

2020 Post-Enumeration Survey Program Overview

Timothy Kennel

Decennial Statistical Studies Division

Post-Enumeration Survey (PES)

What is the PES?

- Goal
 - Measure coverage of people and housing units in the decennial census
 - Measure net coverage error and components of coverage
- How are the data used?
 - To assess the success of the census
 - To provide information to improve the coverage of future censuses
- How is coverage estimated?
 - Conduct a survey in sample blocks
 - Match case-by-case matching of people in an independent survey with enumerations in the census to determine who was missed or counted in error
- History
 - Conducted in the United States census for over 30 years

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History of PES Estimates

Year	Census Count	Net Undercount	Percent Net Undercount
2010	300,703,000	-36,000	- 0.01%
2000	273,587,000	-1,332,000*	- 0.49%*
1990	248,710,000	3,994,000*	1.61%*

* Statistically different from zero

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How PES Estimates are Created

		Enumerated in PES?	
		YES	NO
Enumerated in Census?	YES	Found in Both	Missing in PES Found in Census
	NO	Missing in Census Found in PES	Missing in Both

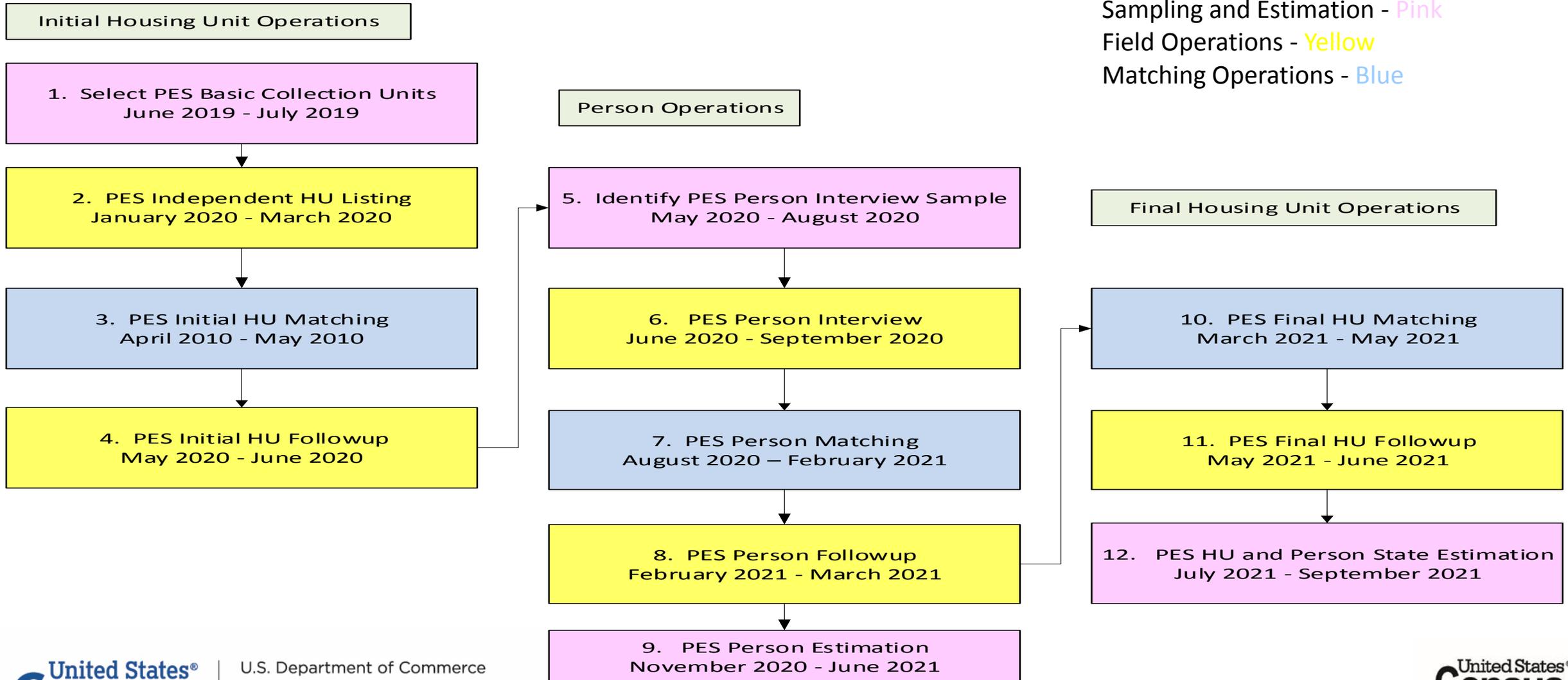
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Plans for the 2020 PES

- Began planning for PES in January 2016
- Decided to leverage expertise of household survey infrastructure for the PES field operations in fall of 2017
- 2020 PES design
 - Similar to the design of the 2010 Census Coverage Measurement Survey
 - Similar analyses and estimates as the 2010 Post-Enumeration Survey

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2020 PES-Flow and Dates of Major Operations



Sampling and Estimation - Pink
 Field Operations - Yellow
 Matching Operations - Blue

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2020 PES-Core Systems

- Demographic Survey System (DSS)
 - Supports field operations and initial sample selection
- PES Clerical Matching and Map Update (PES CMMU)
 - Supports clerical matching and geocoding
- PES Processing and Control System (PES PCS)
 - Supports sampling, computer matching, data processing
- PES Imputation and Estimation (PES I&E)
 - Supports imputation, weighting, and modeling

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Expected Sample Size

- First sample
 - Select 10,050 blocks in 50 states and District of Columbia
 - Select 400 blocks in Puerto Rico
- PES recapture listing
 - 541,000 housing units in 50 states and District of Columbia
 - 24,000 housing units in Puerto Rico
- After subsampling
 - 180,000 housing units in 50 states and District of Columbia
 - 8,000 housing units in Puerto Rico

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Tentative Schedule

- June 2021
 - National estimates of net coverage of people
 - National estimates of components of coverage for people
- September 2021
 - State estimates of net coverage for people
 - State estimates of components of coverage for people
 - All housing unit coverage estimates

QUESTIONS?