# Exploring the Characteristics of Partial Interviews in the Consumer Expenditure Survey

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#### **Outline**

- Brief overview of the CE
- Response Rates and Partial Interviews
- Research Questions
- Findings



# **Consumer Expenditure Survey**

- Collects spending data on the U.S. Population
- Sponsored by the Bureau of Labor Statistics, collected by the Census Bureau
- Survey participants report dollar amounts for all non-investment purchases.
   Business expenses and reimbursements are excluded.
- Provide expenditure weights for the U.S. Consumer Price Index (CPI)
- Quarterly Interview and Diary Survey





#### **Data**



- 2017 CE Quarterly Interview (CEQ)
  - ► Personal interview
  - ► Rotating panel, collected quarterly, each household interviewed 4 times.
  - ▶3-month recall
  - Designed to collect larger, recurring expenses that are easy to recall



#### **Response Rates and Partials**

- In CE, interviews are counted as complete if they cover all expenditure sections (through section 20).
- "Sufficient Partials" are interviews that complete everything, but the income, assets, and liability questions (section 21 and 22).
- "Insufficient Partials" are classified as Type A non-interviews and are indistinguishable based on our final interview classification codes.

2017 CEQ	n	Rate (% eligible)
Eligible	40,193	100
Complete Interviews	24,479	60.9
Type A Non-interview	15,714	39.1
Insufficient Partials	??	??



#### **Research Questions**

- Who are those that drop out?
- Can they help provide insight on other non-responders?
- Can their break-off point inform us about survey design?
- Could their data somehow be used in our processing?



# **Defining a Partial: Data**

- Audit trail data: paradata created during a Blaise programmed Computer Assisted Personal Interview (CAPI) instrument that records a detailed history of the sequence, timing, and flow of an interview
  - ► Summarized Audit Trail timing data in survey files
  - ► Detailed, accessible audit trail tables (see Brandon Kopp's poster in Poster Session 3 on Saturday)



# **Defining a Partial**

- Type A (Noninterview) cases with time > 0 for expenditure sections
- Eliminate cases where cumulative expenditure time < 65 seconds or where demographic questions were never asked.

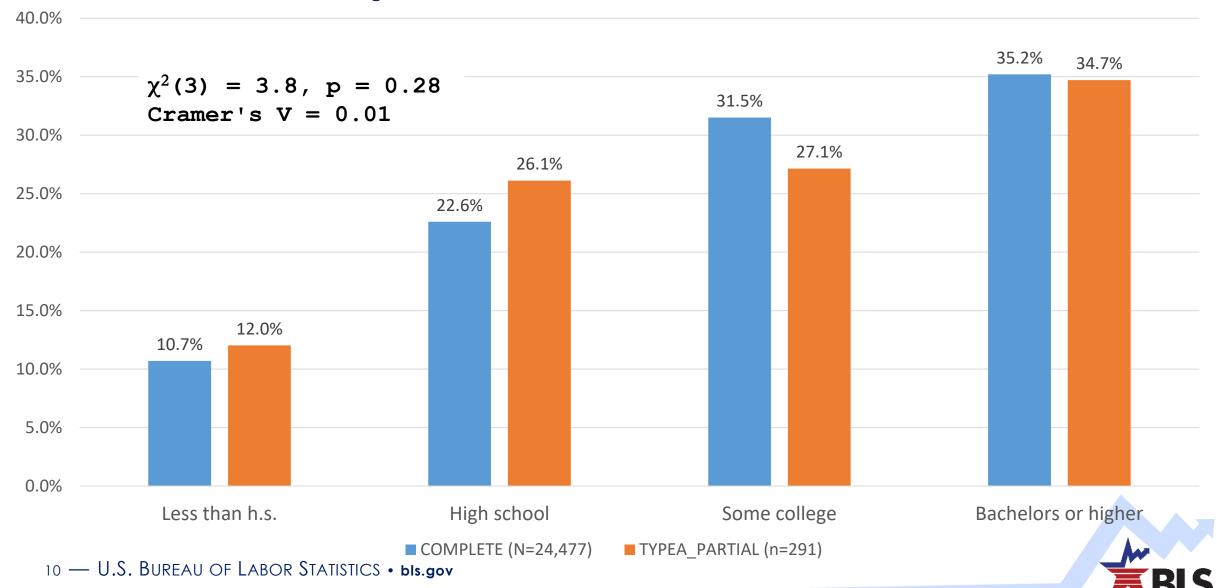
2017 CEQ	n	Rate (% eligible)
Eligible	40,193	100
Complete Interviews	24,479	60.9
Type A Non-interview	15,714	39.1
Insufficient Partials	294	0.7



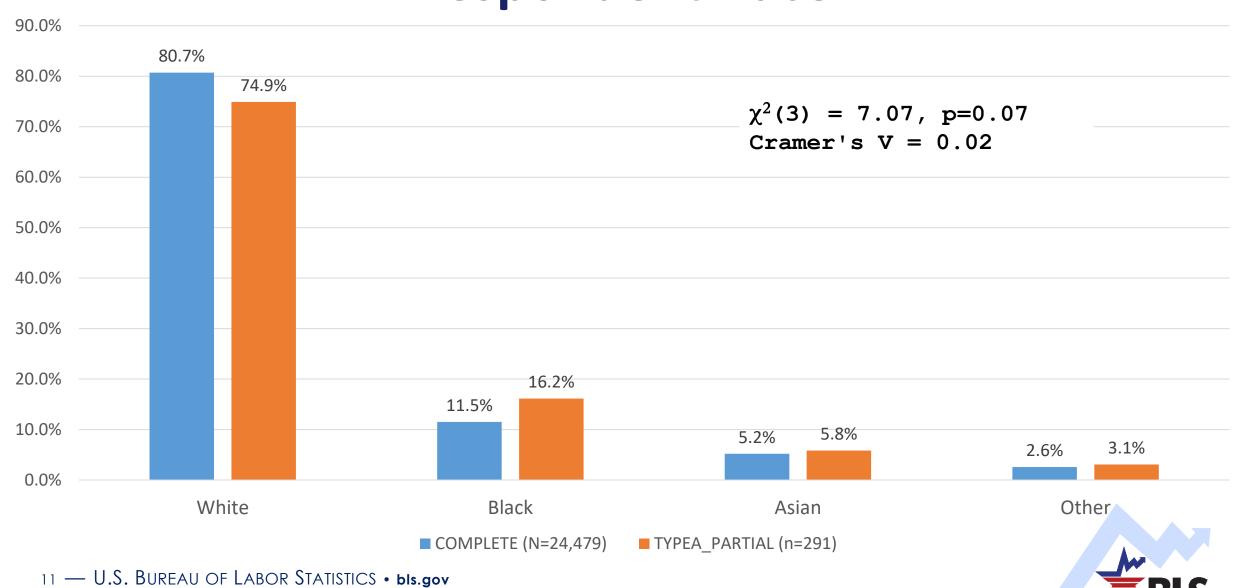
# Who are these partials?



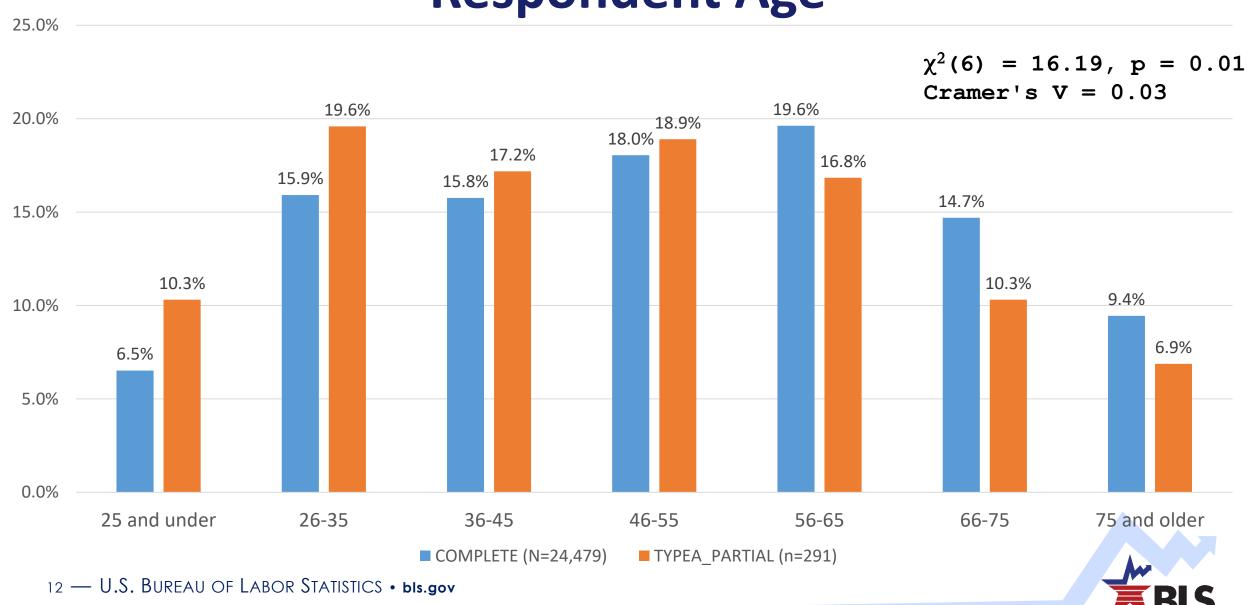
# **Respondent Education Level**



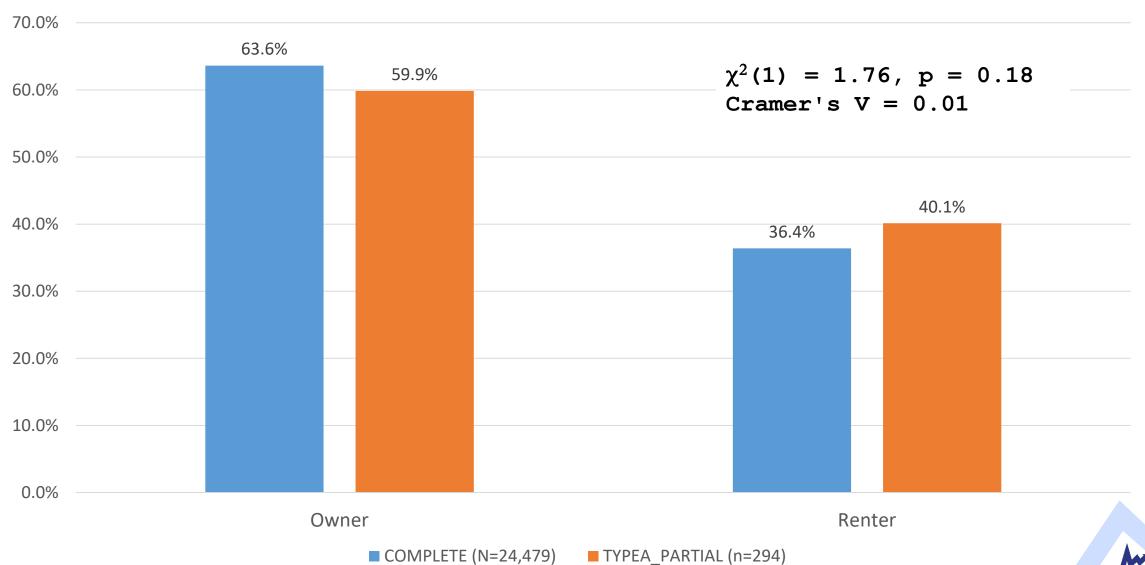
# **Respondent Race**



## Respondent Age

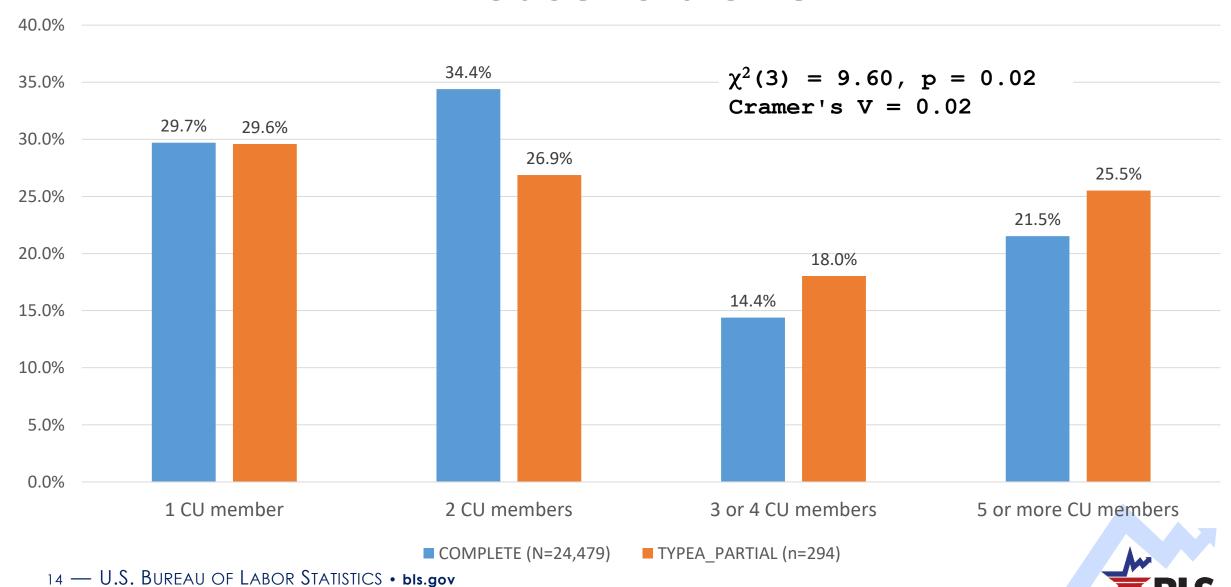


#### **Household Tenure**

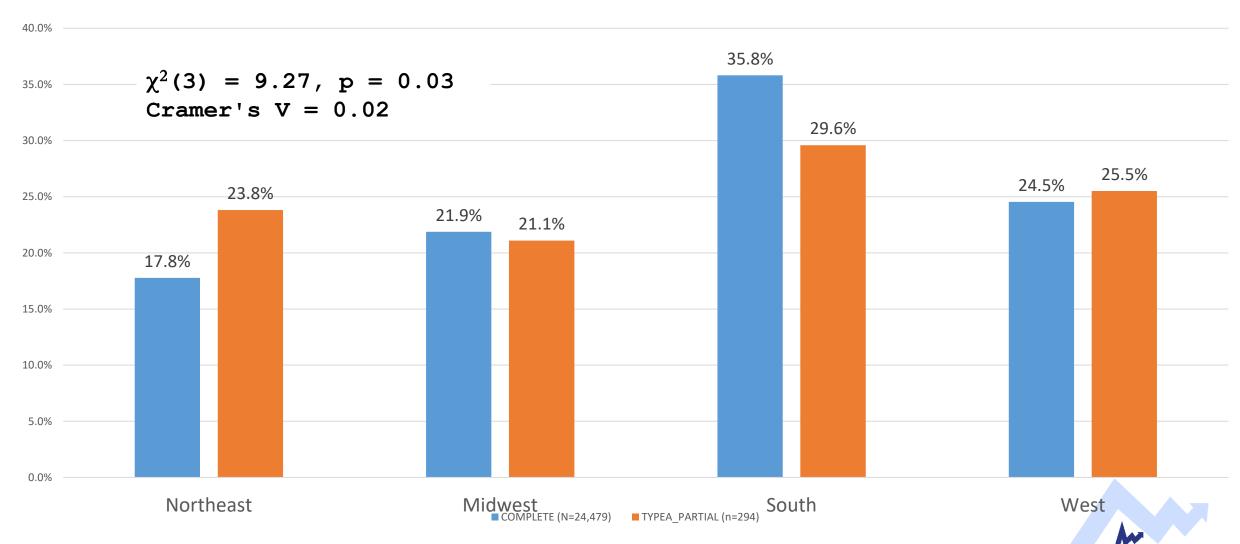




#### **Household Size**



# Region



# **Participation - Wave**

#### ■ Wave of data

Count of complete interviews	Percent of Completes (n=24,773)	Percent of Partials (n=294)
1	25.8	28.6
2	24.7	25.5
3	24.2	28.2
4	25.4	17.7



## Participation – other waves

■ With 4 waves of data collections, what happens in the other

waves?

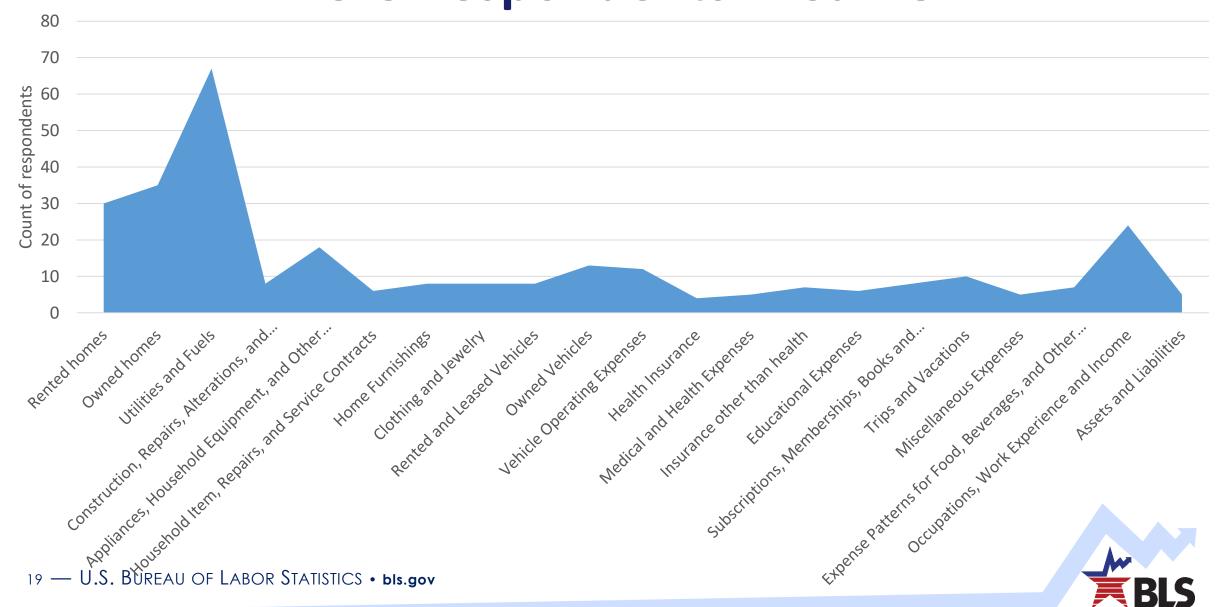
Count of complete interviews	Percent of Completes (n=24,773)	Percent of Partials (n=294)
0	-	36.1
1	8.25	30.3
2	10.7	20.1
3	17.25	13.6
4	63.81	-



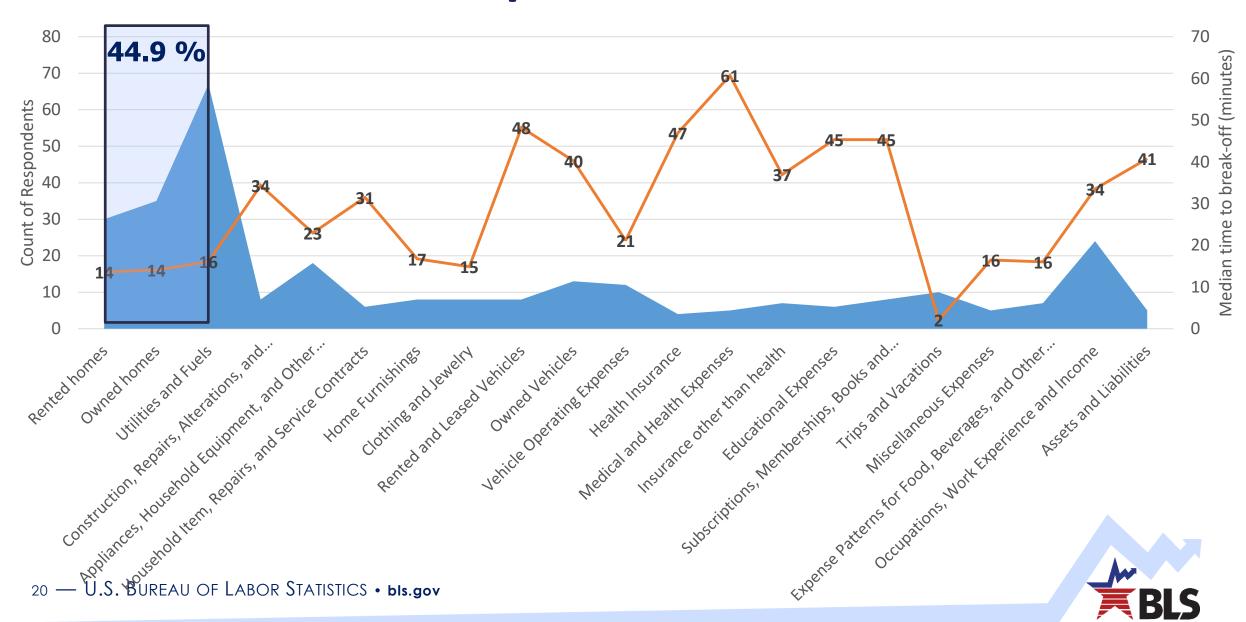
# Where do respondents break-off?



# Where Respondents Break-Off



# Where Respondents Break-Off



# How do the expenditure data compare?



## How do their expenses compare? (Rented Property)

	N	Mean
Average monthly rent (1st property)		
Completes	8,225	\$ 900
Partials	62	\$ 1,100



## How do their expenses compare? (Owned Property)

	N	Mean
Annual property tax (1st property)		
Completes	13,169	\$ 3,200
Partials	98	\$ 5,700
Original mortgage amount (1st loan)		
Completes	8,315	\$ 186,000
Partials	73	\$ 349,000
Amount of last monthly payment (Fixed rate mortgage) (1st loan)		
Completes	8,343	\$ 1,500
Partials	75	\$ 1,600

# How do their expenses compare? (Utilities)

	N	Mean
Monthly telephone/internet/cable bills		
Completes	22,571	\$ 204
Partials	120	\$ 216
Monthly electric/gas/water/etc		
Completes	22,406	\$ 203
Partials	98	214



#### **Research Questions**

- Who are those that drop out?
  - ► Slightly younger, larger, non-white households, in the Northeast
- Can they help provide insight on other non-responders?
  - Reported expenditures are higher for those that break-off
- Can their break-off point inform us about survey design?
  - ► Around 15-30 minutes seems to be where the majority of partials lose interest...or is it content of the sections? More research is needed.
- Could their data somehow be used in our processing?
  - Data for partials were very sparse, so not likely.

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#### **Next Steps**

- Closer look at the definition of a partial (presence of respondent)
- Investigate respondents that do stick around for >1 hour and then drop out
- Look at data quality of sections (e.g. item nonresponse) for partials
- Investigate interviewer reported reasons that the respondents didn't complete the interview ("doorstep concerns")

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