

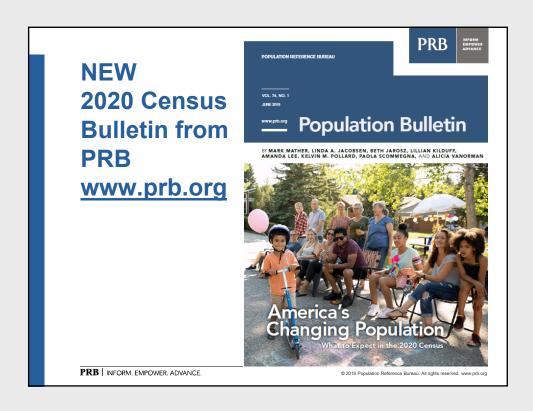
Undercount (and Overcount) Issues For **2020 Census**

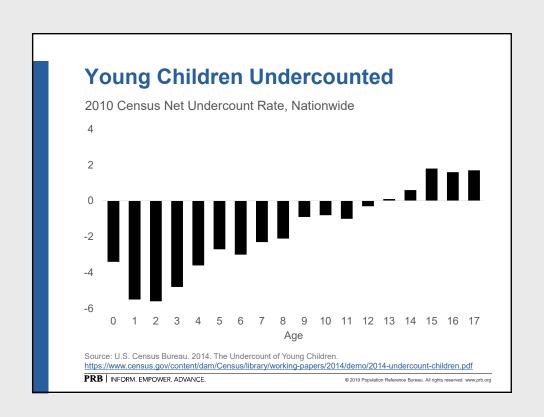
Beth Jarosz @DataGeekB

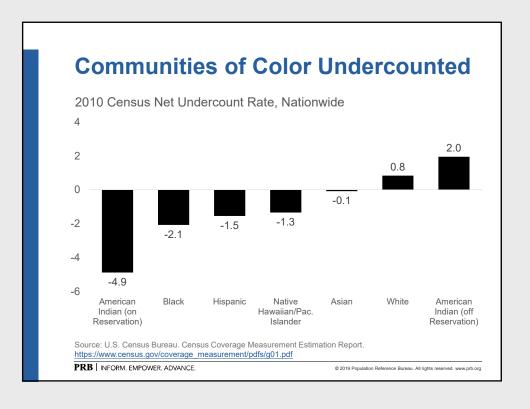
June 2019

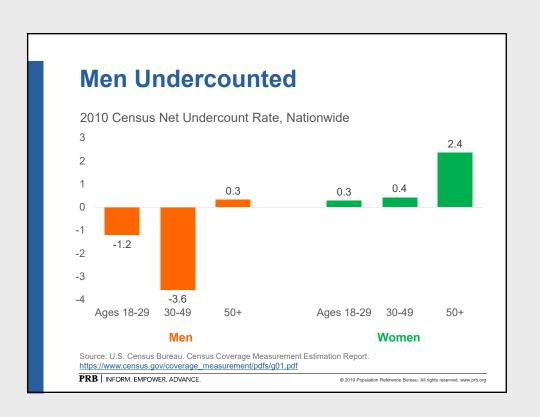
POPULATION REFERENCE BUREAU | www.prb.org

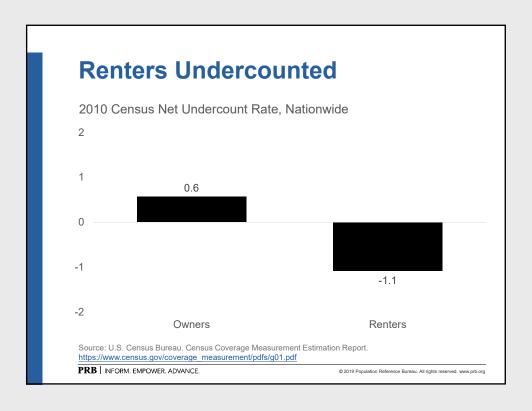
Differential Undercount = Overcount and Undercount Today's topics: Demographics of **Undercount** differential undercount Reducing undercount Citizenship Q Longer slide deck, with additional info, will be **Overcount** available on workshop website or Tweet me @DataGeekB PRB | INFORM. EMPOWER. ADVANCE. © 2019 Population Reference Bureau. All rights reserved. www.prb.org

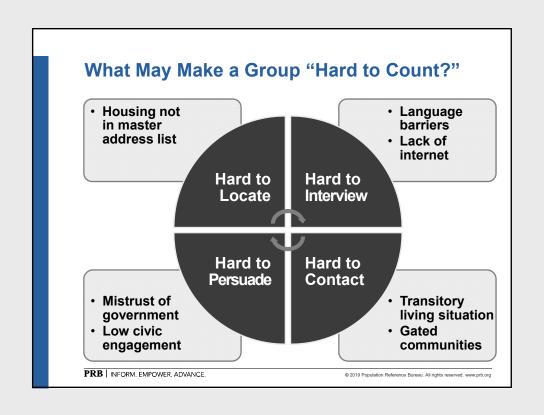


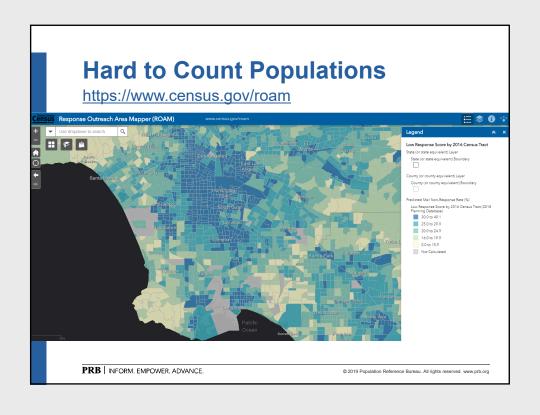


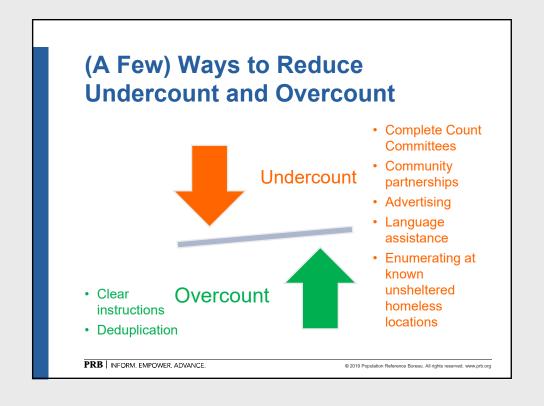






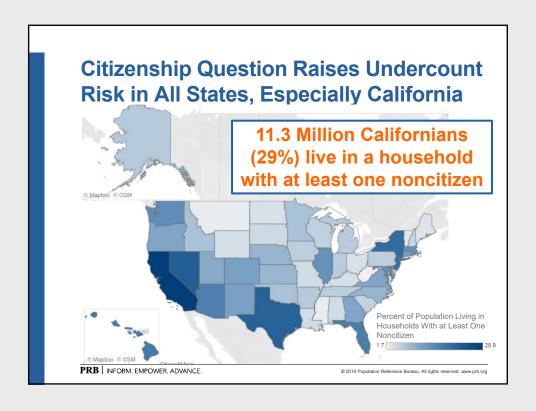


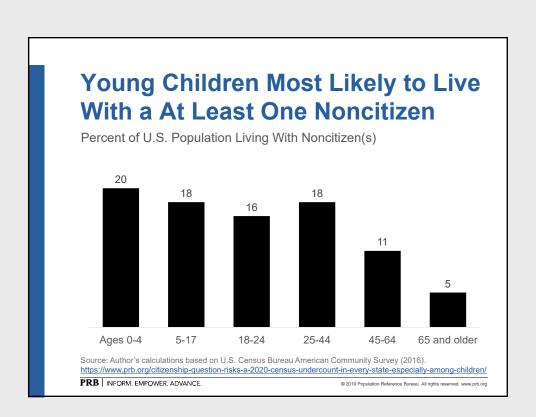


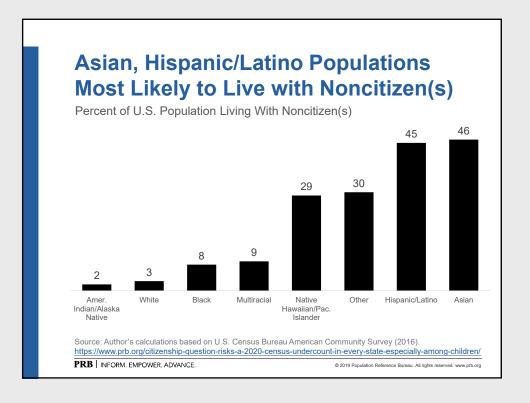


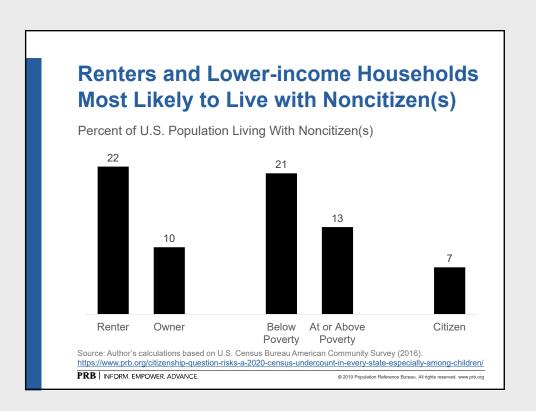
"Nudges" to Help Count Everyo	ne
How many people were living or staying in this house, apartment, or mobile home on April 1, 2020? Number of people =	
2. Were there any additional people staying here on April 1, 2020 that you did not include in Question 1? Mark all that apply: Children, related or unrelated, such as newborn bables, grandchildren, or foster children Relatives, such as adult children, cousins, or in-laws Nonrelatives, such as roommates or live-in babysitters People staying here temporarily No additional people	
PRB INFORM, EMPOWER, ADVANCE. © 2019 Population Reference Bureau. All rights res	served. www.prb.org

th	e Count
ls th	nis person a citizen of the United States?
	Yes, born in the United States
	Yes, born in Puerto Rico, Guam, the U.S. Virgin Islands, or Northern Marianas
	Yes, born abroad of U.S. citizen parent or parents
	Yes, U.S. citizen by naturalization – Print year of naturalization ✓
	No, not a U.S. citizen









So What?

If everyone knows there's a problem, can't they just correct the data so everyone is using the right numbers?"

PRB | INFORM. EMPOWER. ADVANCE.

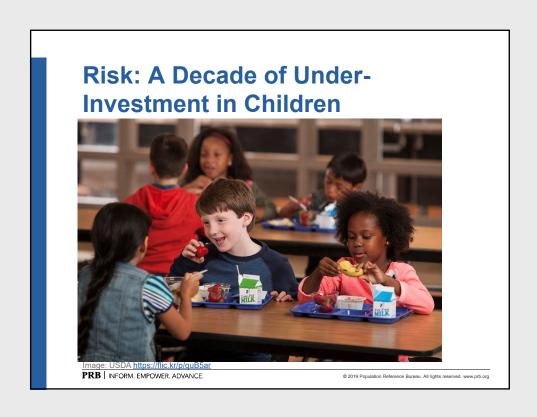
© 2019 Population Reference Bureau. All rights reserved. www.prb.org

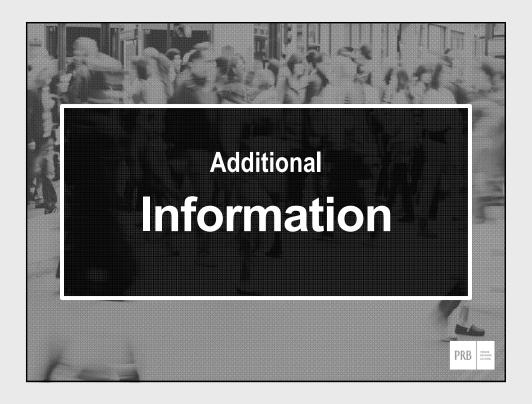
At Risk Due to Undercount

- Nearly a **trillion** dollars* in federal funds
- Representation in Congress and Electoral College

*FY2016 distribution by state of \$883.1 billion from 55 large federal expenditure programs. Analysis by Andrew Reamer at George Washington Univ.

PRB | INFORM. EMPOWER. ADVANCE.







Undercount of Children

- Neighborhood-level factors associated with undercount of children are not the same as those in the Low Response Score
- PRB and William O'Hare analyzed factors associated with child undercount

PRB | INFORM. EMPOWER. ADVANCE.

Counting Young Children in the 2020 Census

William P. O'Hare, O'Hare Data and Demographic Services, LLC Linda A. Jacobsen, Mark Mather, Alicia VanOrman, Kelvin Pollard Population Reference Bureau

Population Association of America Annual Meeting April 11, 2019

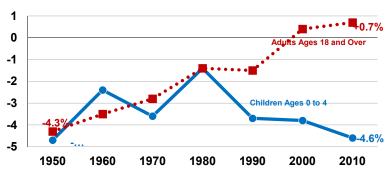
EXCERPTED FROM: W. O'Hare, L. Jacobsen, M.Mather, A.VanOrman, K.Pollard. 2019. "Counting Young Children in the 2020 Census" http://paa2019.populationassociation.org/abstracts/193988

PRB | INFORM. EMPOWER. ADVANCE.

© 2019 Population Reference Bureau All rights reserved, www.prb.or

The Net Undercount of Young Children is Getting Worse While the Coverage of Adults Has Improved

Net Undercount Rates (in Percentages) of Young Children and Adults in the Census: 1950-2010



EXCERPTED FROM: W. O'Hare, L. Jacobsen, M.Mather, A.VanOrman, K.Pollard. 2019. "Counting Young Children in the 2020 Census" https://paa2019.populationassociation.org/abstracts/193988

PRB | INFORM. EMPOWER. ADVANCE.

Implications

- Net undercount of young children in the U.S.
 Census is a large and growing problem
- What are we going to do about it?
- What work is being done outside the Census Bureau on this issue?

EXCERPTED FROM: W. O'Hare, L. Jacobsen, M.Mather, A.VanOrman, K.Pollard. 2019. "Counting Young Children in the 2020 Census" http://paa2019.populationassociation.org/abstracts/193988

PRB | INFORM. EMPOWER. ADVANCE.

© 2019 Population Reference Bureau. All rights reserved. www.prb.org 25

Project With Population Reference Bureau (PRB)

- Develop a new metric for predicting areas where young children will be more difficult to count in the 2020 Census
- Make the new measure widely available and easy to use

EXCERPTED FROM: W. O'Hare, L. Jacobsen, M.Mather, A.VanOrman, K.Pollard. 2019. "Counting Young Children in the 2020 Census" http://paa2019.populationassociation.org/abstracts/193988

PRB | INFORM. EMPOWER. ADVANCE.

Comparing Our Preliminary Model With Census Bureau's Model for Low Response Score

Seven Most Powerful Explanatory Variables in Our Undercount Model Compared With Seven Most Powerful Explanatory Variables in Erdman-Bates Low Response Score Model

OUR UNDERCOUNT MODEL (County Level)	ERDMAN-BATES LOW RESPONSE MODEL (Census Tract Level)
Percent of children ages 0-4 who live with nonrelatives or in group quarters	Number of persons per household
Percent of all households that have 7+ people	Percent of population ages 65+
Percent of households that are linguistically isolated (no one ages 14+ speaks English very well)	Percent of housing units that are renter-occupied
Percent of children ages 0-5 living with a grandparent householder	Percent of housing units that are vacant
Percent of persons living in renter-occupied households	Percent of population that is non-Hispanic White
Percent of children ages 1-4 who have moved in the past year	Median house value (in dollars)
Percent minority (Families with related children)	Percent of housing units that are single-unit structures

Note: Variables negatively associated with net undercount/low-response score are shaded in orange

Source: Erdman and Bates (2017), Public Opinion Quarterly.

EXCERPTED FROM: W. O'Hare, L. Jacobsen, M.Mather, A.VanOrman, K.Pollard. 2019. "Counting Young Children in the 2020 Census" http://paa2019.populationassociation.org/abstracts/193988

PRB | INFORM. EMPOWER. ADVANCE.

© 2019 Population Reference Bureau. All rights reserved. www.prb.org

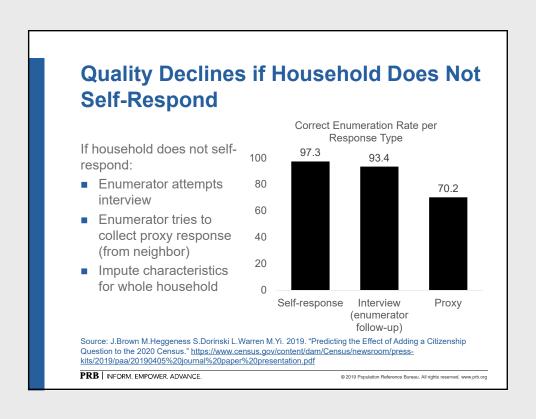
Results Will Be Disseminated Widely

- The new tract-level risk metric and associated data will be disseminated widely to groups working on the 2020 Census through the following:
 - PRB's social media platforms and website (www.prb.org)
 - The 2020 HTC Map developed by Steven Romalewski at City University of New York (CUNY) (www.censushardtocountmaps2020.us/)
 - The website of the 2020 Census Complete Count Committee for Young Children (www.countallkids.org)
 - The Annie E. Casey KIDS COUNT network and Partnership for America's Children network
 - The results will also be made available to the Census Bureau

EXCERPTED FROM: W. O'Hare, L. Jacobsen, M.Mather, A.VanOrman, K.Pollard. 2019. "Counting Young Children in the 2020 Census" http://paa2019.populationassociation.org/abstracts/193988

PRB | INFORM. EMPOWER. ADVANCE.





Citizenship Question and Decreased Household Self-Response

- Based on citizenship question
 - Census Bureau estimated 8.0 percentage point drop in selfresponse (to 28.1%) among housing units potentially having at least one noncitizen (2017 ACS)
 - 2.2 point drop in overall housing unit self-response
- Increased cost
 - Estimated increases \$55 million for every percentage point increase in nonresponse follow up
 - 2.2 percentage point change → estimated increased fieldwork cost **\$121 million**

Source: J.Brown M.Heggeness S.Dorinski L.Warren M.Yi. 2019. "Predicting the Effect of Adding a Citizenship Question to the 2020 Census." https://www.census.gov/content/dam/Census/newsroom/press-kits/2019/paa/20190405%20journal%20paper%20presentation.pdf

PRB | INFORM. EMPOWER. ADVANCE.

© 2019 Population Reference Bureau. All rights reserved. www.prb.org

Estimated Number and % of U.S. Population Living in Households With at Least One Noncitizen, by Demographic Characteristics, 2016

* Non-Hispanic. Data for American Indian/Alaska Native, Asian, Black, Native Hawaiian/Pacific Islander, Other, and White are for one race alone.

Source: Author's calculations based on U.S. Census Bureau American Community Survey (2016). https://www.prb.org/citizenship-question-risks-a-2020-census-undercount-in-every-state-especially-among-children/

PRB | INFORM. EMPOWER. ADVANCE.

	Total Population	Population Living in Household With At Least One Noncitizen	
		Number	Percent
Total population	323,128,000	44,824,000	14
Age Group			
0 to 4	19,726,000	3,943,000	20
5 to 17	53,825,000	9,438,000	18
18 to 24	31,018,000	4,813,000	16
25 to 44	85,147,000	15,103,000	18
45 to 64	84,182,000	8,860,000	11
65 and older	49,228,000	2,665,000	5
Race/Ethnicity		<u> </u>	
Hispanic/Latino	57,390,000	25,775,000	45
Asian*	17,362,000	7,916,000	46
White*	197,487,000	6,772,000	3
Black*	39,809,000	3,214,000	8
Multiracial*	7,689,000	726,000	9
Other*	741,000	226,000	30
Native Hawaiian/Pacific Islander*	533,000	153,000	29
American Indian/Alaska Native*	2,117,000	42,000	2
Citizenship		,	
Citizen	300,712,000	22,408,000	7
Noncitizen	22,415,000	22,415,000	100
Housing Tenure		'	
Renter	110,685,000	24,306,000	22
Owner	204,362,000	20,065,000	10
Poverty Status		<u> </u>	
Income below poverty	44,208,000	9,369,000	21
At or above poverty	270,961,000	34,933,000	13