data are not collected, the 12-month change must be based on estimates over a minimum 3-month reference period that are one year apart. Supporting data (demographics, income, assets/liabilities) must cover same 12-month period as expenditures. Income and assets/liabilities should be collected at endpoints of survey (12-month period for spending and supporting data need not match calendar year). Information on CU members should be updated at each interview. For SPM thresholds and consumption, need data for every quarter (or monthly reference period)

Category	Requirement
8. Full profile of spending in microdata	Capability of producing microdata files where a full profile of expenditures is available for each sampled unit for a full 12 months

Appendix E. Enhancements for the CE Survey

This report describes the minimum set of requirements that the CE survey should incorporate to meet the needs of the DCES, CPI and DPINR divisions (Appendix A and B). Were resources available, there are several additional features that could be added to the survey that would enhance its utility in meeting the mission of the survey. The following is a brief description of some of these potential enhancements.

Additional variables for production of the Supplemental Poverty Measure (SPM) thresholds and consumption measure:

There are a number of variables in the current CE design that are used in the production of the SPM thresholds and consumption measure, some of which are carried over into the requirements for the redesigned CE survey. However, there are other variables not currently collected that would enhance the production of these. They have not been made part of the requirements, due to the uncertainty of future funding for the SPM and consumption measure.

Following is an exhaustive list of additional variables:

- Total value of SNAP benefits,
- SNAP benefits used to purchase food (yes/no)
- Value of SNAP benefits actually used; number of children in school lunch/ breakfast/ milk program
- School lunch/breakfast/milk purchased at full price, reduced price or free
- How often a “hot” or provided school lunch/breakfast/milk is eaten
- Who receives WIC benefits, how often are benefits received
- Value of the regular WIC benefit, received via electronic benefit transfer (EBT)
- If infant formula used to feed baby/babies
- For CU’s receiving rent subsidies or living in housing for which CUs are not paying the full market value of rents:
 - public housing,
 - voucher housing,
 - rent-controlled units, and
 - those living rent-free

- Rent for similar rental units for which market rent is paid
- Data on CUs receiving owner subsidies, for example, the CU owner purchased the housing unit at lower price due to participation in government housing purchase program (yes/no), price paid for subsidized owned unit, price of non-subsidized owned unit
- Information on participation in Energy Assistance Program (EAP) (yes/no)
- How often CU participated in EAP
- Amount of subsidy and if CU's energy bill is less or if the CU received a cash transfer or in-kind energy assistance (e.g., energy efficient windows or weather stripping on windows)
- Information on participation in any other assistance program (particularly, food, clothing, shelter, energy utilities, telephone, internet) (yes/no), how often did CU participate; value of assistance; non-work-related travel expenses; value of home-produced food, clothing, shelter, energy utilities, telephone, and internet. This assistance could be public (e.g., local, state, or federal government) or private (e.g., community food bank, employer assistance).

Ideally, expenditures would be collected for each quarter. Longitudinal weights would also be needed to correct for attrition for SPM thresholds, consumption measurement, and for the production of the PCE distributional accounts using CE to assign PCE to CUs

Appendix F. Outlets data collection

CE data is also the primary source of the CPI establishment sampling frame. CPI market basket items sourced from CE are grouped into Point-of-Purchase Category Groups (POPS Groups). Every calendar quarter a PSU is assigned a new POPS Group, taking 4 years to rotate through the CPI market basket. With few exceptions, this means that CE respondents are only asked to report outlets when they report having made an expenditure for an item in the POPS Group assigned to their PSU. To reduce the additional burden placed on CE Interview Survey respondents due to adding outlet questions, only the outlet city and outlet state are collected from respondents who report making an in-person purchase. For each outlet name and location, the CPI program matches the name and location to those establishments in the Quarterly Census of Employment and Wages (QCEW) data and selects the establishment that best represents the reported outlet.

The former Telephone Point-of-Purchase Survey (TPOPS) and the CE Interview Survey ask respondents to recall expenses over different time periods. The recall period over which a respondent is asked to report expenditures in CE is three months and in the former TPOPS it varied from one week to five years, depending on how frequently items were purchased. The variable recall in TPOPS was intended to optimize the number of outlets reported for purchased items, while balancing CPI's needs and respondent burden. To resolve differences in the total number of outlets collected (outlet yield) due to differences in recall periods for item categories, a new section of questions was added to the CE Interview Survey. With some exceptions, item categories collected in the CE Interview Survey have outlet questions in the extended recall questionnaire section of the CE Interview Survey. Item categories were assigned a recall period in the extended recall section that was equivalent to what was used in TPOPS, unless the recall period in TPOPS was longer than the standard three-month recall period for CE. Those items were assigned a six-month recall period in the extended recall section.