
OPLC REQUIREMENTS FOR THE CONSUMER EXPENDITURE SURVEY

VERSION: 2.0

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Version History

Date	Version	Change description	Author
04/19/2013	1.0	Original report approved by GEM Steering and management	Bill Passero, Jay Ryan, Rob Cage, Sara Stanley, Thesia Garner
06/26/2013	2.0	Minor wording changes to title and body	Bill Passero

I. Background

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

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 CPI-U and CPI-W price indexes. These expenditure weights are currently updated biennially. 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 C&S Pricing Survey, and to make certain quote-level weight adjustments to the sample of unique items priced in the survey (i.e., the percent-of-POPs adjustment).

For the CE itself, the objectives are threefold: 1) to disseminate data on consumer expenditures and demographic/socioeconomic characteristics in a number of 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 (CE Conceptual Framework, 2009). As an internal user of CE data, the PINR uses CE data in a number of different research projects. In cooperation with the Bureau of the Census, PINR is at the forefront of using CE data to produce the Supplemental Poverty Measure, an alternative to the historical income measures of poverty.

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.

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.

While these requirements satisfy the basic mission of the CE, each division desires 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.

Section II presents the set of expenditure categories that the new CE survey must provide. Section III details the non-expenditure data items the survey must also collect. These consist of demographic and socioeconomic characteristics variables. In Section

IV, there are recommendations concerning qualities or features of the data assigned to these categories, such as population coverage and periodicity.

II. Expenditure Categories

A list of broadly-defined expenditure item categories has been developed that represent the minimum set of expenditures the redesigned CE survey must produce. These categories satisfy CPI's expenditure class (EC) level of detail, but do not meet the level of elementary item stratum level (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 the CE Division. In and of themselves, these categories are not required to be individually represented in these data products. They also provide the detail necessary to support the research agenda of the Price and Index Number Research Division, particularly for the development of the Supplemental Poverty Measure.

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 consuming unit. To obtain the actual financial obligation or out-of-pocket expense, third-party reimbursements paid at the time of acquisition or at a later date should be accounted for in determining the amount of expenditure. The goods and services acquired are intended to increase the current economic well-being (or consumption) of the consuming unit. Goods and services acquired for persons outside the consuming 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.

The team used two base source documents as inputs to determine the expenditure categories needed to meet the requirements of each program. The 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. An earlier version of this spreadsheet was part of the Casey paper from June 17, 2010 on CPI requirements for the CE. The CE requirements were outlined in Appendix C. Level of Expenditure Category Detail Required by CE of the data requirements overview document produced on May 24, 2011. The Appendix A presents the 126 expenditure categories decided upon by the team. Beside each category are listed the current expenditure items, designated by their UCC number, that comprise the item category.

III. 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 satisfy the needs of the CE, CPI and PINR Divisions. These data items serve such functions as classification variables for the publication tables produced by the CE Division, as qualifying variables for eligibility of expenditures in producing market baskets for the CPI-U, CPI-W, and CPI-E populations, and as explanatory variables in economic studies within PINR and the outside research community.

Appendix B presents the nonexpenditure variables that must be collected in the redesigned CE survey. 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 CE, CPI, and PINR Divisions.

In addition, to provide insight into what variables were selected and how the breakdown categories were chosen, the team felt it would be useful to display under each variable, 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.

IV. Other required data features

Population. Coverage for the national, civilian, non-institutional population 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 redesigned 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. More particularly this means either: 1) a single financially-independent person living alone, sharing a household with others, or rooming in a private home, lodging house, or hotel, who does not share major expenditures with others, or 2) a group of persons, usually living together, who pool their income and make joint decisions regarding their major items of expense. 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 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.

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 independent; or (3) two or more persons living together who pool their income to make joint expenditure decisions.

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 redesigned 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 two years for its national and subnational CPI-U and CPI-W indexes. This is considered a minimum requirement, since it would be optimal for the sample to be large enough to permit replacement of cost weights on an annual basis. However, it is highly unlikely that resources will be available to allow such an expansion.

For the CE, the sample size must be large enough to provide a sufficient number of usable interviews to produce reliable annual estimates at the level of expenditure detail shown in Appendix C, both nationally and for the standard one-way tables currently produced. According to general guidelines from SMD, it is desirable that the CE's highest-level expenditure estimates—the mean annual total expenditures per CU at the national level—have a coefficient of variation of one percent or less. The CE's current publication criterion requires that expenditure estimates shown in the standard publication tables must have a coefficient of variation below 25 percent. The sample size must also be sufficient to guarantee that the public use microdata meet the U.S. Census Disclosure Review Board's confidentiality requirements.

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 item-area in each calendar month.

The CE data are currently published as annual tables containing the latest four quarters of information on a rolling basis every six months, with a potential shift to publication every three months. Therefore, the requirement for CE is to be able to identify the

quarter in which an expenditure was made and to publish data within six months of the end of each data collection quarter. In summary, the redesigned CE must be able to produce annual, quarterly, 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 2 - 5. 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 2013 would provide at a minimum expenditure and income data for October – December 2012. The CU would be interviewed again in January 2014 and provide at a minimum expenditure and income data for October – December 2013. 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 CU's.
- 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 one time 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 redesigned CE survey must incorporate the capability of producing microdata files where a full profile of expenditures is available for each sampled unit for either design of the panel component. To the extent that the future redesign employs a variety of modes of primary data collection from sample units, (for example, by using a web diary, telephone interview, or scanner data), 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.

Appendix A. Expenditure Item Categories Reconciling OPLC Data Requirements

<u>Item Category</u>	<u>Component UCC'S</u>
1. Men's apparel	360110 Mens Suits 360120 Mens Sportcoats/Tailored Jackets 360210 Mens Coats And Jackets 360311 Mens Underwear 360312 Mens Hosiery 360320 Mens Nightwear/Loungewear 360330 Mens Accessories 360350 Mens Swimsuits/Warm-Up/Ski Suits 360340 Mens Sweaters And Vests 360410 Mens Shirts 360513 Mens Pants And Shorts 360901 Mens Uniforms 360902 Mens Costumes
2. Women's apparel	380110 Womens Coats And Jackets 380210 Womens Dresses 380311 Womens Sportcoats, Tail. Jkts 380312 Womens Vests And Sweaters 380313 Womens Shirts, Tops,Blouses 380320 Womens Skirts 380333 Womens Pants And Shorts 380510 Womens Suits 380410 Womens Sleepwear 380420 Womens Undergarments 380430 Womens Hosiery 380901 Womens Accessories 380340 Womens Swimsuits/Warm-Up/Ski Suit 380902 Womens Uniforms 380903 Womens Costumes
3. Children's apparel	370110 Boys Coats And Jackets 370120 Boys Sweaters 370130 Boys Shirts 370211 Boys Underwear 370212 Boys Nightwear 370213 Boys Hosiery 370220 Boys Accessories 370311 Boys Suits, Sportcoats,Vests 370314 Boys Pants And Shorts

Appendix A. Expenditure Item Categories Reconciling OPLC Data Requirements

3. Children's apparel – cont.	370904 Boys Swimsuits/Warm-Up/Ski Suits 370902 Boys Costumes 370903 Boys Uniforms 390110 Girls Coats And Jackets 390120 Girls Dresses, Suits 390210 Girls Shirts/Blouses/Sweaters 390223 Girls Skirts, Pants, And Shorts 390230 Girls Swimsuits/Warm-Up/Ski Suits 390310 Girls Underwear And Sleepwear 390321 Girls Hosiery 390322 Girls Accessories 390901 Girls Uniforms 390902 Girls Costumes
4. Footwear	400110 Mens Footwear 400210 Boys Footwear 400220 Girls Footwear 400310 Womens Footwear
5. Infants' and toddlers' apparel	410110 Infant Coat/Jacket/Snowsuit 410120 Infant Dresses/Outerwear 410130 Infant Undergarments 410140 Infant Nightwear/Loungewear 410901 Infants Accessories
6. Jewelry and watches	430110 Watches 430120 Jewelry
7. Gifts of clothing¹	
8. Educational books and supplies	660000 School Suppl., Etc. - Unspec. 660110 School Bk/Supl/Equip For College 660210 School Bk/Supl/Equip For Elem/Hs 660310 Encyl. Oth Sets Of Refrnce Bks 660410 School Bk/Supl/Equip For Voc/Tech 660901 School Bk/Supplies Day Care,Nurs 660902 School Bk/Supplies Other Schools
9. College tuition	670110 College Tuition

¹ 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.

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10. Other school tuition, tutoring, and test preparation	670210 Elem./H.S. Tuition 670410 Voc/ Tech School Tuition 670901 Other School Tuition 670902 Oth Sch Expenses Include Rentals 670903 Test Prep/Tutoring Services
11. Child care	340211 Babysit/Child Care Own Home 340212 Babysit/Child Care Other Home 670310 Day Care/Nurs/Prsch Exp Incl Tuit
12. Postage and delivery services	340110 Postage 340120 Delivery Services
13. Telephone services	270101 Residential Telephones/Pay Phones 270102 Cellular Phone Service 270104 Phone Cards 270105 Voice Over Ip Service
14. Internet services	690114 Computer Information Services 690116 Internet Services Away From Home
15. Information and information processing other than internet services²	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 690115 Personal Digital Assistants 690117 Portable Memory 690118 Digital Book Readers 690119 Computer Software 690120 Computer Accessories 690210 Telephone Answering Devices 690230 Typwrits/Oth Off Mach Non-Bus Use 690310 Installation For Computers
16. Cereals and cereal products	010110 Flour 010120 Prepared Flour Mixes 010210 Cereal 010310 Rice 010320 Pasta Cornmeal Oth Cereal Prods
17. Bakery products	020110 White Bread 020210 Bread Other Than White

² UCC 690112 COMPTR SFTWR/CMPTR ACC N-BUS USE deleted in 2011

Appendix A. Expenditure Item Categories Reconciling OPLC Data Requirements

17. Bakery products – cont.	020310 Fresh Biscuits, Rolls, Muffins 020410 Cakes And Cupcakes 020510 Cookies 020610 Crackers 020620 Bread and Cracker Products 020710 Doughnuts, Sweetrolls, Coffecake 020810 Frozen & Refrig. Bakery Prod. 020820 Fresh Pies, Tarts, Turnovers
18. Beef and veal	030110 Ground Beef Exclude Canned 030210 Chuck Roast 030310 Round Roast 030410 Other Roast 030510 Round Steak 030610 Sirloin Steak 030710 Other Steak 030810 Other Beef (Exclude Canned)
19. Pork	040110 Bacon 040210 Pork Chops 040310 Ham (Exclude Canned) 040410 Other Pork 040510 Pork Sausage 040610 Canned Ham
20. Other meats	050110 Frankfurters 050210 Bologna, Liverwurst, Salami 050310 Other Lunchmeat 050410 Lamb And Organ Meats 050900 Mutton, Goat, Game
21. Poultry	060110 Fresh & Frozen Whole Chicken 060210 Fresh Or Frozen Chicken Parts 060310 Other Poultry
22. Fish and seafood	070110 Canned Fish And Seafood 070230 Fresh Fish & Shellfish 070240 Frozen Fish & Shellfish
23. Eggs	080110 Eggs
24. Dairy and related products	090110 Fresh Milk All Types 090210 Cream 100210 Cheese 100410 Ice Cream And Related Products

Appendix A. Expenditure Item Categories Reconciling OPLC Data Requirements

24. Dairy and related products – cont.	100510 Other Dairy Products 160310 Non-Dairy Cream Substitutes
25. Fresh fruits	110110 Apples 110210 Bananas 110310 Oranges 110410 Other Fresh Fruits 110510 Citrus Fruits Excl. Oranges
26. Fresh vegetables	120110 Potatoes 120210 Lettuce 120310 Tomatoes 120410 Other Fresh Vegetables
27. Processed fruits and vegetables	130121 Frozen Fruits 130310 Canned Fruits 130320 Dried Fruits 140110 Frozen Vegetables 140210 Canned Beans 140220 Canned Corn 140230 Canned Vegetables Misc 140310 Other Processed Vegetables 140320 Other Peas 140330 Other Beans 140340 Other Vegetables Misc
28. Juices and nonalcoholic drinks	130110 Frozen Orange Juice 130122 Frozen Fruit Juices 130211 Fresh Fruit Juice 130212 Canned/Bottle Fruit Juice 140410 Frozen Vegetable Juices 140420 Fresh & Canned Vegetable Juices 170110 Cola Drinks 170210 Other Carbonated Drinks 170510 Noncarb Frut Flav/Lemade Nonfroz 170532 Bottled Water 170533 Sports Drinks
29. Beverage materials including coffee	170310 Roasted Coffee 170410 Instant/Freeze Dried Coffee 170520 Tea 170531 Other Noncarb. Beverages/Ice
30. Sugar and sweets	150110 Candy And Chewing Gum 150211 Sugar

Appendix A. Expenditure Item Categories Reconciling OPLC Data Requirements

30. Sugar and sweets – cont.	150212 Artificial Sweeteners 150310 Other Sweets
31. Fats and oils	100110 Butter 160110 Margarine 160211 Fats & Oils 160212 Salad Dressings 160320 Peanut Butter
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 180720 Vitamin Supplements
33. Lunch away from home	190111 Lunch At Fast Food 190112 Lunch At Full Service 190113 Lunch At Vending Machine 190114 Lunch At Employer
34. Dinner away from home	190211 Dinner At Fast Food 190212 Dinner At Full Service 190213 Dinner At Vending Machine 190214 Dinner At Employer
35. Breakfast, brunch, snacks and nonalcoholic beverages away from home	190311 Snacks At Fast Food 190312 Snacks At Full Service 190313 Snacks At Vend Machine 190314 Snacks At Employer 190321 Breakfast At Fast Food 190322 Breakfast At Full Service 190323 Breakfast At Vending Machine 190324 Breakfast At Employer

Appendix A. Expenditure Item Categories Reconciling OPLC Data Requirements

36. Gifts of food³	
37. School meals	190901 Food Or Board While At School 790430 School Meals
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	200111 Beer And Alc At Home 200112 Non Alcoholic Beer 200210 Whiskey At Home 200310 Wine At Home 200410 Other Alcoholic Bev. At Home
43. Beer, wine and other alcoholic beverages away from home	200511 Beer At Fast Food 200512 Beer At Full Service 200513 Beer At Vending Machine 200514 Beer At Employer 200515 Beer At Board 200516 Beer At Catered Affairs 200521 Wine At Fast Food 200522 Wine At Full Service 200523 Wine At Vending Machine 200524 Wine At Employer 200525 Wine At Board 200526 Wine At Catered Affairs 200531 Alc. Bev Exc Beer/Wine Fast Fd 200532 Alc. Bev Exc B/W Full Serv 200533 Alc. Bev B/W Vend Mach 200534 Alc Bev Exc B/W At Emp 200535 Alc Bev Exc B/W At Board

³ 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 Reconciling OPLC Data Requirements

43. Beer, wine and other alcoholic beverages away from home – cont.	200536 Oth Alc. Bev Away From Home 200900 Alc. Bev. Purchased On Trips
44. Tobacco and smoking products	630110 Cigarettes 630210 Other Tobacco Products 630220 Smoking Accessories
45. Personal care products	640110 Hair Care Products 640120 Non-Elec Articles For The Hair 640130 Wigs And Hairpieces 640210 Oral Hygiene Products,Articles 640220 Shaving Needs 640310 Cosmetics, Perfume, Bath Prep 640410 Deod,Fem Hyg, Misc. Pers. Care 640420 Electric Personal Care Appl. 640430 Adult Diapers
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
50. Miscellaneous personal services⁴	680903 Misc. Pers. Services

⁴ The CE Division will research remapping the Diary item codes that constitute "Misc. pers. services" when source selection for publication tables is reviewed.

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51. Miscellaneous personal goods⁵	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 insurance*⁶	220121 Homeowners Insurance Ownd 220122 Homeowners Insurance Ownv 350110 Renters Insurance
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

⁵ The Requirements Team notes that this category is a collection of disparate items that should be examined for reassignment.

⁶ 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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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 *	230121 Hrd Surface Floor Labor/Mat Rntr 230122 Hrd Surface Floor Labor/Mat Ownd 230123 Hrd Surface Floor Labor/Mat Ownv 230133 W/W Carpet Repl Ownd 230134 W/W Carpet Orig Rntr 320163 W/W Carpet Repl Rntr 320621 Flr Rep/Rpl Mat-Rntr/Udr Cn/Sc Hm 320622 Floor Repair/Repl Materials Ownd 320623 Floor Repair/Repl Materials Ownv
63. Household textiles	280110 Bathroom Linens 280120 Bedroom Linens 280130 Kitchen And Dining Room Linens 280210 Curtains And Drapes 280220 Slipcovers/Decorative Pillows 280900 Other Linens 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

Appendix A. Expenditure Item Categories Reconciling OPLC Data Requirements

64. Maintenance and repair supplies* – cont.	240113 Paint/Wallpaper And Supp Ownv 240121 Equip For Paint/Wpaper Rntr 240122 Equip For Paint/Wpaper Ownv 240123 Equip For Paint/Wpaper Ownv 240211 Mat For Panl/Roof/Siding,Etc Rntr 240212 Mat For Panel/Siding, Etc Ownv 240213 Mat For Roof & Gutters, Ownv 240214 Mat For Panl/Roof/Siding, Etc, Ownv 240221 Mat For Patio,Masonry,Etc Rntr 240222 Mat For Patio,Masonry,Etc Ownv 240223 Mat For Patio,Masonry,Etc Ownv 240311 Plumbing Supp/Equip Rntr 240312 Plumbing Supp/Equip Ownv 240313 Plumbing Supp/Equip Ownv 240321 Elec Supp, Heat/Cool Equip Rntr 240322 Elec Supp,Heat/Cool Equip Ownv 240323 Elec Supp,Heat/Cool Equip Ownv 320611 Constrct Mat-Rntr/Udr Cn/Sec Hm 320612 Construction Mat Ownv 320613 Construction Mat Ownv 320631 Lndscping Mat-Rntr/Udr Cn/Sc Hm 320632 Landscaping Materials Ownv 320633 Landscaping Materials Ownv
65. Unpriced maintenance and repair services*	230112 Painting/Papering Labor/Mat Ownv 230113 Plmb/Wtr Heat Labor/Mat Ownv 230114 Heat/Ac/Elec Labor/Mat Ownv 230115 Roofing/Gutters Labor/Mat Ownv 230117 Repl Dishwash/Disp/Hood Rntr 230118 Repl Dishwash/Disp/Hood Ownv 230141 Repair-Displ/Dwshr/Rang Hd Rntr 230142 Repair-Displ/Dwshr/Rang Hd Ownv 230150 Rep/Maint Labor/Mat Rntr 230151 Oth Rep/Maint Labor/Mat Ownv 230152 Oth Rep/Maint Labor/Mat Ownv 230901 Property Management Ownv 230902 Prop Management Ownv 340620 Repair Of Household Appliances 340630 Reupholstery Of Furniture 340913 Repair Of Misc Hshld Eq/Fshgs

Appendix A. Expenditure Item Categories Reconciling OPLC Data Requirements

65. Unpriced maintenance and repair services* - cont.	990900 Rent/Inst Dwash/Hoods/Disposal
66. Furniture⁷	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. Appliances*⁸	300111 Purch/Inst Refrig/Freezer Rntr 300112 Purch/Inst Refrig/Freezer Ownd 300211 Purch/Inst Clothes Washer Rntr 300212 Purch/Inst Clothes Washer Ownd 300221 Purch/Inst Clothes Dryer Rntr 300222 Purch/Inst Clothes Dryer 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 690241 Smoke Alarm Pur/Rent Rntr

⁷ The CPI and CE Divisions need to determine whether purchases and rentals of furniture should be combined or maintained as separate categories.

⁸ The CPI and CE Divisions need to determine whether purchases and rentals of appliances should be combined or maintained as separate categories.

Appendix A. Expenditure Item Categories Reconciling OPLC Data Requirements

67. Appliances*⁸ – cont.	690242 Smoke Alarm Pur/Rent Ownd 690243 Smoke Alarm Pur/Rent Ownv 690244 Oth Hh Appl Rntr 690245 Oth Hh Appl Ownd
68. Other household equipment and furnishings	320220 Lamps And Lighting Fixtures 320233 Clocks And Other Hh Decor Items 320310 Plastic Dinnerware 320320 China And Other Dinnerware 320330 Flatware 320340 Glassware 320350 Silver Serving Pieces 320360 Other 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. 330110 Soaps And Detergents 330210 Other Laundry /Cleaning Prods. 330310 Paper Towels/Napkins/Toilet Ti 330510 Misc Household Products
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 Mngmt/Spec Ser/Security Ownd 340912 Mngmt/Spec Ser/Security Ownv 340914 Serv For Termt/Pst Cntrl [*]

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71. Household operations – cont.	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
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,3I
75. Commercial Health insurance	580111 Trd Fee For Srv Hlth P (No Bcbs) 580112 Trd Fee For Srv Hlth P (Bcbs) 580113 Pref Provider Hlth Pln (No Bcbs) 580114 Pref Provider Hlth Pln (Bcbs) 580311 Hlth Maint. Org (No Bcbs) 580312 Hlth Maint. Org (Bcbs) 580903 Coml Medicare Supplemnt (No Bcbs) 580904 Coml Medicare Supplement (Bcbs) 580905 Other Health Insurance (No Bcbs) 580906 Other Health Insurance (Bcbs)
76. Medicare payments	580901 Medicare Payments
77. Long term care insurance	580400 Long Term Care Insurance
78. Medicare prescription drug premiums	580907 Medicare Pres. Drug Premiums
79. Medicinal drugs	540000 Prescription Drugs 550210 Over-The-Counter Drugs 550410 Nonprescrip Vitamins 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

Appendix A. Expenditure Item Categories Reconciling OPLC Data Requirements

80. Medical equipment and supplies - cont.	570901 Rental Of Medical/Surgical Equip 570902 Repair Of Medical Equipment 570903 Rental Of Supportive/Conval Equip
81. Video and audio⁹	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 310311 Radios 310312 Phonographs 310313 Tape Recorders And Players 310314 Digital Audio Players 310315 Digital Media Players & Recorders 310320 Components/Component 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 480214 Vehicle Audio Equipment 480215 Vehicle Video Equipment 620912 Rntl Video Cass/Tapes/Discs/Films 620917 Rental Video Hardwr/Accessor 620918 Rental Video Software 620930 Online Entertainment and Games ¹⁰

⁹ UCC 310230 VIDEO/COMP GAME HARDWARE/SOFTWARE and UCC 620916 RENTAL VIDEO/COMP GAME HARD/SOFT deleted in 2011

¹⁰ 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 Reconciling OPLC Data Requirements

81. Video and audio⁹	690320 Installation For Tvs 690330 Installation Satellite Tv Equip 690340 Installation Of Sound Systems 690350 Install Of Other Video/Sound Syst
82. Pets, pet products and services	610310 Pet Food 610320 Pet-Purchase/Supplies/Medicine 620410 Pet Services 620420 Vet Services
83. Sporting goods	600210 General Sport/Exercise Equip 600310 Bicycles 600410 Camping Equipment 600420 Hunting, Fishing Equipment 600430 Winter Sport Equipment 600901 Water Sport Equipment 600902 Other Sport Equipment 610120 Playground Equipment 620908 Rent/Repair Of Misc Sports Equ
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 860800 Amt Plane Sold/Reim
86. Photography	610210 Film 610220 Other Photographic Supplies

Appendix A. Expenditure Item Categories Reconciling OPLC Data Requirements

86. Photography – cont.	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 620904 Rent/Rep Music Instruments
88. Sewing	280230 Sewing Materials 320512 Sewing Machines 420110 Material For Making Clothes 420120 Sewing Notions, Patterns
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 Tri 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	620211 Movie, Theater, Opera, Ballet 620212 Movie, Oth Adm. Out-Of-Town 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 590310 Magazine/Newspaper Subscription 590410 Magazine/Newspaper Single Copy 590900 Newsletters
92. New cars and trucks	450110 New Cars 450210 New Trucks

Appendix A. Expenditure Item Categories Reconciling OPLC Data Requirements

93. Used cars and trucks	460110 Used Cars 460901 Used Trucks
94. Motorcycles	450220 New Motorcycles 460902 Used Motorcycles
95. Leased and rented vehicles	450310 Car Lease Payments 450313 Cash Downpayment/Car Lease 450314 Termination Fee/Car Lease 450410 Truck Lease Payments 450413 Cash Downpayment/Truck Lease 450414 Termination Fee/Truck Lease 520511 Auto Rental 520512 Auto Rental, Out-Of-Town Trips 520521 Truck Rental 520522 Truck Rental, Out-Of-Town Trip 520902 Motorcycle Rental 520903 Aircraft Rental 520905 Motorcycle Rental Out-Of-Town 520906 Aircraft Rental/Out-Of-Town Tr
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	450312 Trade-In Allowance/Car Lease 450412 Trade-In Allowance/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

Appendix A. Expenditure Item Categories Reconciling OPLC Data Requirements

102. Motor vehicle parts and equipment¹¹	470211 Motor Oil 470212 Motor Oil On Out Of Town Trips 470220 Coolant/Additives/Brk/Trns Fld 480110 Tires Purchased/Replaced/Install 480212 Vehicle Products & Services 480213 Parts/Equip/Accessories
103. Motor vehicle maintenance and repair¹¹	490000 Misc Auto Repair/Serviceing 490110 Body Work And Painting 490211 Clutch, Transmission Repair 490212 Drive Shaft And Rear-End Repair 490221 Brake Work 490231 Repair To Steering Or Front End 490232 Repair To Engine Cooling System 490311 Motor Tune-Up 490312 Lube, Oil Change And Oil Filters 490313 Frnt End Align, Wheel Bal/Rotat 490314 Shock Absorber Replacement 490316 Gas Tank Repair/Replacement 490318 Tire Repair And Oth Repair Work 490319 Vehicle Air Condition Repair 490411 Exhaust System Repair 490412 Electrical System Repair 490413 Motor Repair/Replacement 490501 Vehicle Accessories Incl. Labor 490900 Auto Repair Service Policy
104. Motor vehicle insurance	500110 Vehicle Insurance
105. Motor vehicle fees	520111 Vehicle Registration State 520112 Vehicle Registration Local 520310 Drivers License 520410 Vehicle Inspection 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

¹¹ The Requirements Team recommends that "Motor vehicle parts and equipment" and "Motor vehicle maintenance and repair" be consolidated into one category.

Appendix A. Expenditure Item Categories Reconciling OPLC Data Requirements

105. Motor vehicle fees – cont.	520550 Towing Charges 520560 Global Positioning Services 620113 Automobile Service Clubs
106. Personal property taxes	950022 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 530903 Car/Van Pool & Non-Motor Trans
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 (Quarterly)
114. All other gifts¹²	

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

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
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. Nonexpenditure Item Categories Reconciling OPLC Data Requirements

<u>Variable</u>	<u>Categories</u>	<u>Division</u>	<u>Rationale</u>
1. Relationship to reference person	Spouse, child, other related person, unmarried partner/member		
	Spouse	CPI	CPI elderly index
	Spouse, own child, other	CE	Publication tables
	Spouse, child, other related person, unmarried partner/member	CE	Tax simulation model
2. Age of member	Continuous		
	Age of reference person: 62 or over (yes/no)	CPI	CPI elderly index
	Age of reference person: Continuous	CE	Publication tables
	Age of spouse: 62 or over (yes/no)	CPI	CPI elderly index
	Age of spouse: Continuous	PINR	Economic analysis
	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)	CE	Publication tables
	Age of member: Under 24 (yes/no); under 18 (yes/no)	CE	Tax simulation program
	Age of member: Under 1 (yes/no); under 5 (yes/no)	PINR	Supplemental poverty measure – eligibility for WIC
	Age of own child: Under 6 (yes/no), 6 to 17 (yes/no), 18 and over (yes/no)	CE	Publication tables – used in conjunction with relationship variable that identifies own child
3. Occupation of member	Administrator, manager, teacher & professionals; technicians, sales – business goods and services & Armed Forces; sales – retail & administrative support (incl. clerical); private household		Combined with Work status of member will satisfy OPLC occupation requirements

Appendix B. Nonexpenditure Item Categories Reconciling OPLC Data Requirements

3. Occupation of member – cont.	service; protective & other services ¹⁴ ; 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)		
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; Armed Forces	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
	Occupation of member: Self-employed workers; managers & professionals; technical sales & clerical workers; service workers; construction workers and mechanics; operators, fabricators	CE	Publication tables

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. Nonexpenditure Item Categories Reconciling OPLC Data Requirements

4. Work status of member – cont.	and laborers ;retired; all other	CE	Publication tables
	Type of employment: Private enterprise wage earner, government employee, self-employed in own enterprise, working without pay	CE	Economic analysis
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	CE	Publication tables
	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.)		
	Single family/townhouse/duplex, other (apartment, mobile home, etc.)	CPI	Rental equivalence adjustments
	Mobile home (yes/no)	CE	Special table for BEA – used in conjunction with farm variable
9. Appliances included in home (renters)	Stove/range/oven, refrigerator/ freezer, dishwasher, washer, dryer		

Appendix B. Nonexpenditure Item Categories Reconciling OPLC Data Requirements

9. Appliances included in home (renters) – cont.	Stove/range/oven, refrigerator/freezer, dishwasher, washer, dryer	CPI	Rental equivalence adjustment of owner’s appliances – appliances in home when renter moved in
10. Number of bedrooms	Continuous		
	0-1, 2-3, 4 or more	CPI CE	Rental equivalence adjustments
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		
	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	CE	Publication tables
	Continuous	CE	Tax simulation program
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	CE PINR	Publication tables Economic research
	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	CE	Publication tables
	Race of reference person: Black,	SMD	Calibration weighting and

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

Appendix B. Nonexpenditure Item Categories Reconciling OPLC Data Requirements

14. Race of member – cont.	nonblack	SMD	nonresponse adjustment
	Race of member: Black, nonblack	SMD	Calibration weighting
15. Region	New Census subregions		Not collected in instrument
	Northeast, Midwest, South, West	SMD CE	Calibration weighting and nonresponse adjustment Publication tables
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 2) Number of weeks worked > 0 3) Worked for pay (yes/no)	CE	Publication tables
	0-52	CE	Economic analysis
	Full-time worker: Worked 40 or more hours per week, worked less than 40 hours per week	CE	Economic analysis
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	CE	Economic analysis
18. Sex of reference person	Male, female		
	Male, female	CE	Publication tables
19. Origin of reference person	Hispanic, non-Hispanic		Mandated by OMB
	Hispanic, non-Hispanic	CE	Publication tables

Appendix B. Nonexpenditure Item Categories Reconciling OPLC Data Requirements

20. Education of member	Elementary, less than high school graduate, high school graduate, some college, no degree, associate's degree, bachelor's degree, master's/professional/doctorate, never attended/other		
	Stub percent distribution (based on grade completed): Elementary (1-8), high school (9-12), college (13 and over), never attended/other (0)	CE	Publication tables
	Column header definition: Less than high school graduate, high school graduate, high school graduate with some college, associate's degree, bachelor's degree, master's/professional/doctoral degree	CE	Publication tables
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	CE	Publication tables
22. State	FIPS state code		Not collected in instrument
	FIPS state code	CE	Tax simulation program
23. County	FIPS county code		Not collected in instrument
	FIPS county code	PINR	Supplemental poverty measure
24. Zip Code	5-digit zip code		Not collected in instrument

Appendix B. Nonexpenditure Item Categories Reconciling OPLC Data Requirements

24. Zip Code – cont.	5-digit zip code	CE SMD PINR	Nonresponse weighting adjustment – obtained via agreement with Census for info
25. Marital status of member	Married, not married		
	Married, not married	CE	Publication tables Tax simulation program
26. Public housing	Yes, no		
	Yes, no	PINR	Supplemental poverty measure
27. Rent subsidized	Yes, no		
	Yes, no	PINR	Supplemental poverty 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	Rental equivalence adjustment
	Vacation/second home: Yes, no	CE	Special table for BEA
	Timeshare: Yes, no	CE	Special table for BEA
29. Percentage of property owned	Continuous		
	Continuous	CPI	Rental equivalence adjustment
30. Number of weeks per year owner can occupy timeshare	Continuous		
	Continuous	CPI	Rental equivalence adjustment

Appendix B. Nonexpenditure Item Categories Reconciling OPLC Data Requirements

31. Percent of time property rented/ available for rent to outside members	Continuous		
	Continuous	CPI	Rental equivalence adjustment
32. (Paradata variables - TBD)	Dependent on survey method		
33. Wages and salaries – member level	Continuous		
	Wages and salaries – CU level: Continuous	CE	CE publication tables Tax simulation model
	Wages and salaries – member level: Continuous	CPI	CPI-W
34. Self-employment income – member level	Continuous		
	Self-employment income – CU level: Continuous	CE	CE publication tables Tax simulation model ¹⁶
35. Social Security/ Railroad Retirement income – member level	Continuous		
	Social Security/ Railroad Retirement income – CU level: Continuous	CE	CE publication tables Tax simulation model ¹⁵
36. Supplemental Security income – member level	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.

36. Supplemental Security income – member level – cont.	Supplemental Security income – CU level: Continuous	CE CE	CE publication tables Tax simulation model ¹⁵
37. Interest/dividend income – member level	Continuous		
	Interest/dividend income – CU level: Continuous	CE	CE publication tables Tax simulation model ¹⁵
38. Net rental income or loss – CU level	Continuous		
	Net rental income or loss – tax unit: Continuous	CE	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	CE	CE publication tables Tax simulation model ¹⁵
40. Retirement, survivor or disability pension income – CU level	Continuous		
	Retirement, survivor or disability pension income – tax unit: Continuous	CE	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	CE	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	CE CE	CE publication tables Tax simulation model ¹⁵
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	CE	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	CE	CE publication tables Tax simulation model ¹⁵

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	CE	CE publication tables Tax simulation model ¹⁵
46. Assets and liabilities - total	Continuous		
	Continuous	CE	CE publication tables
47. Assets and liabilities – net change from previous year	Continuous		
	Continuous	CE	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 2013 Interview Survey questionnaire	CE PINR	Economic analyses
49. Inventory of vehicles	All owned/leased vehicles		
	All owned/leased vehicles	CE	CE publication tables

Appendix C. Future CE Publications Stub

<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
Lunch
Dinner
Breakfast, brunch, snacks and nonalcoholic beverages
Other food away from home
Alcoholic beverages
At home
Away from home
Housing
Shelter
Owned dwellings
Mortgage interest and charges
Property taxes
Homeowners insurance
Maintenance and repair
Other owner's expenses

Appendix C. Future CE Publications Stub

<u>Expenditure category</u>
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
Men's apparel
Women's apparel

Appendix C. Future CE Publications Stub

<u>Expenditure category</u>
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. vehic.)
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
Drugs
Medical supplies

Appendix C. Future CE Publications Stub

<u>Expenditure category</u>
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, RV's, 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
Other cash and non-cash gifts
Personal insurance and pensions

Appendix C. Future CE Publications Stub

<u>Expenditure category</u>
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 the requirements

Category	Requirement
1. Expenditures	A minimum set of 126 expenditure item categories has been assembled that will satisfy the current needs of the three divisions. The new survey 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 two years 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 standard one-way 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, quarterly, 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 visit.
8. Full profile of spending in microdata	Capability of producing microdata files where a full profile of expenditures is available for each sampled unit

Appendix E. Enhancements for the Redesigned CE Survey

This report describes the minimum set of requirements that the redesigned CE survey should incorporate to satisfy the needs of the CE, CPI and PINR Divisions. Were resources available, these are a number of additional features that could be added to the survey that would enhance its utility in meeting the mission of the survey. Following is a brief description of some of these potential enhancements.

Additional variables for the production of the Supplemental Poverty Measure (SPM):

There are a number of variables in the current CE design that are used in the production of the SPM, 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 the SPM. They have not been made part of the requirements, due to the uncertainty of future funding for the SPM.

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 is school lunch (breakfast) (milk) purchased; who receives WIC benefits, how often are benefits received, value of the benefit, received via check or debit card; for CU's receiving rent subsidies: public housing or voucher housing, rent for a similar non-subsidized unit; for CU's receiving owner subsidies: owner purchased unit at lower price due to participation in government housing program (yes/no), price of subsidized unit, price of non-subsidized unit; participation in energy assistance program (yes/no), how often did CU participate, amount of subsidy; participation in any other subsidy program (particularly, food, clothing, shelter, and utilities) (yes/no), how often did CU participate; value of subsidy; non-work related travel expenses; value of home-produced food, clothing, shelter and utilities.

Ideally, expenditures would be collected for a 12-month period. Longitudinal weights would also be needed to correct for attrition.

Addition of TPOPS outlet information:

The CPI requires a contemporaneous, representative sampling frame of outlets for all priced CPI market basket items in each CPI sampling area, once every four years. Given the expenditure item categories in Appendix A, approximately 71 of the categories would require outlet information. The frame requirement would be to collect the name of at least one outlet associated with each expenditure reported. In practice, collection could be governed by matrix sampling as the CPI rotation requirement only requires outlet information for each category once over a four-year period in each PSU, and be administered to a sub-sample of respondents, where possible, to obtain sufficient outlet frame sizes.

Collecting this outlet information is not a requirement for the redesigned CE survey. However, CPI would use any outlet information that becomes available in the process of collecting expenditure data in the current proposed Diary/Recall/Records design. The Design Team will consider incorporating outlet questions in the redesign where feasible.

Expanded sample size to support annual replacement of cost weights for CPI:

This was noted earlier in the report in the section on sample size. Resource constraints would have to be relaxed considerably to permit this. This is highly unlikely to occur in the foreseeable future.