Estimated net undercount after impuation in 2020 with citizenship (Q1 to Q2)

(A)	(B) Number of Households	(C)	(D) Predicted HH error rate	(E)	(F)	(G) Predicted Net Undercount	(H)	(I)	(J) 2016	(K) Under/Overcount Rate	(L)	(M)
	Total HH	Q1-Q2 rate	estimate	lower	upper	estimate	lower	upper	ACS Pop	estimate	lower	upper
National	125,819,000	8,983,477	0.3179	0.1085	0.5273	2,855,847	974,707	4,736,987	323,127,515	0.88%	0.30%	1.47%
Latino	16,667,000	2,351,714	0.7569	0.4614	1.0524	1,780,012	1,085,081	2,474,943	57,516,698	3.09%	1.89%	4.30%
Asian	6,328,000	407,523	0.3439	-0.4635	1.1513	140,147	(188,887)	469,181	17,448,886	0.80%	-1.08%	2.69%
Black	16,539,000	1,252,002	0.1757	-0.7216	1.0730	219,977	(903,445)	1,343,398	41,037,194	0.54%	-2.20%	3.27%
White	84,445,000	4,678,253	0.1280	-0.2413	0.4973	598,816	(1,128,862)	2,326,495	197,430,912	0.30%	-0.57%	1.18%
Other	1,840,000	156,952	0.2501	0.0496	0.4506	39,254	7,785	70,723	9,693,825	0.40%	0.08%	0.73%

Relative Latino undercount	350%	625%	294%

Column A: National or racial subgoups in population
Column B: Total Houlsholds as reported by Census CPS and reported in original Barreto report Table 5, pg 39
Column C: The number of additional HH that will not respond with a citizenship question, based on the Q1-Q2 drop-off rate
            Rate is reported in Table 5, pg 39 of original report. For example the national rate is 7.14% x 125,819,000 = 8,983,477
Column D: This is the estimated error rate per HH of how many people per HH imputation will be off by, based on imputation model
Column E: This is the lower confidence interval estimated error rate per HH of how many people per HH imputation will be off
Column F: This is the upper confidence interval estimated error rate per HH of how many people per HH imputation will be off
Column G: This multiplies the error rate in Col D x the households in Col C, e.g. 8,983,477 x .3179 = 2,855,847
Column H: This multiplies the lower bound of the error rate in Col E x the households in Col C
Column I: This multiplies the upper bound of the error rate in Col F x the households in Col C
Column J: This is the total population count as of 2016 Census ACS, to match to 2016 Household count in Column B
Column K: This is the net under or overcount rate, among the full population Col G / Col J, due to a citizenship question based on the midpoint estimate
Column L: This is the net under or overcount rate, among the full population Col H / Col J, due to a citizenship question based on the lower estimate
Column M: This is the net under or overcount rate, among the full population Col I / Col J, due to a citizenship question based on the upper estimate

Imputation models
reg q4 married latino english other usborn parents_fobo educ age inc_cats p_urb p_rent popdens no_trust if q1==1 & q2==1 [aw=weight]
predict nat_hh, xb
gen nat_diff = q4-nat_hh
sum q4 if q1==1 & q2==1 [aw=weight]
sum q4 if yes_not_yes==1 [aw=weight]
sum nat_diff if yes_not_yes==1 [aw=weight]
reg nat_diff if yes_not_yes==1 [aw=weight]
subset models to each racial group and replicate

Estimated net undercount after impuation in 2020 with citizenship (Q1 to Q8)

(A)	(B) Number of Households — Total HH	(C) Q1-Q8 rate	(D) Predicted HH error rate — estimate	(E) lower	(F) upper	(G) Predicted Net Undercount — estimate	(H) lower	(I) upper	(J) 2016 ACS Pop	(K) Under/Overcount Rate — estimate	(L) lower	(M) upper
National	125,819,000	12,200,668	-0.0551	-0.2361	0.1259	(672,257)	(2,880,578)	1,536,064	323,127,515	-0.21%	-0.89%	0.48%
Latino	16,667,000	2,765,055	0.5258	0.1759	0.8757	1,453,866	486,373	2,421,359	57,516,698	2.53%	0.85%	4.21%
Asian	6,328,000	980,840	-0.1053	-0.6535	0.4429	(103,282)	(640,979)	434,414	17,448,886	-0.59%	-3.67%	2.49%
Black	16,539,000	1,976,411	0.1820	-0.4168	0.7808	359,707	(823,768)	1,543,181	41,037,194	0.88%	-2.01%	3.76%
White	84,445,000	6,232,041	0.1280	-0.2413	0.4973	797,701	(1,503,791)	3,099,194	197,430,912	0.40%	-0.76%	1.57%
Other	1,840,000	200,008	0.2438	0.0511	0.4365	48,762	10,220	87,303	9,693,825	0.50%	0.11%	0.90%

Relative Latino undercount   253%   85%   886%

Column A: National or racial subgoups in population
Column B: Total Housholds as reported by Census CPS and reported in original Barreto report Table 5, pg 39
Column C: The number of additional HH that will not respond with a citizenship question, based on the Q1-Q8 drop-off rate
    Rate is reported in Table 6, pg 39 of original report. For example the national rate is 9.69% x 125,819,000 = 12,200,668
Column D: This is the estimated error rate per HH of how many people per HH imputation will be off by, based on imputation model
Column E: This is the lower confidence interval estimated error rate per HH of how many people per HH imputation will be off
Column F: This is the upper confidence interval estimated error rate per HH of how many people per HH imputation will be off
Column G: This multiplies the error rate in Col D x the households in Col C, e.g. 12,200,668 x .-.051 = (672,257)
Column H: This multiplies the lower bound of the error rate in Col E x the households in Col C
Column I: This multiplies the upper bound of the error rate in Col F x the households in Col C
Column J: This is the total population count as of 2016 Census ACS, to match to 2016 Household count in Column B
Column K: This is the net under or overcount rate, among the full population Col G / Col J, due to a citizenship question based on the midpoint estimate
Column L: This is the net under or overcount rate, among the full population Col H / Col J, due to a citizenship question based on the lower estimate
Column M: This is the net under or overcount rate, among the full population Col I / Col J, due to a citizenship question based on the upper estimate

Imputation models
```
reg q4 married latino english other usborn parents_fobo educ age inc_cats p_urb p_rent popdens no_trust if q1==1 & q2==1 [aw=weight]
predict nat_hh, xb
gen nat_diff = q4-nat_hh
sum q4 if q1==1 & q2==1 [aw=weight]
sum q4 if syes_not_yes==1 [aw=weight]
sum nat_diff if syes_not_yes==1 [aw=weight]
reg nat_diff if syes_not_yes==1 [aw=weight]
subset models to each racial group and replicate
```