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Food Security

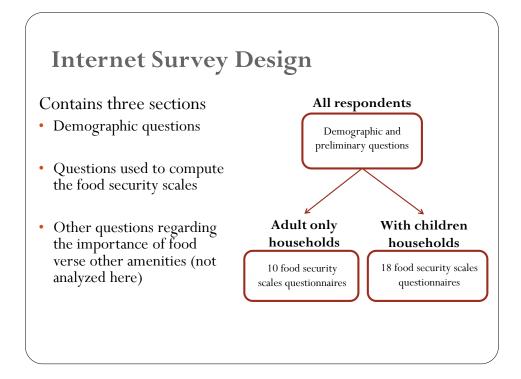
- The United States Department of Agriculture (USDA) measures the extent of household food insecurity every year
- The food security survey is conducted as a part of the Current Population Survey (CPS) by the U.S. Census Bureau, which partially involves expensive in-person interviews
- Collected data from CPS is analyzed and reported by USDA's Economic Research Service (ERS)
- **12.3** percent of households were food insecure in 2016 (ERS, 2017)

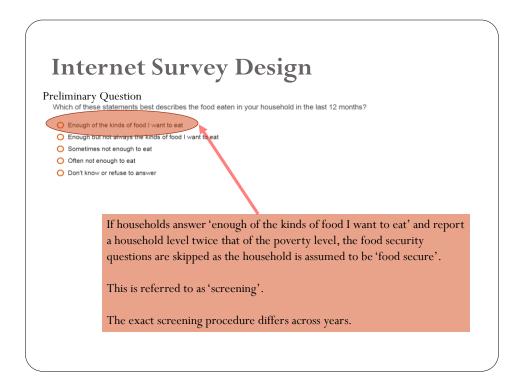
Research Questions

- What if a researcher wants to study a new aspect of food security that requires questions not currently asked in the CPS?
- Using internet surveys to measure food security would be less representative, but also less expensive.
- Are they 'good enough' to justify conducting?
- Perhaps so, if food security rates using the internet survey mimics those in the CPS.

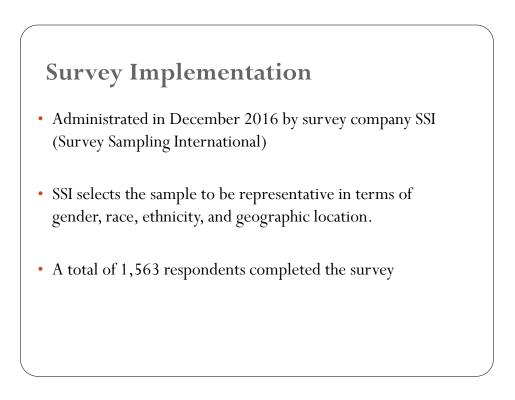
Objectives

- Conduct an internet survey of Americans.
- To the extent possible, ask the identical food security questions used in the CPS.
- Compare the percent of food insecure households in the internet survey to percent in the CPS.
- If they are not similar, observe their differing demographics, and evaluate if sample balancing (also known as raking) can reconcile the food insecurity rates.





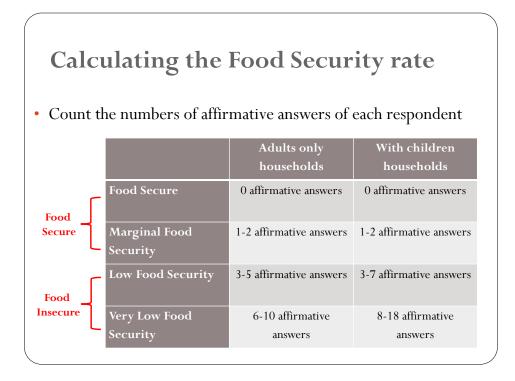
Internet Survey Design
meet net bui vey Design
Example of the Food Security Scale Questionnaires
"I was worried whether my food would run out before I got money to buy more." Was that <u>often, sometimes</u> , or <u>never</u> true for you in the last 12 months?
O Often true O Sometimes true - Affirmative
O Never true
O Don't know or refuse to answer
"I couldn't afford to eat balanced meals." Was that <u>often, sometimes</u> , or <u>never</u> true for you in the last 12 months?
O Offen true O Sometimes true - Affirmative
O Never true
O Don't know or refuse to answer
"The food that I bought just didn't last, and I didn't have money to get more." Was that <u>often, sometimes</u> , or <u>never</u> true for you in the last 12 months?
O Otten true O Sometimes true - Affirmative
O Never true
O Don't know or refuse to answer



Data

Summary Statistics of the Internet Survey, ERS/CP Survey, and American Community Survey

	Internet Survey December 2016 (N= 1,563 respondents)	ERS/CPS 2011-2015	American Community Survey (ACS) ¹
Percent of	Households		
With three or more	55.0%	38.1%	38.7%
members			
With income < \$20,000	17.0%	16.2%	17.7%
With unemployed	24.4%	8.1%	8.3%
member			
Who own their home	60.0%	66.1%	63.9%
Who use SNAP benefits	19.3%	9.5%	
Who use food pantries	14.7%	6.2%	-
Percent of	Survey respondents		Individuals in households
Ethnicity: white only	77.4%	80.5%	73.5%
Bachelor's degree	27.5%	35.1%	18.5%
Female	53.5%	49.0%	50.8%



Calculating the Food Security rate

Sample balancing

- to make the sample behave as if demographic profile for the internet survey matched that of the ACS representative by the U.S. Census Bureau statistics (Household income level, Gender, Education, home-ownership, Ethnicity, Unemployment rate, etc.)

Screening-out process

- assumed that households that both report incomes above 200% of the poverty household income level and respond to the preliminary question are food secure

