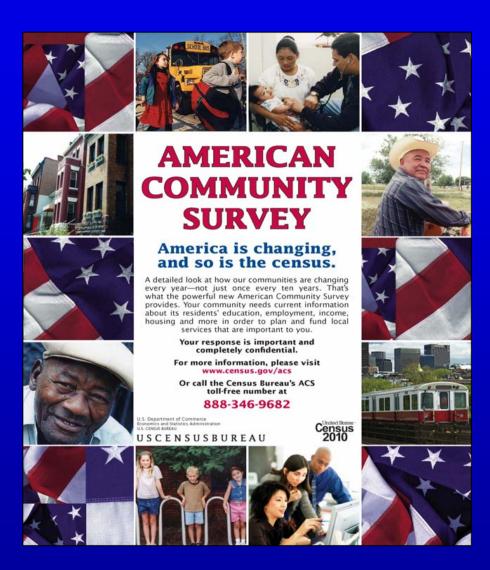
The American Community Survey A Continuous Measurement Application in the United States

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- Overview of the American Community Survey (ACS)
- Advantages of Continuous Measurement
- Considerations of Continuous
 Measurement

ACS Background

- Provide timely detailed data to policy makers
- Reengineer decennial census by eliminating the need for the long-form
- Allows opportunity for continuous improvement

Timeline of ACS Development

1994 - 1996 Development of

Continuous Measurement

Prototype

1996 - 1998 Operational Testing

1999 - 2004 Demonstration Period

2005 and on Full implementation

ACS Content Areas

- Demographic characteristics
- Social characteristics
- Economic characteristics
- Housing characteristics

ACS Sample Design

- Survey designed to produce annually updated single-year and multi-year estimates
- Variable sampling rates used to ensure sufficient sample sizes in the smallest governmental units
- Sample cases selected from an updated Master Address File (MAF)

ACS Data Collection

- Methodology based on best practices from decennial census and demographic surveys
- Monthly samples using overlapping multi-mode data collection methods
 - Mail
 - Telephone
 - Personal Visit

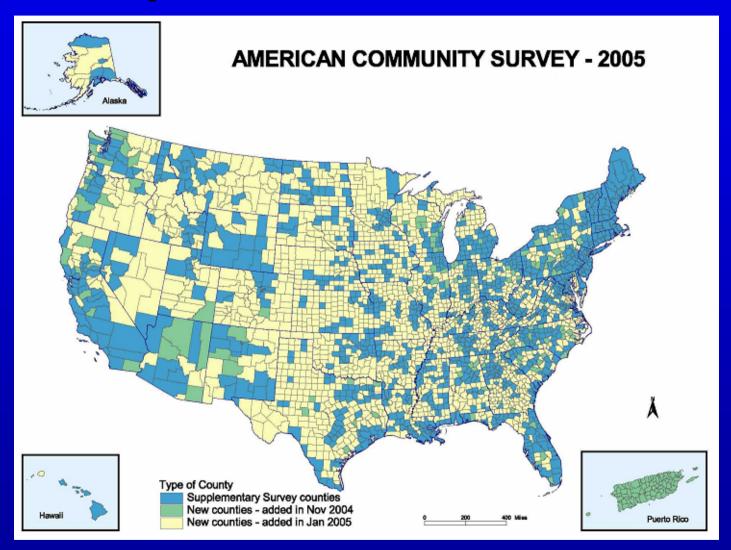
ACS Data Collection

- Four mailings used to maximize response
- Nonresponse workload identified for telephone follow-up
- Subsample of non-respondents to mail and telephone selected for personal visit follow-up

ACS Data Collection Continuous cycle

| | Calendar Month | | | | |
|--------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Sample Panel | Jan 2007 | Feb 2007 | Mar 2007 | Apr 2007 | May 2007 |
| Nov 2006 | Personal Visit | | | | |
| Dec 2006 | Phone | Personal Visit | | | |
| Jan 2007 | Mail | Phone | Personal Visit | | |
| Feb 2007 | | Mail | Phone | Personal Visit | |
| Mar 2007 | | | Mail | Phone | Personal Visit |

ACS Operations



ACS Data Processing Annual accumulation

- All data collected in a given calendar year are used to produce the ACS estimates for that year
- Data for multiple years will be pooled to produce 3-year and 5-year estimates

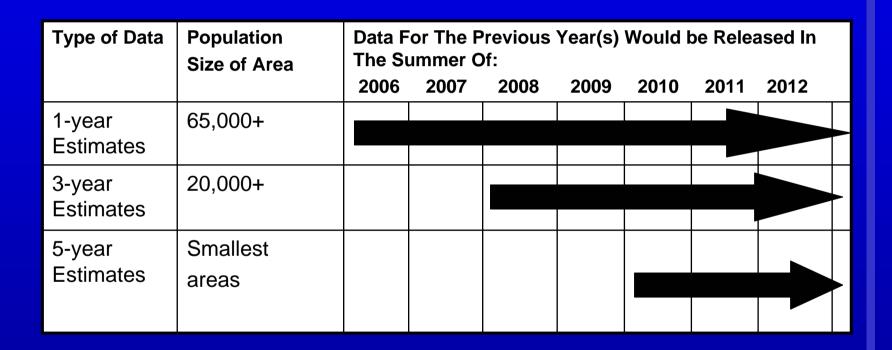
ACS Weighting and Estimation

- Initial weights reflect the probability of selection
- Weights are adjusted to account for noninterviews
- Weights are adjusted to independent housing unit and population estimates (controls)

Examples of ACS Data Products

- Detailed Tables
- Profiles
- Ranking Tables and Geographic Comparison Tables
- Thematic Maps
- Public Use Files (microdata)
- Special Tabulations

ACS Data Products Illustration of an ACS Release schedule



Advantages of Continuous Measurement

- Production of updated annual estimates means more current and timely data for users
- Improved quality due to the use of interviewing staff that are experienced and continuously employed

Advantages of Continuous Measurement

- Greater flexibility in content determination
- Ability to use ACS results as sampling frame for additional surveys
- Streamlined production systems that are improved by continuous use and improvement

Considerations of ACS Sample Design

- Maintaining frame completeness through the use of
 - Postal service updates in most areas
 - Special field updating in more rural areas
- Maintaining proposed sample size despite risks of
 - Budget reductions
 - Increases in mail, phone, and overall survey nonresponse

Considerations of ACS Data Collection

- Maintaining high levels of mail response, overall survey response, and improving effectiveness of telephone follow-up
- Maintaining low levels of item nonresponse
- Developing additional language tools

Considerations of ACS Data Collection

- Identification, testing and integration of new content
- Ensuring methods are effective in all areas and for all populations
- Shifting to image capture technology

Considerations of ACS Weighting and Estimation

- Quality of population and housing estimates used as survey controls
- Reliability of data collected for small geographic areas
- Comparability and utility of single-year and multi-year estimates

Considerations of ACS Data Products

- Educate users on multi-year products
- Facilitate transition of data users from traditional once-a-decade long-form census to ACS
- Maintain timely review and release of data as the number of data products increases

Summary

- Overall, the ACS has been a successful example of implementing a continuous measurement application
- Considerations will continue to require research
- For the 2010 census in the US, the ACS will replace the traditional decennial long-form

For More Information

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www.census.gov/acs/www

ACS Alert

http://www.census.gov/acs/www/Special/Alerts.htm

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