

2020 Census

National Urban League Update

August 23, 2022

Speakers



HOST

Michael C. Cook, Sr.,
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Assistant Division Chief for
Statistical Methods, Decennial
Statistical Studies Division,
U.S. Census Bureau

Overview

2020 Census Coverage Estimates From
the Post-Enumeration Survey

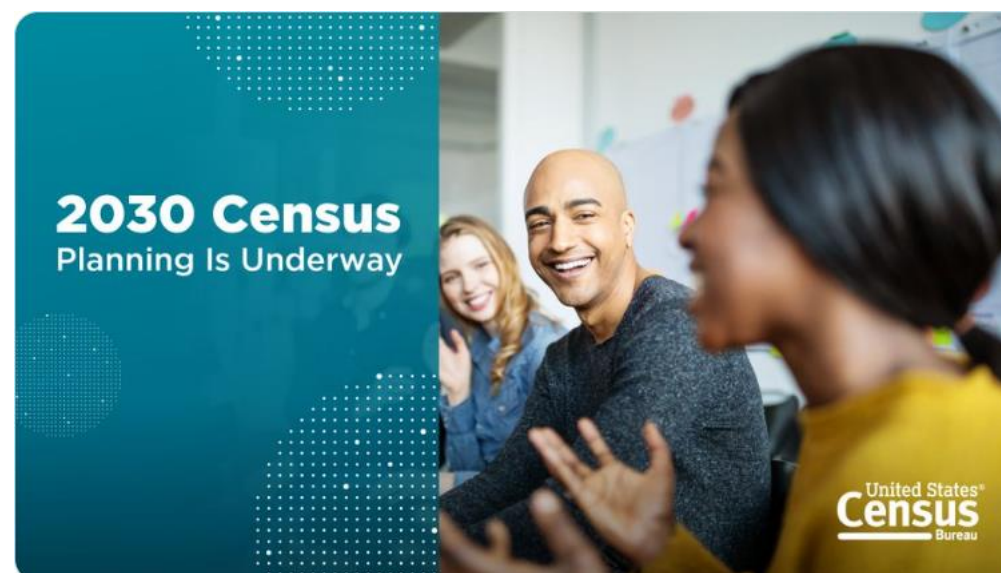
- **Recap of Previous National Urban League Briefings**
 - July 6, 2021 – Status updates, Post Data Collection Processing, Disclosure Avoidance Systems
 - October 15, 2021 – Status updates, detailed review of three separate data quality releases.
 - March 29, 2022 – First Post-Enumeration Survey results and details from Demographic Analysis
- **Census Bureau Invites Public Input on Designing 2030 Census**
 - August 17, 2022 – Federal Register Notice Published
 - 90-day response window
 - November 15, 2022 – Deadline to submit input

Census Bureau Invites Public Input on Designing 2030 Census

For the first time, the public can formally give input on planning and designing the next census.

The Census Bureau issued a Federal Register Notice asking the public to submit ideas and recommendations for the planning of the 2030 Census on these topics:

- ✓ Reaching and Motivating Everyone
- ✓ Technology
- ✓ New Data Sources
- ✓ Contacting the Public
- ✓ Providing Public Support



Overview

2020 Census Coverage Estimates From
the Post-Enumeration Survey

- **Today's Presentation**

- Additional Post-Enumeration Survey (PES) results
 - 2020 Census estimated undercount and overcount rates of people for the 50 states, the District of Columbia, and Puerto Rico
 - Coverage rates by census operation
 - Coverage rates of Housing Units for the 50 states, the District of Columbia, and Puerto Rico

- **Today's Speaker**

- **Tim Kennel** – Assistant Division Chief for Statistical Methods, Decennial Statistical Studies Division

2020 Census

Data Quality Results

Post-Enumeration Survey

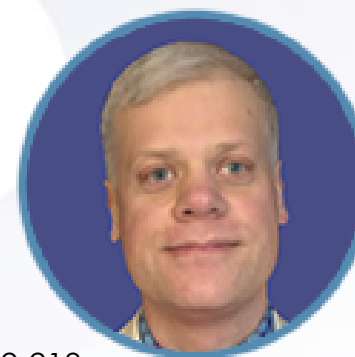
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2020 Census Coverage Estimates From the Post-Enumeration Survey

Timothy Kennel

Assistant Division Chief for Statistical Methods,
Decennial Statistical Studies Division



The data in this presentation have been cleared for release under DRB Numbers: CBDRB-FY22-218, CBDRB-FY22-216, CBDRB-FY22-244, CBDRB-FY22-350, and CBDRB-FY22-351

August 23, 2022

Outline

1. Overview of the Post-Enumeration Survey.
2. Census Coverage of People by State.
3. Census Coverage of People by Operations.
4. Census Coverage of People in Puerto Rico.
5. Census Coverage of Housing Units.
6. Census Coverage of Housing Units in Puerto Rico.

2020 Census Coverage Results From the
Post-Enumeration Survey

Overview of the Post-Enumeration Survey

August 23, 2022

What is the PES?

Goal

- To measure coverage of people and housing units in the decennial census
- To measure net coverage error and components of coverage
- No intent to adjust the census counts

How are the data used?

- To assess the success of the current census
- To provide information to improve the coverage of future censuses

How is coverage estimated?

- Conduct a survey in 10,000 sample blocks— independently of the census
- Match people in the PES independent survey to enumerations in the census to determine who was missed or counted in error

History

- Used in the United States census with different designs and formats since 1950

Universe for Person Estimates

	2020 Demographic Analysis (middle series)	2020 Post-Enumeration Survey
Includes household population	Yes	Yes
Includes people living in group quarters (such as college dorms, nursing homes, prisons, ...)	Yes	No
Includes people living in Remote Alaska areas	Yes	No
Census count	331,400,000	323,200,000
Estimated population size	332,600,000	323,900,000

Totals rounded to the nearest 100,000.

2020 Census Coverage Results From the
Post-Enumeration Survey

Census Coverage Estimates of People by State

August 23, 2022

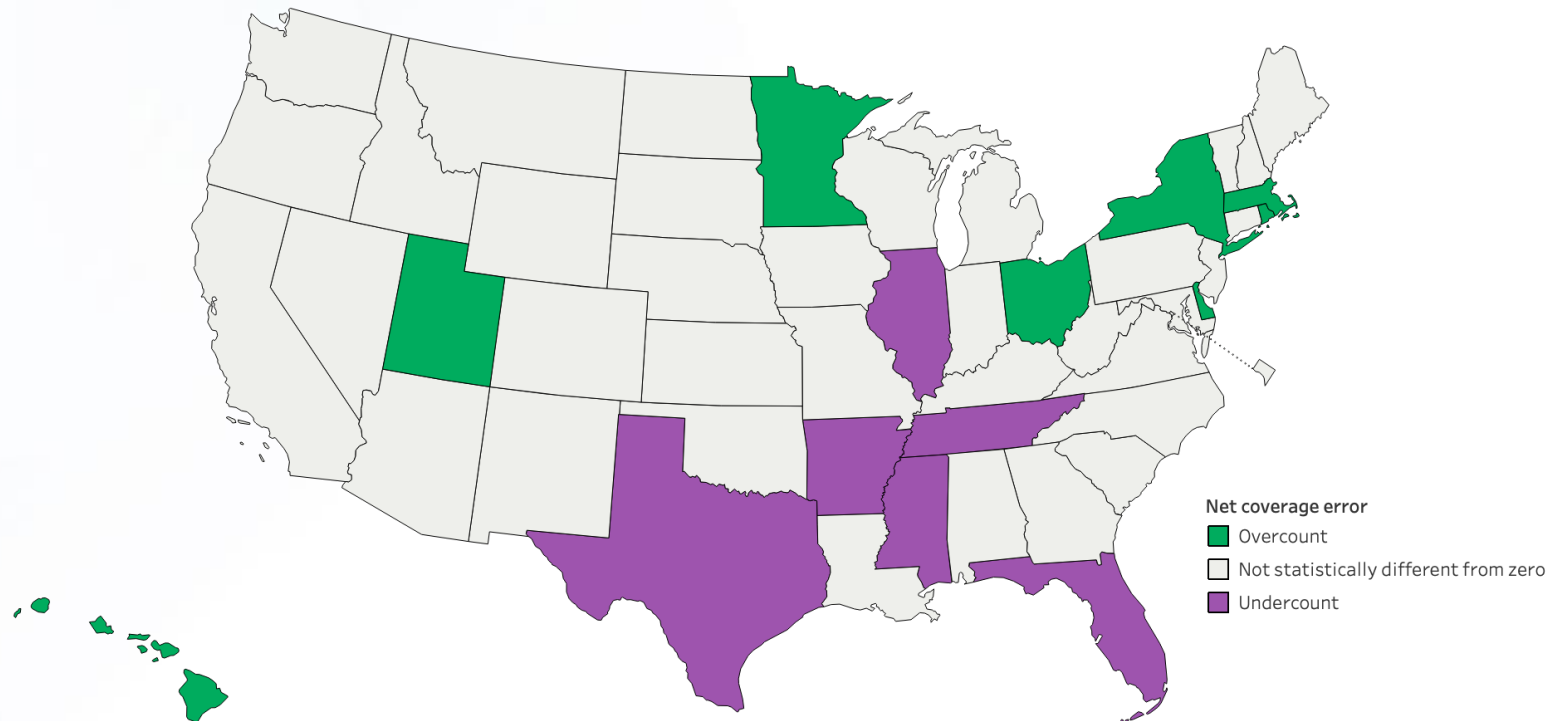
Key Findings for States

- **36 states and Washington, DC, did not have a statistically significant undercount or overcount.**
- **Eight states had a statistically significant overcount.**
- **Six states had a statistically significant undercount.**

*Note: While the Post-Enumeration Survey (PES) can measure estimated undercounts and overcounts in the census, it cannot answer **why** a particular state experienced one.*

2020 Post-Enumeration Survey ⁱ

Census count for Post-Enumeration Survey universe: 323,200,000
Net coverage error estimate (%): -0.24
90 percent confidence interval: (-0.65, 0.17)



Note: Post-Enumeration Survey (PES) estimates are subject to sampling and nonsampling errors. The PES universe does not include people living in group quarters. More information regarding data collection, definitions, sampling error, nonsampling error, and estimation methodology is available at the [Post-Enumeration Surveys](#) site.

States With an Undercount or Overcount

Undercount

State	Net coverage error rate	
	Rate	90 percent confidence interval
Arkansas	-5.04	-8.68 to -1.40
Florida	-3.48	-4.98 to -1.98
Illinois	-1.97	-3.43 to -0.51
Mississippi	-4.11	-6.79 to -1.43
Tennessee	-4.78	-7.26 to -2.30
Texas	-1.92	-3.27 to -0.57

Overcount

State	Net coverage error rate	
	Rate	90 percent confidence interval
Delaware	5.45	0.81 to 10.09
Hawaii	6.79	4.03 to 9.55
Massachusetts	2.24	0.50 to 3.98
Minnesota	3.84	2.24 to 5.44
New York	3.44	1.89 to 4.99
Ohio	1.49	0.39 to 2.59
Rhode Island	5.05	2.70 to 7.40
Utah	2.59	0.57 to 4.61

2020 Census Coverage Estimates From the
Post-Enumeration Survey

Census Coverage Estimates by Census Operations

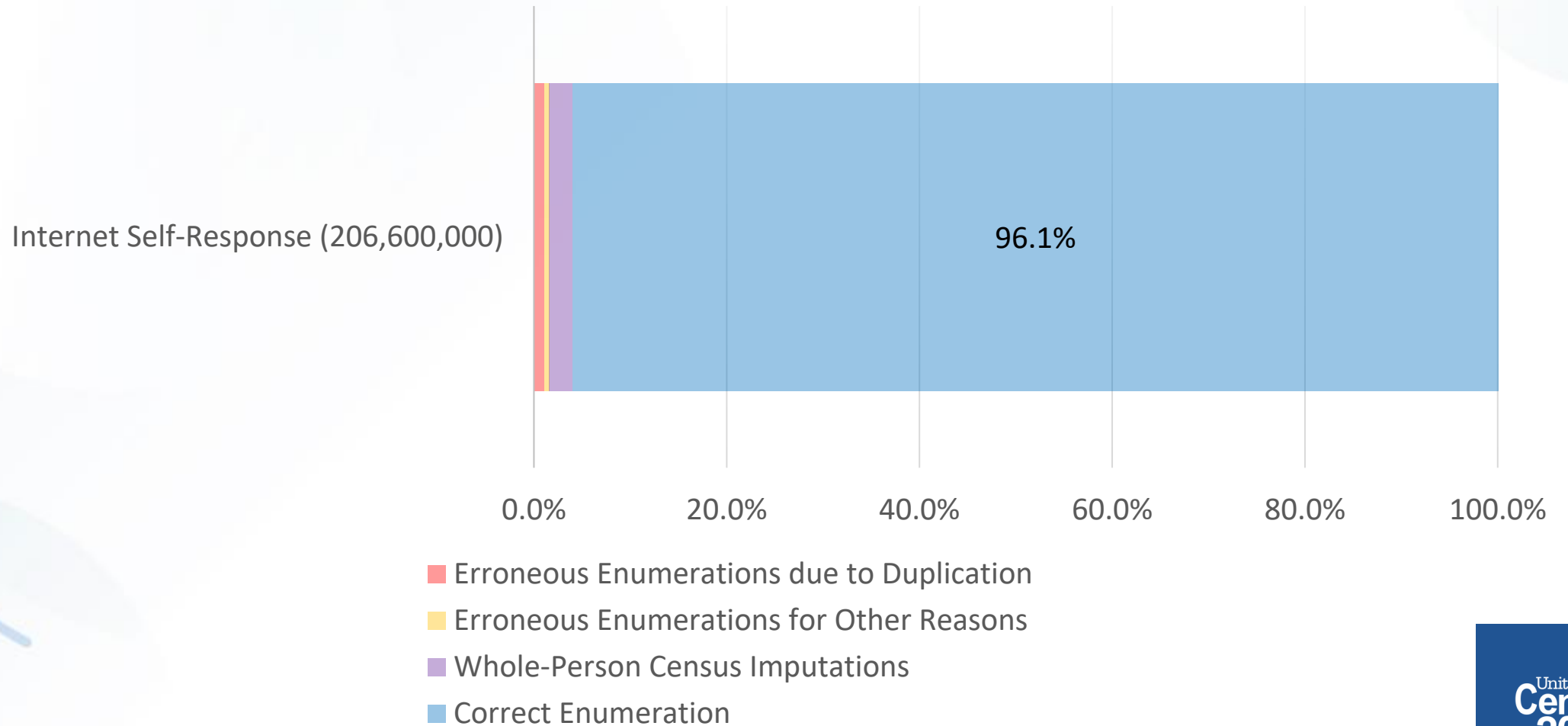
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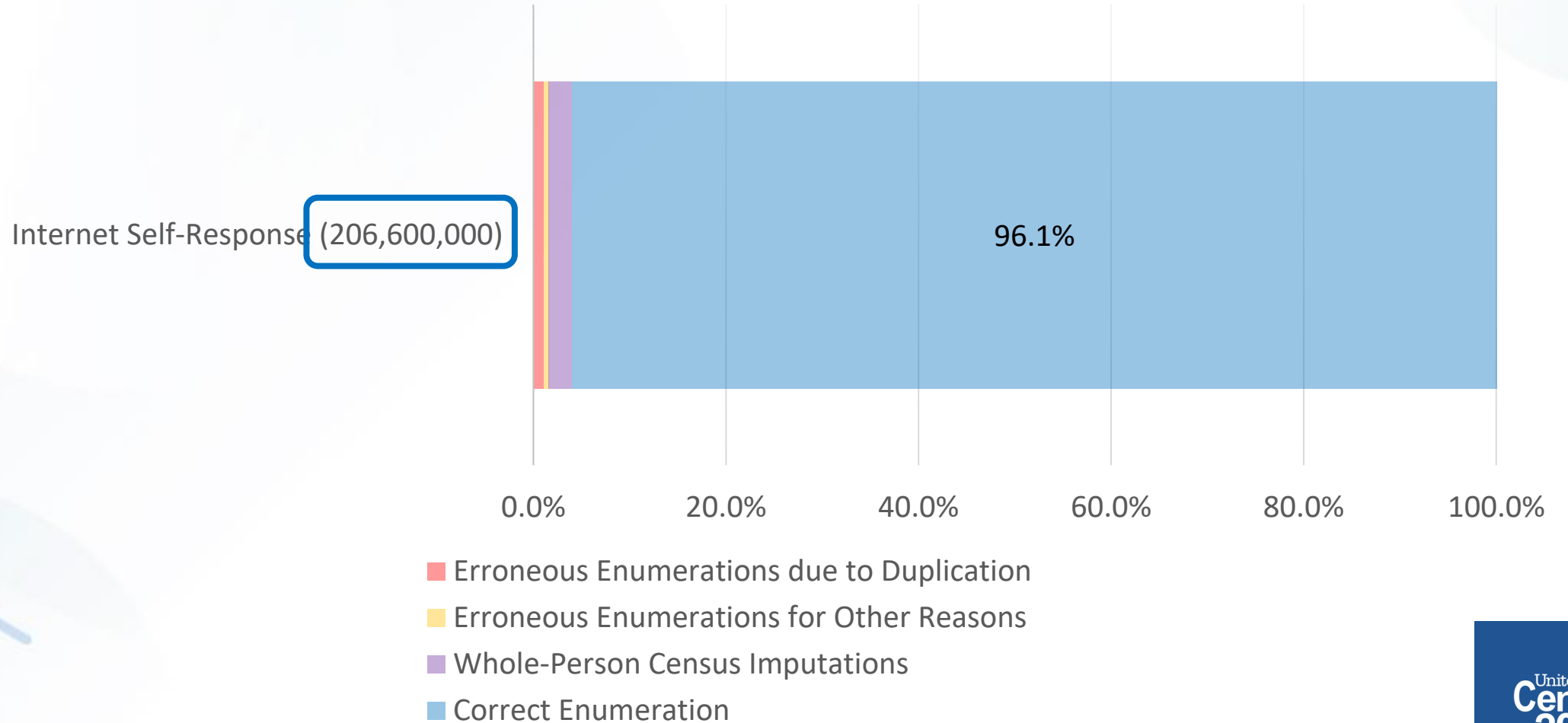
Correct enumeration rates:

- **96.1% Internet self-response.**

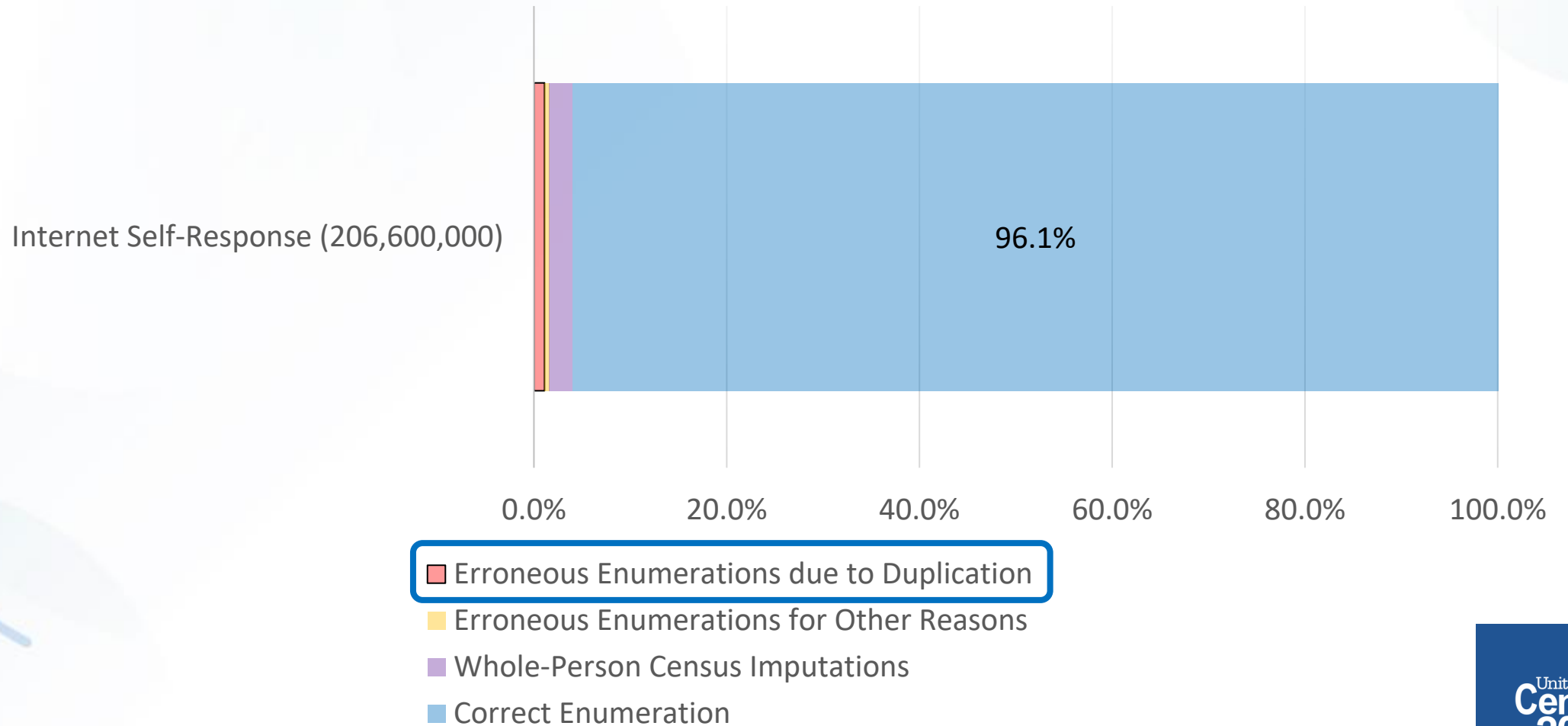
Internet Self-Response: Components of Census Coverage



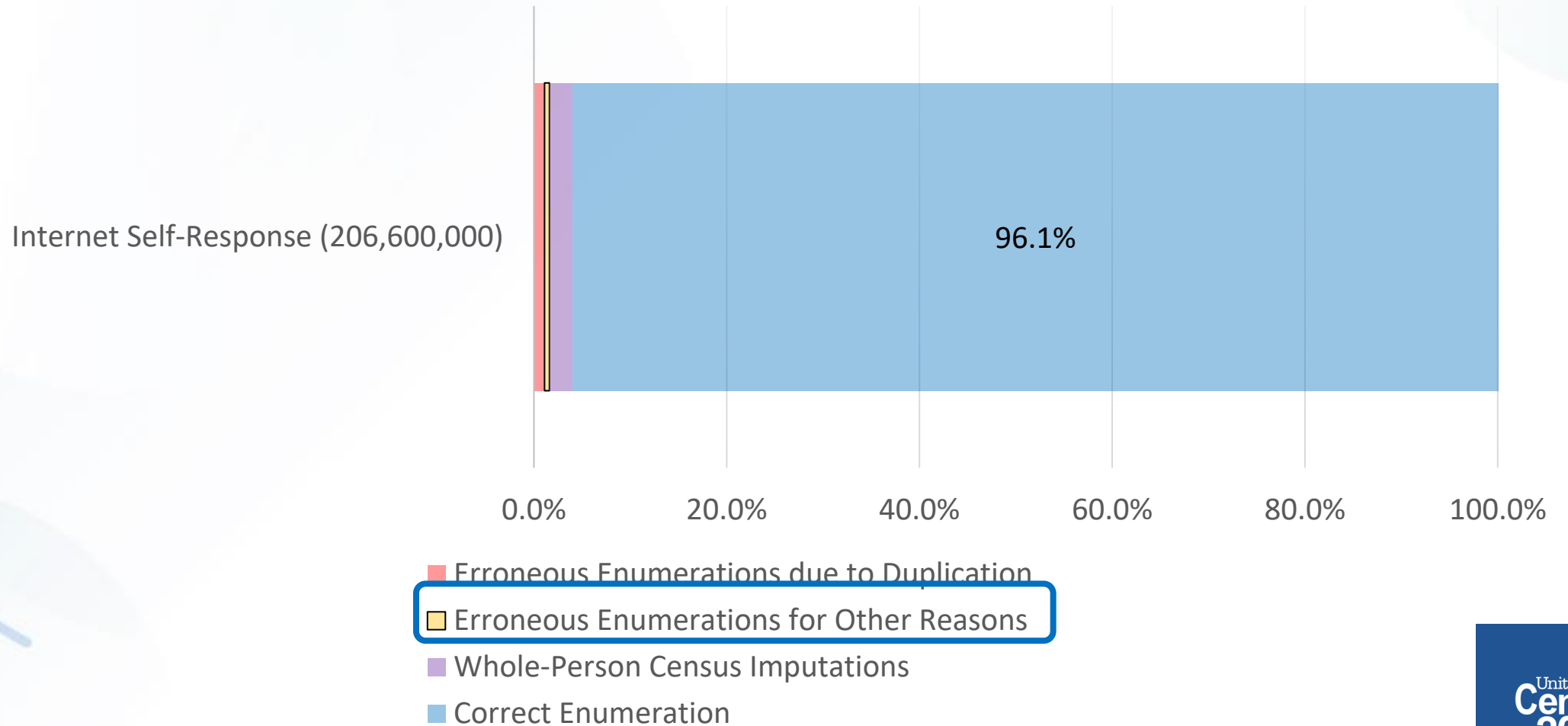
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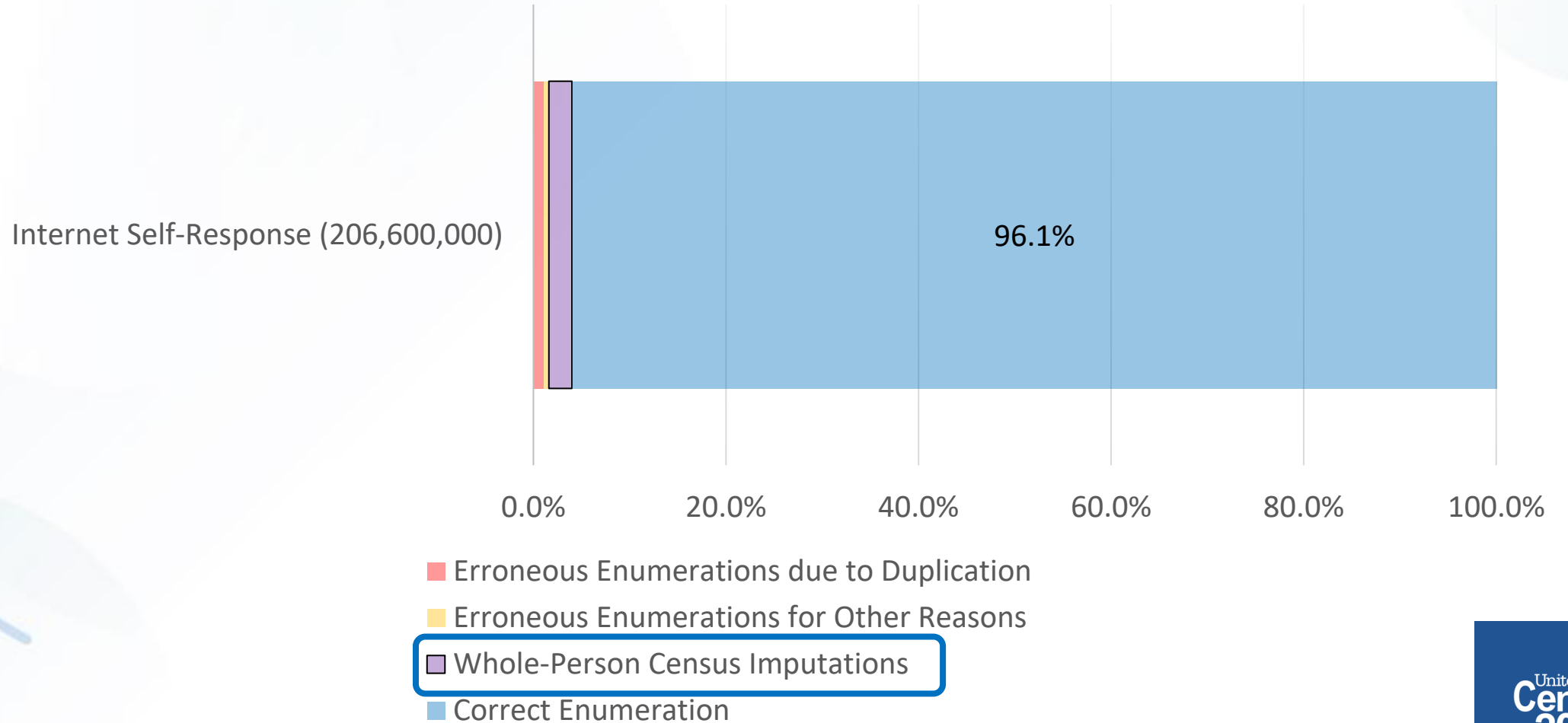
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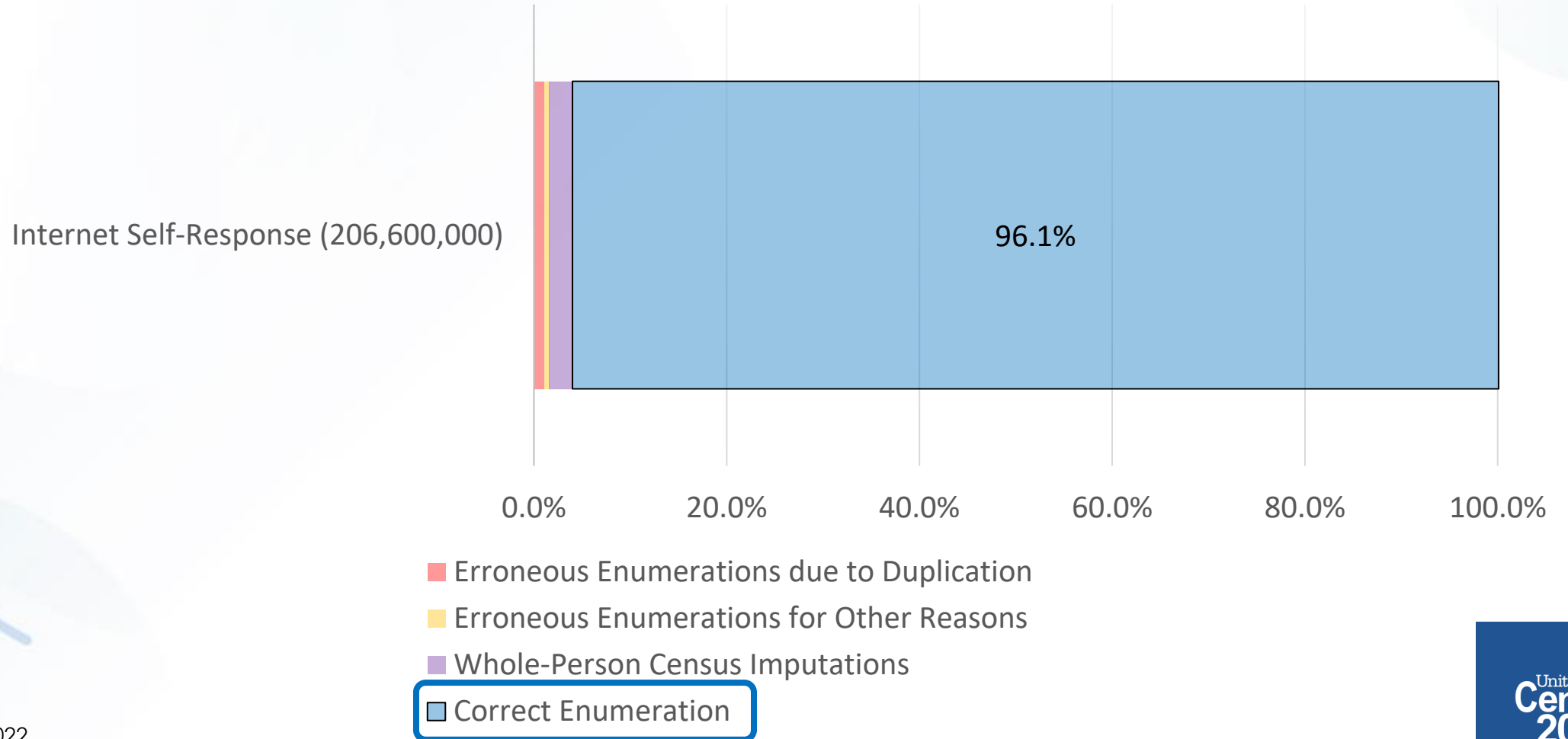
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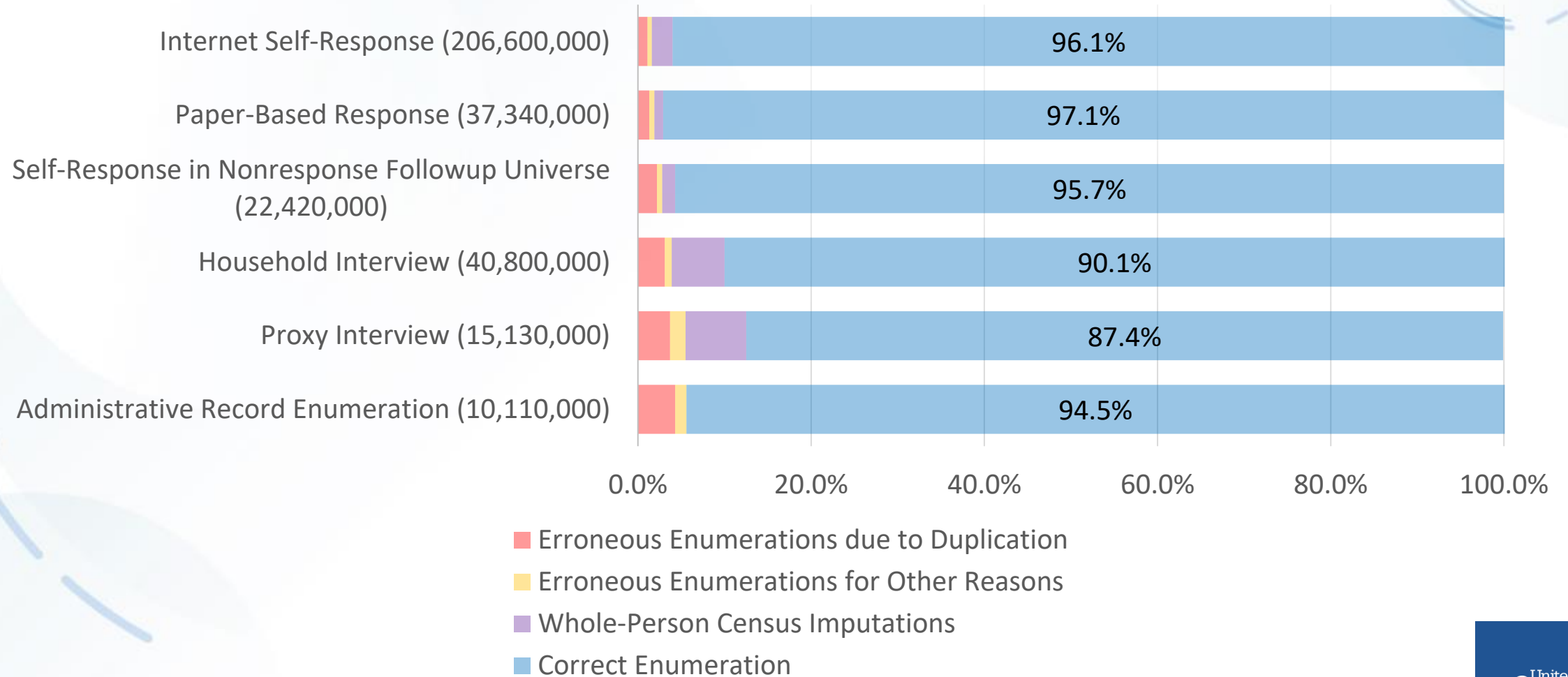
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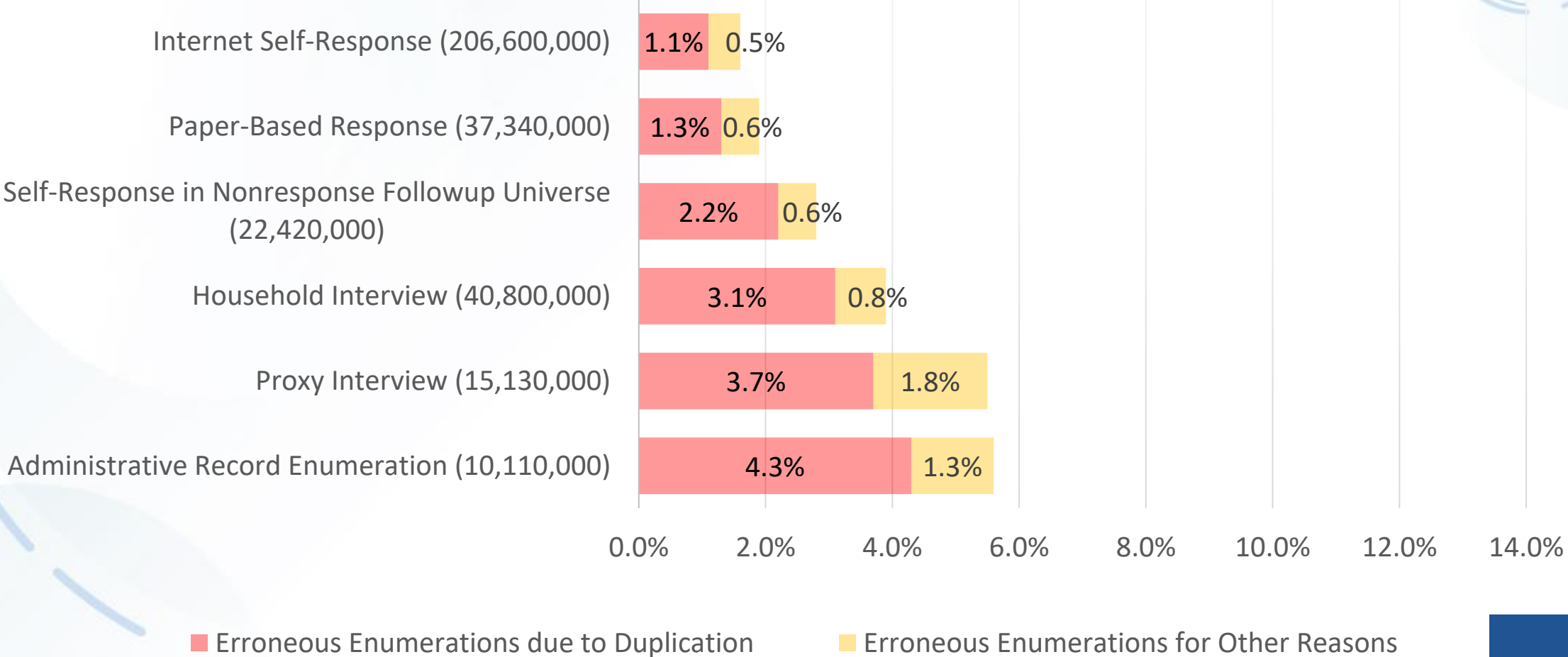
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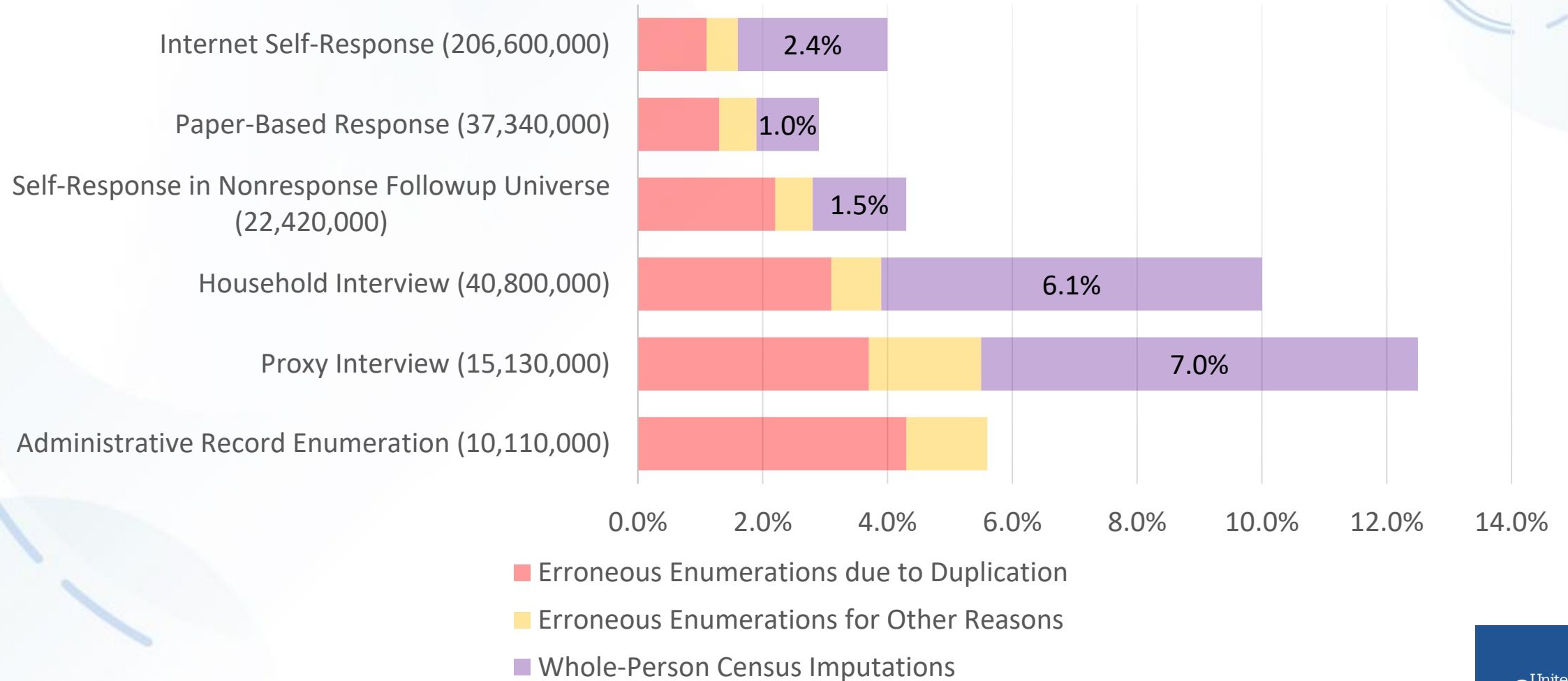
Enumeration Mode



Enumeration Mode



Enumeration Mode



Summary

- **States**
 - **36 states and the District of Columbia did not have a statistically significant undercount or overcount.**
 - **Eight states had a statistically significant overcount.**
 - **Six states had a statistically significant undercount.**
- **Internet self-response had a correct enumeration rate of 96.1 percent.**

Note: More graphs and tables can be found in the PES report.

2020 Census Coverage Estimates From the
Post-Enumeration Survey

Census Coverage of People in Puerto Rico

Highlights of 2020 Census Coverage of People in Puerto Rico

2020 Census Coverage Estimates From
the Post-Enumeration Survey

- The PES estimated that the 2020 Census **overcounted** the population of Puerto Rico by 174,000. This represents a net coverage error rate of 5.7 percent.
- The PES estimated that the 2020 Census **overcounted** the number of people in **owned** housing units in Puerto Rico.
- The PES estimated statistically significant **overcounts** in Puerto Rico for people **aged 30 years and older**.

Note: More graphs and tables can be found in the PES report.

Puerto Rico Person Coverage Estimates: Components of Coverage

2020 Census Coverage Estimates From
the Post-Enumeration Survey

Component of Census Coverage	Estimate	Standard Error	Percent	Standard Error
Census Count	3,248,000	X	100.0	X
Correct enumerations	2,858,000	18,000	88.0	0.6
Erroneous enumerations	319,000	18,000	9.8	0.6
Due to duplication	294,000	18,000	9.1	0.5
For other reasons	25,000	4,000	0.8	0.1
Whole-Person Census Imputations	71,000	X	2.2	X
Estimate of Housing from the PES	3,075,000	45,000	100.0	X
Correct enumerations	2,858,000	18,000	92.9	1.3
Omissions	217,000	44,000	7.1	1.3
Net Coverage Error	174,000	45,000	5.7	1.5

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Puerto Rico Person Coverage Estimates: Net Coverage Error by Tenure

2020 Census Coverage Estimates From the Post-Enumeration Survey

Owner*

8.6%

Renter

-1.0%

-15%

-10%

-5%

0%

5%

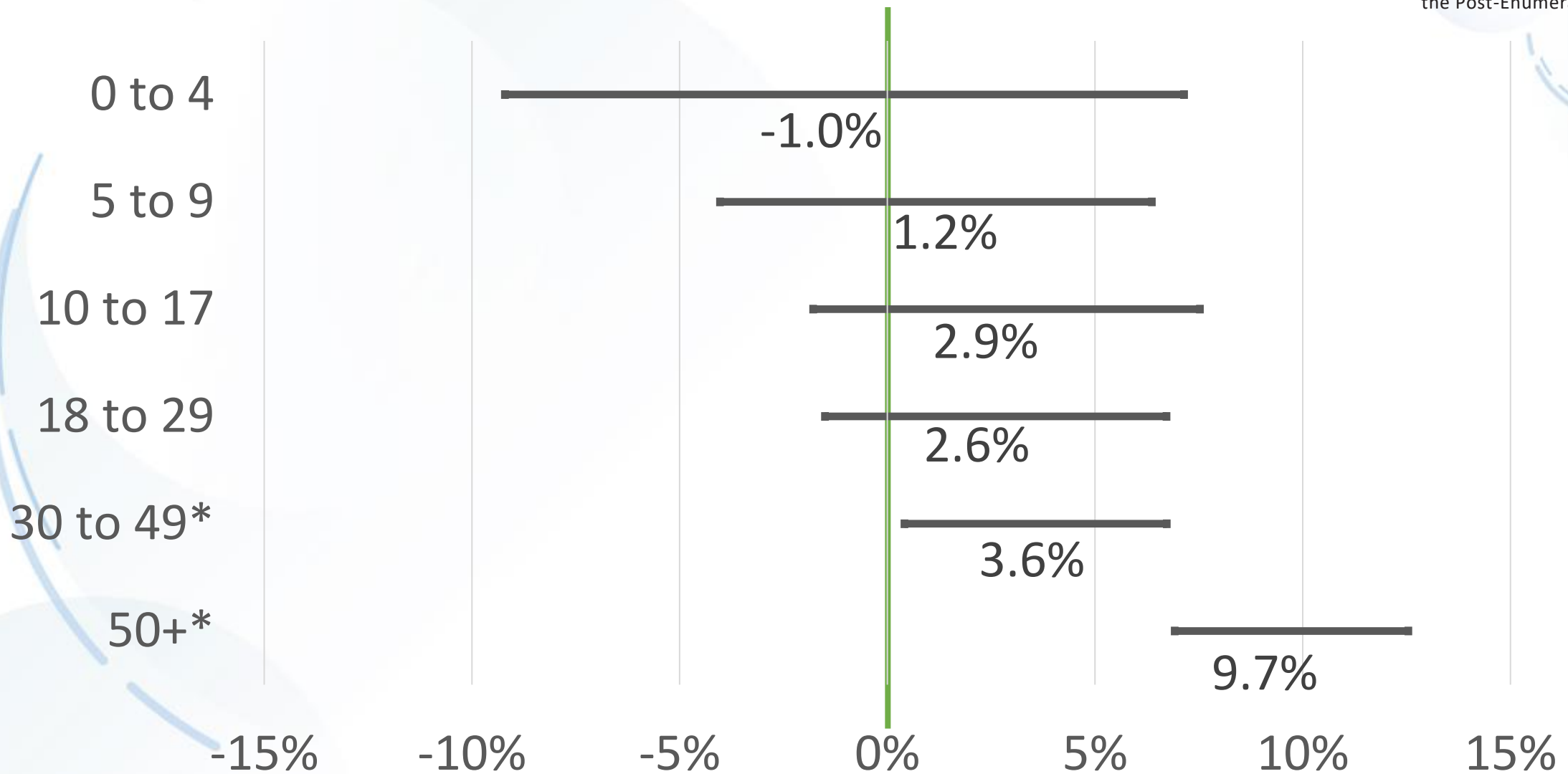
10%

15%

*Net coverage error is statistically significantly different from 0.

Puerto Rico Person Coverage Estimates: Net Coverage Error by Age Group

2020 Census Coverage Estimates From the Post-Enumeration Survey



*Net coverage error is statistically significantly different from 0.

Highlights of Person Coverage in Puerto Rico

2020 Census Coverage Estimates From
the Post-Enumeration Survey

The PES estimated that the 2020 Census housing unit count in Puerto Rico did not have a statistically significant net coverage error.

- The PES estimated that the 2020 Census **overcounted** the population of Puerto Rico by 174,000. This represents a net coverage error rate of 5.7 percent.
- The PES estimated that the 2020 Census **overcounted** the number of people in **owned** housing units in Puerto Rico.
- The PES estimated statistically significant **overcounts** in Puerto Rico for people **aged 30 years and older**.

2020 Census Coverage Estimates From the
Post-Enumeration Survey

2020 Census Coverage Estimates of **Housing Units** in the 50 States and the District of Columbia

August 23, 2022

2020 Census Coverage Highlights for Housing Units in the 50 States and the District of Columbia

- **The PES estimate of housing units for the nation was not statistically different from the 2020 Census housing count.**
- **States**
 - **41 states and the District of Columbia did not have a statistically significant undercount or overcount.**
 - **Seven states had a statistically significant overcount.**
 - **Two states had a statistically significant undercount.**

Note: More graphs and tables can be found in the PES report.

Housing Unit Coverage Estimates

2020 Census Coverage Estimates From
the Post-Enumeration Survey

Component of Census Coverage	Estimate	Standard Error	Percent	Standard Error
Census Count	140,500,000	X	100.0	X
Correct enumerations	136,100,000	165,000	96.9	0.12
Erroneous enumerations	4,397,000	165,000	3.1	0.12
Due to duplication	1,903,000	118,000	1.4	0.08
For other reasons	2,494,000	110,000	1.8	0.08
Estimate of Housing from the PES	140,400,000	291,000	100.0	X
Correct enumerations	136,100,000	165,000	96.9	0.16
Omissions	4,338,000	235,000	3.1	0.16
Net Coverage Error	60,000	291,000	0.04	0.21

Housing Unit Coverage Estimates

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Component of Census Coverage	Estimate	Standard Error	Percent	Standard Error
Census Count	140,500,000	X	100.0	X
Correct enumerations	136,100,000	165,000	96.9	0.12
Erroneous enumerations	4,397,000	165,000	3.1	0.12
Due to duplication	1,903,000	118,000	1.4	0.08
For other reasons	2,494,000	110,000	1.8	0.08
Estimate of Housing from the PES	140,400,000	291,000	100.0	X
Correct enumerations	136,100,000	165,000	96.9	0.16
Omissions	4,338,000	235,000	3.1	0.16
Net Coverage Error	60,000	291,000	0.04	0.21

Housing Unit Coverage Estimates

2020 Census Coverage Estimates From
the Post-Enumeration Survey

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Housing Unit Coverage Estimates: Percent Net Coverage Error by Occupancy

2020 Census Coverage Estimates From
the Post-Enumeration Survey

Year	Occupied	Vacant	Total
2020	0.33	-2.57	0.04
2010	-0.03	-4.80	-0.60
2000	-0.33	-3.37	-0.61
1990	-0.53	-4.71	-0.96

Gray: Net coverage error is not statistically significantly different from 0.

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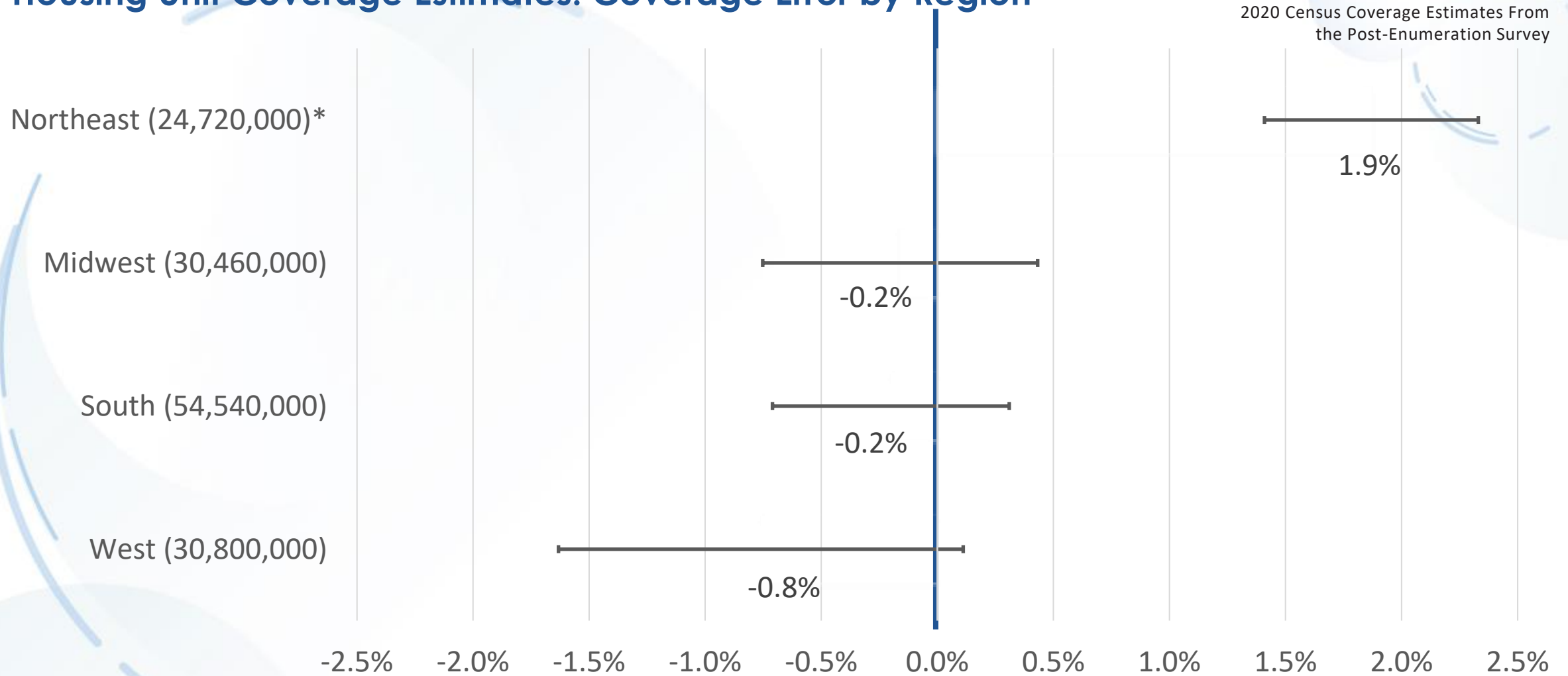
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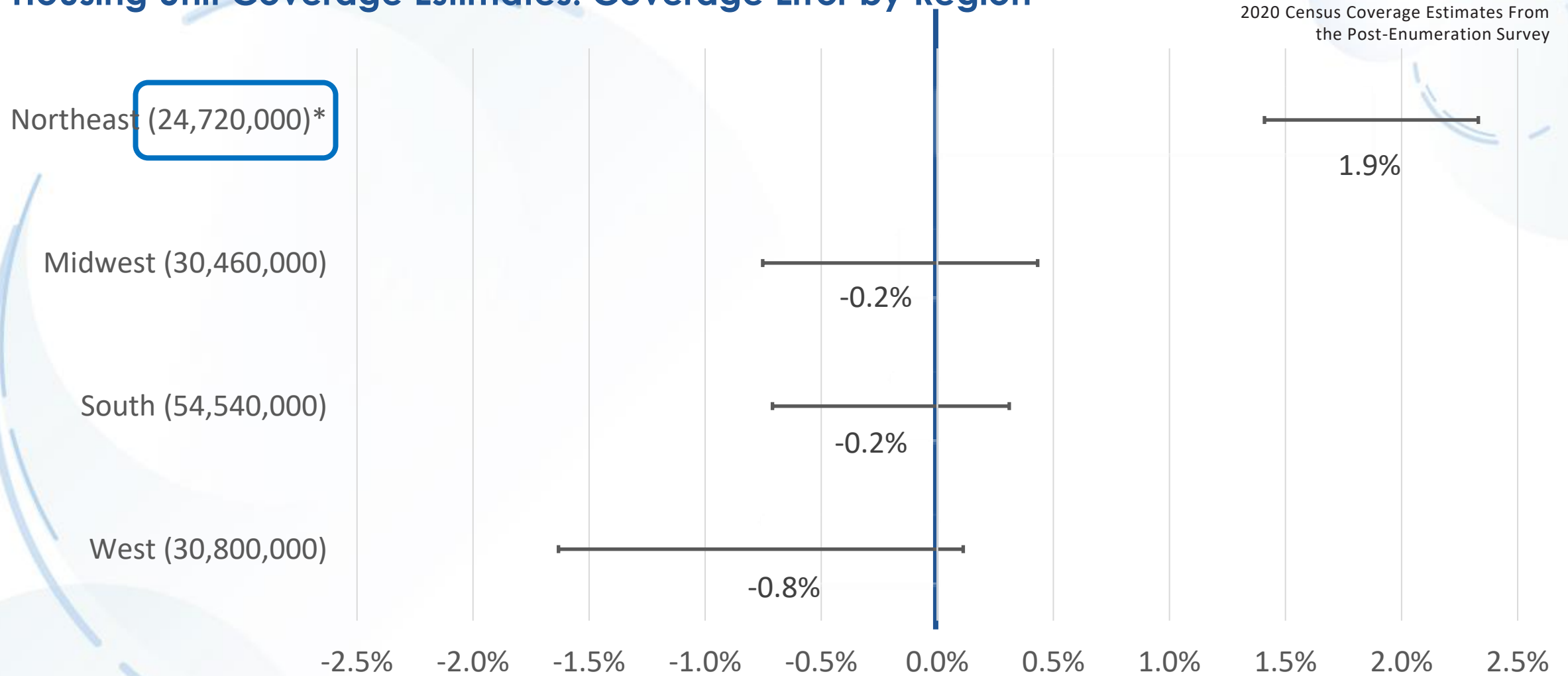
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Housing Unit Coverage Estimates: Coverage Error by Region



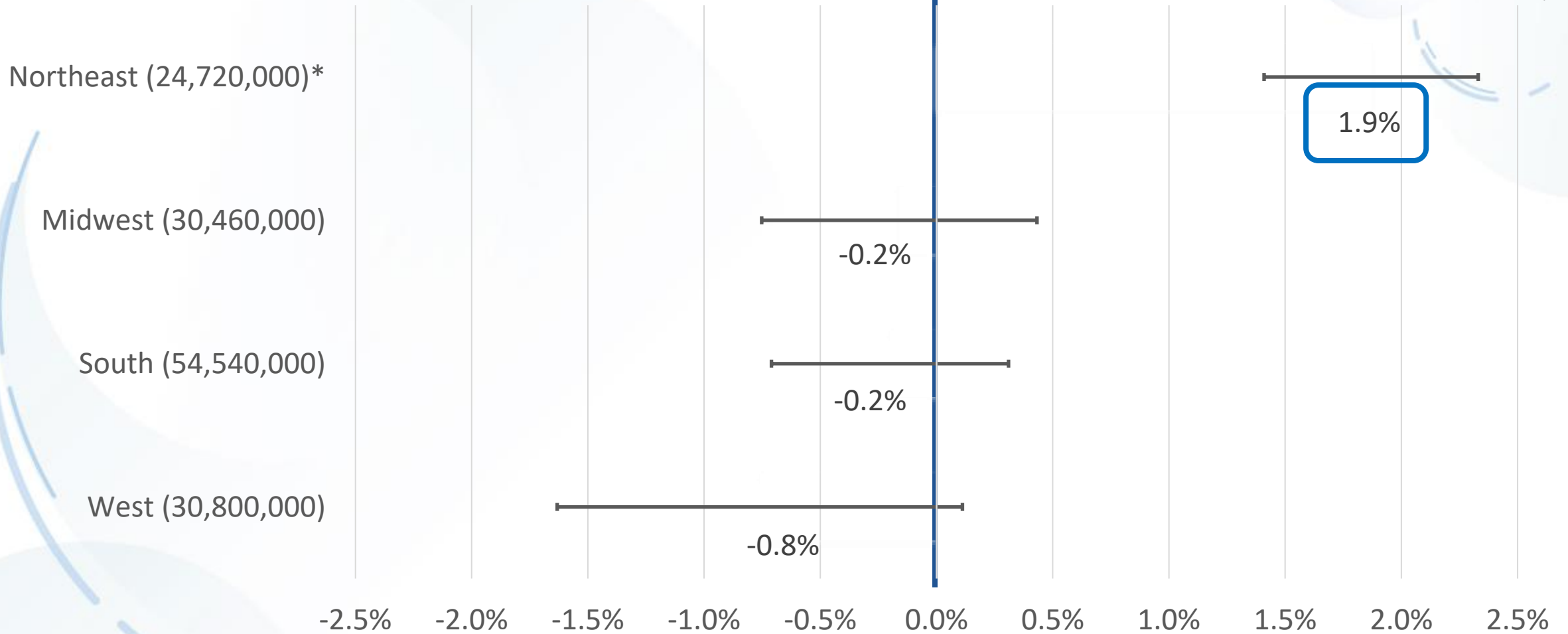
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Housing Unit Coverage Estimates: Coverage Error by Region



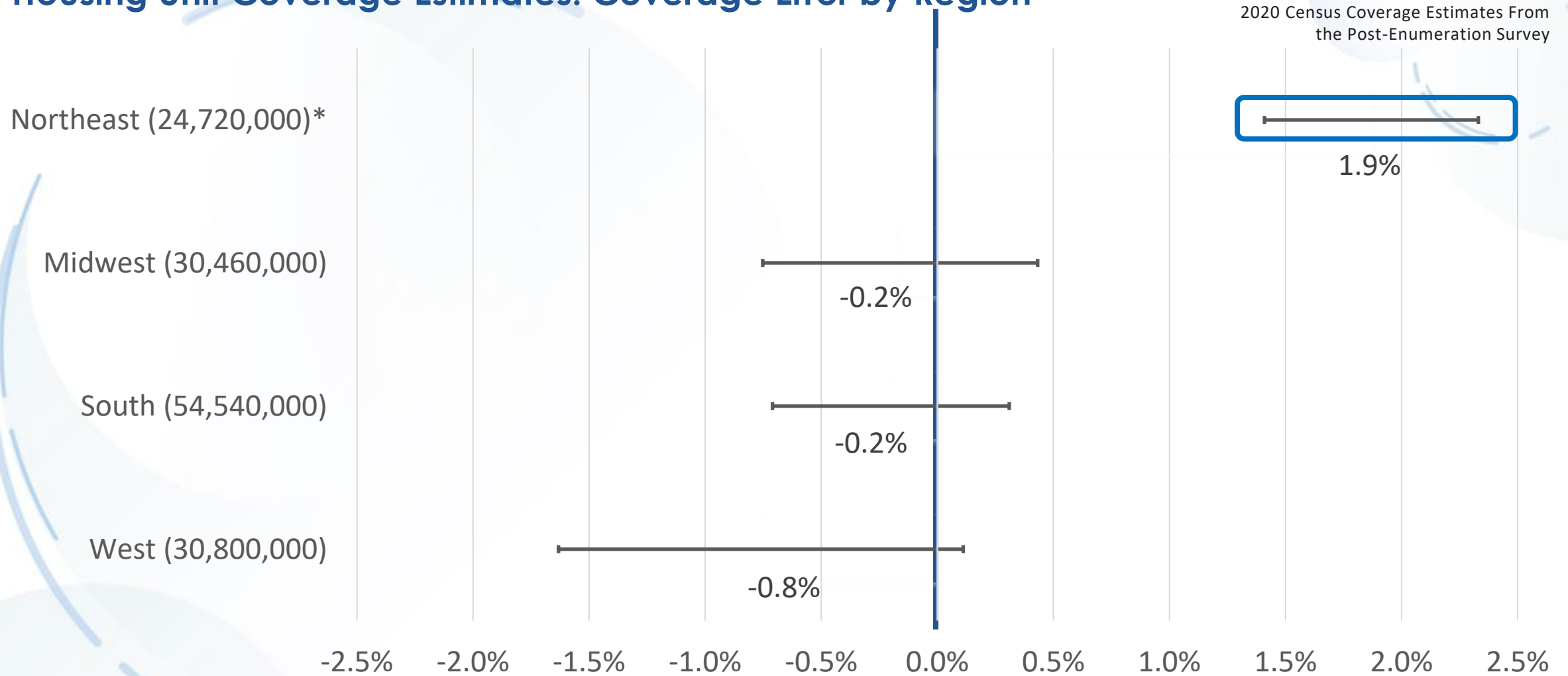
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Housing Unit Coverage Estimates: Coverage Error by Region



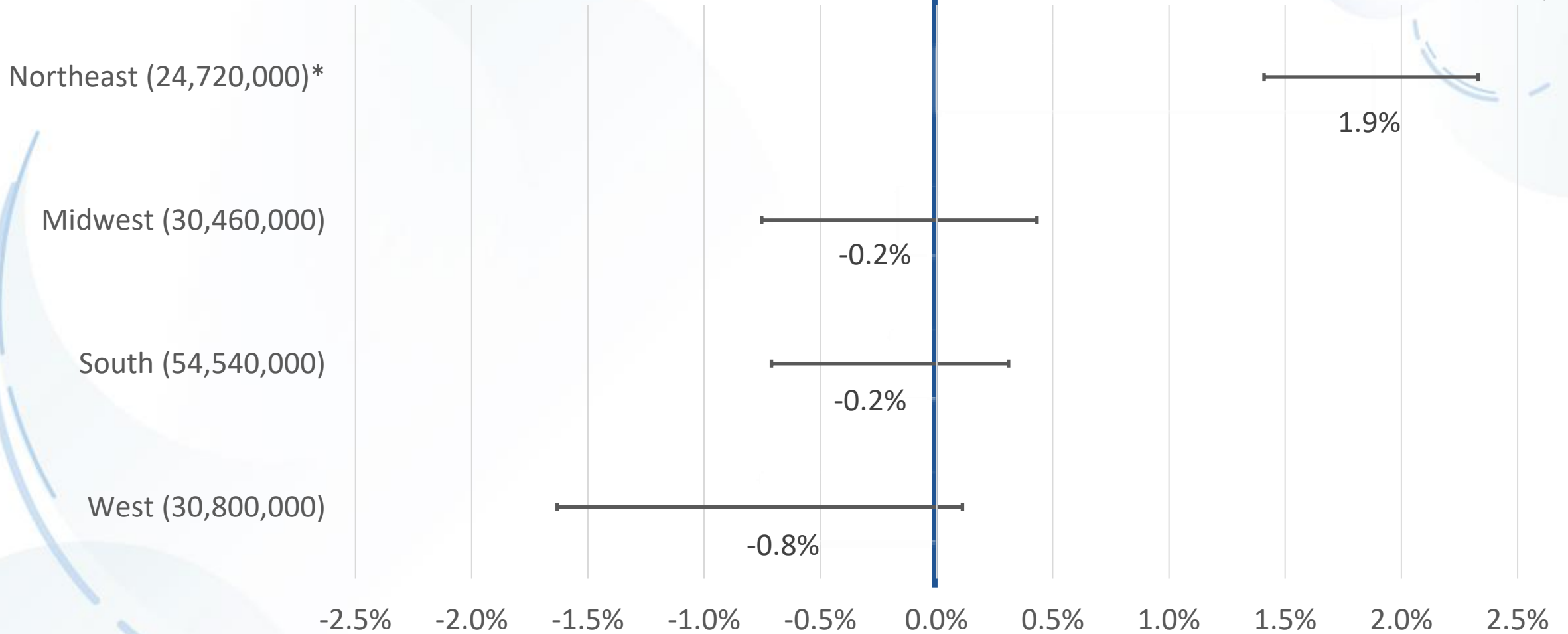
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Housing Unit Coverage Estimates: Coverage Error by Region



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Housing Unit Coverage Estimates: Coverage Error by Region



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Housing Unit Coverage Estimates: States With an Undercount or Overcount

2020 Census Coverage Estimates From
the Post-Enumeration Survey

Undercount

State	Net coverage error rate	
	Rate	90 percent confidence interval
South Carolina	-2.46	(-4.15, -0.77)
Vermont	-4.07	(-7.67, -0.47)

Overcount

State	Net coverage error rate	
	Rate	90 percent confidence interval
Alabama	2.67	(1.22, 4.12)
Massachusetts	1.40	(0.48, 2.32)
New Jersey	2.53	(1.18, 3.88)
New York	3.72	(2.88, 4.56)
Ohio	1.24	(0.50, 1.98)
Rhode Island	1.64	(0.46, 2.82)
Utah	0.76	(0.09, 1.43)

Summary of 2020 Census Housing Unit Coverage in the 50 States and the District of Columbia

- **The PES estimate of housing units for the nation was not statistically different from the 2020 Census housing count.**
- **States**
 - **41 states and the District of Columbia did not have a statistically significant undercount or overcount.**
 - **Seven states had a statistically significant overcount.**
 - **Two states had a statistically significant undercount.**

Note: More graphs and tables can be found in the PES report.

2020 Census Coverage Estimates From the
Post-Enumeration Survey

Census Coverage of Housing Units in Puerto Rico

August 23, 2022

United States[®]
Census
2020

66

2020 Census Housing Unit Coverage Highlights in Puerto Rico

2020 Census Coverage Estimates From
the Post-Enumeration Survey

- The PES estimated that the 2020 Census housing unit count in Puerto Rico did not have a statistically significant net coverage error.

Note: More graphs and tables can be found in the PES report.

Puerto Rico Housing Unit Coverage Estimates

2020 Census Coverage Estimates From
the Post-Enumeration Survey

Component of Census Coverage	Estimate	Standard Error	Percent	Standard Error
Census Count	1,598,000	X	100.0	X
Correct enumerations	1,476,000	12,000	92.4	0.8
Erroneous enumerations	122,000	12,000	7.6	0.8
Due to duplication	77,000	11,000	4.8	0.7
For other reasons	45,000	5,000	2.8	0.3
Estimate of Housing from the PES	1,631,000	30,000	100.0	X
Correct enumerations	1,476,000	12,000	92.4	1.5
Omissions	155,000	28,000	9.5	1.5
Net Coverage Error	-33,000	30,000	-2.02	1.79

Puerto Rico Housing Unit Coverage Estimates

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Puerto Rico Housing Unit Coverage Estimates: Percent Net Coverage Error by Occupancy

2020 Census Coverage Estimates From
the Post-Enumeration Survey

Occupied Unit

-1.3%

Vacant Unit*

-5.8%

-15%

-10%

-5%

0%

5%

10%

15%

*Net coverage error is statistically significantly different from 0.

2020 Census

National Urban League Update

Question Period

August 23, 2022

Q&A

Patrick J. Cantwell,

Chief of the Decennial Statistical Studies Division,
U.S. Census Bureau



Jennifer Reichert,

Chief of the Decennial Census Management Division,
U.S. Census Bureau



Karen Battle,

Chief, Population Division, U.S. Census Bureau

Q&A

Dale Kelly,
Chief of Field Division, U.S. Census Bureau



Deborah Stempowski,
Assistant Director for Decennial Programs, U.S. Census Bureau

Questions?



Dial ***1** for the Operator

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1-800-923-8282 or

301-763-INFO (4636)

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