

CCM Operations

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CCM – Census Coverage Measurement

- Provides estimates of coverage error for the housing unit population and for housing units:
 - Net error
 - Component Error
- Excludes group quarters and remote Alaska
- Includes Puerto Rico

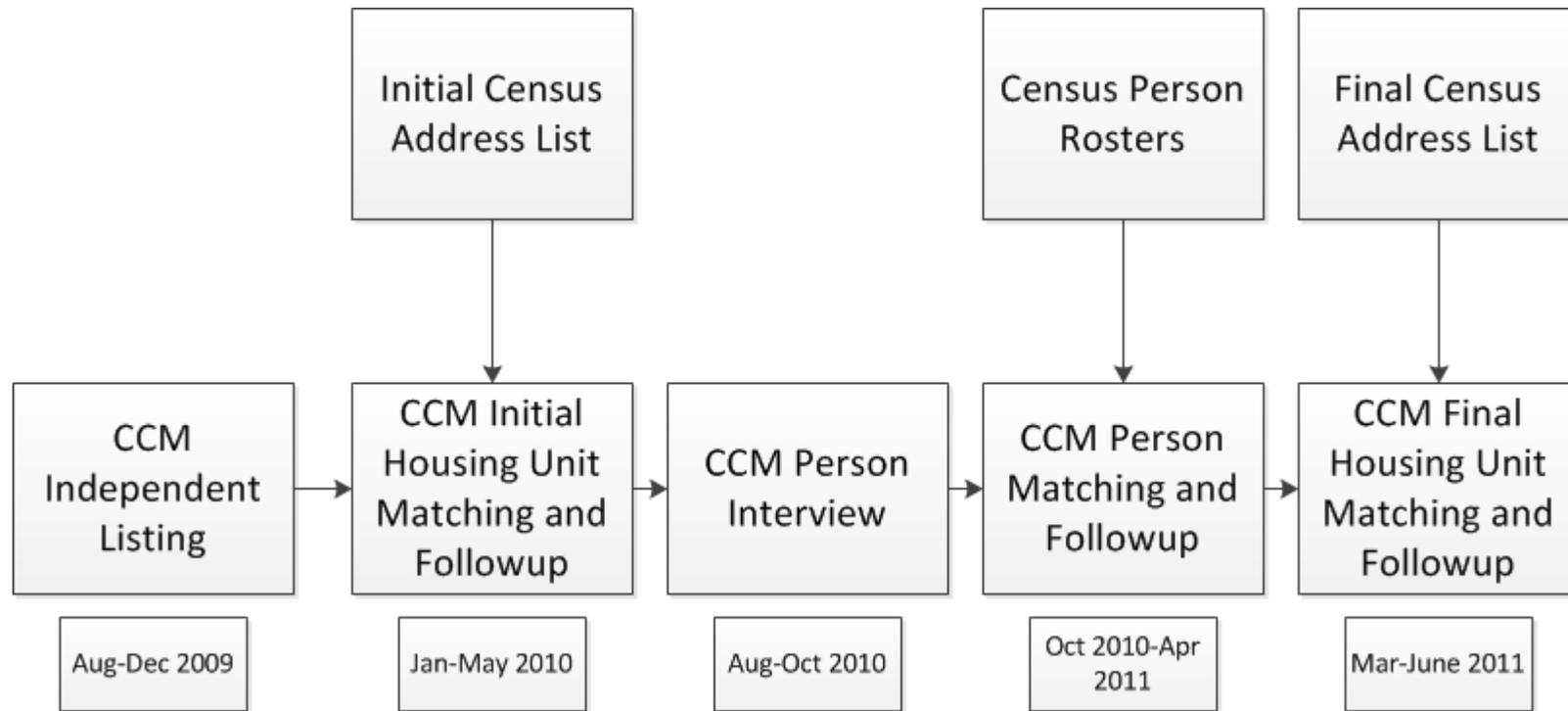
Two Samples

- Independent CCM (P) Sample
 - Sample of housing units and persons obtained independently from the census.
 - Provides information about misses
- Census (E) Sample
 - Sample of housing units and persons in the census in CCM sample areas
 - Provides information about erroneous enumerations

How to Handle People who Move

- What if people move between Census Day and when CCM interviews?
 - Choice – interview/match people who move in or people who move out?
 - CCM 2010 interviewed and matched in-movers to get self-reported interview data
 - More difficult to match since we need to match to where they were on Census Day

CCM Operational Flow



2010 Sample Activities

- Cluster Sampling
 - Create block clusters – about 30 units
 - Select block clusters
- Housing Unit Sampling
 - Identify Independent (P) CCM sample
 - Identify Census (E) Sample

Independence of CCM Operations

- Theory
 - Responding to the survey must be independent of responding to the census
- Application
 - Conduct CCM operations independently of census

Independent Listing

- Goal – to create a complete and **independent** list of potential housing units within each sample block cluster
- Paper listing book and paper maps

Independent Listing Results

Clusters	11,835
Housing Units Listed	892,976
Schedule	Aug-Dec 2009

Initial Housing Unit Operations – Goal

- Assign HU status and match status to all CCM units and census units in the block cluster
- Uses
 - Universe for sampling for later sampling operations
 - HU estimation – closer to Census Day for better HU information
- Dates – Jan-May 2010

Person Interview (PI)

- Goal – Create an independent roster in P-sample and selected census units
 - Where **should** the person be counted?
 - Where **could** the person be counted?
- CAPI on laptops

Person Interview Workload and Results

- Number of addresses sent to field—
186,766
- Response rate – 98.4%
- Number of other addresses collected –
60,590
- Proxy rate – 4.6%
- Schedule – Aug - Oct 2010

Information Collected in Person Interview

- Roster –people who lived here now and those who have moved out since April 1
- Demographics
- Other places the people could have been counted

“Cast a Wide Net”

- Capture anyone who may be attached to a unit
 - Movers
 - People with other places to live
- Use roster probes to collect people tenuously attached or likely missed
- Determine in post-processing who should be counted at the unit

Person Operations – Goal

- Assign a final match, residence, and enumeration status to each sample person
- Search for matches and duplicates
 - Computer
 - Clerical
- Dates – October 2010-April 2011

Searching for Matches and Duplicates

- Sample block cluster
- Nationwide computer match
- Clerical search at other residences provided by respondent
 - Must geocode the addresses to census geography to search for matches

Final Housing Unit Operations – Goal

- Assign HU status and match status to P-sample and E-sample units
- Focuses on changes in census address list since initial housing unit operations
- Used for HU estimation
- Mirrors the Initial Housing Unit Operations
- Dates – March – June 2011

Data for Estimation

- CCM (P) Sample matching and duplication results
- Census (E) Sample matching and duplication results
- Persons and Housing Units

2010 Assessments

- Assessments
 - Every operation
 - Documents the results of the operation and lessons learned.
- Evaluations
 - Recall Bias Study
 - Investigation of Methods to Evaluate the Group Quarters Populations

2010 CCM Done!!

- Let's get ready for 2020!

Thank you

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