

**2020 Census**

Data Quality Results

**Post-Enumeration Survey**  
*and* **Demographic Analysis**

News Conference

March 10, 2022

# Speakers

## HOST

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**Michael C. Cook, Sr.,**

Chief, Public Information Office, U.S. Census Bureau



## PRESENTERS

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**Robert L. Santos,**

Director, U.S. Census Bureau



**Erika H. Becker-Medina,**

Chief, Decennial Communications  
Coordination Office, U.S. Census Bureau

# Speakers

## PRESENTERS

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**Eric Jensen,**

Senior Technical Expert for Demographic Analysis,  
Population Division, U.S. Census Bureau



**Timothy Kennel,**

Assistant Division Chief for Statistical Methods,  
Decennial Statistical Studies Division,  
U.S. Census Bureau

# Questions?



Toll-free number:  
**1-888-790-3166**

Participant passcode:  
**2313418**

Dial **\*1 for the Operator**

# Post-Enumeration Survey *and* Demographic Analysis

**Robert Santos**

Director, U.S. Census Bureau



March 10, 2022

Post-Enumeration Survey *and*  
Demographic Analysis

**No census is perfect, and results from the Post-Enumeration Survey and Demographic Analysis offer two additional insights about the quality of the 2020 Census.**

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**2020**

Post-Enumeration Survey *and*  
Demographic Analysis

**The quality of the 2020 Census total population count is robust and consistent with that of recent censuses.**

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Post-Enumeration Survey *and*  
Demographic Analysis

**The 2020 Census undercounted many of the same population groups we have historically undercounted, and it overcounted others.**

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**2020**



## Post-Enumeration Survey and Demographic Analysis

- **Undercounted:** The Black population, the Hispanic or Latino population, the American Indian and Alaska Native population living on reservations, and the population group that reported being of Some Other Race.
- **Overcounted:** The non-Hispanic White alone population and the Asian population.
- **Neither an overcount nor an undercount:** The Native Hawaiian and Other Pacific Islander population.

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Post-Enumeration Survey *and*  
Demographic Analysis

**The 2020 Census undercounted children,  
especially young children ages 0 to 4.**

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Post-Enumeration Survey *and*  
Demographic Analysis

**The 2020 Census data are fit for many uses; additional research is coming this summer to further inform its strengths and limitations.**

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**2020**

# Post-Enumeration Survey and Demographic Analysis

**Erika H. Becker-Medina**

Chief, Decennial Communications  
Coordination Office, U.S. Census Bureau



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# 2020 Census Challenges

- **COVID-19 pandemic.**
  - The historic pandemic led to stay-at-home orders that forced us to temporarily cease all in-person field operations to ensure the safety of our employees and the public.
- **Pandemic-related delays compounded other challenges.**
  - Hurricanes during peak field operations (census activities are normally complete by peak hurricane season).
- **Wildfires and associated dangerous air quality issues.**

**These challenges also impacted the public's ability and willingness to respond to the 2020 Census.**

# 2020 Census Adaptations

**To adapt, we provided additional opportunities for everyone to respond, including:**

- Extended data collection by 2.5 months.
- Deployed staff to places in low-responding areas.
- Phoned nonresponding households encouraging them to respond.
- Expanded outreach through our more than 400,000 national and local partners and through national advertising.
- Increased call center capacity to permit callbacks when sufficient operators were not available.
- Sent teams of skilled census takers from other parts of the country closer to finishing to areas lagging after hurricane damage.
- Changed field procedures to minimize necessary in-person contact with the public.
- Provided electronic response options for group quarters facilities, such as nursing homes and detention centers.
- Developed text-based outreach to nonresponding households.
- Mailed additional questionnaires to nonresponding households.
- Emailed households in low-responding areas.

# 2020 Census Data Collection

- **65% of the nation's households responded on their own.**
  - Final self-response rate of 65%, exceeding the final 61% self-response rate for the 2010 Census.
- **Of those households that responded on their own, 4 in 5 did so online.**



**We did not experience a single minute of downtime or any cyber intrusions for our online response option.**

# Evaluating Quality of the Census

- **The Census Bureau has a long-established commitment to transparency.**
  - We've been sharing information all along to assess the quality of the data.
  - We've communicated our understanding about the quality and fitness for use of the data we collected—sharing what we know, when we know it.
- **We look at how well we conducted the census.**
  - We published operational quality metrics on how we collected the responses.
  - We also asked outside experts to independently review our work.
- **We compare the census results to other ways of measuring the population.**
  - We compare the census results to estimates of the population, such as demographic analysis and our population estimates.
  - We conducted the Post-Enumeration Survey to measure how many people and housing units were missed or counted erroneously in the census.



# Demographic Analysis Estimates of Net Coverage Error for the 2020 Census

**Eric Jensen, Ph.D.**

Senior Technical Expert for Demographic Analysis,  
Population Division, U.S. Census Bureau



March 10, 2022

# What is Demographic Analysis (DA)?

- DA is a method that the Census Bureau uses to evaluate the quality of the decennial census.
- We produced national estimates of the population as of April 1, 2020, by age, sex, DA race categories, and Hispanic origin.
- Estimates are developed using current and historical vital records, data on international migration, and Medicare records.
- The COVID-19 pandemic had a limited impact on the DA population estimates.

# Demographic Analysis Method

**Population**  $\textcircled{=}$  **Births**  $\ominus$  **Deaths**  $\oplus$  **Immigration**  $\ominus$  **Emigration**

- Birth records.
  - The foundation of the DA estimates.
- Death records.
- Data on international migration.
- Medicare enrollment records.

# Demographic Analysis Method *(continued)*

**Net Coverage Error =**

$$\text{(Census Count – DA Estimate) / DA Estimate * 100}$$

- The DA population estimates are treated as the benchmark when calculating the DA net coverage error estimates.

# What has been released?

## 2020 DA Population Estimates

- Released on December 15, 2020.
- Three sets of DA population estimates by age, sex, DA race groups, and Hispanic origin.
  - Low, middle, and high series for each set to measure uncertainty.
  - Components of population change for all three sets and series.

## 2020 DA Net Coverage Error Estimates

- Net coverage error for the total population was released in April 2021 with the Apportionment data.
- Additional net coverage error estimate by select age groups and Hispanic origin released in November 2021 using the Redistricting data.

# What are we releasing?

## Today we are releasing:

- 2020 DA net coverage error estimates.
  - Single year of age and sex.
  - Age groups.
  - Age groups consistent with those released by the Post-Enumeration Survey (PES).

## Later we will release:

- Estimates by race and Hispanic origin.
  - Modified Race File.
- Experimental estimates.
  - More race and Hispanic origin detail.
  - State and county estimates for the population ages 0 to 4.

Demographic Analysis Estimates of  
Net Coverage Error for the 2020 Census

# National Total

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# Census Counts, Demographic Analysis (DA) Estimates of the Resident Population, and Net Coverage Error: April 1, 2020, and April 1, 2010

(Population in thousands. Net coverage error in percent)

Measure	2020 Census	2020 DA series			2010 Census	2010 DA series				
		Low	Middle	High		Low	Low middle	Middle <sup>1</sup>	High middle	High
Population. . . . .	331,449	330,730	332,601	335,514	308,746	305,684	307,415	308,346	310,038	312,713
Net coverage error <sup>2</sup> . .	X	0.22	-0.35	-1.21	X	1.00	0.43	0.13	-0.42	-1.27

X Not applicable.

<sup>1</sup> The 2010 middle estimate comes from the May 2012 revision to the DA estimates. The other 2010 DA estimates were part of the original December 2010 release.

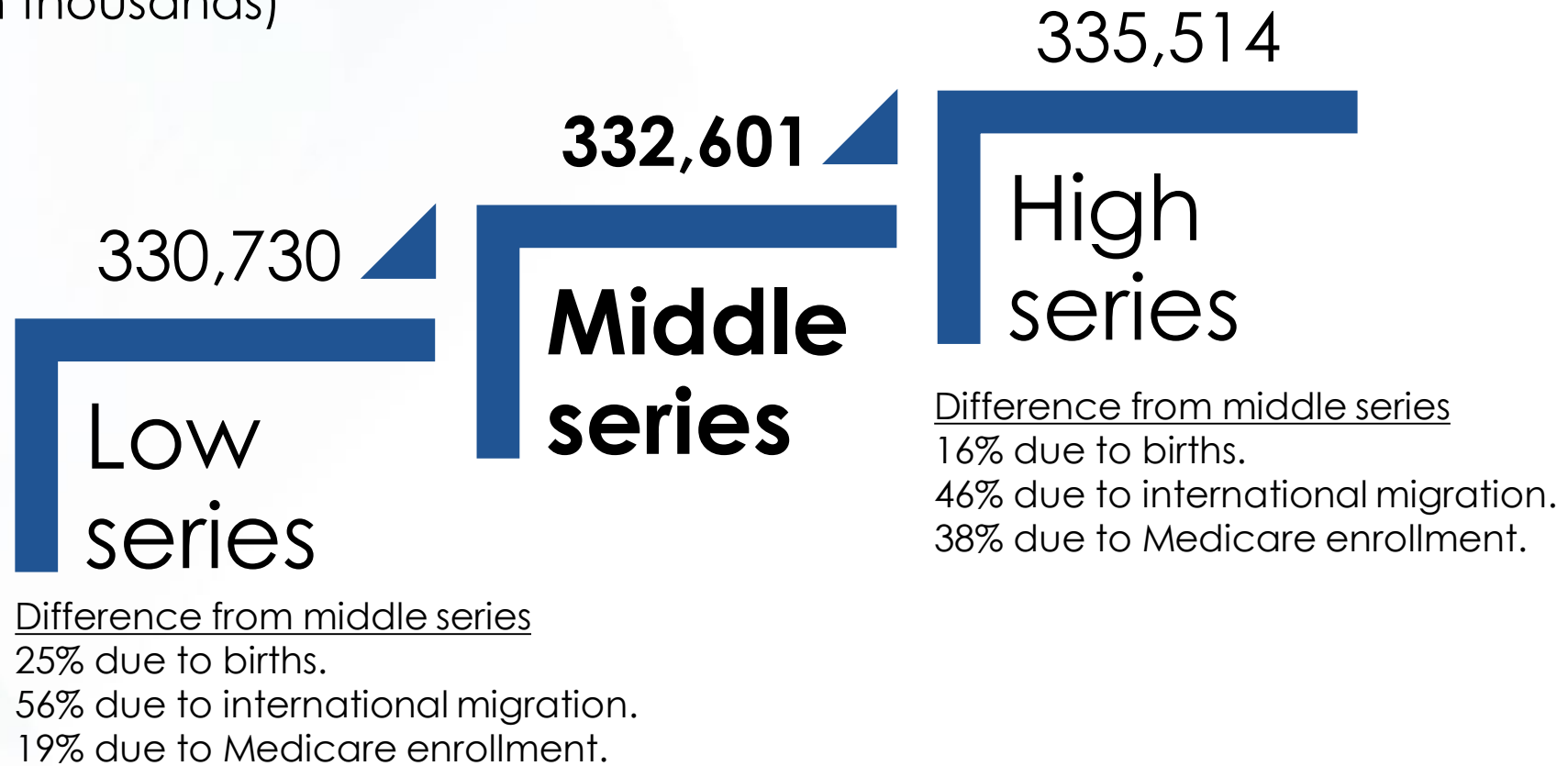
<sup>2</sup> Calculated as (Census count - DA estimate)/DA estimate \* 100.

Source: U.S. Census Bureau, 2020 and 2010 Censuses, and 2020 and 2010 Demographic Analysis.



# Differences in 2020 Demographic Analysis Series by Population Component

(Population in thousands)



Difference from middle series  
25% due to births.  
56% due to international migration.  
19% due to Medicare enrollment.

Difference from middle series  
16% due to births.  
46% due to international migration.  
38% due to Medicare enrollment.

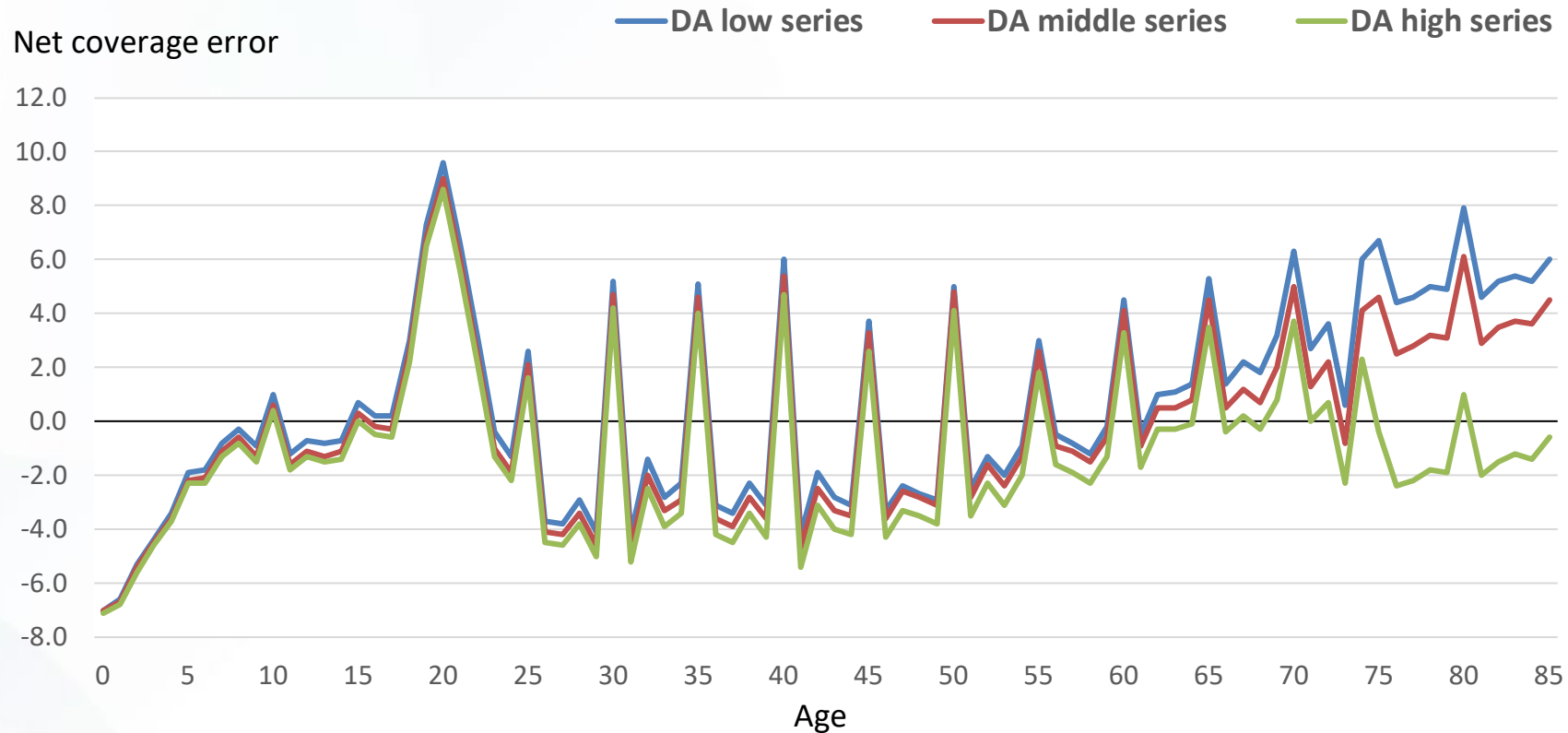
Source: U.S. Census Bureau, 2020 Demographic Analysis (December 2020 release).

Demographic Analysis Estimates of  
Net Coverage Error for the 2020 Census

# Single Year of Age

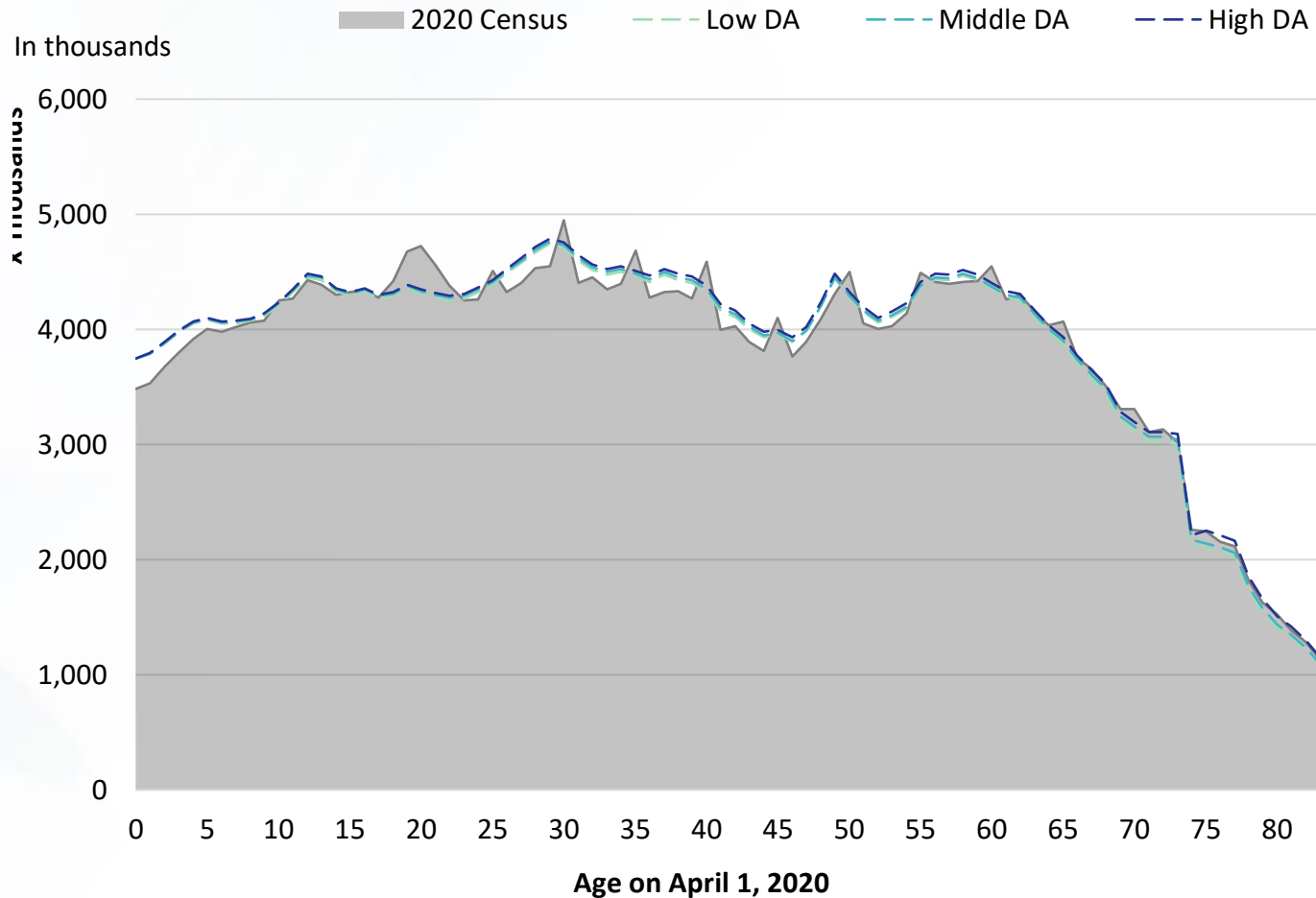
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# 2020 Demographic Analysis (DA) Net Coverage Error Estimates by Single Year of Age and Series: April 1, 2020



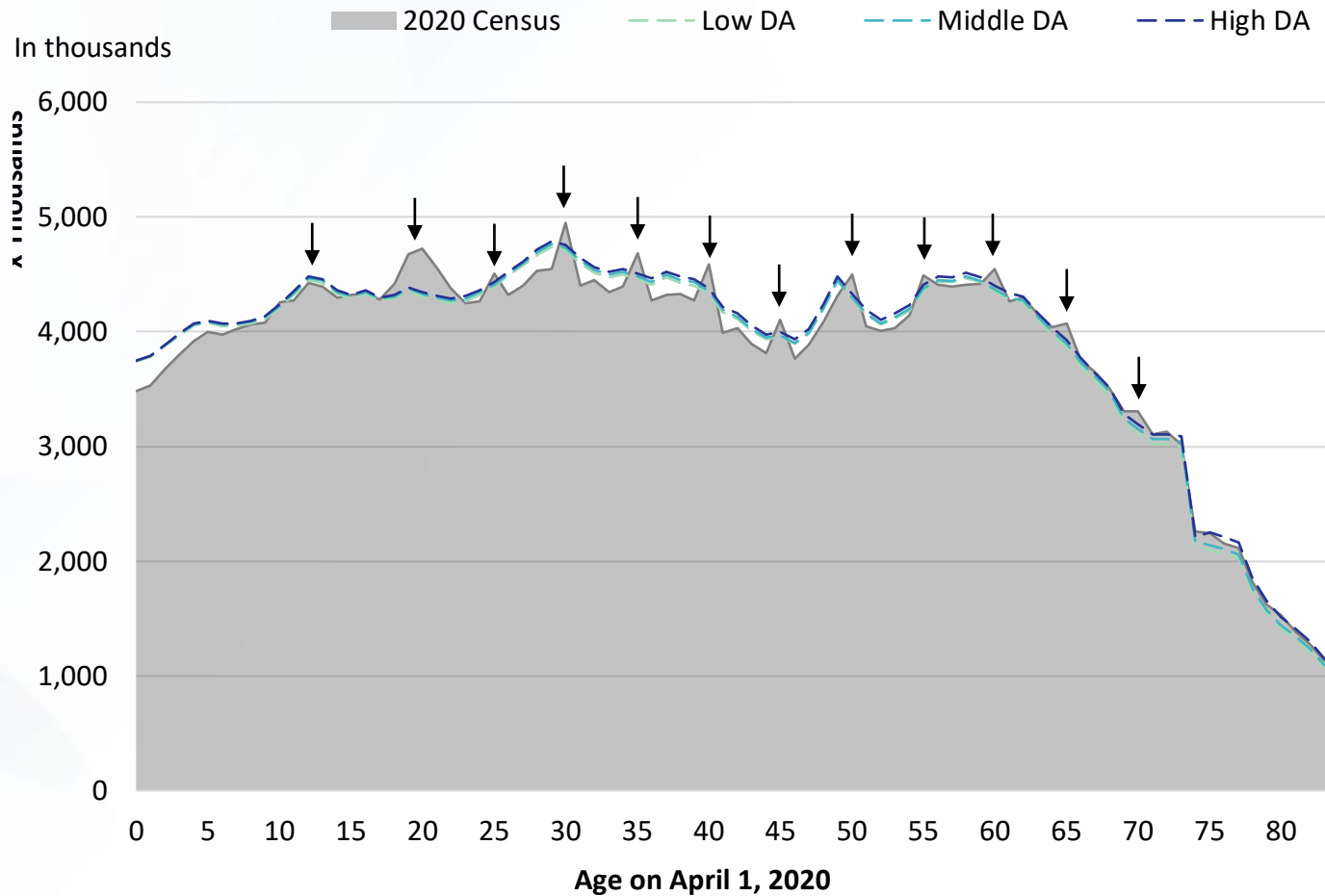
Source: U.S. Census Bureau, Population Division, 2020 Demographic Analysis (December 2020 release), and 2020 Census special tabulation (DRB Approval Number: CBDRB-FY22-DSEP-001).

# Resident Population by Single Year of Age in the 2020 Census and 2020 Demographic Analysis (DA) Estimates



Source: U.S. Census Bureau, Population Division, 2020 Demographic Analysis (December 2020 release), and 2020 Census special tabulation (DRB Approval Number: CBDRB-FY22-DSEP-001).

# Resident Population by Single Year of Age in the 2020 Census and 2020 Demographic Analysis (DA) Estimates



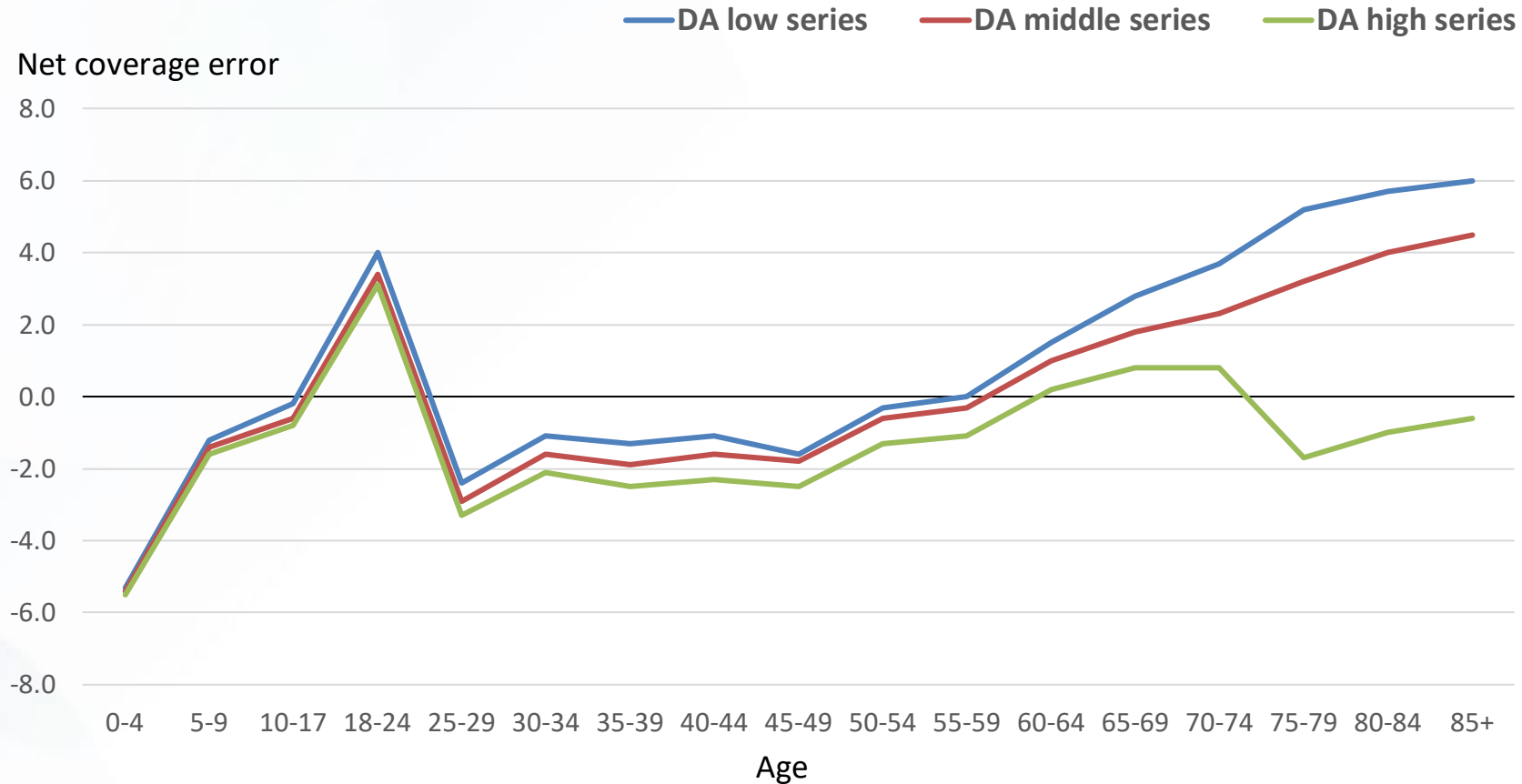
Source: U.S. Census Bureau, Population Division, 2020 Demographic Analysis (December 2020 release), and 2020 Census special tabulation (DRB Approval Number: CBDRB-FY22-DSEP-001).

Demographic Analysis Estimates of  
Net Coverage Error for the 2020 Census

# Age Groups

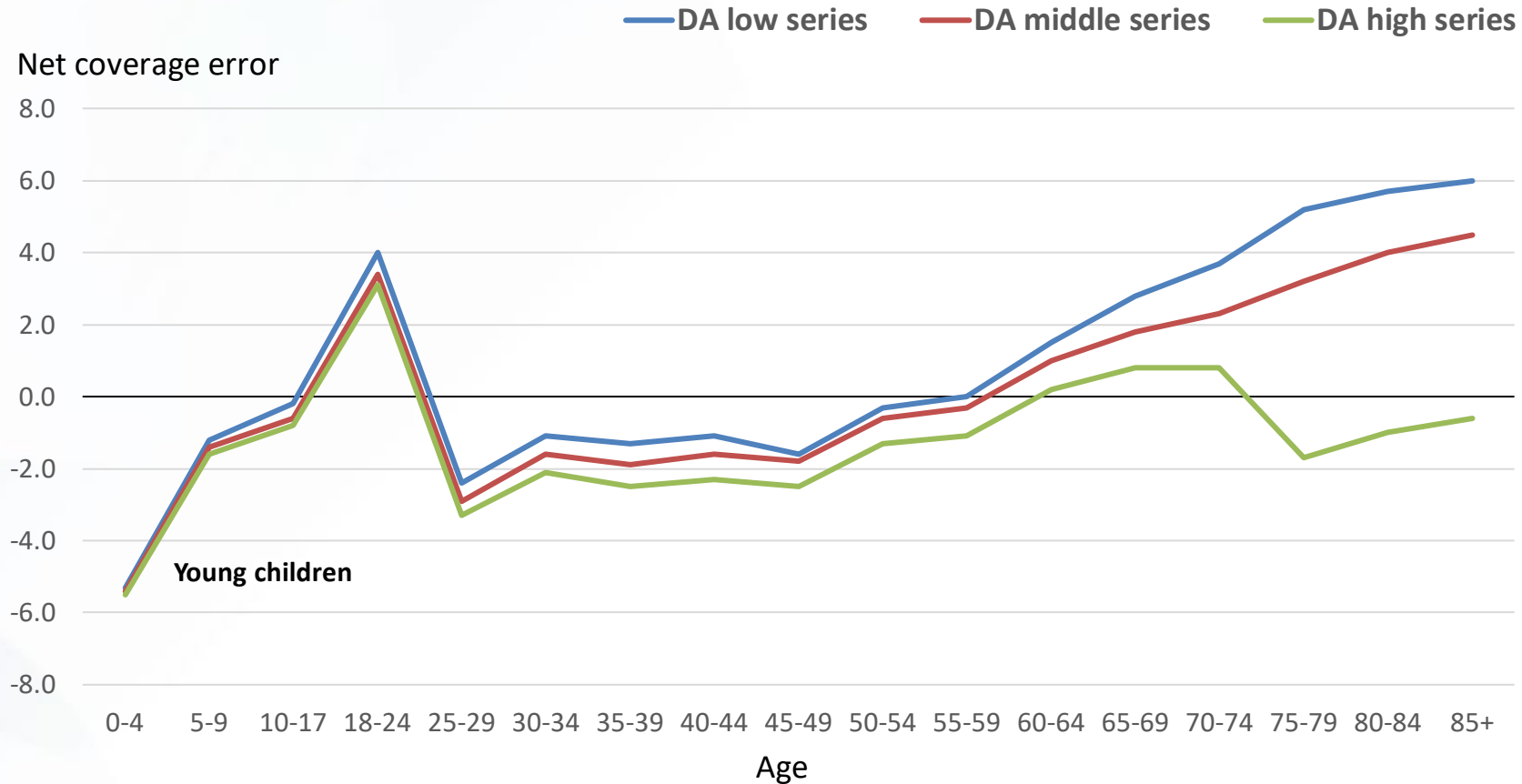
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# 2020 Demographic Analysis (DA) Net Coverage Error Estimates for Selected Age Groups by Series: April 1, 2020



Source: U.S. Census Bureau, Population Division, 2020 Demographic Analysis (December 2020 release), and 2020 Census special tabulation (DRB Approval Number: CBDRB-FY22-DSEP-001).

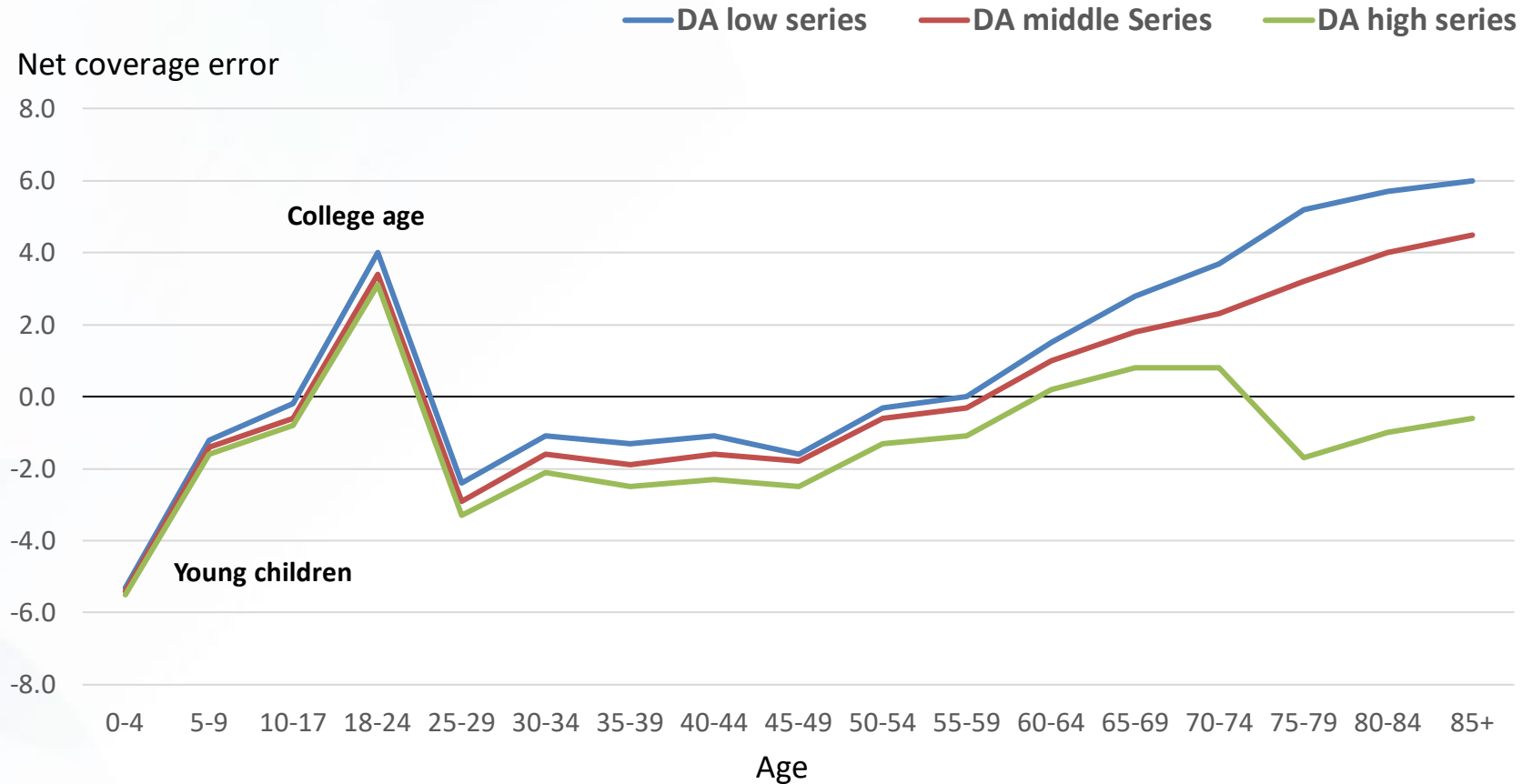
# 2020 Demographic Analysis (DA) Net Coverage Error Estimates for Selected Age Groups by Series: April 1, 2020



Source: U.S. Census Bureau, Population Division, 2020 Demographic Analysis (December 2020 release), and 2020 Census special tabulation (DRB Approval Number: CBDRB-FY22-DSEP-001).

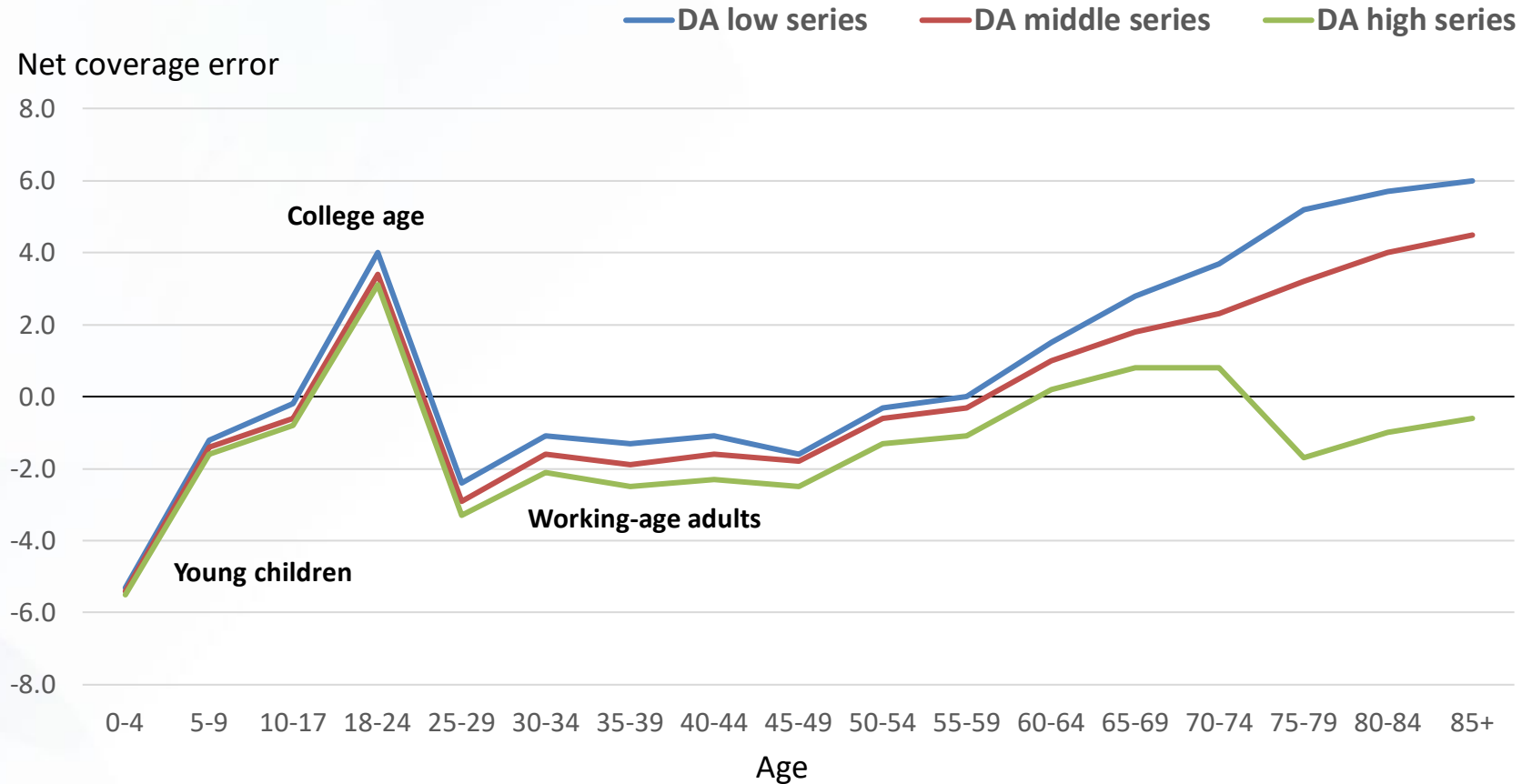


# 2020 Demographic Analysis (DA) Net Coverage Error Estimates for Selected Age Groups by Series: April 1, 2020



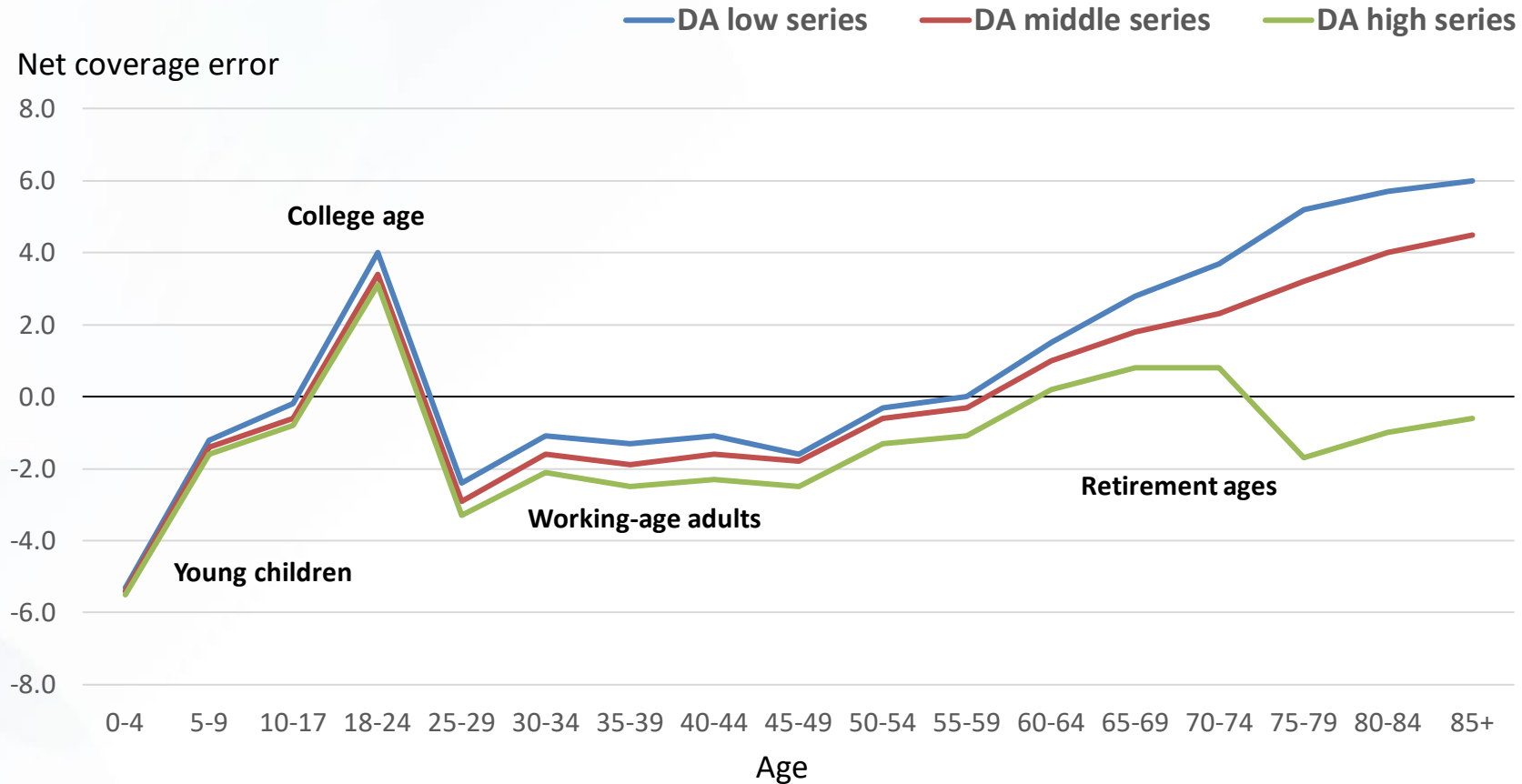
Source: U.S. Census Bureau, Population Division, 2020 Demographic Analysis (December 2020 release), and 2020 Census special tabulation (DRB Approval Number: CBDRB-FY22-DSEP-001).

# 2020 Demographic Analysis (DA) Net Coverage Error Estimates for Selected Age Groups by Series: April 1, 2020



Source: U.S. Census Bureau, Population Division, 2020 Demographic Analysis (December 2020 release), and 2020 Census special tabulation (DRB Approval Number: CBDRB-FY22-DSEP-001).

# 2020 Demographic Analysis (DA) Net Coverage Error Estimates for Selected Age Groups by Series: April 1, 2020



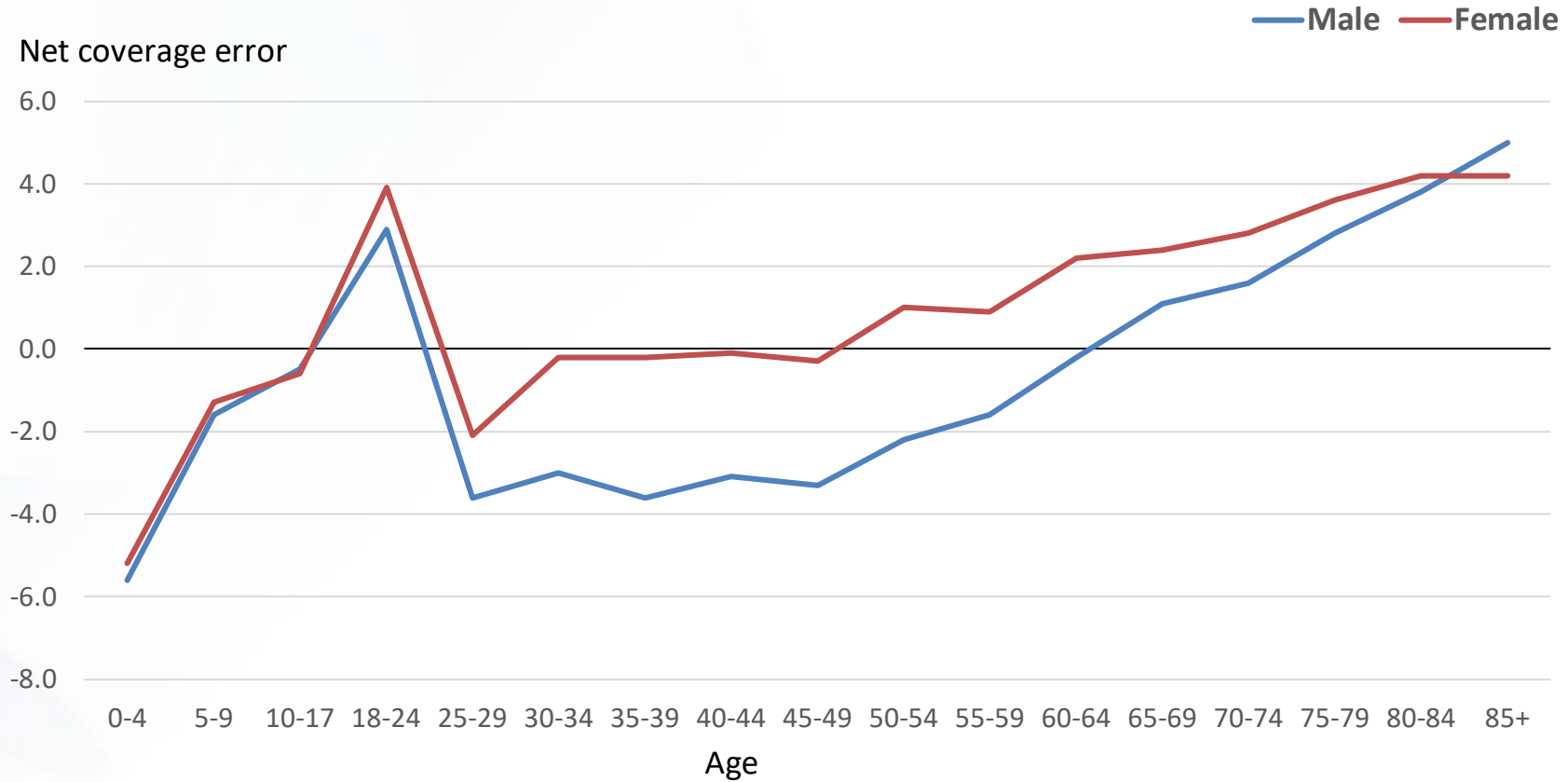
Source: U.S. Census Bureau, Population Division, 2020 Demographic Analysis (December 2020 release), and 2020 Census special tabulation (DRB Approval Number: CBDRB-FY22-DSEP-001).

Demographic Analysis Estimates of  
Net Coverage Error for the 2020 Census

# Age and Sex

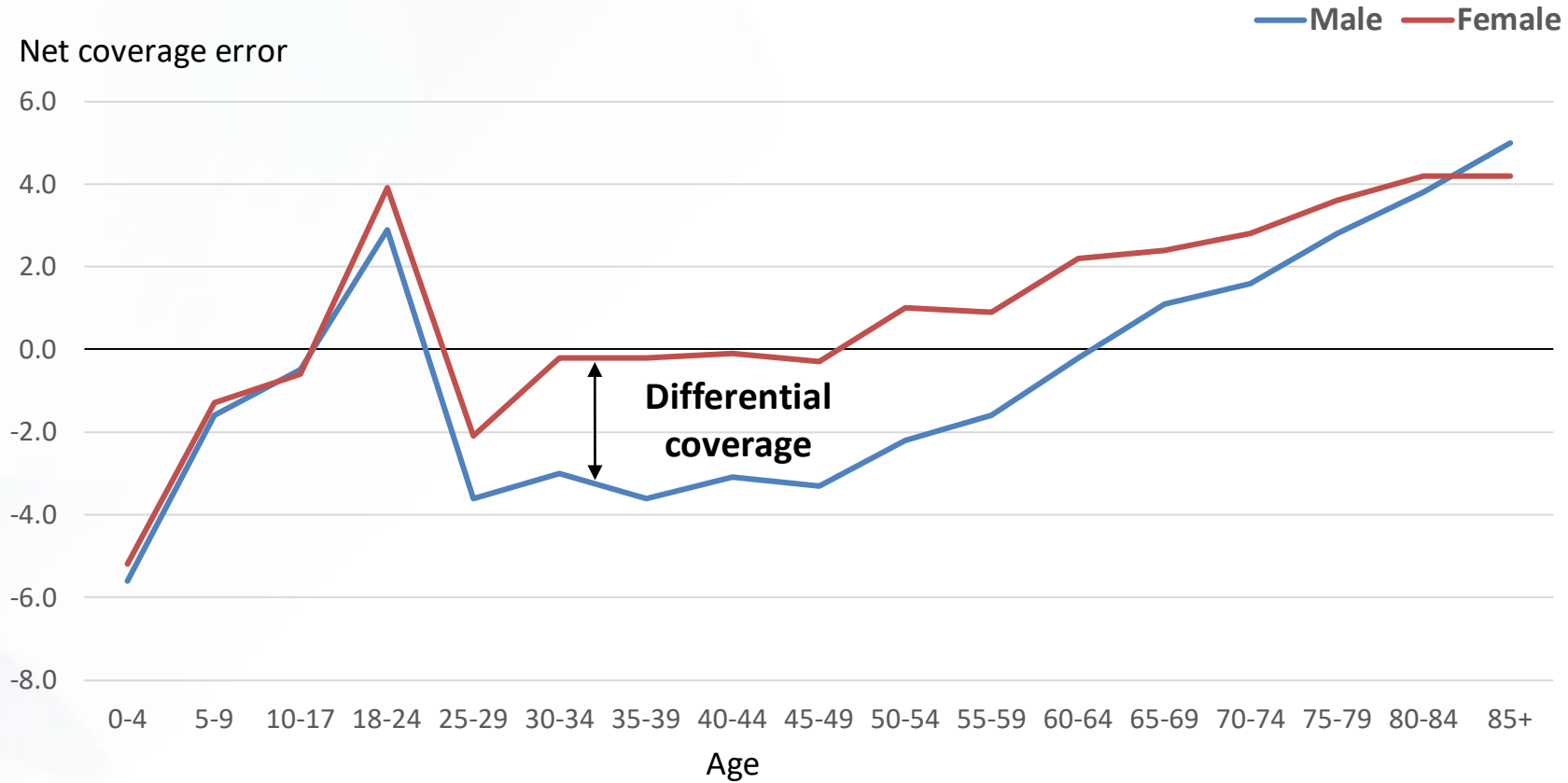
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# 2020 Demographic Analysis Net Coverage Error Estimates for Selected Age Groups by Sex: April 1, 2020



Source: U.S. Census Bureau, Population Division, 2020 Demographic Analysis (December 2020 release), and 2020 Census special tabulation (DRB Approval Number: CBDRB-FY22-DSEP-001).

# 2020 Demographic Analysis Net Coverage Error Estimates for Selected Age Groups by Sex: April 1, 2020



Source: U.S. Census Bureau, Population Division, 2020 Demographic Analysis (December 2020 release), and 2020 Census special tabulation (DRB Approval Number: CBDRB-FY22-DSEP-001).

# Summary of Findings From DA

- **Young children were undercounted in the 2020 Census.**
- **The population ages 18 to 24 were overcounted in the 2020 Census.**
- **The working-age population (ages 25 to 54) was undercounted.**
  - This undercount was higher for males.
  - Females in these ages had coverage errors close to 0.
- **Retirement ages and the oldest cohorts showed large overcounts relative to the low and middle DA series, and an undercount relative to the high DA series.**

# 2020 Census Coverage Results by Demographic Groups 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-FY22-136 and CBDRB-FY22-137.

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# Outline

1. Overview of the Post-Enumeration Survey.
2. Net coverage error.
3. Components of coverage.
4. Overcoming challenges.

2020 Census Coverage Results by Demographic  
Groups From the Post-Enumeration Survey

# Overview of the Post-Enumeration Survey

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# What is the Post-Enumeration Survey (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 sample blocks— independently of the census.
- Match people in the PES independent survey with enumerations in the census to determine who was missed or counted in error.

## History

- Used in the U.S. 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 by Demographic  
Groups From the Post-Enumeration Survey

# Net Coverage Error

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# Coverage of the Census

Census count of the  
population **323,200,000**

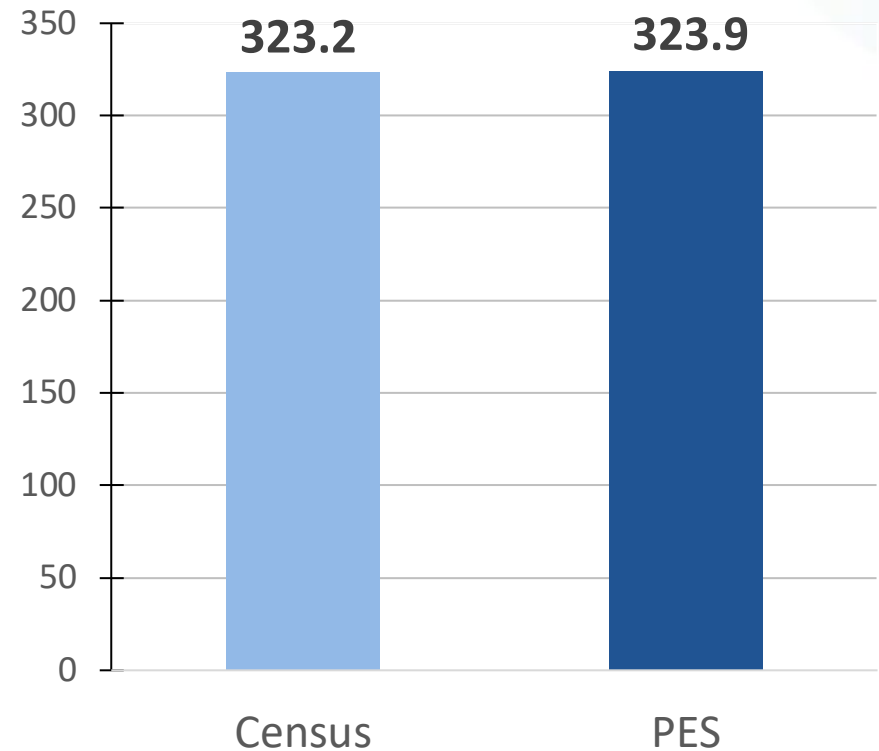
Estimate of the population  
from the PES **323,900,000**

Net coverage error **-782,000**

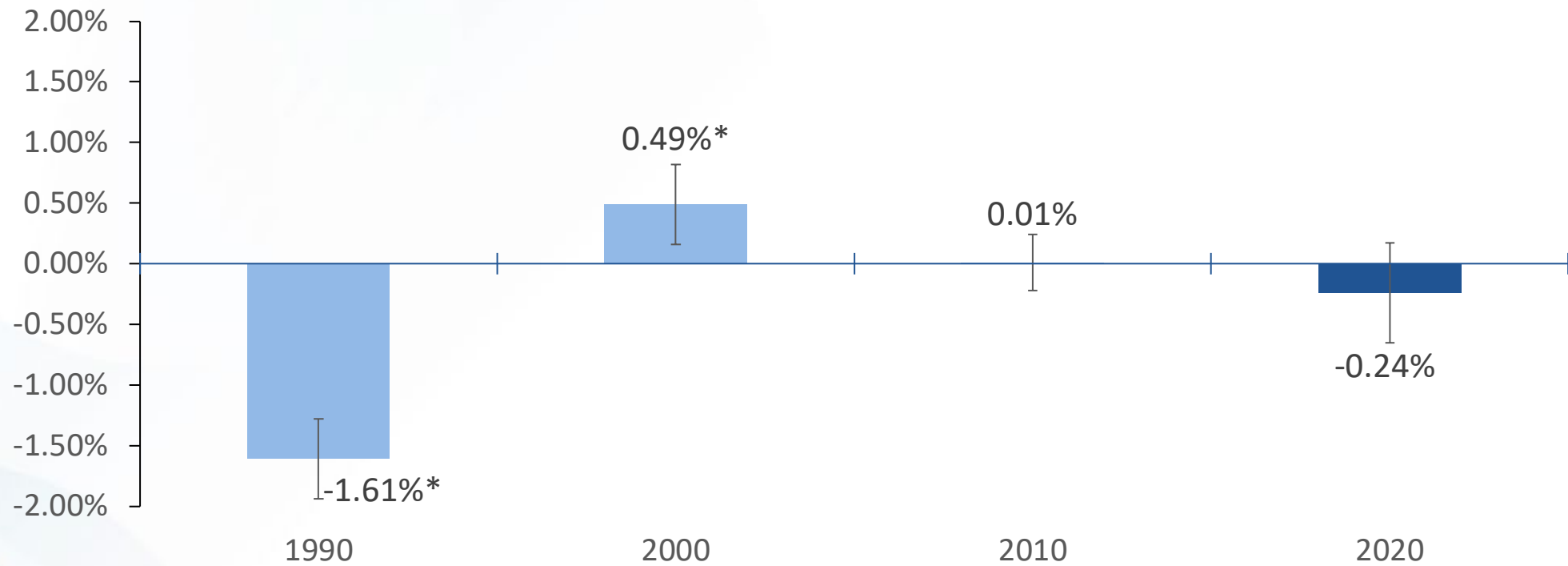
Percent net coverage error **-0.24 %**

Note: Numbers do not sum to a total due to rounding.

In millions



# U.S. Total Percent Net Coverage Error: 1990 to 2020



\*Net coverage error is statistically significantly different from 0.

# Percent Net Coverage Error by Race and Hispanic Origin: 2010 and 2020

Race or Hispanic Origin	2010	2020
Total	0.01	-0.24
Race alone or in combination		
White	0.54*	0.66*
Non-Hispanic White alone	0.83*	1.64*
Black or African American	-2.06*	-3.30*
Asian	0.00	2.62*
American Indian or Alaska Native	-0.15*	-0.91*
On Reservation	-4.88*	-5.64*
American Indian Areas Off Reservation	3.86	3.06
Balance of the United States	0.05	-0.86*
Native Hawaiian or Other Pacific Islander	-1.02*	1.28*
Some Other Race	-1.63*	-4.34*
Hispanic or Latino	-1.54*	-4.99*

\*Net coverage error is statistically significantly different from 0.



# Percent Net Coverage Error by Race and Hispanic Origin: 2010 and 2020

Race or Hispanic Origin	2010	2020	Is there a significant difference between 2020 and 2010?
Total	0.01	-0.24	
Race alone or in combination			
White	0.54*	0.66*	No
<b>Non-Hispanic White alone</b>	<b>0.83*</b>	<b>1.64*</b>	<b>Yes</b>
Black or African American	-2.06*	-3.30*	No
<b>Asian</b>	<b>0.00</b>	<b>2.62*</b>	<b>Yes</b>
American Indian or Alaska Native	-0.15*	-0.91*	No
On Reservation	-4.88*	-5.64*	No
American Indian Areas Off Reservation	3.86	3.06	No
Balance of the United States	0.05	-0.86*	No
Native Hawaiian or Other Pacific Islander	-1.02*	1.28*	No
<b>Some Other Race</b>	<b>-1.63*</b>	<b>-4.34*</b>	<b>Yes</b>
<b>Hispanic or Latino</b>	<b>-1.54*</b>	<b>-4.99*</b>	<b>Yes</b>

\*Net coverage error is statistically significantly different from 0.

# Percent Net Coverage Error by Age for Children: 1990 to 2020

Age	1990	2000	2010	2020
0-4	-3.18*	0.46	-0.72*	-2.79*
5-9			0.33	-0.10
10-17		1.32*	0.97*	-0.21

\*Net coverage error is statistically significantly different from 0.

# Percent Net Coverage Error by Age and Sex for Adults: 1990 to 2020

Age and sex	1990	2000	2010	2020
18-to-29 males	-3.30*	-1.12*	-1.21*	-2.25*
18-to-29 females	-2.83*	1.39*	0.28	-0.98*
30-to-49 males	-1.89*	-2.01*	-3.57*	-3.05*
30-to-49 females	-0.88*	0.60*	0.42*	0.10
50-and-over males	0.59*	0.80*	0.32*	0.55*
50-and-over females	1.24*	2.53*	2.35*	2.63*

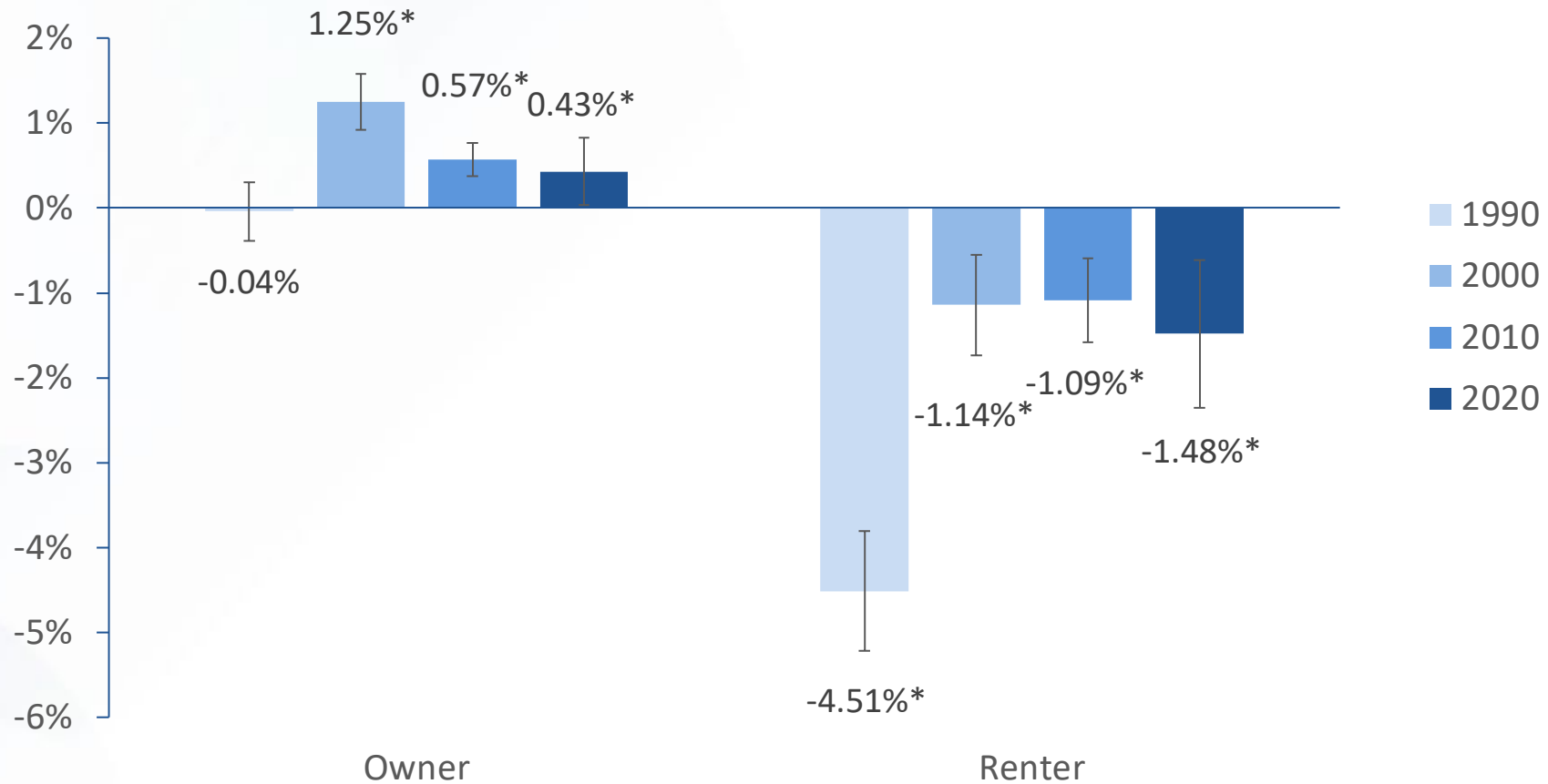
\*Net coverage error is statistically significantly different from 0.

# Percent Net Coverage Error by Age and Sex: Post-Enumeration Survey (PES) and Demographic Analysis (DA)

Age and sex	2020 PES	DA low	DA middle	DA high
0 to 4	-2.8*	-5.3	-5.4	-5.5
5 to 9	-0.1	-1.2	-1.4	-1.6
10 to 17	-0.2	-0.2	-0.6	-0.8
18-to-29 males	-2.3*	0.7	0.1	-0.3
18-to-29 females	-1.0*	1.8	1.3	0.9
30-to-49 males	-3.1*	-2.8	-3.2	-3.9
30-to-49 females	0.1	0.3	-0.2	-0.8
50+ males	0.6*	1.1	0.2	-1.4
50+ females	2.6*	3.1	2.2	0.5

\*Net coverage error is statistically significantly different from 0.

# Percent Net Coverage Error for People by Tenure: 1990 to 2020



\*Net coverage error is statistically significantly different from 0.

# Summary of Net Coverage Error

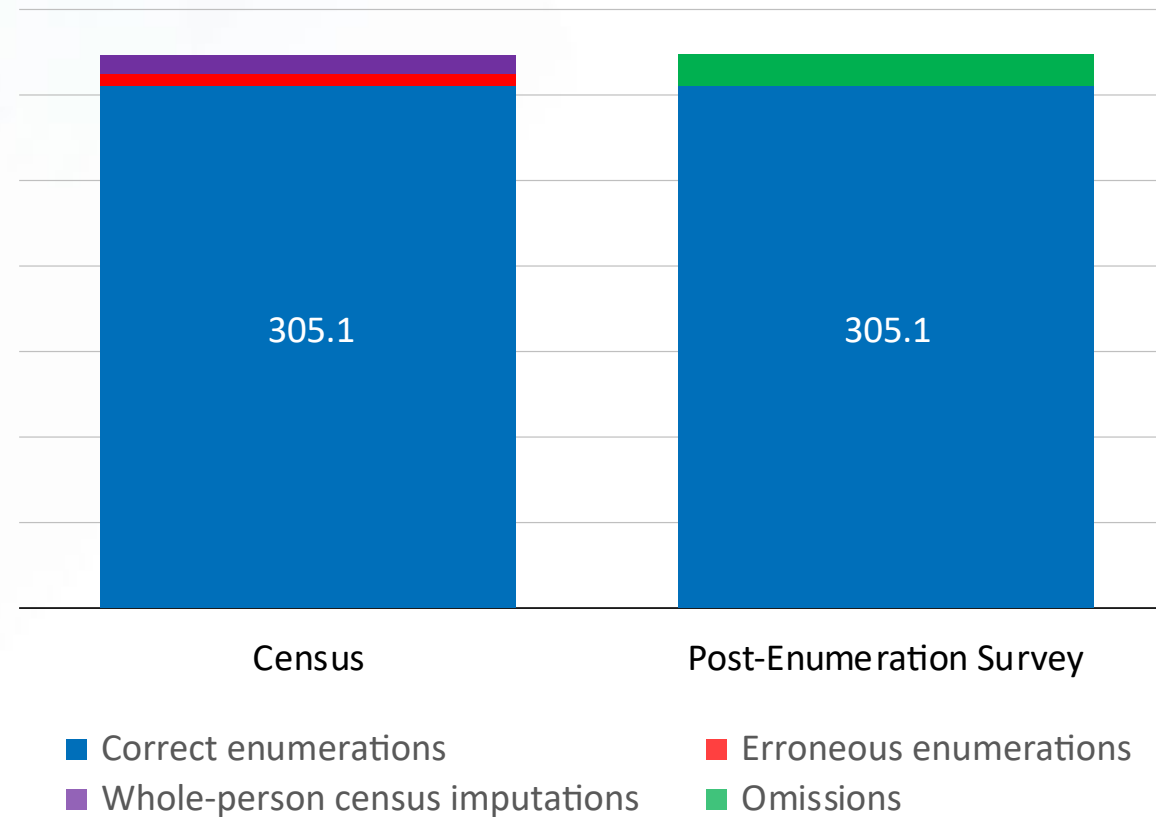
- **At the national level, net coverage error was not statistically significant from 0.**
  - The magnitude of the percent net coverage error for 2020 was estimated to be -0.24%.
  - At the national level, we estimated a net coverage error of -782,000 people in the census.
- **Many demographic groups that were undercounted (or overcounted) in the 2010 Census were also undercounted (or overcounted) in the 2020 Census.**
- **The 2020 Census continued to undercount some race and ethnic groups while overcounting others.**
- **The 2020 Census also undercounted children, especially young children.**
- **The census continued to undercount renters.**

2020 Census Coverage Results by Demographic  
Groups From the Post-Enumeration Survey

# Components of Coverage

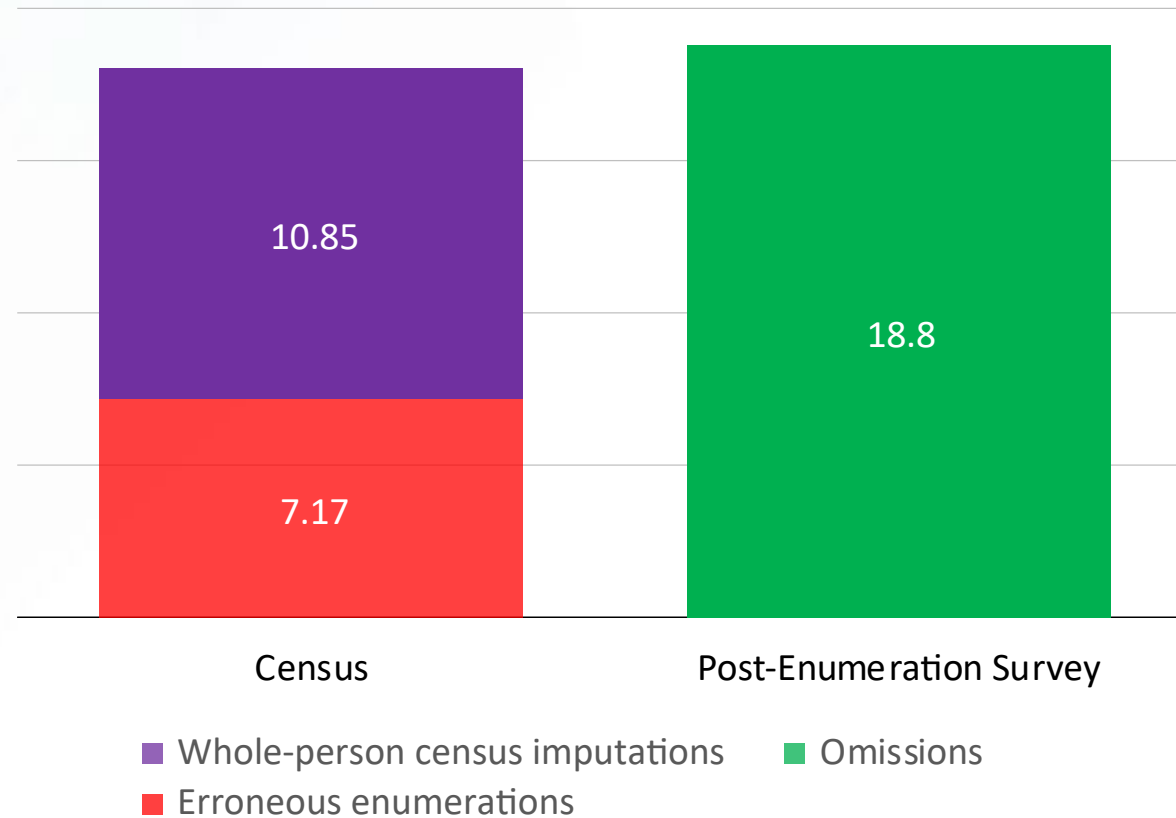
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# Components of the Census Coverage in 2020 Level (In millions)





# Components of the Census Coverage in 2020 Level (In millions)



# Components of Census Coverage: 2010 and 2020 (In thousands)

Component of census coverage	2010				2020			
	Estimate	Standard error	Percent	Standard error	Estimate	Standard error	Percent	Standard error
Census count	300,700	X	100.0	X	323,200	X	100.0	X
Correct enumerations	284,700	199	94.7	0.07	305,100	145	94.4	0.04
Erroneous enumerations	10,040	199	<b>3.3</b>	0.07	7,167	145	<b>2.2</b>	0.04
Due to duplication	8,251	194	<b>2.8</b>	0.06	5,170	129	<b>1.6</b>	0.04
For other reasons	1,520	45	<b>0.5</b>	0.01	1,997	88	<b>0.6</b>	0.03
Whole-person imputations	5,993	X	2.0	X	10,850	X	3.4	X

X Not applicable.

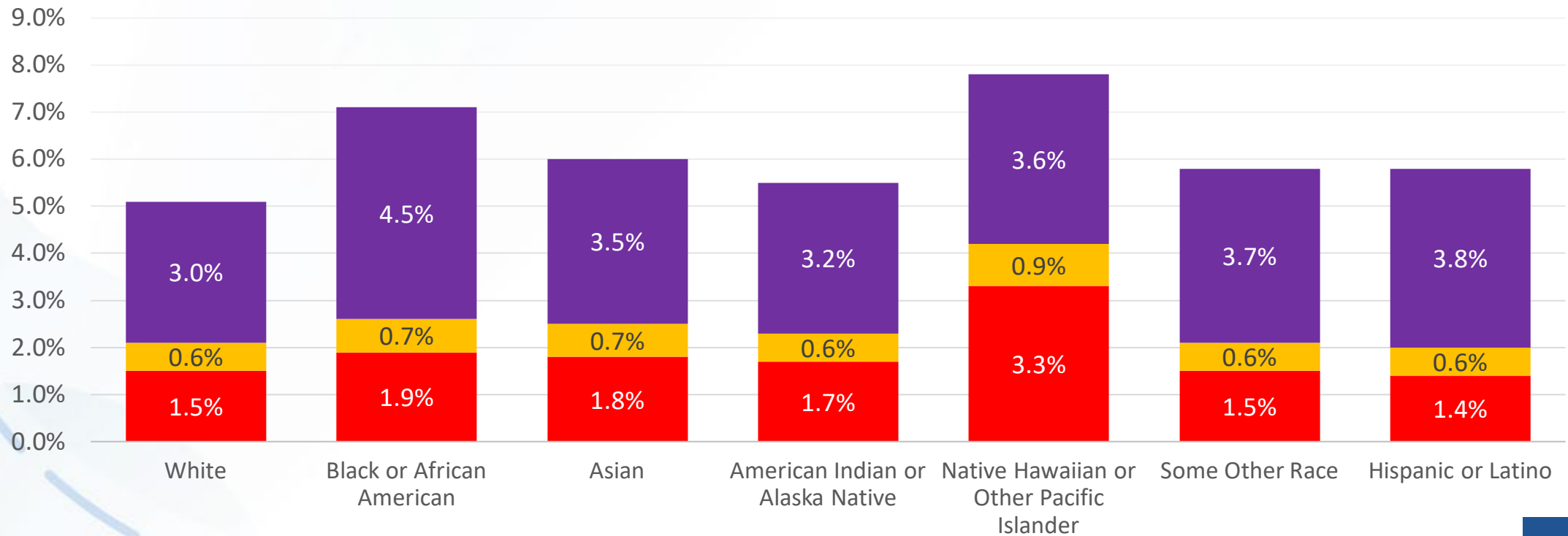
# Whole-Person Census Imputations

**\*(In millions)**

Whole-person census imputations	2000		2010		2020	
	Count	Percent	Count	Percent	Count	Percent
Total	5.77	2.1	5.99	2.0	10.85	3.4
Population count already known	4.60	1.7	4.83	1.6	8.99	2.8
Population count missing	1.17	0.4	1.16	0.4	1.86	0.6

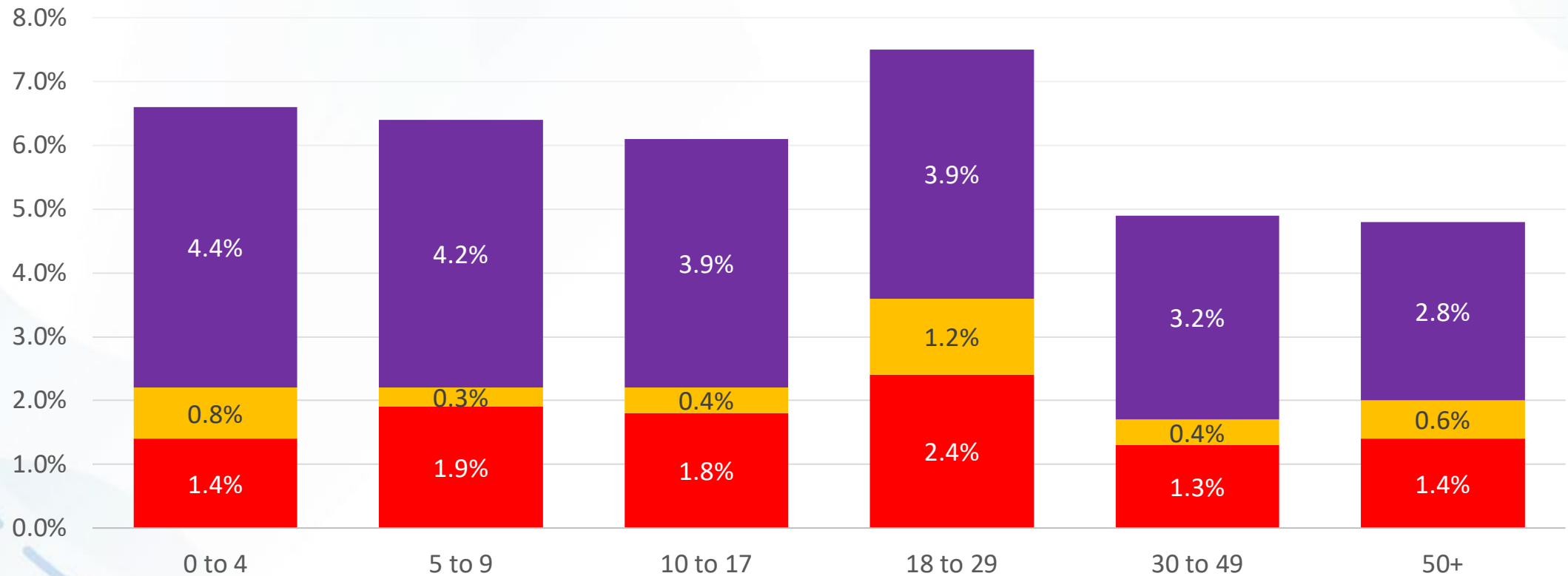
**\*Added “(In millions)” as of March 11, 2022.**

# Percent Components of Census Coverage: Race (Alone or in Combination) and Hispanic Origin



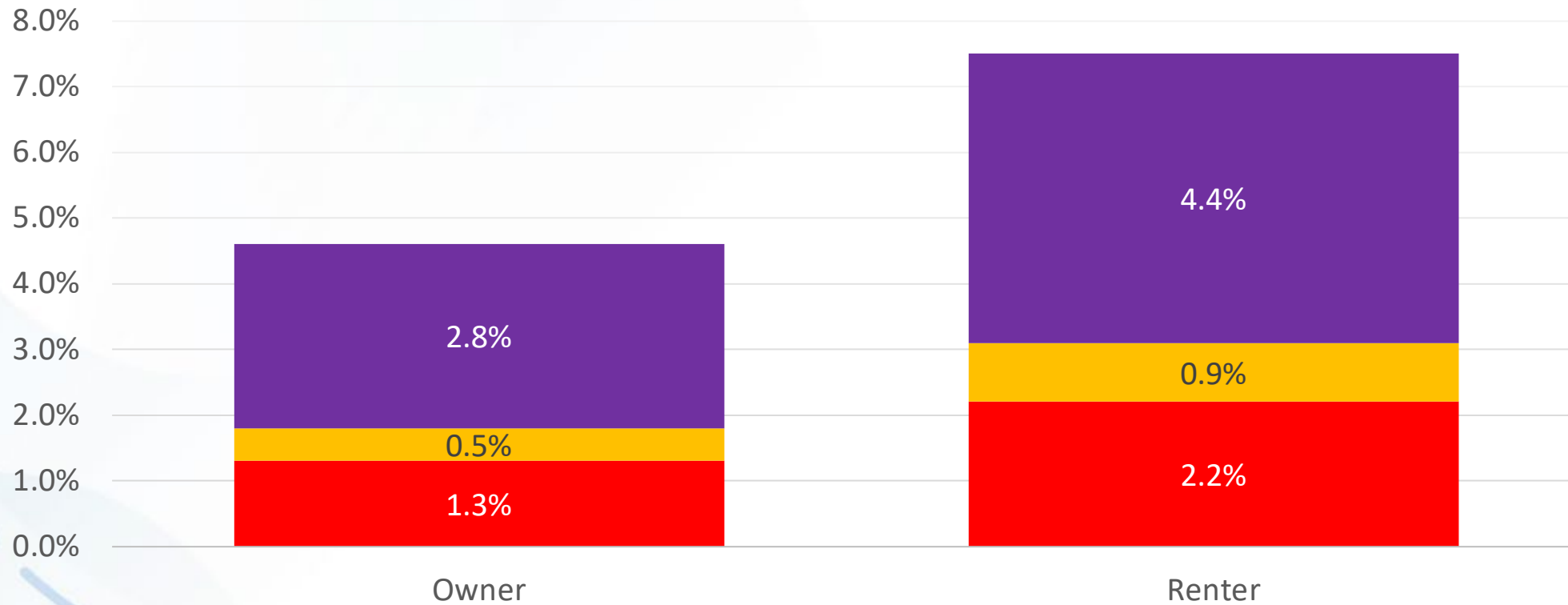
■ Erroneous enumerations due to duplication   ■ Erroneous enumerations for other reasons   ■ Whole-person census imputations

# Percent Components of Census Coverage: Age Group



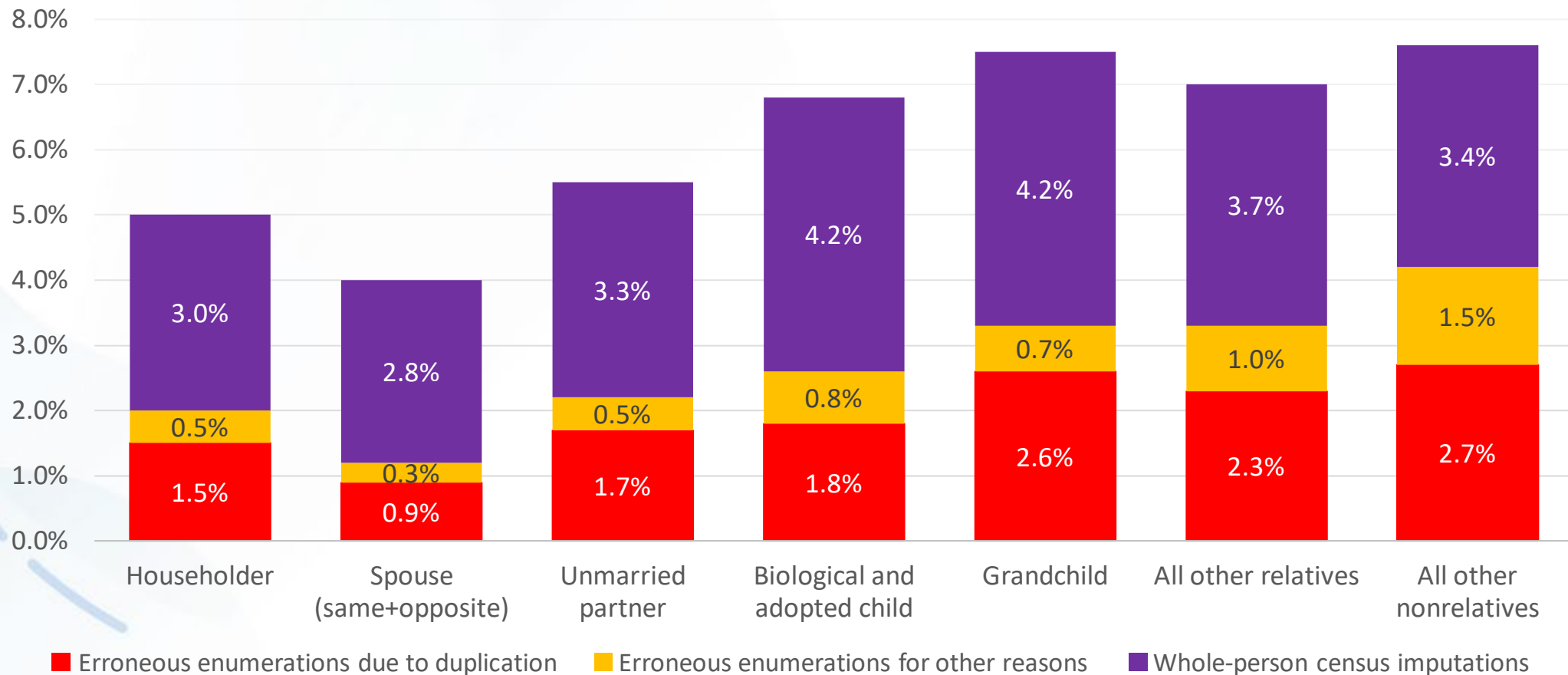
■ Erroneous enumerations due to duplication   ■ Erroneous enumerations for other reasons   ■ Whole-person census imputations

# Percent Components of Census Coverage: Tenure



■ Erroneous enumerations due to duplication   ■ Erroneous enumerations for other reasons   ■ Whole-person census imputations

# Percent Components of Census Coverage: Relationship to Householder



# National Components of the Post-Enumeration Survey (PES) Estimate

\*(In millions)

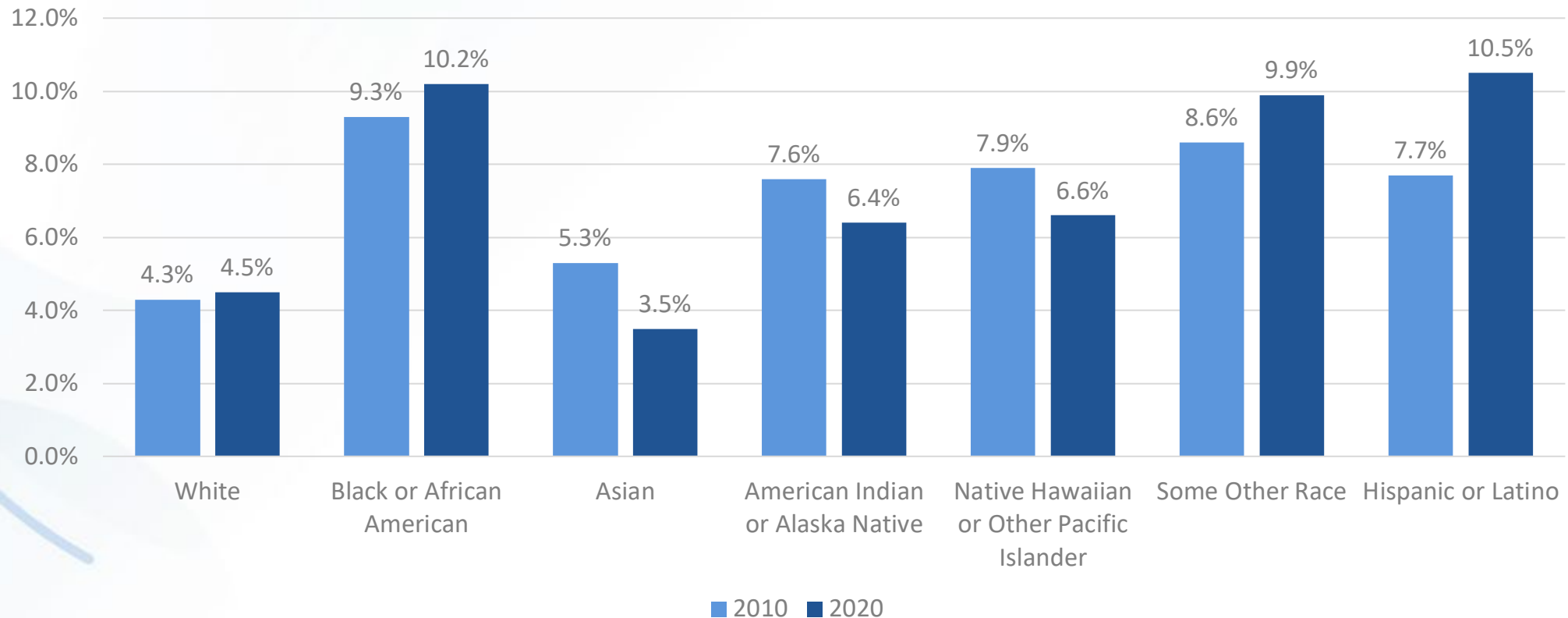
Component of PES Estimate	2010				2020			
	Estimate	Standard error	Percent	Standard error	Estimate	Standard error	Percent	Standard error
Estimate of Pop. From PES	300.7	0.43	100.0	X	323.9	0.82	100.0	X
Correct Enumerations	284.7	0.20	94.7	0.1	305.1	0.15	94.2	0.24
Omissions	16.0	0.44	5.3	0.1	18.8	0.82	5.8	0.24

X Not applicable.

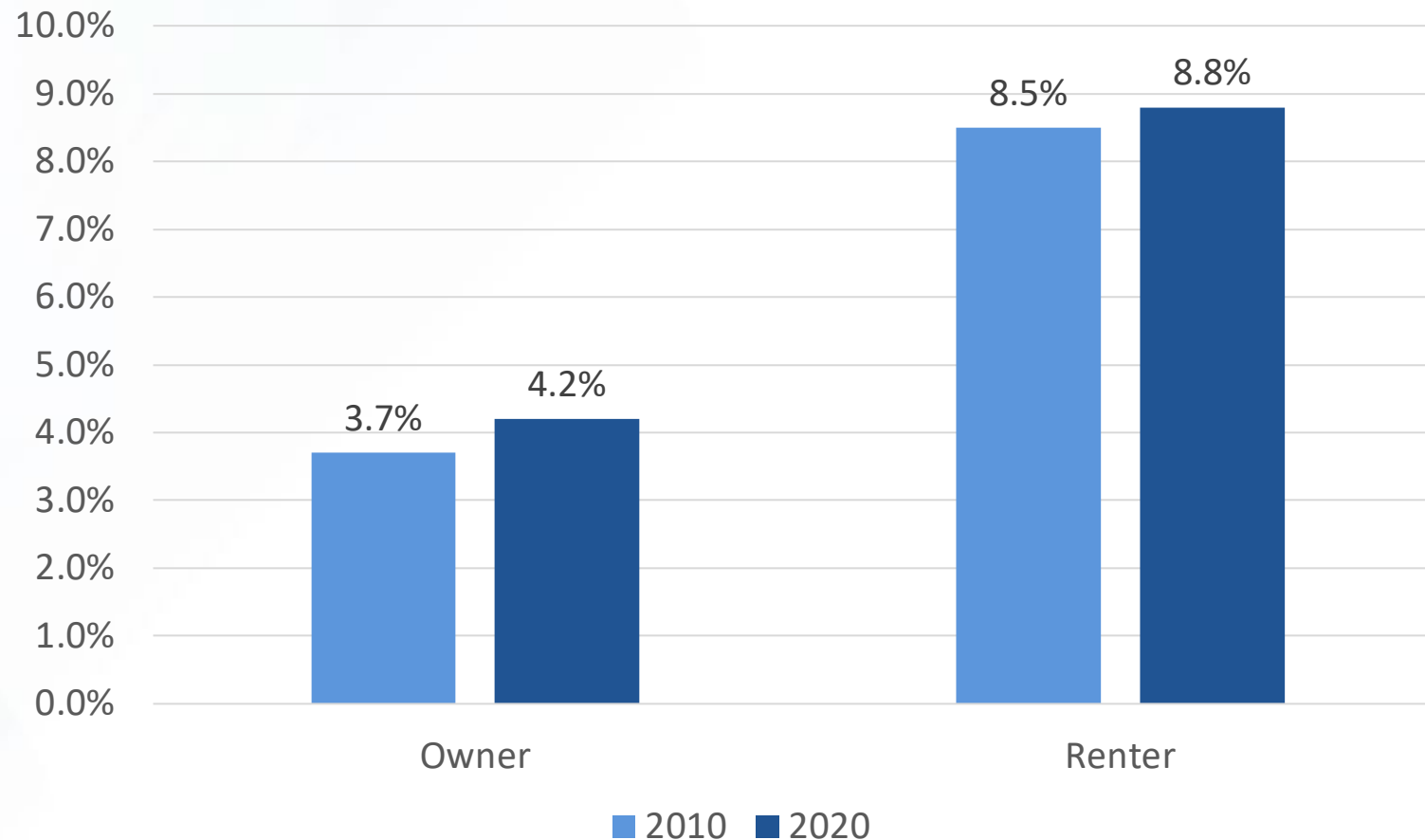
**\*Updated from “(In thousands)” as of March 10, 2022.**



# 2010 and 2020 Census Omission Rates: Race (Alone or in Combination) and Hispanic Origin



# 2010 and 2020 Census Omission Rates: Owners and Renters



# Post-Enumeration Survey Summer Releases

- **Coverage estimates (undercounts and overcounts) for each state and the District of Columbia (not broken down by demographic characteristics or geographic areas within the state).**
- **National components of coverage estimates for people by census operation.**
  - Correct or erroneous enumeration and whole-person imputation by internet responses, nonresponse follow-up responses, administrative record enumerations, proxy responses, and householder responses.
- **All housing unit coverage estimates.**
  - Undercount and overcount rates for housing units for example by occupancy (occupied and vacant units).
  - Correct or erroneous enumeration for housing units.
- **Coverage estimates for Puerto Rico.**

2020 Census Coverage Results by Demographic  
Groups From the Post-Enumeration Survey

# Overcoming Challenges

March 10, 2022

# Post-Enumeration Survey Challenges

- **Global pandemic.**
- **Delays to field work.**
  - Matching people who might not accurately report their census residence status.
- **Migration of many college students and others.**
- **Some respondents did not respond to questions needed to match the PES to the 2020 Census.**
  - Matching people to the census with increased item nonresponse.

# Post-Enumeration Survey Person Interview Response Rates for Occupied Housing Units (Unweighted)

Interview outcome	2010		2020	
	Number	Percent	Number	Percent
Total occupied housing units	145,000	100.0	137,000	100.0
Interview	140,000	96.6	114,000	83.2
Noninterview	5,300	3.7	23,000	16.8
Interview not conducted	2,300	1.6	4,900	3.6
Interview not sufficient	3,000	2.1	18,500	13.5

# Questions?



Toll-free number:  
**1-888-790-3166**

Participant passcode:  
**2313418**

Dial **\*1 for the Operator**

# Questions

Post-Enumeration Survey and  
Demographic Analysis



**Erika H. Becker-Medina**  
Chief, Decennial  
Communications Coordination  
Office, U.S. Census Bureau



**Eric Jensen**  
Senior Technical Expert for  
Demographic Analysis, Population  
Division, U.S. Census Bureau



**Timothy Kennel**  
Assistant Division Chief for Statistical  
Methods, Decennial Statistical  
Studies Division,  
U.S. Census Bureau



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



**Jennifer Reichert**  
Chief, Decennial Census  
Management Division,  
U.S. Census Bureau



**Karen Battle**  
Chief, Population Division,  
U.S. Census Bureau



# Questions?



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# Resources

## Post-Enumeration Survey (PES) Press Kit

FEBRUARY 10, 2021

The purpose of the Post-Enumeration Survey is to measure the accuracy of the census by independently surveying a sample of the population. The survey estimates the proportion of people and housing units potentially missed or counted erroneously in the census.

The first results from the PES are planned for release in the first quarter of 2022, with additional results to be released in the summer of 2022.

### Webpages

- [Post-Enumeration Survey \(PES\) webpage](#)
- [Memorandum 2020.05: 2020 Census Detailed Operational Plan for the Post-Enumeration Survey \(PES\) Operations](#)
- [2020 Census Detailed Operational Plan for: Post-Enumeration Survey \(PES\) Operations](#)

## 2020 Demographic Analysis Estimates Press Kit

DECEMBER 01, 2020

The 2020 Demographic Analysis estimates include national-level estimates of the population by age, sex, race and Hispanic origin as of April 1, 2020. These estimates are developed from current and historical vital statistics – birth and death records, estimates of international migration, and Medicare records. The Demographic Analysis estimates are independent from the 2020 Census and will be used to calculate net coverage error, one of the two main ways the U.S. Census Bureau uses population estimates to measure coverage of the census.

Archived video:



- [Event Program](#) [[<1.0 MB](#)]
- [Presentation: 2020 Demographic Analysis - Online News Conference](#) [[<1.0 MB](#)]
- [Transcript: 2020 Demographic Analysis News Conference](#) [[<1.0 MB](#)]

# Questions?



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# Upcoming Census Bureau Releases

## March 10

Post-Enumeration Survey/Demographic Analysis

- **March 10:** News conference and data release.
- [Press kit.](#)

## March 17

American Community Survey 2016-2020  
5-Year Data Release

- **March 17:** Data release.
- **March 15:** Embargo begins.
- **March 10:** Prerelease webinar.
- [Press kit.](#)

## March 24

County, Puerto Rico Municipio, and  
Metropolitan and Micropolitan Statistical  
Area Population Estimates

- **March 24:** Data release.
- **March 22:** Embargo begins.
- [Tip sheet.](#)

## April 1

1950 Census Records Release

- **April 1:** NARA releases records.
- **March 14:** Prerelease webinar (Census Bureau-hosted).
- [Press kit.](#)

# For Further Information

## Media:

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### **Public Information Office**

pio@census.gov

301-763-3030/877-861-2010 (U.S. and Canada only)

## General public:

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### **Customer Service Center**

1-800-923-8282 or

301-763-INFO (4636)

## Press kit:

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Go to **U.S. Census Bureau** at:

Census.gov ▶ Newsroom ▶ Press Kits