

Overview of the CE Surveys Program

Adam Safir, Division Chief

Consumer Expenditure Surveys Program

2018 Consumer Expenditure Surveys

Microdata Users' Workshop

July 18, 2018



CE Mission

- The mission of the CE is to collect, produce, and disseminate information that presents a statistical picture of consumer spending for the Consumer Price Index, government agencies, and private data users.
- The mission encompasses analyzing CE data to produce socio-economic studies of consumer spending, and providing CE data users with assistance, education, and tools for working with the data.

Highlights from CE History

- **1888:** First BLS expenditure survey
- **1972:** First use of weekly Diary & 3-month recall Interview
Census Bureau begins survey collection for BLS
- **1979:** Continuous data collection starts
- **2003:** Computer Assisted Personal Interview (CAPI) begins
- **2004:** Imputation for missing income variables implemented
- **2013:** Model-based estimation of income taxes introduced
- **2013:** 1st publication of midyear tables (Jul 2011 - Jun 2012)
- **2015:** Elimination of the first (bounding) interview in Interview
- **2018:** State-level weights introduced



Survey Design, Data Collection, & Research



Nutrition Facts	
Serving Size 172 g	
Amount Per Serving	
Calories 200	Calories from Fat 8
% Daily Value*	
Total Fat 1g	1%
Saturated Fat 0g	1%
Trans Fat	
Cholesterol 0mg	0%
Sodium 7mg	0%
Total Carbohydrate 36g	12%
Dietary Fiber 11g	45%
Sugars 6g	
Protein 13g	
Vitamin A 1%	Vitamin C 1%
Calcium 4%	Iron 24%
*Percent Daily Values are based on a 2,000 calorie diet. Your daily values may be higher or lower depending on your calorie needs.	

Survey Design

- National probability sample of households designed to represent the total U.S. civilian non-institutional population
 - ▶ Includes: (1) persons living in houses, condominiums, apartments, and (2) group quarters such as college dormitories
 - ▶ Excludes: (1) military personnel living on base and (2) nursing home residents, as well as (3) people in prisons or other institutions
- Data are collected by the Census Bureau on behalf of BLS via two independent surveys
 - ▶ Quarterly Interview Survey
 - ▶ Diary Survey

Quarterly Interview Survey

- Designed primarily to collect expenditures for large or less frequently purchased items that can be recalled in a quarterly interview, or things that you make regular monthly payments on
- Approximately 48,000 addresses are visited each year
- Consumer units (CUs) are identified at each address
- Rotating panel design, each CU is interviewed for 4 consecutive quarters
- Approximately 6,500 quarterly interviews, or 26,000 annual interviews



Diary Survey

- Designed primarily to collect detailed data on small, frequently purchased items which would be difficult to recall in a quarterly interview
- 4 sections: Food at home; food away from home; clothing; other
- Annual diary cases are divided equally among the days of the year and then assigned to the collection period month
- Each CU is assigned two consecutive 7-day diaries with two personal visits
- Approximately 6,200 annual CU interviews (12,400 completed diaries)
- At BLS, each Diary week is treated separately for estimation purposes



Research

- Propose and evaluate regular survey questionnaire changes
- Develop and evaluate new methods
 - ▶ Use of incentives for increased cooperation and engagement
 - ▶ Linking to administrative data for validation
 - ▶ Record and receipt use to improve data quality
- Provide comprehensive info to stakeholders on data quality
 - ▶ Annual data quality profile
 - ▶ R-indicators for representivity assessments
 - ▶ Response rates and assessment of potential nonresponse bias

Dissemination & Outreach



CE Customers

■ Government

- ▶ Consumer Price Index (CPI)
- ▶ Census Bureau (BOC)
- ▶ Defense Department (DoD)
- ▶ Internal Revenue Service (IRS)
- ▶ Bureau of Economic Analysis (BEA)
- ▶ Health and Human Services (HHS)
- ▶ Department of Agriculture (USDA)

■ Media

■ Market & Academic Research



Publications

- Monthly Labor Review
- Beyond the Numbers
- Spotlight on Statistics
- Data Comparisons
- Department of Labor (DOL) blog posts

Consumer Expenditure Survey Anthology, 2005



U.S. Department of Labor
U.S. Bureau of Labor Statistics
April 2005
Report 561



Data Dissemination

- New Releases & Reports
- Public Use Microdata (PUMD) files
- Tables
 - ▶ Annual calendar year tables
 - ▶ Midyear tables
 - ▶ Multiyear tables
 - ▶ Cross-tabulated tables
 - ▶ Metropolitan statistical area tables
 - ▶ Region tables and area tables
 - ▶ High-income tables



Outreach

- Survey Methods Symposium & Microdata Users' Workshop
- Conference Presentations
 - ▶ Midwest Economic Association (MEA)
 - ▶ American Council on Consumer Interests (ACCI)
 - ▶ Southern Economic Conference (SEA)
 - ▶ American Association for Public Opinion Research (AAPOR)
 - ▶ Joint Statistical Meetings (JSM)



Modernization & Innovation



Large Scale Feasibility Test

- To be fielded by Census Bureau in 2019

Consumer Expenditure Diary Log out Contact us Help

Add Expenses

Date: Saturday, March 18

Type: Meals, Snacks, and Drinks Away From Home

Details:

Describe meal *i*
Enter description

Total cost (include tax and/or tip) *i*
\$ 0.00

What meal was this?
 Breakfast Lunch
 Dinner Snack/Other

Select any alcohol included:
 None Beer
 Wine Other

Clear Save

My Expenses View Members Enter search term

Friday, March 17 (0)	
Saturday, March 18 (0)	
No expenses reported.	
Sunday, March 19 (0)	
Monday, March 20 (0)	
Tuesday, March 21 (0)	
Wednesday, March 22 (1)	
Transportation Expenses	Gas - 20Gal \$43.98
Thursday, March 23 (0)	

CE Diary Log out Contact us

Add Expenses

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Details:

Describe meal *i*
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Total cost (include tax and/or tip) *i*
\$ 0.00

What meal was this?
 Breakfast Lunch
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Select any alcohol included:
 None Beer
 Wine Other

Back Clear Save



Linked Data Projects

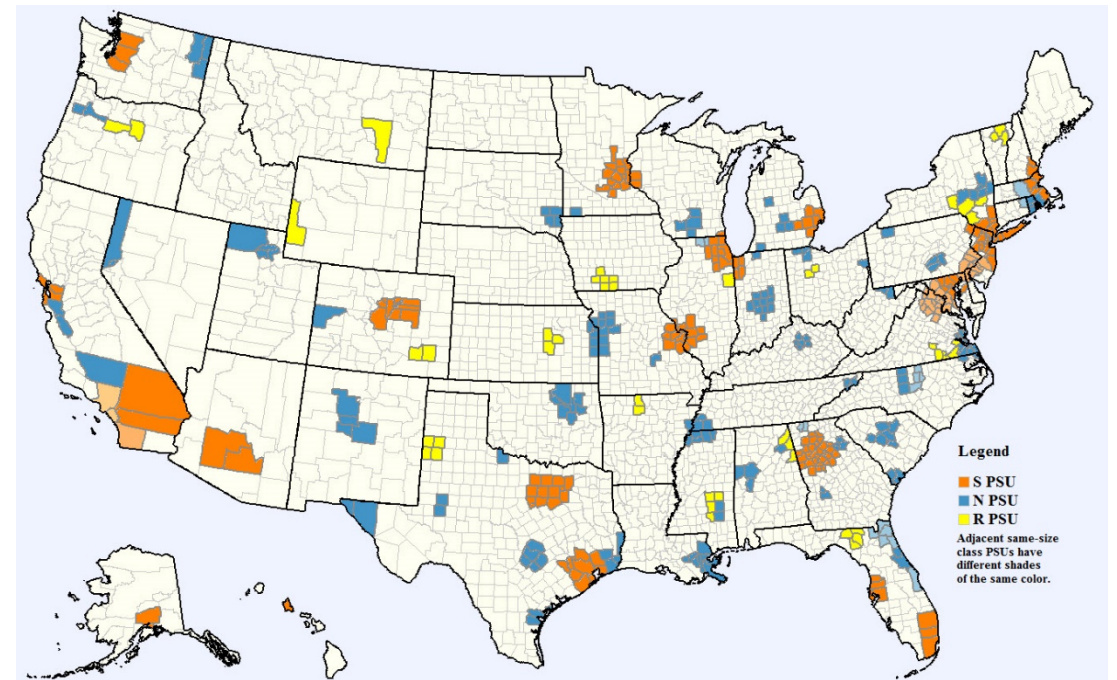
- Work with Census to evaluate linked IRS data for potential production use in CE. Project should be completed by the end of FY19 and it will result in recommendations on next steps for linking CE with IRS data to create nonresponse weighting adjustments.
- In previous work, CE staff explored the benefits of matching admin and private sources of data to CE records to evaluate matching effectiveness and quality (mixed results)
- In addition to the data sources already explored (IRS and CoreLogic housing data), other datasets available through CARRA include from SSA, HUD, CMS, IHS, and NCHS



Experimental State Weights

Simulated Design of 2010 CE PSUs

- Experimental state level weights for California, Florida, and New Jersey have been published
- Enables users to generate statistically valid state-level expenditure estimates from CE public-use microdata



CE Website

<https://www.bls.gov/cex/>

- Tables
- Microdata
 - ▶ Documentation
 - ▶ Data files
- Questionnaires
- Publications
- Glossary
- FAQs
- Information for respondents
- CE Redesign (Gemini Project) information



Thank You!

