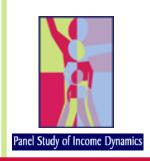
Considering the Structure of the Consumer Expenditure: Designing Computer Assisted Interviewing

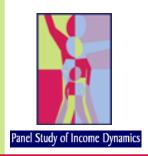


- CONSUMER EXPENDITURE SURVEY
 METHODS WORKSHOP
- Frank Stafford
 Professor of Economics
 University of Michigan

fstaffor@umich.edu



Research Setting



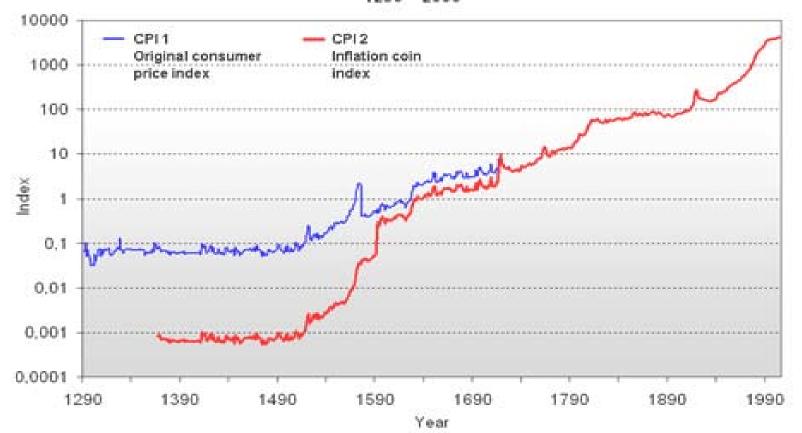
- There is a long history of keeping track of consumer expenditure
- In the current day the challenges are enormous
- Impact of internet access, proliferation of other expenditure modes (A)
- Proliferation of goods and service types, especially for rich families (B)
- Think of A x B
- Add in fluid household structure!

'OLDEN DAYS'

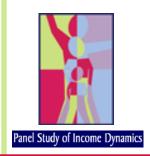


Sweden, 1290 - 2008

Consumer Price Index 1290 – 2006



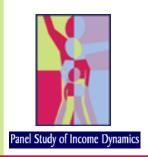
DESIGN THEMES



- Extensive use of interactive GUI
- Use to screen inconsistencies from adding up
- Apply a more 'conversational mode

"Future Directions in Timeline Data Collection and Analysis: Time Dairy and Event History Calendar Methods," (with Robert F. Belli) in <u>Calendar and Time</u> <u>Diary Methods: Measuring Well-Being in</u> <u>Life Course Research (Sage Publications,</u> 2009)

A Bit More on Design Themes



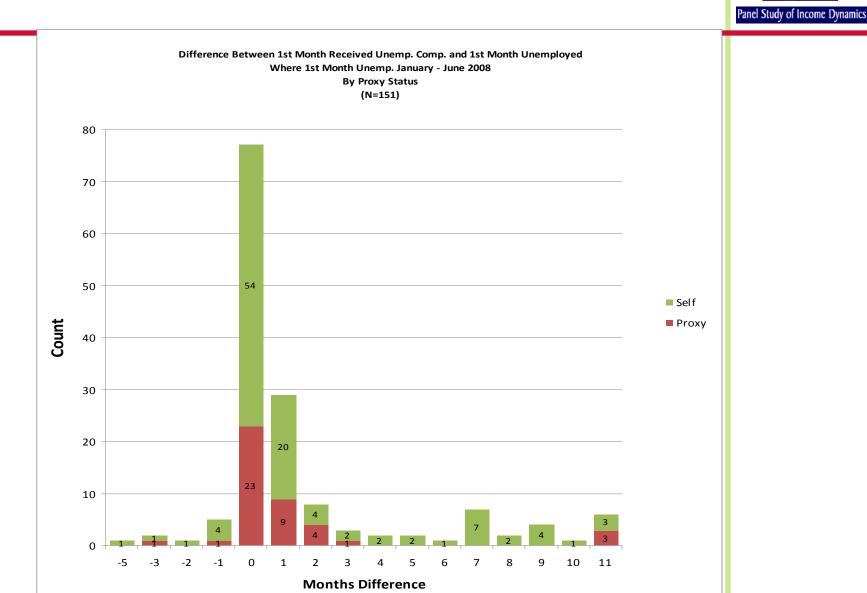
- Soft checks on consistency
- Hard checks on consistency from 'adding up' such as 52 weeks per year
- GUI works over the phone tool to help interviewer navigate a less structured 'conversation'
- Can have tabs for interviewer to work back and revisit topics
- An example is our Employment Event History Calendar (EEHC) revised in 2009 and use 2009 and now in 2011.

SAMPLE SCREEN

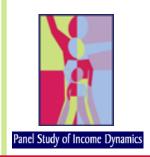


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DOES 'IT' WORK?? Alignment of Unemploymnet Spells and Receipt of UI



USE OF GLOBAL CATEGORIES



- Traditionally used in PSID
- Expanded 1997-2009 to cover most spendig domains
- Spread throughout application not one long block
- Commonly use unfolding brackets





• PSID – CE Comparison

to Consumer Expenditures Survey									
	1999	2001	2003						
Total	0.96	1.02	1.01						
Food	1.03	1.08	1.1						
Housing	0.94	1	0.97						
Transportation	0.86	0.95	0.94						
Education	1.16	1.31	1.13						
Childcare	1.21	1.25	1.26						
Health care	1.04	1.1	1.14						

Source: Li Schoeni Danziger Charles (2010) table 3

An Expenditure Periodicity Taxonomy (C)



Regularity	Frequency	Examples
Somewhat regular	High (weekly)	Food, gasoline
Regular	Medium (monthly)	Rent, utilities, prescription drugs (for some people)
Regular	Low (annual/semiannual)	Property taxes, auto license
Irregular	Varies across households	Clothing, health care copays
Big ticket items	Usually less than once/year	Automobiles, home improvements

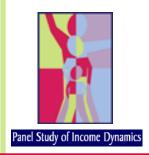
Source: "Methodological Innovations in Collecting Spending Data: The HRS Consumption and Activities Mail Survey," Michael Hurd and Susann Rohwedder.

DIVERSE MODES IN THE ABOVE TABLE (D)

- Store
- Check
- ETF regular
- ETF sporadic
- Credit/Debit Cards
- Vending machines
- Internet (GPI?)

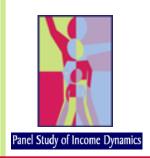


DIVERSE PUSCHASERS (E)



- Respondent
- Spouse
- Kids PSID CDS has allowances paid to kids
- Stealth credit card purchases? 8+ in 2007 from original CDS I sample
- A x B x C x D x E

Interactive Reconciliation ALP- CEX Rohwedder and Hurd, 2010



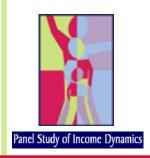
	AII	45 or Older	65 or Older
ALP	\$41,723	\$43,814	\$40,585
CEX	\$43,596	\$44,147	\$35,706

Strategies and structure



- First obtain force status of the family members age 15 and older as of the survey data and the prior calendar year. Then a summary measure of labor income from the prior calendar year period.
- Add ins (eg. Inheritance, mortgage refi??) to define an 'annual cash flow available for consumption' or ACFC.

Strategies and structure



- Go through a set of rather global expenditure categories, using recall periodicities to match the expenditure category.
- Then a reconciliation phase in which the components are added to a total
- Then a single consumption domain (or two) for added detail. Here the starting point could be the categories set out in Appendix B of <u>CPI Requirements of CE</u>

Strategies and structure



- Mode (s) of Purchase. For the specific domain. Maybe tabs by mode?
- Gifts of goods, 'help from others' in ACFC
- Who purchased? (some aspects of the Japanese expenditure studies?)