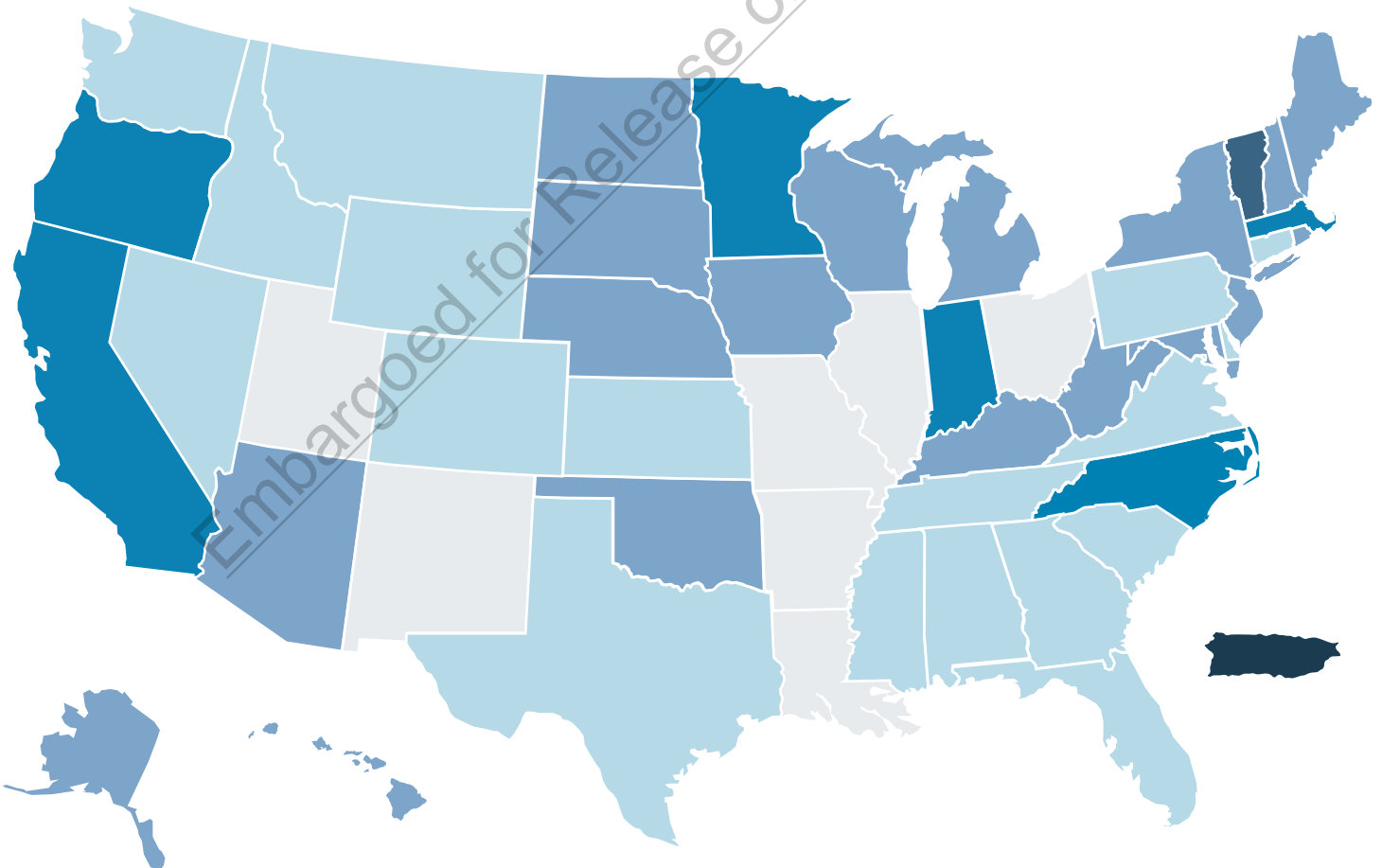




U.S. DEPARTMENT OF AGRICULTURE

Appendices: National- and State-Level Estimates of WIC Eligibility and WIC Program Reach in 2021

Final Report, Volume II



Appendices: National- and State-Level Estimates of WIC Eligibility and WIC Program Reach in 2021 Final Report, Volume II

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Appendix A. Improvements to the WIC Eligibility Estimates Methodology: CY 2021

This appendix describes two improvements to the methodology used to estimate WIC eligibility in 2021. The study team made the following improvements to the 2021 estimation methodology:

- ▶ **Improved the methodology for identifying adjunctively income-eligible individuals using the American Community Survey (ACS).** Historically, the WIC eligibility estimates have used the Annual Social and Economic Supplement of the Current Population Survey (CPS ASEC) as the primary data source for estimating income and adjunctive income eligibility at the national level. The ACS is used for State-level estimates. For the 2020 WIC eligibility estimates, the study team implemented an improvement that used the proportion of adjunctively income-eligible individuals identified in the ACS to increase the adjunctively income-eligible population in the national-level estimates. However, this approach did not assign program participation (e.g., Medicaid) at the individual level. Under the improved approach used to produce the 2021 eligibility estimates, the study team used the ACS to assign individual-level program participation in the CPS ASEC sample based on a logistic regression.
- ▶ **Updated the annual-to-monthly income adjustment factor using recently released Survey of Income and Program Participation (SIPP) data.** The annual-to-monthly factor adjusts for (1) fluctuations in monthly family income, (2) changes in adjunctive income eligibility through participation in Medicaid, the Supplemental Nutrition Assistance Program (SNAP), and Temporary Assistance for Needy Families (TANF), and (3) differences in 6-month versus 12-month certification periods for children. Historically, the SIPP is used to produce this adjustment factor because it provides monthly data on income and program participation. The 2016–2017 eligibility estimates presented in this report use data collected as part of the 2014 SIPP panel to calculate the annual-to-monthly adjustment factor. Under the improved approach used to produce the 2021 eligibility estimates, the study team used the 2018–2021 SIPP panels to update the adjustment factor for the 2018–2021 estimates.

A. Improved Methodology for Identifying Adjunctively Income-Eligible Individuals Using the ACS

The U.S. Census Bureau's CPS ASEC is the starting point for producing the national-level estimates of WIC eligibility because of the detailed income information available in the survey. The State-level estimates are based on a methodology that apportions the national figures using data from the ACS because this survey tends to have better information on program participation in Medicaid and SNAP, programs that confer adjunctive income eligibility to WIC. While both the ACS and the CPS ASEC underreport program participation, the ACS appears to underreport program participation less severely. The undercount may be particularly large in 2021 because of the Medicaid continuous enrollment provision of the Families First Coronavirus Response Act. To receive enhanced reimbursement funds, the provision requires States to maintain beneficiaries' enrollment even if the individuals are no longer income-eligible for Medicaid.

For the 2020 WIC eligibility estimates, the study team recommended using adjunctive income eligibility information from the ACS program participation data to adjust the CPS-based estimates of adjunctive income eligibility. This approach was implemented to calculate WIC eligibility for 2020 and produce

updated estimates for 2016–2019.¹ To implement this approach, the study team first calculated the percentage of all infants and children income-eligible for WIC in the CPS ASEC. The study team then identified the equivalent percentage of categorically eligible and income-eligible individuals in the ACS. All remaining categorically eligible individuals in the ACS were deemed not income-eligible. For the not income-eligible group, the study team calculated the percentage of individuals who would be considered adjunctively income-eligible and applied that percentage to the CPS ASEC estimates to increase the number of individuals identified as adjunctively income-eligible. This approach randomly assigned program participation status to individuals in the CPS ASEC based on program participation rates in the ACS stratified by age, race and ethnicity, and income eligibility. However, a key limitation of this approach is that it does not assess individual program participation.

1. Methodology

To address the limitations of the prior methodology, the study team selected a series of logistic regression models to impute Medicaid and SNAP status for CPS respondent data at the individual level.² The regression models are based on ACS data. The resulting regression parameter estimates from the ACS data are applied to the CPS data to impute Medicaid and SNAP participation and increase the adjunctively income-eligible population.

The study team reviewed and matched potential covariates in both the ACS and CPS ASEC to ensure all ACS covariates used in the models would have corresponding variables measured in the CPS ASEC. The final covariates used in the models include household income represented as a percentage of the Federal Poverty Guidelines (poverty ratio), race and ethnicity, household size, and WIC participant category (i.e., woman of reproductive age, infant, or child aged 1-4).

The study team developed three separate logistic regressions to predict the probability of being enrolled in (1) Medicaid, (2) SNAP, and (3) both Medicaid and SNAP among all ACS participants, yielding a predicted probability of program participation for each individual. The study team fit the following equation:

$$\begin{aligned} & \log \left[\frac{p(\widehat{Medicaid}_i)}{1 - p(\widehat{Medicaid}_i)} \right] \\ &= \beta_0 + \beta_1 PovertyRatio_i + \beta_2 White_i + \beta_3 Black_i + \beta_4 OtherRace_i + \beta_5 \log(HHS_i) \\ &+ \beta_6 Infant_i + \beta_7 Child_i + \alpha_i \end{aligned}$$

—where the dependent variable is Medicaid participation; *PovertyRatio_i* is a continuous variable representing income as the percentage of the Federal Poverty Guidelines based on household size; and race and ethnicity are operationalized as a series of indicator variables representing White, non-Hispanic; Black, non-Hispanic; and other race, non-Hispanic (reference group is Hispanic). The study team took the log of household size (*HHS_i*) to address right skew of the data. *Infant_i* and *Child_i* are binary variables indicating the individual’s potential WIC category (e.g., an indicator that the individual is an infant); the women category was the reference group. The equation also includes State fixed effects, represented as α_i .

¹ See <https://www.fns.usda.gov/wic/eligibility-and-program-reach-estimates-2020>.

² Although TANF also confers adjunctive income eligibility for WIC, the study team opted not to impute TANF participation. The ACS assesses TANF with other forms of public assistance, including State and Federal Social Security Income and General Assistance programs, in one survey item. TANF-only participants comprise only 0.1 percent of infants and children eligible for WIC (Farson Gray et al., 2022).

After fitting this model, the study team repeated the model with (1) SNAP participation and (2) both Medicaid and SNAP participation as the dependent variable. The study team used the same covariates in all three models.

The study team next used the regression results to obtain individual-level assignment of eligibility via Medicaid and/or SNAP among CPS ASEC respondents. The study team first set all individuals who reported participating in SNAP, TANF, or Medicaid in the CPS ASEC as adjunctively income-eligible. This included the imputation of Medicaid status among infants from 0 to 3 months implemented for the 2019 WIC eligibility estimates.³ The study team next applied the parameters derived from the ACS to all categorically eligible individuals in the CPS ASEC who did not report participating in either Medicaid or SNAP and who were not income-eligible. The resulting predicted probabilities were sorted in descending order. Individuals with the largest predicted probabilities for each participant group were imputed as eligible via Medicaid or SNAP until the sum of the person-level weights exceeded the estimated expected number of individuals eligible via Medicaid or SNAP based on the ACS counts. All remaining individuals were imputed as not adjunctively income-eligible for WIC. This process was repeated for income-eligible individuals who did not report participating in either Medicaid or SNAP, although individuals imputed from this group were already counted as income-eligible and did not further increase the estimated count of individuals eligible for WIC.

2. Results

The study team implemented the proposed logistic regression and applied the resulting coefficients to predict Medicaid and SNAP participation in the CPS ASEC sample. Table A.1 presents the coefficients from the final three models predicting participation in Medicaid, SNAP, and both Medicaid and SNAP.

Table A.1. Logistic Regression Results Predicting Medicaid and SNAP Participation Among ACS Participants

Variable	Medicaid		SNAP		Medicaid and SNAP	
	Estimate (SE)	p-value	Estimate (SE)	p-value	Estimate (SE)	p-value
Poverty ratio	-0.48 (0.00)	< 0.001	-0.54 (0.01)	< 0.001	-0.74 (0.01)	< 0.001
White, non-Hispanic	-0.28 (0.01)	< 0.001	-0.44 (0.01)	< 0.001	-0.31 (0.01)	< 0.001
Black, non-Hispanic	0.35 (0.01)	< 0.001	0.64 (0.01)	< 0.001	0.56 (0.02)	< 0.001
Other race, non-Hispanic	-0.12 (0.01)	< 0.001	-0.16 (0.01)	< 0.001	-0.14 (0.02)	< 0.001
Household size (log)	0.62 (0.01)	< 0.001	0.82 (0.01)	< 0.001	0.83 (0.01)	< 0.001
Infant	0.28 (0.01)	< 0.001	-0.04 (0.01)	0.015	0.12 (0.02)	< 0.001
Child	0.27 (0.01)	< 0.001	0.02 (0.01)	0.015	0.17 (0.01)	< 0.001

ACS = American Community Survey; SE = standard error; SNAP = Supplemental Nutrition Assistance Program
Source: IPUMS-USA, n.d.-b

³ Beginning with the 2020 CPS ASEC, information on health insurance coverage for infants aged 0–3 months was not recorded. See appendix E of Farson Gray et al., 2022, for more information.

The regression coefficients were saved and applied to the CPS ASEC data to predict probabilities of Medicaid and SNAP participation in the CPS ASEC sample. The study team imputed Medicaid and SNAP participation for all individuals who were not income-eligible and reported not participating in either Medicaid or SNAP. For example, individuals with the highest predicted probabilities of participating in Medicaid had their Medicaid participation switched from 0 to 1 and were considered Medicaid participants. These imputations were made until the share of Medicaid and SNAP participants in the CPS ASEC became equal to the share of reported Medicaid and SNAP participants in the ACS. The study team then imputed Medicaid and SNAP participation among income-eligible individuals to ensure consistency in analyses characterizing the total number of individuals participating in Medicaid and SNAP. Table A.2 compares the results from the updated methodology and the prior methodology used for the 2016–2020 eligibility estimates.

Table A.2. Comparison of Individuals Adjunctively Income-Eligible for WIC in 2021 Using Prior Methodology and Improved Methodology

Population	Original Methodology	Improved Methodology
Number eligible	12,096,235	11,989,762
Income-eligible	7,171,666	7,171,666
Adjunctively income-eligible	4,924,569	4,818,096
Total on Medicaid	9,802,424	9,324,430
Total on SNAP	5,602,566	5,747,811
Total on TANF	1,076,015	456,812
Total on TANF only	55,317	4,635

Note: Estimates for the U.S. territories are not included. Additional adjustments to the estimates are not presented in this table (see table C.1 for more information on adjustments to the estimates).

SNAP = Supplemental Nutrition Assistance Program; TANF = Temporary Assistance for Needy Families

Sources: IPUMS-USA, n.d.-b; U.S. Census Bureau, n.d.-a

As expected, the income-eligible population remains the same across both methods. The improved ACS imputation methodology finds 106,473 (0.9 percent) fewer adjunctively income-eligible individuals. This finding is the result of several differences in the approach. The original methodology used to produce the 2020 WIC eligibility estimates included TANF participation. The improved imputation methodology does not impute TANF participation because of differences in the measures used by ACS and CPS ASEC; however, this should only account for about 51,000 fewer individuals (see table A.2). Weights may also lead to small differences between the two methods.

3. Conclusion

The improved imputation method offers several advantages to prior methods. Most importantly, the improved approach facilitates individual-level analyses and adds confidence to the discussion of the household characteristics of individuals eligible for WIC. This approach also provides more flexibility for adapting the estimation procedures at the individual level in the future.

B. Updated Annual-to-Monthly Adjustment Factor

The CPS ASEC provides data on annual income and program participation in Medicaid, SNAP, and TANF. However, WIC eligibility is based on current income and program participation, which may fluctuate during the year. To account for this difference, adjustment factors are applied to estimate the effect of

monthly fluctuations in income and program participation and the effects of 6- and 12-month certification periods (in 2021, Arkansas and the U.S. Virgin Islands still used 6-month certification periods for children). These adjustment factors—computed separately for infants and children by race and ethnicity (non-Hispanic, White-only infants and children versus all other races and ethnicities)—are based on data from the SIPP, enabling the month-by-month observation of family circumstances.

Historically, 3 calendar years of SIPP data are needed to calculate the annual-to-monthly adjustment factor for each year. SIPP data are needed for the calendar year for which a factor is being estimated, 11 months prior to that calendar year, and March of the following year.⁴ However, past iterations of the eligibility estimates have averaged two annual adjustment factors to use all four waves of a panel; in practice, 4 years of data are needed to create the final adjustment factor. For example, the 2014 annual-to-monthly adjustment factor uses calendar year data for 2013, 2014, and 2015 from waves 1–3 of the 2014 SIPP panel; the 2015 annual-to-monthly adjustment factor uses calendar year data for 2014, 2015, and 2016 from waves 2–4 of the 2014 SIPP panel. These factors are then averaged, with the resulting adjustment factor applied to the eligibility estimates.

The adjustment factor is computed as the ratio of the percentage of average monthly eligible individuals over the percentage of annual eligible individuals identified in the SIPP. A ratio greater than 1 indicates more individuals are eligible in an average month compared with eligibility across the full year. Historically, the adjustment factor is greater than 1 or close to 1.

$$\text{Adjustment Factor} = \frac{\% \text{ of Average Monthly Eligible Individuals}}{\% \text{ of Annual Eligible Individuals}}$$

The study team sought to update this adjustment factor for the 2020 WIC eligibility estimates, but a fourth year of data collected from the 2018 SIPP was unavailable until August 31, 2022. For the 2021 WIC eligibility estimates, the study team updated the annual-to-monthly adjustment factor using more recent SIPP data. The study team also needed to account for changes to the SIPP weighting methodology and SIPP variables.

Recent changes to the SIPP weighting methodology

Starting with the 2018 SIPP, the U.S. Census Bureau released new SIPP panels each year. As each SIPP panel is released, waves from the prior SIPP are continued (see table A.3). For example, the 2018 SIPP includes wave 1 of the 2018 SIPP for January 2017 through December 2017. The 2019 SIPP includes wave 2 of the 2018 SIPP and wave 1 of the 2019 SIPP for January 2018 through December 2018. As a result, each SIPP can contain several waves of SIPP data from different SIPP panels for 1 calendar year. This presented a unique challenge for updating the annual-to-monthly adjustment factor because the U.S. Census Bureau now provides weights across panels rather than within panel. In contrast, the 2008 and 2014 SIPPs, for example, provided 4 calendar years within a single panel. The 2019 SIPP was also discontinued because of nonresponse issues during the COVID-19 pandemic. Table A.3 displays the calendar year and corresponding SIPP panels.

⁴ A child who is eligible in January of the calendar year could have begun a certification period as early as February of the prior year and still be certified as late as January of the calendar year in question. Therefore, monthly income eligibility is examined during the calendar year and 11 months prior. Data for March of the following year are needed because person age and sampling weight are measured as of March when computing annual “CPS-like” estimates.

Table A.3. SIPP Data Panels and Corresponding Calendar Years

SIPP Panel	CY 2017	CY 2018	CY 2019	CY 2020
2018 SIPP panel	Wave 1	Wave 2	Wave 3	Wave 4
2019 SIPP panel		Wave 1		
2020 SIPP panel			Wave 1	Wave 2
2021 SIPP panel				Wave 1

Note: The 2019 SIPP was discontinued because of data collection issues during the COVID-19 pandemic. The U.S. Census Bureau prioritized retaining the longitudinal component of the 2018 SIPP panel.

CY = calendar year; SIPP = Survey of Income and Program Participation

Changes to SIPP variables

In addition to changes to the weighting methodology, the 2018 SIPP also included renamed and edited variables needed to create the annual-to-monthly adjustment factor. Table A.4 summarizes variable changes between the 2014 and 2018 SIPP data releases required to produce the adjustment factor.

Table A.4. Variable Changes in SIPP Data

2014 SIPP		2018 SIPP	
Variable	Description	Variable	Description
RCDMTH	Monthly Medicaid coverage	RPUBTPE2	Medical Assistance public coverage during the month
EWICOWN	Owner of WIC benefit this month (person in whose name benefits are received)	EWIC_OWN	Owner of WIC benefit this month (person in whose name benefits are received)
RFSYN	SNAP coverage this month	RSNAP_MNYN	Received SNAP benefits this month
RSSICOV	SSI coverage in at least 1 month of reference year	RSSI_YRYN	Received SSI benefits in at least 1 month of reference period
RTANFYN	TANF coverage this month	RTANF_MNYN	Received TANF benefits this month
RWICYN	WIC coverage this month	RWIC_MNYN	Received WIC benefits this month

SIPP = Survey of Income and Program Participation; SNAP = Supplemental Nutrition Assistance Program; SSI = Supplemental Security Income; TANF = Temporary Assistance for Needy Families

1. Methodology

The methodological changes starting with the 2018 SIPP panel (U.S. Census Bureau, n.d.-c) affect the calculation of the annual-to-monthly adjustment factor. Because each SIPP includes waves from one or more panels, the weighting methodology must adapt to account for combining the samples in each wave. The study team contacted the U.S. Census Bureau for guidance on the weighting methodology. Because base panel-specific weights are not available for the latest SIPP data releases with overlapping panels (2018–2021 SIPP data), the study team used the base weights for all available panels (2018–2021 SIPP) to produce the adjustment factor to create a nationally representative number of infants and children for calendar years 2018, 2019, and 2020.

For the numerator of the adjustment factor, the study team used the corresponding month's weight and age to calculate monthly eligibility. For the denominator, the study team used the December weight, which corresponds to the calendar year weight, to calculate average annual eligibility. The U.S. Census Bureau provides guidance on creating monthly estimates of a characteristic (e.g., income) by taking the average value of consecutive months of data and using the December weight to calculate average monthly income.⁵ As a result, the study team no longer used the March weight from the following year to produce the adjustment factor. This change means that only 2 calendar years are needed to construct the adjustment factor.

Because of changes to the weighting methodology, the study team also calculated an average of the ratios across all months first versus an average across individuals before calculating the ratio in the numerator. The U.S. Census Bureau confirmed the validity of this approach and noted it helps minimize some of the month-to-month variation across individual estimates because of high standard errors.

2. Results

Table A.5 presents the results from the updated methodology and provides additional information on the adjustment factors from the 2008 and 2014 SIPP panels compared with the updated 2018–2021 SIPP adjustment factors (for calendar years 2018, 2019, and 2020).

Table A.5. Comparison of Annual-to-Monthly Adjustment Factors for Infants and Children Using the 2008 SIPP Panel, 2014 SIPP Panel, and 2018–2021 SIPP Panels

Race and Ethnicity		2008 SIPP	2014 SIPP	2018– 2019 SIPP (CY 2018)	2019– 2020 SIPP (CY 2019)	2020– 2021 SIPP (CY 2020)
Infants	White, non-Hispanic	1.20	1.1110	1.1397	1.0369	1.1235
	All other races and ethnicities	1.07	1.0141	0.9531	0.9710	0.9144
	Total	1.14	1.0593	1.0466	1.0094	0.9831
Children	White, non-Hispanic	1.09	1.1126	0.9075	0.9622	0.9587
	All other races and ethnicities	1.03	1.0326	0.9777	0.9363	0.9565
	Total	1.05	1.0681	0.9488	0.9459	0.9583

Note: The 2008 and 2014 SIPP adjustment factors are the previously published adjustment factors used in past iterations of the WIC eligibility estimates. The 2008 adjustment factors were only calculated to the hundredth decimal place.

CY = calendar year; SIPP = Survey of Income and Program Participation

Source: U.S. Census Bureau, n.d.-c

As table A.5 shows, the annual-to-monthly adjustment factor for children is implausibly low. Historically, the adjustment factor is above 1 or close to 1. The study team believes these low estimates result from changes in the weighting methodology and the difficulties of appropriately weighting a child's age over time within each year within the new SIPP panel structure.

3. Conclusion

The project's technical expert panel recommended updating the adjustment factors to ensure consistency with prior estimation years. To align with the past approach, the study team applied an average of the 2018, 2019, and 2020 annual-to-monthly adjustment factors to the 2021 WIC eligibility

⁵ See page 10, example 5, of this memorandum: <https://www2.census.gov/programs-surveys/sipp/tech-documentation/source-accuracy-statements/2018/sipp-2018-SA-statement-calendar-yr-data-coll.pdf>.

estimates. The study team and FNS decided to set adjustment factors to 1 when the calculated adjustment factor fell below 1, given the implausibility of the low rates. Table A.6 displays the final adjustment factors used to produce the 2021 eligibility estimates.

Table A.6. Final Adjustment Factors for 2021 WIC Eligibility Estimates

	Race and Ethnicity	2018	2019	2020	Averaged
Infants	White, non-Hispanic	1.1397	1.0369	1.1235	1.1000
	All other races and ethnicities	0.9531	0.9710	0.9144	1.0000 ^a
	Total	1.0466	1.0094	0.9831	1.0130
Children	White, non-Hispanic	0.9075	0.9622	0.9587	1.0000 ^b
	All other races and ethnicities	0.9777	0.9363	0.9565	1.0000 ^c
	Total	0.9488	0.9459	0.9583	1.0000^d

^a Averaged value is 0.9462

^b Averaged value is 0.9428

^c Averaged value is 0.9568

^d Averaged value is 0.9510

Source: U.S. Census Bureau, n.d.-c

Appendix B. Measures of Precision for the Estimates of Eligibility

Coverage and participation rate estimates for the Special Supplemental Nutrition Program for Women, Infants, and Children (WIC) were calculated, in part, using data from several large-scale, complex, nationally representative surveys, including the Annual Social and Economic Supplement of the Current Population Survey (CPS ASEC; U.S. Census Bureau, n.d.-a), the American Community Survey (ACS; IPUMS-USA, n.d.-b), and Puerto Rico Community Survey (PRCS; IPUMS-USA, n.d.-b). Several sources of error can cause sample estimates to differ from the true population values. These sources of error are commonly classified into two major categories: sampling errors and nonsampling errors.

To compensate for sampling errors, weights were constructed and prepared following data collection to inflate the respondents' data to represent the entire universe. To measure sampling errors, standard errors were produced for the 2021 national-, regional-, and State-level estimates of eligibility for WIC.⁶ Section A presents the standard errors for the national-level estimates, and section B presents the standard errors for the regional- and State-level estimates presented in this report. The standard errors for the regional- and State-level estimates were derived using the replicate weight methodology described in appendix E of Trippe et al. (2019). Section C presents the methodology for conducting tests of statistical significance in the tables and figures presented in this report.

Nonsampling errors occur in cases with a complete enumeration of a target population. Sources of error include unusable responses to vague or sensitive questions (e.g., whether an individual fully reports the kinds of benefits received); nonresponses; and errors in coding, scoring, and processing data. Nonresponse to the survey is one of the most common sources of nonsampling error because a characteristic being estimated may differ, on average, between respondents and nonrespondents. Systematic errors are reduced by the survey methodology used, including careful wording of questionnaire items and well-designed procedures for data collection and data management. However, no formulas can assess these types of nonsampling errors. Additional sources of error could include mismatches between concepts used for eligibility and those used for participation information, such as slight differences in definitions of WIC units or types of income.

A. Standard Errors and Coefficients of Variation for National-Level Estimates

Table B.1 presents the national-level estimates of WIC eligibility by participant category and race and Hispanic ethnicity and the standard errors and coefficients of variation. The coefficient of variation is the ratio of the standard error to the eligibility estimate. Because the coefficient of variation is expressed in percentage terms, it facilitates easier comparison of precision across estimates providing a measure of the relative precision of the estimates. A coefficient of variation equal to 1 indicates the standard error is equal to the point estimate. The U.S. Census Bureau recommends that coefficients of variation over 30 percent be interpreted with caution (U.S. Census Bureau, 2023).

⁶ Estimates of WIC eligibility for U.S. territories other than Puerto Rico are based on population data from the International Database, not on samples. These estimates are not subject to sampling variability.

The coefficients of variation for the 2021 national eligibility estimates were higher for infants (3.8 percent) and postpartum women (3.7 percent) than pregnant women (0.9 percent) or children (1.4 percent), reflecting the larger sample sizes for pregnant women and children.

Table B.1. Standard Errors and Coefficients of Variation for Estimated Number of Individuals Eligible for WIC by Participant Category and Race and Hispanic Ethnicity: CY 2021

Participant Category		Hispanic/ Latino	White-Only, Not Hispanic	Black-Only, Not Hispanic	Two or More Races or Other Race, Not Hispanic	Total
Number eligible	Infants	662,446	615,340	428,732	135,042	1,841,560
	Children	2,874,347	2,553,989	1,701,633	702,330	7,832,299
	Pregnant women	375,744	422,378	230,533	96,469	1,125,124
	Postpartum women	475,324	439,352	290,691	96,850	1,302,217
	Total	4,387,861	4,031,059	2,651,588	1,030,690	12,101,199
Standard error	Infants	30,799	41,863	40,008	20,750	69,074
	Children	59,624	72,279	55,764	42,906	111,073
	Pregnant women	5,390	7,246	4,061	3,138	9,816
	Postpartum women	22,128	29,891	27,126	14,882	48,477
	Total	85,608	106,780	62,110	59,778	151,958
Coefficient of variation (percent)	Infants	4.6	6.8	9.3	15.4	3.8
	Children	2.1	2.8	3.3	6.1	1.4
	Pregnant women	1.4	1.7	1.8	3.3	0.9
	Postpartum women	4.7	6.8	9.3	15.4	3.7
	Total	2.0	2.6	2.3	5.8	1.3

Note: The coefficient of variation is defined as the ratio of the standard error to the eligibility estimate. Estimates for U.S. territories other than Puerto Rico are not included in the totals.

CY = calendar year

Sources: IPUMS-USA, n.d.-b; U.S. Census Bureau, n.d.-a

B. Standard Errors and Coefficients of Variation for Regional- and State-Level Estimates

Tables B.2 and B.3 present the standard errors and the coefficients of variation for the 2021 regional- and State-level estimates, respectively.

Table B.2. Standard Errors and Coefficients of Variation for Estimated Number of Individuals Eligible for WIC by FNS Region and Participant Category: CY 2021

	FNS Region	Infants	Children	Pregnant Women	Postpartum Women	Total
Number eligible	Northeast	161,934	702,888	99,232	118,674	1,082,728
	Mid-Atlantic	204,462	896,476	125,962	147,419	1,374,319
	Southeast	433,693	1,740,291	262,626	297,188	2,733,798
	Midwest	274,912	1,216,543	172,370	190,040	1,853,865
	Southwest	367,909	1,532,537	220,278	254,300	2,375,024
	Mountain Plains	96,458	412,096	61,464	69,128	639,146
	Western	302,193	1,331,467	183,192	225,467	2,042,318
	Total	1,841,560	7,832,299	1,125,124	1,302,217	12,101,199
Standard error	Northeast	7,058	24,251	2,293	5,128	26,046
	Mid-Atlantic	8,851	23,707	2,883	6,342	27,476
	Southeast	17,249	41,853	4,097	11,744	48,908
	Midwest	11,103	36,396	2,959	7,620	40,421
	Southwest	14,802	36,499	3,688	10,175	42,570
	Mountain Plains	4,803	13,722	2,008	3,425	16,231
	Western	12,195	48,889	3,159	9,022	54,569
	Total	69,074	111,073	9,816	48,477	151,958
Coefficient of variation (percent)	Northeast	4.4	3.5	2.3	4.3	2.4
	Mid-Atlantic	4.3	2.6	2.3	4.3	2.0
	Southeast	4.0	2.4	1.6	4.0	1.8
	Midwest	4.0	3.0	1.7	4.0	2.2
	Southwest	4.0	2.4	1.7	4.0	1.8
	Mountain Plains	5.0	3.3	3.3	5.0	2.5
	Western	4.0	3.7	1.7	4.0	2.7
	Total	3.8	1.4	0.9	3.7	1.3

Note: The coefficient of variation is defined as the ratio of the standard error to the eligibility estimate. Estimates for U.S. territories other than Puerto Rico are not included in regional totals or standard errors.

CY = calendar year; FNS = Food and Nutrition Service

Sources: IPUMS-USA, n.d.-b; U.S. Census Bureau, n.d.-a

The coefficients of variation for the estimated numbers of individuals eligible for WIC were higher at the State level than the national level (see table B.3). For States, the coefficient of variation ranged from 1.6 percent in Texas to 12.4 percent in Hawaii. Estimates with higher coefficients of variation should be interpreted with caution, especially for small States. At the regional level, the coverage rates were somewhat more precise than the State-level estimates, with coefficients of variation ranging from 1.8 in the Southeast and Southwest to 2.7 in the Western Region.

Table B.3. Standard Errors and Coefficients of Variation for Estimated Number of Individuals Eligible for WIC by State and FNS Region: CY 2021

State/FNS Region		Number Eligible	Standard Error	Coefficient of Variation (Percent)
State	Alabama	220,194	6,131	2.8
	Alaska	28,091	3,015	10.7
	Arizona	271,936	8,057	3.0
	Arkansas	144,987	4,566	3.1
	California	1,417,356	33,223	2.3
	Colorado	170,527	4,544	2.7
	Connecticut	96,056	3,319	3.5
	Delaware	36,423	1,935	5.3
	District of Columbia	23,076	1,556	6.7
	Florida	814,565	15,580	1.9
	Georgia	471,020	10,914	2.3
	Hawaii	44,967	5,505	12.2
	Idaho	66,665	2,908	4.4
	Illinois	419,107	9,752	2.3
	Indiana	252,238	6,994	2.8
	Iowa	104,993	3,890	3.7
	Kansas	96,619	4,024	4.2
	Kentucky	180,011	4,641	2.6
	Louisiana	234,766	5,960	2.5
	Maine	30,828	1,681	5.5
	Maryland	213,702	5,933	2.8
	Massachusetts	181,992	5,171	2.8
	Michigan	345,945	9,550	2.8
	Minnesota	158,386	7,606	4.8
	Mississippi	150,349	4,466	3.0
	Missouri	215,077	5,900	2.7
	Montana	32,286	2,166	6.7
	Nebraska	60,106	3,124	5.2
	Nevada	116,730	4,559	3.9
	New Hampshire	26,154	1,943	7.4
	New Jersey	281,823	6,887	2.4
	New Mexico	100,479	3,570	3.6
	New York	701,750	18,266	2.6
	North Carolina	412,059	10,459	2.5
	North Dakota	19,350	1,970	10.2
	Ohio	411,728	10,396	2.5
	Oklahoma	171,640	7,152	4.2
	Oregon	122,707	4,783	3.9
	Pennsylvania	397,747	9,231	2.3

State/FNS Region		Number Eligible	Standard Error	Coefficient of Variation (Percent)
State (continued)	Puerto Rico	111,437	2,719	2.4
	Rhode Island	30,176	1,638	5.4
	South Carolina	212,200	5,867	2.8
	South Dakota	29,103	2,419	8.3
	Tennessee	273,400	6,969	2.5
	Texas	1,351,113	21,739	1.6
	Utah	100,103	3,521	3.5
	Vermont	15,772	1,073	6.8
	Virginia	246,807	8,465	3.4
	Washington	245,803	8,713	3.5
	West Virginia	63,305	2,668	4.2
	Wisconsin	161,468	5,041	3.1
	Wyoming	16,078	1,114	6.9
FNS Region	Northeast	1,082,728	26,046	2.4
	Mid-Atlantic	1,374,319	27,476	2.0
	Southeast	2,733,798	48,908	1.8
	Midwest	1,853,865	40,421	2.2
	Southwest	2,375,024	42,570	1.8
	Mountain Plains	639,146	16,231	2.5
	Western	2,042,318	54,569	2.7
	Total	12,101,199	151,958	1.3

Note: The coefficient of variation is defined as the ratio of the standard error to the eligibility estimate. State and regional eligibility estimates include individuals in ITOs who were eligible for WIC. Estimates for U.S. territories other than Puerto Rico are not included in regional totals or standard errors.

CY = calendar year; FNS = Food and Nutrition Service; ITO = Indian Tribal Organization

Sources: IPUMS-USA, n.d.-b; U.S. Census Bureau, n.d.-a

The coefficients of variation for State-level coverage rates by participant category were generally larger than the coefficients observed for overall State-level coverage rates (see table B.4). The coefficients of variation for infant coverage rates ranged from 4.2 percent in California and Texas to 19.5 percent in the District of Columbia. Similarly, the coefficients of variation were large for the estimated coverage rates by race and Hispanic ethnicity by State (see table B.5). The coefficients of variation for White-only, non-Hispanic individuals ranged from 3.2 percent (Ohio) to 54.9 percent (District of Columbia). It is important to use caution when examining State coverage rates by participant category and race and ethnicity, especially for small States.

This report presents many coverage rates. In the past, certain subgroups with minimal coverage in the surveys (e.g., race/ethnicity stratifications in small States with homogenous populations) have exhibited large confidence intervals and confidence intervals that extend beyond the expected bounds of the coverage rates. In theory, coverage rates should fall between 0 and 100; in reality, a coverage rate over 100 would be possible if States enrolled more WIC participants than were truly eligible for the program. The third National Survey of WIC Participants indicates the WIC case error rate is 2 percent (Magness et al., 2021), suggesting a low likelihood of a true coverage rate above 100 percent.

This report uses the Wilson-Score method for producing confidence intervals. The Wilson-Score method adapts the traditional confidence interval methodology to acknowledge that coverage rate estimates

near 0 and 100 do not align with the traditional confidence interval assumptions. The Wilson-Score method uses the same inputs—point estimate, standard error, sample size, and z-value—to create more realistic confidence bounds. Wilson-Score confidence intervals diverge from those of the traditional method to a greater degree as the coverage rate estimate moves away from 50. Importantly, this means they become less symmetrical around the point estimate in a reflection of the skewness of a coverage rate's range as it approaches 0 or 100. The interactive graphics that accompany this report on the FNS website use the Wilson-Score method for generating confidence intervals. Because the confidence intervals are no longer symmetrical around the point estimate, margins of error would be challenging to interpret and have been replaced with coefficients of variation in multiple tables.

The Wilson score method cannot be applied to point estimates below 0 or over 100. Coverage rates over 100 percent are suppressed in this report.

C. Statistical Significance Testing for Report Tables and Figures

The tables and figures in this report present several types of statistical comparisons: racial and ethnic groups by participant category versus national estimates, State and FNS Region estimates versus national estimates, and 2021 estimates versus 2020 estimates. Statistical significance testing is conducted using z-tests. This methodology proceeds with the following steps:

1. Calculate the difference between the two estimates being compared.
2. Calculate the standard error of the difference as the square root of the sum of the estimate variances minus two times the covariance of the two estimates.
3. Divide the step 1 difference by the step 2 standard error and calculate the *p*-value of the result.
4. If the *p*-value is less than .05, the difference is said to be statistically significant at the 95 percent confidence level.

Table B.4. Coefficients of Variation of WIC Coverage Rates by State and Participant Category: CY 2021

State	Infants	1-Year-Old Children	2-Year-Old Children	3-Year-Old Children	4-Year-Old Children	All Children	Pregnant Women	Postpartum Women	Total
Alabama	7.3	5.5	5.9	5.0	7.9	3.0	6.2	7.3	2.8
Alaska	14.3	14.6	12.9	12.7	46.2	14.9	13.6	14.3	10.7
Arizona	6.3	6.1	4.4	4.4	13.6	3.7	5.1	6.3	3.0
Arkansas	6.8	6.8	6.3	6.7	10.5	3.7	5.7	6.7	3.1
California	4.1	4.0	3.2	3.2	11.0	3.2	2.0	4.1	2.3
Colorado	6.8	6.0	5.9	5.1	8.8	2.9	5.8	6.8	2.7
Connecticut	8.0	8.0	8.4	9.2	12.8	4.0	7.0	8.0	3.5
Delaware	15.3	13.1	13.4	11.8	14.2	4.8	14.1	15.2	5.3
District of Columbia	19.5	24.2	20.0	14.8	18.8	6.1	19.2	19.4	6.7
Florida	4.6	4.3	3.8	3.7	7.9	2.4	2.8	4.6	1.9
Georgia	5.0	5.5	4.9	4.1	8.8	2.8	3.4	5.0	2.3
Hawaii	12.5	9.8	10.7	10.3	64.5	16.6	11.5	12.4	12.2
Idaho	10.8	9.5	9.0	9.1	11.0	4.8	9.9	10.8	4.4
Illinois	5.8	5.0	4.3	3.9	8.7	2.6	4.5	5.8	2.3
Indiana	6.0	5.4	5.0	5.0	10.5	3.4	4.6	6.0	2.8
Iowa	8.5	8.1	7.3	8.0	9.9	3.8	7.6	8.5	3.7
Kansas	8.1	7.7	6.7	7.1	15.0	4.7	7.1	8.1	4.2
Kentucky	6.0	6.2	4.9	5.8	10.6	3.2	4.8	6.0	2.6
Louisiana	6.5	6.5	6.2	5.4	8.9	3.1	5.4	6.5	2.5
Maine	12.1	12.5	13.6	11.7	14.5	6.3	11.1	12.0	5.5
Maryland	6.7	6.7	5.9	5.7	9.4	3.3	5.5	6.6	2.8
Massachusetts	6.6	6.7	6.3	5.7	13.7	4.1	5.6	6.6	2.8
Michigan	5.6	5.4	4.7	4.7	10.9	3.5	4.2	5.6	2.8
Minnesota	8.7	6.4	7.9	6.2	17.3	5.7	7.8	8.6	4.8
Mississippi	7.4	6.9	5.4	7.0	8.7	2.8	6.4	7.4	3.0
Missouri	6.6	5.7	5.4	5.0	9.5	3.0	5.3	6.6	2.7
Montana	14.4	13.1	10.1	11.8	18.0	6.8	14.0	14.4	6.7
Nebraska	12.1	11.9	10.4	9.8	14.5	5.6	11.0	12.1	5.2
Nevada	8.7	7.3	7.0	6.9	13.2	4.2	8.0	8.7	3.9

State	Infants	1-Year-Old Children	2-Year-Old Children	3-Year-Old Children	4-Year-Old Children	All Children	Pregnant Women	Postpartum Women	Total
New Hampshire	16.5	13.0	13.3	11.0	18.4	7.1	15.8	16.4	7.4
New Jersey	6.6	6.1	5.2	5.3	8.6	2.9	5.4	6.6	2.4
New Mexico	9.1	9.6	6.8	6.4	14.5	4.1	8.3	9.1	3.6
New York	4.9	4.3	3.7	3.7	12.9	3.6	3.2	4.8	2.6
North Carolina	5.4	5.1	4.6	4.1	11.3	3.5	3.9	5.3	2.5
North Dakota	15.2	18.6	14.7	16.8	40.7	12.4	14.6	15.2	10.2
Ohio	5.7	4.9	4.0	4.4	11.2	3.3	4.2	5.6	2.5
Oklahoma	6.6	7.0	5.9	6.1	21.7	6.0	5.3	6.6	4.2
Oregon	8.5	7.7	6.8	6.2	14.2	4.2	7.6	8.4	3.9
Pennsylvania	5.9	5.1	5.1	4.5	9.3	2.9	4.5	5.9	2.3
Puerto Rico	7.5	6.4	5.7	5.7	5.1	1.6	7.5	7.5	2.4
Rhode Island	14.0	15.1	14.8	12.4	14.2	6.1	12.7	14.0	5.4
South Carolina	6.7	6.0	5.2	4.8	8.1	2.9	5.5	6.7	2.8
South Dakota	13.2	13.8	11.9	14.9	39.1	11.9	12.3	13.2	8.3
Tennessee	6.2	5.4	5.1	5.2	9.0	3.1	4.9	6.1	2.5
Texas	4.2	4.0	3.4	3.1	5.7	2.0	2.0	4.1	1.6
Utah	7.9	8.0	8.5	7.8	9.3	3.5	7.0	7.9	3.5
Vermont	18.5	17.3	19.6	19.5	19.0	8.8	18.1	18.5	6.8
Virginia	6.4	5.6	5.2	5.1	14.7	4.4	5.0	6.3	3.4
Washington	6.3	6.1	4.9	4.9	16.9	4.7	5.1	6.3	3.5
West Virginia	10.3	8.7	7.5	7.9	13.5	4.2	9.7	10.3	4.2
Wisconsin	8.3	7.7	6.3	6.5	11.9	4.2	7.1	8.3	3.1
Wyoming	13.6	16.1	13.0	16.9	23.1	8.1	12.6	13.6	6.9
Total	3.8	3.4	2.7	2.6	2.9	1.4	0.9	3.7	1.3

Note: The coefficient of variation is defined as the ratio of the standard error of the coverage rate to the point estimate of the coverage rate. Estimates for U.S. territories other than Puerto Rico are not included in the totals.

CY = calendar year

Sources: IPUMS-USA, n.d.-b; U.S. Census Bureau, n.d.-a

Table B.5. Coefficients of Variation of WIC Coverage Rates by State and by Race and Hispanic Ethnicity: CY 2021

State	Hispanic/Latino	White-Only, Not Hispanic	Other Than White-Only, Not Hispanic ^a	Total
Alabama	8.1	4.2	4.4	2.8
Alaska	25.8	10.9	20.2	10.7
Arizona	2.9	4.6	13.3	3.0
Arkansas	4.7	4.5	6.2	3.1
California	2.1	3.5	11.3	2.3
Colorado	3.8	4.7	9.2	2.7
Connecticut	4.1	6.4	10.0	3.5
Delaware	10.5	10.0	8.1	5.3
District of Columbia	16.8	55.2	7.7	6.7
Florida	2.5	3.4	4.6	1.9
Georgia	4.1	3.7	3.9	2.3
Hawaii	10.0	14.6	19.4	12.2
Idaho	7.6	5.6	24.2	4.4
Illinois	3.1	4.0	5.3	2.3
Indiana	5.1	3.5	7.1	2.8
Iowa	8.7	4.7	9.0	3.7
Kansas	6.1	4.9	15.1	4.2
Kentucky	7.4	3.4	9.1	2.6
Louisiana	6.8	4.7	3.9	2.5
Maine	46.8	5.8	18.4	5.5
Maryland	4.7	5.1	4.8	2.8
Massachusetts	3.3	5.1	8.9	2.8
Michigan	5.9	3.6	5.5	2.8
Minnesota	7.6	4.7	11.3	4.8
Mississippi	12.0	5.3	4.1	3.0
Missouri	8.6	3.6	6.7	2.7
Montana	27.0	7.5	17.8	6.7
Nebraska	10.3	5.9	14.5	5.2
Nevada	4.3	9.3	9.5	3.9
New Hampshire	21.3	6.6	36.9	7.4
New Jersey	3.5	4.6	6.3	2.4
New Mexico	4.0	9.2	16.4	3.6
New York	2.7	3.3	7.0	2.6
North Carolina	3.4	3.7	5.2	2.5
North Dakota	24.1	11.2	23.6	10.2
Ohio	6.1	3.3	5.6	2.5
Oklahoma	4.2	4.3	11.6	4.2
Oregon	4.8	5.0	16.4	3.9

State	Hispanic/Latino	White-Only, Not Hispanic	Other Than White-Only, Not Hispanic ^a	Total
Pennsylvania	3.7	3.5	5.9	2.3
Rhode Island	8.8	9.2	11.7	5.4
South Carolina	5.6	4.3	4.4	2.8
South Dakota	30.2	8.4	20.0	8.3
Tennessee	5.3	3.7	4.9	2.5
Texas	2.1	3.5	4.6	1.6
Utah	7.5	5.4	12.7	3.5
Vermont	†	7.1	23.6	6.8
Virginia	4.6	4.1	6.2	3.4
Washington	3.3	4.0	14.8	3.5
West Virginia	21.3	5.0	19.1	4.2
Wisconsin	6.7	4.4	8.1	3.1
Wyoming	20.8	8.0	30.7	6.9
Total	2.0	2.6	2.5	1.3

Note: The coefficient of variation is defined as the ratio of the standard error of the coverage rate to the point estimate of the coverage rate.

Estimates for U.S. territories other than Puerto Rico are not included in the totals.

CY = calendar year

† indicates an unreliable coverage rate over 100 percent

^a This category includes non-Hispanic individuals who self-identify as two or more races or self-identify as a race other than White. These categories were combined because of sample size concerns.

Sources: IPUMS-USA, n.d.; U.S. Census Bureau, n.d.-a

Appendix C. Detailed Tables for National-Level WIC Eligibility Estimates: CY 2021

This appendix presents tables containing detailed information on the 2021 national-level estimates of WIC eligibility by participant category. The tables document the assumptions and calculations used to produce the national estimates and provide more detailed breakdowns of the estimates by participant category. Several tables include the same information provided in volume I. These tables are repeated to provide a comprehensive record of all methods and estimates used for 2021. Unless otherwise indicated, all tables that show national data provide information for individuals in the 50 States, the District of Columbia, Puerto Rico, and the other four U.S. territories served by WIC. A description of each table follows.

Impact of the COVID-19 Pandemic and Public Health Emergency

The COVID-19 public health emergency influenced WIC program eligibility patterns and WIC program operations. The Families First Coronavirus Response Act authorized FNS to issue waivers to provide flexibilities to help State agencies continue to safely serve WIC participants during the pandemic. States varied in the use of waivers, which could have affected program participation. See <https://www.fns.usda.gov/disaster/pandemic/covid-19/wic-waivers-flexibilities> for a list of waivers issued to each State. For example, States that waived the physical presence requirement or issued benefits remotely may have seen an increase in WIC participation because of these policies.

Table C.1. Steps, Data Sources, Methods, and Adjustment Factors Used for Estimates of WIC Eligibility: CY 2021

This table summarizes the data sources, methods, and adjustment factors used to estimate WIC eligibility for infants, children, and pregnant and postpartum women. The following data sources were used for the 2021 estimates: (1) 2022 Current Population Survey Annual Social and Economic Supplement (CPS ASEC) data (U.S. Census Bureau, n.d.-a); (2) 2019 and 2021 American Community Survey (ACS) and Puerto Rico Community Survey (PRCS) data (Integrated Public Use Microdata Series-USA [IPUMS-USA], n.d.-b); (3) U.S. Census Bureau International Database (IDB) data (U.S. Census Bureau, n.d.-b); and (4) National Vital Statistics data (National Center for Health Statistics, n.d.).⁷

Table C.2. Estimated Average Monthly Number of Individuals Eligible for WIC by Participant Category: CY 2021

This table shows the estimated average monthly number of individuals eligible for WIC by participant category in calendar year (CY) 2021 and each group as a percentage of the total number eligible. It also provides the total population in each participant category and the eligibility rate, defined as the percentage of the total population in each participant category estimated to be eligible for WIC.

⁷ The following terms are used in table C.1 and appear again in this volume; they are defined here for clarity: Supplemental Nutrition Assistance Program (SNAP); Temporary Assistance for Needy Families (TANF).

Table C.3a1. Vital Statistics Estimates and CPS ASEC Estimates for Infants and Children by Year of Age and Sex: March 2022

This table shows the Vital Statistics population estimates and CPS weighted population figures by year of age and sex and the ratio of Vital Statistics estimates to CPS figures (National Center for Health Statistics, n.d.).

Table C.3b1. Effects of Applying Population Adjustment Factors to Population Counts for Infants and Children in the CPS ASEC by Year of Age and Sex: March 2022

This table shows the results of applying the population adjustment factors (computed based on the information in table C.3a1) to the weights for infants and children in the March CPS ASEC data (U.S. Census Bureau, n.d-a).

Table C.3a2. Four-Year Accumulations of U.S. Census Bureau Estimates and CPS ASEC Estimates for Pregnant Women by Year of Age and Race and Hispanic Ethnicity: March 2019–March 2022

This table shows the adjustment of sampling weights for women of reproductive age in the CPS ASEC data. For each year of age (ages 15–44) and each of four race and ethnicity groups (White-Only, Not Hispanic; Black-Only, Not Hispanic; Two or More Races or Other Race, Not Hispanic; and Hispanic/Latino), the table shows the U.S. Census Bureau population estimates for 2018–2021 (U.S. Census Bureau, 2022b); the 4-year accumulation of the March CPS ASEC total weighted population (U.S. Census Bureau, n.d.-a); and the ratio of those two figures. For example, for the 2021 estimates, that ratio was used as the weight adjustment when the direction of the difference between the U.S. Census Bureau population estimate and the CPS weighted count (see table C.3b2) was the same as for the 4-year accumulations presented in table C.3a2 (i.e., if the U.S. Census Bureau figure was either greater or smaller in both cases). If the direction of the difference was not the same for a particular group, no weight adjustment was performed (i.e., the weight adjustment factor was 1.0). Table C.3c2 shows the final results of applying the population adjustment factors (computed based on the information in tables C.3a2 and C.3b2).

Table C.3b2. U.S. Census Bureau Estimates and CPS ASEC Estimates for Pregnant Women by Year of Age and Race and Hispanic Ethnicity: March 2022

This table shows the U.S. Census Bureau population estimates and CPS weighted population figures by year of age and race and Hispanic ethnicity, and the ratio of the U.S. Census Bureau population estimates to CPS figures (U.S. Census Bureau, 2022b; see the description of table C.3a2 for an explanation of how this information was used in the weight adjustment process).

Table C.3c2. Effects of Applying Population Adjustment Factors to Population Counts for Pregnant Women in the CPS ASEC by Year of Age and Race and Hispanic Ethnicity: March 2022

This table shows the results of applying the population adjustment factors (computed based on the information in tables C.3a3 and C.3b2) to the weights for women of reproductive age in the March CPS ASEC data.

Table C.4. Breastfeeding Adjustment Factor Calculations for Postpartum Women Eligible for WIC: CY 2021

This table shows information on the computation of postpartum eligibility for breastfeeding and non-breastfeeding mothers. The first three sections of the table show three breastfeeding rates based on National Immunization Survey (NIS) data from the Centers for Disease Control and Prevention (CDC)—the percentage of new mothers breastfeeding their infants in the hospital after giving birth (the percentage ever breastfed), at 6 months postpartum, and at 12 months postpartum—with variations by race and Hispanic ethnicity.

The next section of the table shows two adjustment factors. The first factor adjusts for the fact that the number of postpartum women can differ from the number of infants because of the combined impact of multiple births and infant deaths. The second factor is used to estimate average monthly breastfeeding rates; that is, the average monthly rate across the first 6 months is assumed to be equal to the mean of the ever-breastfed and 6-month rates multiplied by this factor. This factor, 0.87, is assumed to be constant across the years presented in this report.

The last section of the table shows the final postpartum adjustment factors produced using the information in the prior portions of the table. For each year, the factors are shown for estimating breastfeeding and non-breastfeeding eligibility for each race and ethnicity group. For example, for Hispanic/Latino women in 2021, the estimated average monthly number of women eligible for WIC as breastfeeding mothers was computed as 0.4703 times the estimated number of Hispanic/Latino infants eligible for WIC.

Table C.5. Step-by-Step Adjustments Applied to CPS ASEC Data to Derive the Average Monthly Number of Individuals Eligible for WIC by Participant Category: CY 2021

This table shows the step-by-step adjustments made from the total number of infants, children, and pregnant women to the final numbers of infants, children, and pregnant and postpartum women eligible for WIC in the United States in 2021; it also shows the total number eligible in Puerto Rico and each of the other four U.S. territories WIC serves. See tables D.7a and D.7b for the step-by-step adjustments made to derive the total number of individuals eligible for WIC in Puerto Rico and other territories, respectively.

Tables C.6a and C.6b. Estimated Average Monthly Numbers of Infants and Children by Year of Age, Eligible for WIC by Demographic and Income Characteristics and Adjunctive Income Eligibility: CY 2021

These tables show the estimates of infants and children eligible for WIC by demographic and income characteristics in the 2022 March CPS ASEC. These tables do not include infants and children in the U.S. territories. Tables C.6a1 and C.6a2 show the characteristics of infants and children eligible for WIC in the data as determined by using unadjusted person weights, and tables C.6b1 and C.6b2 show these characteristics as determined by using weights that have been fully adjusted, including adjustments for the CPS undercount/overcount (population adjustment), monthly income and certification periods (annual-to-monthly adjustment), and nutritional risk. A comparison of table C.6a and table C.6b shows the impact of the CPS weight adjustments on the national estimates of infants and children eligible for WIC.

Results are also shown in terms of counts (see tables C.6a1 and C.6b1) and percentages (see tables C.6a2 and C.6b2). For example, C.6b1 shows that with the adjusted weights, 889,617 male infants and

935,398 female infants were eligible for WIC in an average month in 2021; C.6b2 shows that among infants eligible for WIC, 48.7 percent were male and 51.3 percent were female.

Table C.7. Changes in the Total Population, Total WIC Eligibility, and WIC Eligibility Rates by Participant Category: CY 2020–CY 2021

This table shows the changes in the numbers of individuals in the total population, the population eligible for WIC, and the WIC eligibility rate by participant category between 2020 and 2021.

Table C.8. Stepwise Comparison of Changes in Average Monthly Numbers of Infants and Children Eligible for WIC as Estimated in the March CPS ASEC: CY 2020–CY 2021

This table shows the step-by-step percentage changes in the numbers of infants and children from 2020 to 2021 (excluding the U.S. territories). For example, it shows that the number of infants and children eligible for WIC through adjunctive income eligibility increased by 19.1 percent between 2020 and 2021.

Table C.9. Standard Error and Coefficient of Variation for Estimates by Participant Category: CY 2021

This table shows the standard error of the estimate and coefficient of variation for the national estimates of the total population of women, infants, and children and the number of individuals eligible for WIC by participant category.

Table C.1. Steps, Data Sources, Methods, and Adjustment Factors Used for Estimates of WIC Eligibility: CY 2021

Step		Data Source(s)	Methods and Adjustment Factors	
Infants and children	Categorical eligibility	<ul style="list-style-type: none"> 2022 CPS ASEC, national estimates 2019 and 2021 ACS, State estimates 2019 and 2021 PRCS, Puerto Rico estimates 2021 IDB, other island territories estimates 	Identify individuals aged 0, 1, 2, 3, and 4 in each survey.	
	Weight adjustment	<ul style="list-style-type: none"> National estimates <ul style="list-style-type: none"> Vital Statistics and March CPS ASEC for 2022 State and Puerto Rico estimates <ul style="list-style-type: none"> Postcensal population estimates from U.S. Census Bureau 	Adjust sampling weights to account for undercount or overcount in CPS estimates relative to Vital Statistics estimates by year of age and sex.	Adjustment Factors for Females <ul style="list-style-type: none"> Infants: 1.0517 1-year-old children: 0.9819 2-year-old children: 0.9848 3-year-old children: 1.0328 4-year-old children: 0.9630
				Adjustment Factors for Males <ul style="list-style-type: none"> Infants: 1.0795 1-year-old children: 0.9572 2-year-old children: 1.0068 3-year-old children: 0.9900 4-year-old children: 0.9830
	Income eligibility	<ul style="list-style-type: none"> 2022 CPS ASEC, national estimates 2019 and 2021 ACS, State estimates 2019 and 2021 PRCS, Puerto Rico estimates 2021 IDB, other island territories estimates Blended 2020 and 2021 FPGs 	Count as eligible if prior year's annual income was \leq 185 percent of the Federal Poverty Guidelines.	
	Adjunctive income eligibility	<ul style="list-style-type: none"> 2022 CPS ASEC 2021 ACS 2021 PRCS 	Add as eligible those infants and children in families that reported participating in Medicaid, SNAP, or TANF at any point during the prior calendar year. Use 2021 ACS to impute Medicaid and SNAP participation for those who do not report participating in either program to account for potential underreporting of program participation in CPS ASEC.	
	Adjust for fluctuations in monthly income and certification periods	Average of factors from 2018, 2019, 2020, and 2021 Survey of Income and Program Participation panel	Adjust estimates to account for impact of monthly fluctuations in income and program participation and for impact of 6- and 12-month certification periods. ^a <ul style="list-style-type: none"> Infants adjustment factor (used for estimates from PRCS and IDB data): 1.0130 Infants adjustment factors by race and ethnicity (used for estimates from CPS ASEC and ACS data) <ul style="list-style-type: none"> White-Only, Not Hispanic: 1.1000 All others: 1.0000 Children adjustment factor assuming 12-month certification periods (used for estimates from PRCS and IDB data): 1.0000 Children adjustment factors by race and ethnicity (used for estimates from CPS ASEC data) <ul style="list-style-type: none"> White-Only, Not Hispanic: 1.0000 All others: 1.0000 	
	Adjust for nutritional risk	CNSTAT panel and FNS	Multiply infant and child estimates by factor to account for otherwise eligible infants and children who might not be at nutritional risk. Estimates assume all infants and children were at nutritional risk. Adjustment factor for infants and children: 1.0000	

Step		Data Source(s)	Methods and Adjustment Factors
Pregnant women	Categorical eligibility	<ul style="list-style-type: none"> 2022 CPS ASEC, national estimates 2019 and 2021 ACS, State estimates 2019 and 2021 PRCS, Puerto Rico estimates Average of 3 years of CDC National Vital Statistics data (i.e., 2019–2021 Births: Final Data, 2018–2020 Period Linked Birth – Infant Death Data Files, and 2018–2020 Fetal Death Data Files); Abortion Surveillance System (2018–2020); and Pregnancy Mortality Surveillance System (2018–2020) 	National: Identify women of reproductive age (15–44) in the CPS ASEC and apply adjustments proposed by the CDC (n.d.) to estimate the number of pregnant women based on births, multiple births, abortions, and fetal deaths accounting for average duration of pregnancy. State and territory: Use as a starting point the final average monthly eligibility estimate for infants. Multiply by factor to account for impact of multiple births, induced abortions, and fetal and infant deaths (so the number of pregnant women is not exactly equal to the number of infants).
	Weight adjustment	<ul style="list-style-type: none"> National estimates <ul style="list-style-type: none"> Postcensal population estimates from U.S. Census Bureau and March CPS ASEC for 2019, 2020, 2021, and 2022 State and Puerto Rico estimates <ul style="list-style-type: none"> Postcensal population estimates from U.S. Census Bureau for July 2021 	Adjust sampling weights to account for undercount or overcount in CPS estimates relative to U.S. Census Bureau population estimates by year of age and four race/ethnic categories (White-Only, Not Hispanic; Black-Only, Not Hispanic; Two or More Races or Other Race, Not Hispanic; and Hispanic/Latino).
	Income eligibility	<ul style="list-style-type: none"> 2022 CPS ASEC, national estimates 2019 and 2021 ACS, State estimates 2019 and 2021 PRCS, Puerto Rico estimates 2021 IDB, Other island territories estimates Blended 2020 and 2021 FPGs 	Count as eligible if prior year's annual income was \leq 185 percent of the Federal Poverty Guidelines.
	Adjunctive income eligibility	<ul style="list-style-type: none"> 2022 CPS ASEC 2021 ACS 2021 PRCS 	Add in as eligible women in families who reported participating in Medicaid, SNAP, or TANF at any point during the prior calendar year. Use 2021 ACS data to impute Medicaid and SNAP participation for those who do not report participating in either program to account for CPS ASEC undercount.
	Adjust for length of pregnancy	N/A	For State estimates account for 9 months of pregnancy (0.75 factor). National-level pregnancy calculations account for pregnancy duration.
	Adjust for fluctuations in monthly income	Average of factors for 2018, 2019, 2020, and 2021 Survey of Income and Program Participation panel	Adjust estimates to account for impact of monthly fluctuations in income. Use infant adjustment factors. <ul style="list-style-type: none"> Infant adjustment factor (used for estimates from PRCS and IDB data): 1.0130 Infants adjustment factors by race and ethnicity (used for State-level estimates) <ul style="list-style-type: none"> White-Only, Not Hispanic: 1.1000 All others: 1.0000
	Adjust for nutritional risk	CNSTAT panel and FNS	Multiply pregnant women estimates by factor to account for otherwise eligible pregnant women who might not be at nutritional risk. Estimates assume all pregnant women were at nutritional risk. Adjustment factor for pregnant women: 1.0000

Step		Data Source(s)	Methods and Adjustment Factors
Postpartum women	Starting point	Infants as estimated using methods outlined earlier in table	Use as a starting point the final average monthly eligibility estimate for infants.
	Adjust for multiple births and infant deaths	Average of 3 years of CDC National Vital Statistics data (i.e., 2019–2021 Births: Final Data, 2018–2020 Period Linked Birth – Infant Death Data Files, and 2018–2020 Fetal Death Data Files); Abortion Surveillance System (2018–2020); and Pregnancy Mortality Surveillance System (2018–2020)	<p>Breastfeeding postpartum women: Multiply by factor to account for impact of multiple births and maternal, fetal, and infant deaths (so the number of breastfeeding women is not exactly equal to the number of infants).</p> <ul style="list-style-type: none"> ▪ Breastfeeding postpartum women adjustment factors <ul style="list-style-type: none"> – White-Only, Not Hispanic: 0.9829 – Black-Only, Not Hispanic: 0.9784 – Two or More Races or Other Race, Not Hispanic: 0.9857 – Hispanic/Latino: 0.9873 <p>Non-breastfeeding postpartum women: Multiply by factor to account for impact of multiple births, abortions, and maternal, fetal, and infant deaths (so the number of non-breastfeeding women is not exactly equal to the number of infants).</p> <ul style="list-style-type: none"> ▪ Non-breastfeeding postpartum women adjustment factors <ul style="list-style-type: none"> – White-Only, Not Hispanic: 1.1721 – Black-Only, Not Hispanic: 1.1745 – Two or More Races or Other Race, Not Hispanic: 1.1448 – Hispanic/Latino: 1.1434
	Adjust for breastfeeding status	CDC NIS breastfeeding rates computed for 2019 birth cohort (NIS survey years 2020 and 2021)	<p>Multiply by factors to estimate average monthly women eligible for WIC as breastfeeding women (0 < 12 months postpartum) or non-breastfeeding women (< 6 months postpartum). Separate State-level breastfeeding adjustments are used for the ACS data.</p> <ul style="list-style-type: none"> ▪ Breastfeeding (used for estimates from PRCS and IDB data): 0.4408 ▪ Breastfeeding by race and ethnicity (used for estimates from CPS ASEC) <ul style="list-style-type: none"> – Hispanic/Latino: 0.4703 – White-Only, Not Hispanic: 0.4431 – Black-Only, Not Hispanic: 0.3774 – Two or More Races or Other Race, Not Hispanic: 0.4600 ▪ Non-breastfeeding (used for estimates from PRCS and IDB data): 0.2346 ▪ Non-breastfeeding by race and ethnicity (used for estimates from CPS ASEC) <ul style="list-style-type: none"> – Hispanic/Latino: 0.2223 – White-Only, Not Hispanic: 0.2376 – Black-Only, Not Hispanic: 0.2629 – Two or More Races or Other Race, Not Hispanic: 0.2304

Step		Data Source(s)	Methods and Adjustment Factors
Postpartum women (continued)	Adjust for nutritional risk	CNSTAT panel and FNS	Multiply estimates for postpartum women by factor to account for some otherwise eligible women who may not have been at nutritional risk. Estimates assume all postpartum women were at nutritional risk. Adjustment factor for postpartum women: 1.0000

Note: CDC NIS breastfeeding rates are based on unpublished internal CDC data. Adjustment factors shown in this table were used to produce estimates of eligible individuals. When applicable, the same adjustment factors were used to produce estimates of the total population; because of differences in breastfeeding rates, adjustment factors differed for mothers eligible for WIC and the total population of mothers.

ACS = American Community Survey; CDC = Centers for Disease Control and Prevention; CNSTAT = Committee on National Statistics; CPS ASEC = Current Population Survey Annual Social and Economic Supplement; CY = calendar year; IDB = International Database; N/A = not applicable; NIS = National Immunization Survey; PRCS = Puerto Rico Community Survey; SIPP = Survey of Income and Program Participation

^a An adjustment factor for the total number of children (1.0000) was also calculated but not used for any adjustment. The separate adjustment factors by race and ethnicity were used for the estimates.

Sources: The data sources listed in this table are as follows, in order of mention: for 2022 CPS ASEC data, see U.S. Census Bureau, n.d.-a; for 2019 and 2021 ACS and PRCS data, see IPUMS-USA, n.d.-b; for 2021 IDB data, see U.S. Census Bureau, n.d.-b; for 2019–2021 National Vital Statistics data, see National Center for Health Statistics, n.d.; for July 2021 postcensal population estimate data, see U.S. Census Bureau, 2022a, 2022b, 2022c; for WIC income eligibility criteria, see 7 C.F.R. § 246; for 2020 Federal Poverty Guidelines, see HHS, 2020; for 2021 Federal Poverty Guidelines, see HHS, 2021; for 2018–2021 SIPP data, see U.S. Census Bureau, n.d.-c; for the Committee on National Statistics panel data, see Ver Ploeg & Betson, 2003; for 2018–2020 Abortion Surveillance System data, see Kortsmits et al. 2021; for 2018–2020 Pregnancy Mortality Surveillance System data, see CDC, 2020.

Table C.2. Estimated Average Monthly Number of Individuals Eligible for WIC by Participant Category: CY 2021

Participant Category	Number Eligible	Percent of Total Eligible	Total Population	Eligibility Rate
Infants	1,846,394	15.2	3,667,986	50.3
Children	7,851,014	64.7	15,034,195	52.2
1-year-old children	1,852,884	15.3	3,619,907	51.2
2-year-old children	2,051,553	16.9	3,753,874	54.7
3-year-old children	1,932,072	15.9	3,797,804	50.9
4-year-old children	2,014,506	16.6	3,862,609	52.2
Women	2,433,888	20.1	6,750,485	36.1
Pregnant women	1,128,406	9.3	2,836,373	39.8
Postpartum women	1,305,482	10.8	3,914,112	33.4
Breastfeeding women	796,911	6.6	1,913,230	41.7
Non-breastfeeding women	508,571	4.2	2,000,882	25.4
Total	12,131,296	100.0	25,452,666	47.7

Note: The total population consists of individuals in the 50 States, the District of Columbia, and the U.S. territories served by WIC in each participant category. The eligibility rate is the ratio of the total number of individuals eligible for WIC to the total population in each participant category. The average monthly population of postpartum women includes all women who gave birth less than 1 year prior, even if they are not categorically eligible for WIC because they are more than 6 months postpartum and are not breastfeeding.

CY = calendar year

Sources: IPUMS-USA, n.d.-b; U.S. Census Bureau, n.d.-a, n.d.-b

Table C.3a1. Vital Statistics Estimates and CPS ASEC Estimates for Infants and Children by Year of Age and Sex: March 2022

Participant Category		Female	Male	Total
Infants	Vital Statistics estimate	1,781,753	1,861,882	3,643,635
	CPS ASEC estimate	1,694,126	1,724,819	3,418,945
	Ratio of Vital Statistics estimate to CPS ASEC estimate	1.0517	1.0795	1.0657
1-year-old children	Vital Statistics estimate	1,756,832	1,837,233	3,594,065
	CPS ASEC estimate	1,789,130	1,919,308	3,708,438
	Ratio of Vital Statistics estimate to CPS ASEC estimate	0.9819	0.9572	0.9692
2-year-old children	Vital Statistics estimate	1,820,847	1,905,772	3,726,619
	CPS ASEC estimate	1,848,889	1,892,991	3,741,880
	Ratio of Vital Statistics estimate to CPS ASEC estimate	0.9848	1.0068	0.9959
3-year-old children	Vital Statistics estimate	1,844,134	1,926,111	3,770,245
	CPS ASEC estimate	1,785,592	1,945,523	3,731,114
	Ratio of Vital Statistics estimate to CPS ASEC estimate	1.0328	0.9900	1.0105
4-year-old children	Vital Statistics estimate	1,872,748	1,960,417	3,833,165
	CPS ASEC estimate	1,944,613	1,994,398	3,939,012
	Ratio of Vital Statistics estimate to CPS ASEC estimate	0.9630	0.9830	0.9731
Total children	Vital Statistics estimate	7,294,561	7,629,533	14,924,094
	CPS ASEC estimate	7,368,223	7,752,221	15,120,444
	Ratio of Vital Statistics estimate to CPS ASEC estimate	0.9900	0.9842	0.9870
Total infants and children	Vital Statistics estimate	9,076,314	9,491,415	18,567,729
	CPS ASEC estimate	9,062,350	9,477,039	18,539,389
	Ratio of Vital Statistics estimate to CPS ASEC estimate	1.0015	1.0015	1.0015

Note: To calculate WIC eligibility in the CPS data, the age and sex specific ratios were applied to the CPS weights by age and sex to adjust for the undercount/overcount of children in the CPS relative to the Vital Statistics estimates. The ratios shown in the total columns (by age and sex) are for informational purposes only. This table does not include estimates for the U.S. territories.

CPS = Current Population Survey; CPS ASEC = CPS Annual Social and Economic Supplement

Sources: National Center for Health Statistics, n.d.; U.S. Census Bureau, n.d.-a

Table C.3b1. Effects of Applying Population Adjustment Factors to Population Counts for Infants and Children in the 2022 CPS ASEC by Year of Age and Sex: March 2022

Participant Category		Female	Male	Total
Infants	Population adjustment factor	1.0517	1.0795	N/A
	Revised CPS ASEC estimate	1,781,713	1,861,942	3,643,654
	Original CPS ASEC estimate	1,694,126	1,724,819	3,418,945
	Percent relative change	5.2	8.0	6.6
1-year-old children	Population adjustment factor	0.9819	0.9572	N/A
	Revised CPS ASEC estimate	1,756,747	1,837,162	3,593,909
	Original CPS ASEC estimate	1,789,130	1,919,308	3,708,438
	Percent relative change	-1.8	-4.3	-3.1
2-year-old children	Population adjustment factor	0.9848	1.0068	N/A
	Revised CPS ASEC estimate	1,820,786	1,905,863	3,726,649
	Original CPS ASEC estimate	1,848,889	1,892,991	3,741,880
	Percent relative change	-1.5	0.7	-0.4
3-year-old children	Population adjustment factor	1.0328	0.9900	N/A
	Revised CPS ASEC estimate	1,844,159	1,926,068	3,770,227
	Original CPS ASEC estimate	1,785,592	1,945,523	3,731,114
	Percent relative change	3.3	-1.0	1.0
4-year-old children	Population adjustment factor	0.9630	0.9830	N/A
	Revised CPS ASEC estimate	1,872,663	1,960,494	3,833,156
	Original CPS ASEC estimate	1,944,613	1,994,398	3,939,012
	Percent relative change	-3.7	-1.7	-2.7
Total children	Population adjustment factor	N/A	N/A	N/A
	Revised CPS ASEC estimate	7,294,354	7,629,587	14,923,940
	Original CPS ASEC estimate	7,368,223	7,752,221	15,120,444
	Percent relative change	-1.0	-1.6	-1.3

Participant Category		Female	Male	Total
Total infants and children	Population adjustment factor	N/A	N/A	N/A
	Revised CPS ASEC estimate	9,076,066	9,491,528	18,567,595
	Original CPS ASEC estimate	9,062,350	9,477,039	18,539,389
	Percent relative change	0.2	0.2	0.2

Note: To calculate WIC eligibility in the CPS data, the age and sex specific ratios were applied to the CPS weights by age and sex to adjust for the undercount/overcount of infants and children in the CPS estimates relative to the Vital Statistics estimates. The ratios shown in the total columns (by age and sex) are for informational purposes only. This table does not include estimates for the U.S. territories.

CPS = Current Population Survey; CPS ASEC = CPS Annual Social and Economic Supplement

N/A = not applicable

Sources: National Center for Health Statistics, n.d.; U.S. Census Bureau, n.d.-a

Table C.3a2. Four-Year Accumulations of U.S. Census Bureau Estimates and CPS ASEC Estimates for Pregnant Women by Year of Age and Race and Hispanic Ethnicity: March 2019–March 2022

Year of Age		Race and Hispanic Ethnicity				Total
		Hispanic/Latino	White-Only, Not Hispanic	Black-Only, Not Hispanic	Two or More Races or Other Race, Not Hispanic	
15-year-old women	U.S. Census Bureau estimate	2,118,890	4,280,028	1,150,787	862,766	8,412,471
	CPS estimate	2,116,398	4,103,037	1,179,538	826,111	8,225,084
	Ratio of U.S. Census Bureau estimate to CPS estimate	1.0012	1.0431	0.9756	1.0444	1.0228
16-year-old women	U.S. Census Bureau estimate	2,075,343	4,296,321	1,140,816	854,068	8,366,548
	CPS estimate	2,073,443	4,429,045	1,228,823	892,303	8,623,614
	Ratio of U.S. Census Bureau estimate to CPS estimate	1.0009	0.9700	0.9284	0.9572	0.9702
17-year-old women	U.S. Census Bureau estimate	2,041,530	4,322,155	1,142,185	845,969	8,351,839
	CPS estimate	2,111,227	4,315,108	1,223,021	902,516	8,551,872
	Ratio of U.S. Census Bureau estimate to CPS estimate	0.9670	1.0016	0.9339	0.9373	0.9766
18-year-old women	U.S. Census Bureau estimate	2,025,149	4,372,428	1,161,663	847,270	8,406,510
	CPS estimate	1,983,402	4,203,356	1,044,234	834,277	8,065,269
	Ratio of U.S. Census Bureau estimate to CPS estimate	1.0210	1.0402	1.1125	1.0156	1.0423
19-year-old women	U.S. Census Bureau estimate	2,002,267	4,399,503	1,177,751	843,837	8,423,358
	CPS estimate	1,848,618	3,719,120	1,028,625	679,757	7,276,120
	Ratio of U.S. Census Bureau estimate to CPS estimate	1.0831	1.1829	1.1450	1.2414	1.1577
20-year-old women	U.S. Census Bureau estimate	1,974,480	4,430,588	1,191,209	839,758	8,436,035
	CPS estimate	1,969,170	4,050,670	1,141,096	855,153	8,016,089
	Ratio of U.S. Census Bureau estimate to CPS estimate	1.0027	1.0938	1.0439	0.9820	1.0524
21-year-old women	U.S. Census Bureau estimate	1,941,511	4,444,828	1,195,004	840,519	8,421,862
	CPS estimate	1,976,253	4,299,250	1,216,130	777,360	8,268,992
	Ratio of U.S. Census Bureau estimate to CPS estimate	0.9824	1.0339	0.9826	1.0812	1.0185
22-year-old women	U.S. Census Bureau estimate	1,907,896	4,452,123	1,192,320	842,410	8,394,749
	CPS estimate	1,887,140	4,376,500	1,121,752	918,582	8,303,975
	Ratio of U.S. Census Bureau estimate to CPS estimate	1.0110	1.0173	1.0629	0.9171	1.0109

		Race and Hispanic Ethnicity				
Year of Age		Hispanic/Latino	White-Only, Not Hispanic	Black-Only, Not Hispanic	Two or More Races or Other Race, Not Hispanic	Total
23-year-old women	U.S. Census Bureau estimate	1,889,090	4,476,006	1,195,597	854,684	8,415,377
	CPS estimate	1,964,854	4,384,201	1,266,560	972,187	8,587,802
	Ratio of U.S. Census Bureau estimate to CPS estimate	0.9614	1.0209	0.9440	0.8791	0.9799
24-year-old women	U.S. Census Bureau estimate	1,879,592	4,518,803	1,215,493	872,437	8,486,325
	CPS estimate	1,947,541	4,288,086	1,234,192	925,064	8,394,883
	Ratio of U.S. Census Bureau estimate to CPS estimate	0.9651	1.0538	0.9848	0.9431	1.0109
25-year-old women	U.S. Census Bureau estimate	1,882,472	4,581,047	1,249,027	891,155	8,603,701
	CPS estimate	1,976,816	4,656,422	1,225,540	874,866	8,733,643
	Ratio of U.S. Census Bureau estimate to CPS estimate	0.9523	0.9838	1.0192	1.0186	0.9851
26-year-old women	U.S. Census Bureau estimate	1,892,550	4,660,394	1,292,538	911,185	8,756,667
	CPS estimate	2,037,000	4,625,674	1,263,136	928,335	8,854,146
	Ratio of U.S. Census Bureau estimate to CPS estimate	0.9291	1.0075	1.0233	0.9815	0.9890
27-year-old women	U.S. Census Bureau estimate	1,901,572	4,770,289	1,340,910	938,733	8,951,504
	CPS estimate	1,856,812	4,778,650	1,330,668	962,167	8,928,296
	Ratio of U.S. Census Bureau estimate to CPS estimate	1.0241	0.9983	1.0077	0.9756	1.0026
28-year-old women	U.S. Census Bureau estimate	1,906,395	4,902,775	1,377,077	966,760	9,153,007
	CPS estimate	1,953,710	5,013,529	1,292,073	989,854	9,249,166
	Ratio of U.S. Census Bureau estimate to CPS estimate	0.9758	0.9779	1.0658	0.9767	0.9896
29-year-old women	U.S. Census Bureau estimate	1,884,829	4,987,942	1,389,197	985,365	9,247,333
	CPS estimate	1,991,958	5,099,230	1,388,623	1,050,346	9,530,156
	Ratio of U.S. Census Bureau estimate to CPS estimate	0.9462	0.9782	1.0004	0.9381	0.9703
30-year-old women	U.S. Census Bureau estimate	1,847,023	5,028,856	1,373,971	997,371	9,247,221
	CPS estimate	1,912,364	4,883,174	1,300,622	1,026,031	9,122,190
	Ratio of U.S. Census Bureau estimate to CPS estimate	0.9658	1.0298	1.0564	0.9721	1.0137
31-year-old women	U.S. Census Bureau estimate	1,803,938	5,016,082	1,335,945	994,344	9,150,309
	CPS estimate	1,871,507	5,051,673	1,193,621	949,815	9,066,616
	Ratio of U.S. Census Bureau estimate to CPS estimate	0.9639	0.9930	1.1192	1.0469	1.0092

		Race and Hispanic Ethnicity				
Year of Age		Hispanic/Latino	White-Only, Not Hispanic	Black-Only, Not Hispanic	Two or More Races or Other Race, Not Hispanic	Total
32-year-old women	U.S. Census Bureau estimate	1,769,830	4,967,526	1,286,005	981,332	9,004,693
	CPS estimate	1,781,904	5,172,218	1,220,444	989,028	9,163,593
	Ratio of U.S. Census Bureau estimate to CPS estimate	0.9932	0.9604	1.0537	0.9922	0.9827
33-year-old women	U.S. Census Bureau estimate	1,752,449	4,945,593	1,241,425	969,124	8,908,591
	CPS estimate	1,690,650	5,213,460	1,232,752	975,217	9,112,079
	Ratio of U.S. Census Bureau estimate to CPS estimate	1.0366	0.9486	1.0070	0.9938	0.9777
34-year-old women	U.S. Census Bureau estimate	1,747,667	4,939,008	1,209,447	957,764	8,853,886
	CPS estimate	1,602,383	5,209,536	1,134,319	969,042	8,915,279
	Ratio of U.S. Census Bureau estimate to CPS estimate	1.0907	0.9481	1.0662	0.9884	0.9931
35-year-old women	U.S. Census Bureau estimate	1,737,046	4,911,962	1,183,613	948,968	8,781,589
	CPS estimate	1,713,757	5,168,653	1,062,831	925,181	8,870,422
	Ratio of U.S. Census Bureau estimate to CPS estimate	1.0136	0.9503	1.1136	1.0257	0.9900
36-year-old women	U.S. Census Bureau estimate	1,744,828	4,925,826	1,175,469	948,717	8,794,840
	CPS estimate	1,804,049	5,103,596	1,150,901	910,369	8,968,916
	Ratio of U.S. Census Bureau estimate to CPS estimate	0.9672	0.9652	1.0213	1.0421	0.9806
37-year-old women	U.S. Census Bureau estimate	1,744,049	4,908,747	1,165,841	941,315	8,759,952
	CPS estimate	1,733,455	5,078,086	1,115,485	906,480	8,833,506
	Ratio of U.S. Census Bureau estimate to CPS estimate	1.0061	0.9667	1.0451	1.0384	0.9917
38-year-old women	U.S. Census Bureau estimate	1,753,139	4,913,754	1,169,318	932,821	8,769,032
	CPS estimate	1,733,428	4,908,376	1,046,758	880,648	8,569,210
	Ratio of U.S. Census Bureau estimate to CPS estimate	1.0114	1.0011	1.1171	1.0592	1.0233
39-year-old women	U.S. Census Bureau estimate	1,753,257	4,906,462	1,173,989	918,258	8,751,966
	CPS estimate	1,564,781	4,887,563	1,181,470	966,488	8,600,302
	Ratio of U.S. Census Bureau estimate to CPS estimate	1.1204	1.0039	0.9937	0.9501	1.0176
40-year-old women	U.S. Census Bureau estimate	1,713,727	4,795,841	1,153,902	888,856	8,552,326
	CPS estimate	1,648,142	5,030,607	1,114,947	877,478	8,671,175
	Ratio of U.S. Census Bureau estimate to CPS estimate	1.0398	0.9533	1.0349	1.0130	0.9863

		Race and Hispanic Ethnicity				
Year of Age		Hispanic/Latino	White-Only, Not Hispanic	Black-Only, Not Hispanic	Two or More Races or Other Race, Not Hispanic	Total
41-year-old women	U.S. Census Bureau estimate	1,693,262	4,734,032	1,140,839	867,535	8,435,668
	CPS estimate	1,696,603	4,909,858	1,125,033	804,497	8,535,992
	Ratio of U.S. Census Bureau estimate to CPS estimate	0.9980	0.9642	1.0140	1.0784	0.9882
42-year-old women	U.S. Census Bureau estimate	1,660,697	4,615,378	1,108,250	845,800	8,230,125
	CPS estimate	1,660,467	4,771,035	1,078,586	788,395	8,298,482
	Ratio of U.S. Census Bureau estimate to CPS estimate	1.0001	0.9674	1.0275	1.0728	0.9918
43-year-old women	U.S. Census Bureau estimate	1,636,790	4,526,703	1,080,084	830,400	8,073,977
	CPS estimate	1,653,380	4,519,495	1,084,950	832,880	8,090,705
	Ratio of U.S. Census Bureau estimate to CPS estimate	0.9900	1.0016	0.9955	0.9970	0.9979
44-year-old women	U.S. Census Bureau estimate	1,624,888	4,490,224	1,061,849	819,919	7,996,880
	CPS estimate	1,517,978	4,414,252	1,004,056	759,947	7,696,233
	Ratio of U.S. Census Bureau estimate to CPS estimate	1.0704	1.0172	1.0576	1.0789	1.0391

Note: To calculate WIC eligibility in the CPS data, the age/race/Hispanic ethnicity specific ratios were applied to the CPS weights by age/race/Hispanic ethnicity to adjust for the undercount/overcount of pregnant women in the CPS relative to the U.S. Census Population estimates. The ratios shown in the total columns (by age/race/Hispanic ethnicity) are for informational purposes only. This table does not include estimates for the U.S. territories.

CPS = Current Population Survey; CPS ASEC = CPS Annual Social and Economic Supplement

Sources: U.S. Census Bureau, 2022b, n.d.-a

Table C.3b2. U.S. Census Bureau Estimates and CPS ASEC Estimates for Pregnant Women by Year of Age and Race and Hispanic Ethnicity: March 2022

Year of Age		Race and Hispanic Ethnicity				Total
		Hispanic/Latino	White-Only, Not Hispanic	Black-Only, Not Hispanic	Two or More Races or Other Race, Not Hispanic	
15-year-old women	U.S. Census Bureau estimate	558,536	1,078,607	299,447	221,745	2,158,335
	CPS estimate	576,645	1,077,331	284,285	208,198	2,146,459
	Ratio of U.S. Census Bureau estimate to CPS estimate	0.9686	1.0012	1.0533	1.0651	1.0055
16-year-old women	U.S. Census Bureau estimate	539,092	1,069,279	291,178	217,449	2,116,998
	CPS estimate	561,863	1,182,274	325,927	259,066	2,329,131
	Ratio of U.S. Census Bureau estimate to CPS estimate	0.9595	0.9044	0.8934	0.8394	0.9089
17-year-old women	U.S. Census Bureau estimate	525,780	1,074,241	285,708	218,707	2,104,436
	CPS estimate	510,313	1,122,319	292,493	224,857	2,149,981
	Ratio of U.S. Census Bureau estimate to CPS estimate	1.0303	0.9572	0.9768	0.9726	0.9788
18-year-old women	U.S. Census Bureau estimate	519,492	1,095,919	286,685	217,951	2,120,047
	CPS estimate	528,167	1,059,961	296,678	233,562	2,118,368
	Ratio of U.S. Census Bureau estimate to CPS estimate	0.9836	1.0339	0.9663	0.9332	1.0008
19-year-old women	U.S. Census Bureau estimate	510,739	1,083,632	287,232	214,248	2,095,851
	CPS estimate	489,546	908,242	258,095	150,886	1,806,770
	Ratio of U.S. Census Bureau estimate to CPS estimate	1.0433	1.1931	1.1129	1.4199	1.1600
20-year-old women	U.S. Census Bureau estimate	505,564	1,095,462	293,444	211,099	2,105,569
	CPS estimate	514,865	994,124	306,554	214,935	2,030,477
	Ratio of U.S. Census Bureau estimate to CPS estimate	0.9819	1.1019	0.9572	0.9822	1.0370
21-year-old women	U.S. Census Bureau estimate	504,946	1,116,041	302,615	217,715	2,141,317
	CPS estimate	530,947	1,074,751	331,089	191,533	2,128,319
	Ratio of U.S. Census Bureau estimate to CPS estimate	0.9510	1.0384	0.9140	1.1367	1.0061
22-year-old women	U.S. Census Bureau estimate	490,377	1,108,620	299,907	211,436	2,110,340
	CPS estimate	438,724	1,064,194	272,392	210,638	1,985,947
	Ratio of U.S. Census Bureau estimate to CPS estimate	1.1177	1.0417	1.1010	1.0038	1.0626

		Race and Hispanic Ethnicity				
Year of Age		Hispanic/Latino	White-Only, Not Hispanic	Black-Only, Not Hispanic	Two or More Races or Other Race, Not Hispanic	Total
23-year-old women	U.S. Census Bureau estimate	482,612	1,113,156	298,722	211,708	2,106,198
	CPS estimate	480,367	1,184,610	322,764	263,708	2,251,450
	Ratio of U.S. Census Bureau estimate to CPS estimate	1.0047	0.9397	0.9255	0.8028	0.9355
24-year-old women	U.S. Census Bureau estimate	472,637	1,106,518	297,701	215,340	2,092,196
	CPS estimate	477,573	1,140,859	250,037	223,405	2,091,873
	Ratio of U.S. Census Bureau estimate to CPS estimate	0.9897	0.9699	1.1906	0.9639	1.0002
25-year-old women	U.S. Census Bureau estimate	469,967	1,120,478	298,256	220,357	2,109,058
	CPS estimate	451,497	1,143,346	366,628	204,826	2,166,297
	Ratio of U.S. Census Bureau estimate to CPS estimate	1.0409	0.9800	0.8135	1.0758	0.9736
26-year-old women	U.S. Census Bureau estimate	471,039	1,133,160	303,119	223,795	2,131,113
	CPS estimate	484,675	1,150,108	264,853	237,077	2,136,712
	Ratio of U.S. Census Bureau estimate to CPS estimate	0.9719	0.9853	1.1445	0.9440	0.9974
27-year-old women	U.S. Census Bureau estimate	471,976	1,150,748	318,065	228,188	2,168,977
	CPS estimate	449,552	1,029,335	308,094	214,656	2,001,638
	Ratio of U.S. Census Bureau estimate to CPS estimate	1.0499	1.1180	1.0324	1.0630	1.0836
28-year-old women	U.S. Census Bureau estimate	475,486	1,171,163	332,341	233,765	2,212,755
	CPS estimate	508,265	1,168,122	324,447	199,051	2,199,885
	Ratio of U.S. Census Bureau estimate to CPS estimate	0.9355	1.0026	1.0243	1.1744	1.0059
29-year-old women	U.S. Census Bureau estimate	479,813	1,200,962	341,819	239,830	2,262,424
	CPS estimate	461,140	1,288,083	326,046	226,951	2,302,220
	Ratio of U.S. Census Bureau estimate to CPS estimate	1.0405	0.9324	1.0484	1.0567	0.9827
30-year-old women	U.S. Census Bureau estimate	478,585	1,238,234	349,516	248,008	2,314,343
	CPS estimate	493,230	1,255,216	364,914	261,369	2,374,729
	Ratio of U.S. Census Bureau estimate to CPS estimate	0.9703	0.9865	0.9578	0.9489	0.9746
31-year-old women	U.S. Census Bureau estimate	471,677	1,274,402	352,452	253,103	2,351,634
	CPS estimate	487,990	1,211,594	320,443	244,638	2,264,665
	Ratio of U.S. Census Bureau estimate to CPS estimate	0.9666	1.0518	1.0999	1.0346	1.0384

		Race and Hispanic Ethnicity				
Year of Age		Hispanic/Latino	White-Only, Not Hispanic	Black-Only, Not Hispanic	Two or More Races or Other Race, Not Hispanic	Total
32-year-old women	U.S. Census Bureau estimate	458,299	1,266,993	345,994	253,020	2,324,306
	CPS estimate	447,392	1,263,391	332,736	248,256	2,291,776
	Ratio of U.S. Census Bureau estimate to CPS estimate	1.0244	1.0029	1.0398	1.0192	1.0142
33-year-old women	U.S. Census Bureau estimate	444,209	1,248,273	328,717	252,415	2,273,614
	CPS estimate	443,310	1,255,809	323,341	246,810	2,269,271
	Ratio of U.S. Census Bureau estimate to CPS estimate	1.0020	0.9940	1.0166	1.0227	1.0019
34-year-old women	U.S. Census Bureau estimate	439,783	1,233,618	312,467	244,657	2,230,525
	CPS estimate	415,319	1,271,255	304,983	258,374	2,249,930
	Ratio of U.S. Census Bureau estimate to CPS estimate	1.0589	0.9704	1.0245	0.9469	0.9914
35-year-old women	U.S. Census Bureau estimate	437,673	1,228,632	303,772	240,152	2,210,229
	CPS estimate	406,663	1,262,494	294,122	246,417	2,209,696
	Ratio of U.S. Census Bureau estimate to CPS estimate	1.0763	0.9732	1.0328	0.9746	1.0002
36-year-old women	U.S. Census Bureau estimate	439,009	1,242,365	300,376	239,629	2,221,379
	CPS estimate	439,668	1,295,981	339,300	226,669	2,301,618
	Ratio of U.S. Census Bureau estimate to CPS estimate	0.9985	0.9586	0.8853	1.0572	0.9651
37-year-old women	U.S. Census Bureau estimate	435,788	1,232,134	294,621	238,775	2,201,318
	CPS estimate	460,768	1,229,130	285,009	194,735	2,169,642
	Ratio of U.S. Census Bureau estimate to CPS estimate	0.9458	1.0024	1.0337	1.2262	1.0146
38-year-old women	U.S. Census Bureau estimate	433,599	1,221,079	290,254	238,079	2,183,011
	CPS estimate	461,846	1,166,452	294,808	255,099	2,178,206
	Ratio of U.S. Census Bureau estimate to CPS estimate	0.9388	1.0468	0.9846	0.9333	1.0022
39-year-old women	U.S. Census Bureau estimate	444,325	1,239,465	294,256	238,313	2,216,359
	CPS estimate	419,078	1,187,546	279,621	259,854	2,146,099
	Ratio of U.S. Census Bureau estimate to CPS estimate	1.0602	1.0437	1.0523	0.9171	1.0327
40-year-old women	U.S. Census Bureau estimate	438,630	1,226,308	290,411	232,217	2,187,566
	CPS estimate	417,910	1,278,725	272,920	252,835	2,222,389
	Ratio of U.S. Census Bureau estimate to CPS estimate	1.0496	0.9590	1.0641	0.9185	0.9843

Year of Age		Race and Hispanic Ethnicity				Total
		Hispanic/Latino	White-Only, Not Hispanic	Black-Only, Not Hispanic	Two or More Races or Other Race, Not Hispanic	
41-year-old women	U.S. Census Bureau estimate	439,319	1,227,287	295,361	227,045	2,189,012
	CPS estimate	453,122	1,228,673	287,581	222,982	2,192,359
	Ratio of U.S. Census Bureau estimate to CPS estimate	0.9695	0.9989	1.0271	1.0182	0.9985
42-year-old women	U.S. Census Bureau estimate	428,951	1,196,714	291,491	221,370	2,138,526
	CPS estimate	427,092	1,235,644	289,903	189,793	2,142,432
	Ratio of U.S. Census Bureau estimate to CPS estimate	1.0044	0.9685	1.0055	1.1664	0.9982
43-year-old women	U.S. Census Bureau estimate	413,365	1,160,540	280,333	213,759	2,067,997
	CPS estimate	479,890	1,170,391	324,399	251,998	2,226,678
	Ratio of U.S. Census Bureau estimate to CPS estimate	0.8614	0.9916	0.8642	0.8483	0.9287
44-year-old women	U.S. Census Bureau estimate	415,027	1,150,090	273,541	208,401	2,047,059
	CPS estimate	352,769	1,044,109	243,952	180,464	1,821,295
	Ratio of U.S. Census Bureau estimate to CPS estimate	1.1765	1.1015	1.1213	1.1548	1.1240

Note: To calculate WIC eligibility in the CPS data, the age/race/Hispanic ethnicity specific ratios were applied to the CPS weights by age/race/Hispanic ethnicity to adjust for the undercount/overcount of pregnant women in the CPS relative to the U.S. Census Population estimates. The ratios shown in the total columns (by age/race/Hispanic ethnicity) are for informational purposes only. This table does not include estimates for the U.S. territories.

CPS = Current Population Survey; CPS ASEC = CPS Annual Social and Economic Supplement

Sources: U.S. Census Bureau, 2022b, n.d.-a

Table C.3c2. Effects of Applying Population Adjustment Factors to Population Counts for Pregnant Women in the 2022 CPS ASEC by Year of Age and Race and Hispanic Ethnicity: March 2022

Year of Age		Race and Hispanic Ethnicity				Total
		Hispanic/Latino	White-Only, Not Hispanic	Black-Only, Not Hispanic	Two or More Races or Other Race, Not Hispanic	
15-year-old women	Population adjustment factor	1.0000	1.0012	1.0000	1.0444	N/A
	Revised CPS estimate	576,645	1,078,624	284,285	217,442	2,156,996
	Original CPS estimate	576,645	1,077,331	284,285	208,198	2,146,459
	Percent relative change	0.0	0.1	0.0	4.4	0.5
16-year-old women	Population adjustment factor	1.0000	0.9700	0.9284	0.9572	N/A
	Revised CPS estimate	561,863	1,146,806	302,590	247,978	2,259,238
	Original CPS estimate	561,863	1,182,274	325,927	259,066	2,329,131
	Percent relative change	0.0	-3.0	-7.2	-4.3	-3.0
17-year-old women	Population adjustment factor	1.0000	1.0000	0.9768	0.9726	N/A
	Revised CPS estimate	510,313	1,122,319	285,707	218,696	2,137,034
	Original CPS estimate	510,313	1,122,319	292,493	224,857	2,149,981
	Percent relative change	0.0	0.0	-2.3	-2.7	-0.6
18-year-old women	Population adjustment factor	1.0000	1.0339	1.0000	1.0000	N/A
	Revised CPS estimate	528,167	1,095,894	296,678	233,562	2,154,301
	Original CPS estimate	528,167	1,059,961	296,678	233,562	2,118,368
	Percent relative change	0.0	3.4	0.0	0.0	1.7
19-year-old women	Population adjustment factor	1.0433	1.1829	1.1129	N/A	N/A
	Revised CPS estimate	510,743	1,074,359	287,234	187,310	2,059,647
	Original CPS estimate	489,546	908,242	258,095	150,886	1,806,770
	Percent relative change	4.3	18.3	11.3	24.1	14.0
20-year-old women	Population adjustment factor	1.0000	1.0938	1.0000	0.9822	N/A
	Revised CPS estimate	514,865	1,087,372	306,554	211,109	2,119,900
	Original CPS estimate	514,865	994,124	306,554	214,935	2,030,477
	Percent relative change	0.0	9.4	0.0	-1.8	4.4

		Race and Hispanic Ethnicity				
Year of Age		Hispanic/Latino	White-Only, Not Hispanic	Black-Only, Not Hispanic	Two or More Races or Other Race, Not Hispanic	Total
21-year-old women	Population adjustment factor	0.9824	1.0339	0.9826	1.0812	N/A
	Revised CPS estimate	521,602	1,111,185	325,328	207,085	2,165,200
	Original CPS estimate	530,947	1,074,751	331,089	191,533	2,128,319
	Percent relative change	-1.8	3.4	-1.7	8.1	1.7
22-year-old women	Population adjustment factor	1.0110	1.0173	1.0629	1.0000	N/A
	Revised CPS estimate	443,550	1,082,604	289,525	210,638	2,026,317
	Original CPS estimate	438,724	1,064,194	272,392	210,638	1,985,947
	Percent relative change	1.1	1.7	6.3	0.0	2.0
23-year-old women	Population adjustment factor	1.0000	1.0000	0.9440	0.8791	N/A
	Revised CPS estimate	480,367	1,184,610	304,689	231,826	2,201,493
	Original CPS estimate	480,367	1,184,610	322,764	263,708	2,251,450
	Percent relative change	0.0	0.0	-5.6	-12.1	-2.2
24-year-old women	Population adjustment factor	0.9897	1.0000	1.0000	0.9639	N/A
	Revised CPS estimate	472,654	1,140,859	250,037	215,340	2,078,889
	Original CPS estimate	477,573	1,140,859	250,037	223,405	2,091,873
	Percent relative change	-1.0	0.0	0.0	-3.6	-0.6
25-year-old women	Population adjustment factor	1.0000	0.9838	1.0000	1.0186	N/A
	Revised CPS estimate	451,497	1,124,824	366,628	208,635	2,151,585
	Original CPS estimate	451,497	1,143,346	366,628	204,826	2,166,297
	Percent relative change	0.0	-1.6	0.0	1.9	-0.7
26-year-old women	Population adjustment factor	0.9719	1.0000	1.0233	0.9815	N/A
	Revised CPS estimate	471,056	1,150,108	271,024	232,691	2,124,878
	Original CPS estimate	484,675	1,150,108	264,853	237,077	2,136,712
	Percent relative change	-2.8	0.0	2.3	-1.9	-0.6

		Race and Hispanic Ethnicity				
Year of Age		Hispanic/Latino	White-Only, Not Hispanic	Black-Only, Not Hispanic	Two or More Races or Other Race, Not Hispanic	Total
27-year-old women	Population adjustment factor	1.0241	1.0000	1.0077	1.0000	N/A
	Revised CPS estimate	460,387	1,029,335	310,466	214,656	2,014,844
	Original CPS estimate	449,552	1,029,335	308,094	214,656	2,001,638
	Percent relative change	2.4	0.0	0.8	0.0	0.7
28-year-old women	Population adjustment factor	0.9758	1.0000	1.0243	1.0000	N/A
	Revised CPS estimate	495,965	1,168,122	332,331	199,051	2,195,469
	Original CPS estimate	508,265	1,168,122	324,447	199,051	2,199,885
	Percent relative change	-2.4	0.0	2.4	0.0	-0.2
29-year-old women	Population adjustment factor	1.0000	0.9782	1.0004	1.0000	N/A
	Revised CPS estimate	461,140	1,260,003	326,176	226,951	2,274,270
	Original CPS estimate	461,140	1,288,083	326,046	226,951	2,302,220
	Percent relative change	0.0	-2.2	0.0	0.0	-1.2
30-year-old women	Population adjustment factor	0.9703	1.0000	1.0000	0.9721	N/A
	Revised CPS estimate	478,581	1,255,216	364,914	254,077	2,352,788
	Original CPS estimate	493,230	1,255,216	364,914	261,369	2,374,729
	Percent relative change	-3.0	0.0	0.0	-2.8	-0.9
31-year-old women	Population adjustment factor	0.9666	1.0000	1.0999	1.0346	N/A
	Revised CPS estimate	471,691	1,211,594	352,455	253,103	2,288,843
	Original CPS estimate	487,990	1,211,594	320,443	244,638	2,264,665
	Percent relative change	-3.3	0.0	10.0	3.5	1.1
32-year-old women	Population adjustment factor	1.0000	1.0000	1.0398	1.0000	N/A
	Revised CPS estimate	447,392	1,263,391	345,979	248,256	2,305,019
	Original CPS estimate	447,392	1,263,391	332,736	248,256	2,291,776
	Percent relative change	0.0	0.0	4.0	0.0	0.6

		Race and Hispanic Ethnicity				
Year of Age		Hispanic/Latino	White-Only, Not Hispanic	Black-Only, Not Hispanic	Two or More Races or Other Race, Not Hispanic	Total
33-year-old women	Population adjustment factor	1.0020	0.9940	1.0070	1.0000	N/A
	Revised CPS estimate	444,197	1,248,274	325,605	246,810	2,264,886
	Original CPS estimate	443,310	1,255,809	323,341	246,810	2,269,271
	Percent relative change	0.2	-0.6	0.7	0.0	-0.2
34-year-old women	Population adjustment factor	1.0589	0.9704	1.0245	0.9884	N/A
	Revised CPS estimate	439,781	1,233,626	312,455	255,376	2,241,238
	Original CPS estimate	415,319	1,271,255	304,983	258,374	2,249,930
	Percent relative change	5.9	-3.0	2.5	-1.2	-0.4
35-year-old women	Population adjustment factor	1.0136	0.9732	1.0328	1.0000	N/A
	Revised CPS estimate	412,193	1,228,660	303,769	246,417	2,191,039
	Original CPS estimate	406,663	1,262,494	294,122	246,417	2,209,696
	Percent relative change	1.4	-2.7	3.3	0.0	-0.8
36-year-old women	Population adjustment factor	0.9985	0.9652	1.0000	1.0421	N/A
	Revised CPS estimate	439,008	1,250,881	339,300	236,212	2,265,401
	Original CPS estimate	439,668	1,295,981	339,300	226,669	2,301,618
	Percent relative change	-0.2	-3.5	0.0	4.2	-1.6
37-year-old women	Population adjustment factor	1.0000	1.0000	1.0337	1.0384	N/A
	Revised CPS estimate	460,768	1,229,130	294,614	202,213	2,186,725
	Original CPS estimate	460,768	1,229,130	285,009	194,735	2,169,642
	Percent relative change	0.0	0.0	3.4	3.8	0.8
38-year-old women	Population adjustment factor	1.0000	1.0011	1.0000	1.0000	N/A
	Revised CPS estimate	461,846	1,167,736	294,808	255,099	2,179,489
	Original CPS estimate	461,846	1,166,452	294,808	255,099	2,178,206
	Percent relative change	0.0	0.1	0.0	0.0	0.1

		Race and Hispanic Ethnicity				
Year of Age		Hispanic/Latino	White-Only, Not Hispanic	Black-Only, Not Hispanic	Two or More Races or Other Race, Not Hispanic	Total
39-year-old women	Population adjustment factor	1.0602	1.0039	1.0000	0.9501	N/A
	Revised CPS estimate	444,307	1,192,178	279,621	246,887	2,162,993
	Original CPS estimate	419,078	1,187,546	279,621	259,854	2,146,099
	Percent relative change	6.0	0.4	0.0	-5.0	0.8
40-year-old women	Population adjustment factor	1.0398	0.9590	1.0349	1.0000	N/A
	Revised CPS estimate	434,543	1,226,297	282,445	252,835	2,196,119
	Original CPS estimate	417,910	1,278,725	272,920	252,835	2,222,389
	Percent relative change	4.0	-4.1	3.5	0.0	-1.2
41-year-old women	Population adjustment factor	0.9980	0.9989	1.0140	1.0182	N/A
	Revised CPS estimate	452,216	1,227,322	291,607	227,040	2,198,185
	Original CPS estimate	453,122	1,228,673	287,581	222,982	2,192,359
	Percent relative change	-0.2	-0.1	1.4	1.8	0.3
42-year-old women	Population adjustment factor	1.0001	0.9685	1.0055	1.0728	N/A
	Revised CPS estimate	427,135	1,196,721	291,498	203,610	2,118,963
	Original CPS estimate	427,092	1,235,644	289,903	189,793	2,142,432
	Percent relative change	0.0	-3.2	0.6	7.3	-1.1
43-year-old women	Population adjustment factor	0.9900	1.0000	0.9955	0.9970	N/A
	Revised CPS estimate	475,091	1,170,391	322,939	251,242	2,219,663
	Original CPS estimate	479,890	1,170,391	324,399	251,998	2,226,678
	Percent relative change	-1.0	0.0	-0.5	-0.3	-0.3
44-year-old women	Population adjustment factor	1.0704	1.0172	1.0576	1.0789	N/A
	Revised CPS estimate	377,604	1,062,068	258,004	194,703	1,892,379
	Original CPS estimate	352,769	1,044,109	243,952	180,464	1,821,295
	Percent relative change	7.0	1.7	5.8	7.9	3.9

Note: To calculate WIC eligibility in the CPS data, the age/race/Hispanic ethnicity specific ratios were applied to the CPS weights by age/race/Hispanic ethnicity to adjust for the undercount/overcount of pregnant women in the CPS estimates relative to the U.S. Census Population estimates. The ratios shown in the total columns (by age/race/Hispanic ethnicity) are for informational purposes only.

This table does not include estimates for the U.S. territories.

CPS = Current Population Survey; CPS ASEC = CPS Annual Social and Economic Supplement

N/A = not applicable

Sources: U.S. Census Bureau, 2022b, n.d.-a

Table C.4. Breastfeeding Adjustment Factor Calculations for Postpartum Women Eligible for WIC: CY 2021

Adjustments			2021
Breastfeeding in hospital		Hispanic/Latino	0.8051
		White-only, not Hispanic	0.7661
		Black-only, not Hispanic	0.7107
		Two or more races or other race, not Hispanic	0.7759
Breastfeeding at 6 months		Hispanic/Latino	0.4716
		White-only, not Hispanic	0.4404
		Black-only, not Hispanic	0.3795
		Two or more races or other race, not Hispanic	0.4637
Breastfeeding at 12 months		Hispanic/Latino	0.2990
		White-only, not Hispanic	0.2821
		Black-only, not Hispanic	0.1816
		Two or more races or other race, not Hispanic	0.2979
Additional adjustment factors for maternal deaths/infant and fetal deaths/multiple births	Additional adjustments for postpartum breastfeeding women	Hispanic/Latino	0.9873
		White-only, not Hispanic	0.9829
		Black-only, not Hispanic	0.9784
		Two or more races or other race, not Hispanic	0.9857
	Additional adjustments for postpartum non-breastfeeding women	Hispanic/Latino	1.1434
		White-only, not Hispanic	1.1721
		Black-only, not Hispanic	1.1745
		Two or more races or other race, not Hispanic	1.1448
Adjustment for breastfeeding cessation		Adjustment to average breastfeeding	0.8700
Final adjustment factors	Breastfeeding adjustment factor	Hispanic/Latino	0.4703
		White-only, not Hispanic	0.4431
		Black-only, not Hispanic	0.3774
		Two or more races or other race, not Hispanic	0.4600
	Non-breastfeeding adjustment factor	Hispanic/Latino	0.2223
		White-only, not Hispanic	0.2376
		Black-only, not Hispanic	0.2629
		Two or more races or other race, not Hispanic	0.2304

CY = calendar year

^a The final adjustment factors for estimating postpartum eligibility from estimates of infant eligibility in the territories is 0.4408 for estimates of breastfeeding women and 0.2346 for estimates of non-breastfeeding women.

Sources: National Center for Health Statistics, n.d.; unpublished internal CDC data

Table C.5. Step-by-Step Adjustments Applied to CPS ASEC Data to Derive the Average Monthly Number of Individuals Eligible for WIC by Participant Category: CY 2021

Step	Infants	1-Year-Old Children	2-Year-Old Children	3-Year-Old Children	4-Year-Old Children	All Children	Pregnant Women	Postpartum Breastfeeding Women	Postpartum Non-Breastfeeding Women	Total
Total number of infants and children in CPS ASEC data	3,418,945	3,708,438	3,741,880	3,731,114	3,939,012	15,120,444	—	—	—	18,539,389
Number after adjustment for CPS undercount, overcount	3,643,654	3,593,909	3,726,649	3,770,227	3,833,156	14,923,940	—	—	—	18,567,595
Number with annual income ≤ 185 percent of the FPG	1,070,123	1,070,731	1,239,431	1,115,132	1,197,697	4,622,992	—	—	—	5,693,115
Number adjunctively income-eligible and with annual income > 185 percent of the FPG ^a	698,975	760,658	789,361	794,190	792,726	3,136,936	—	—	—	3,835,911
Through SNAP	291,118	335,825	317,463	310,695	335,479	1,299,462	—	—	—	1,590,580
Through TANF	9,588	2,206	2,189	11,848	8,124	24,368	—	—	—	33,955
Through Medicaid	398,270	422,627	469,709	471,647	449,123	1,813,106	—	—	—	2,211,376
Total number income- and adjunctively income-eligible	1,769,098	1,831,390	2,028,793	1,909,322	1,990,423	7,759,928	—	—	—	9,529,026
Number after adjustment for monthly income and certification periods	1,825,015	1,831,390	2,028,793	1,909,322	1,990,423	7,759,928	—	—	—	9,584,943

Step	Infants	1-Year-Old Children	2-Year-Old Children	3-Year-Old Children	4-Year-Old Children	All Children	Pregnant Women	Postpartum Breastfeeding Women	Postpartum Non-Breastfeeding Women	Total
Total number eligible: Number after adjustment for nutritional risk (infants and children)	1,825,015	1,831,390	2,028,793	1,909,322	1,990,423	7,759,928	–	–	–	9,584,943
Starting point for estimates of pregnant and postpartum women	–	–	–	–	–	–	25,342,904	1,825,015	1,825,015	28,992,935
Total number eligible: Number after adjustments for pregnancy and breastfeeding status	–	–	–	–	–	–	1,113,832	787,451	503,535	2,404,818
Total number eligible in the 50 States and the District of Columbia, excluding the U.S. territories served by WIC	1,825,015	1,831,390	2,028,793	1,909,322	1,990,423	7,759,928	1,113,832	787,451	503,535	11,989,762
Total number eligible in all U.S. territories served by WIC ^b	21,379	21,494	22,761	22,749	24,082	91,086	14,574	9,460	5,035	141,535
Total number eligible in the 50 States, the District of Columbia, and the U.S. territories served by WIC	1,846,394	1,852,884	2,051,553	1,932,072	2,014,506	7,851,014	1,128,406	796,911	508,571	12,131,296

CPS = Current Population Survey; CPS ASEC = CPS Annual Social and Economic Supplement; CY = calendar year; FPG = Federal Poverty Guidelines; SNAP = Supplemental Nutrition Assistance Program; TANF = Temporary Assistance for Needy Families

^a Adjunctive income eligibility was counted by the first program that qualified the person for WIC, in this order: SNAP, TANF, and Medicaid.

^b See appendix D for the derivation of WIC eligibility in U.S. territories.

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Sources: IPUMS-USA, n.d.-b; National Center for Health Statistics, n.d.; U.S. Census Bureau, n.d.-a, n.d.-b, n.d.-c

Table C.6a1. Estimated Average Monthly Numbers of Infants and Children, by Year of Age, Eligible for WIC by Demographic and Income Characteristics and Adjunctive Income Eligibility (Unadjusted Weights, Counts): CY 2021

Characteristics		Infants Eligible for WIC			1-Year-Old Children Eligible for WIC			2-Year-Old Children Eligible for WIC		
		Family Income ≤ 185 Percent of FPG ^a	Adjunctively Income- Eligible > 185 Percent of FPG ^b	Total	Family Income ≤ 185 Percent of FPG ^a	Adjunctively Income- Eligible > 185 Percent of FPG ^b	Total	Family Income ≤ 185 Percent of FPG ^a	Adjunctively Income- Eligible > 185 Percent of FPG ^b	Total
Total		1,005,010	655,978	1,660,988	1,104,436	785,186	1,889,623	1,244,538	793,268	2,037,806
Sex	Male	473,177	326,731	799,908	555,254	417,649	972,903	627,719	370,508	998,227
	Female	531,833	329,247	861,080	549,183	367,537	916,720	616,820	422,760	1,039,580
Race	White	598,047	458,717	1,056,765	643,657	495,928	1,139,585	767,842	520,755	1,288,597
	Black	264,192	152,836	417,028	323,833	160,332	484,165	300,884	163,008	463,892
	Other race	142,770	44,425	187,195	136,947	128,926	265,873	175,812	109,505	285,317
Hispanic ethnicity	Hispanic/Latino	365,375	241,162	606,537	383,951	298,724	682,675	437,660	316,554	754,214
	Not Hispanic/Latino	639,635	414,816	1,054,451	720,485	486,462	1,206,948	806,879	476,714	1,283,593
Living arrangement	Two-parent family	541,951	499,475	1,041,426	621,563	579,034	1,200,597	653,603	553,539	1,207,142
	Single-parent family	411,063	126,116	537,179	447,229	188,138	635,367	518,125	213,853	731,979
	No-parent family	51,996	30,387	82,383	35,645	18,014	53,659	72,810	25,876	98,686
	Related nonparent caretaker	14,377	30,387	44,764	22,829	18,014	40,843	29,782	25,876	55,658
	Unrelated nonparent caretaker	37,619	0	37,619	12,815	0	12,815	43,028	0	43,028
Military status of household members	Ever served in U.S. military	34,103	28,167	62,270	40,283	77,910	118,193	44,886	58,884	103,770
	Serving in U.S. military in 2021 ^c	21,318	22,722	44,041	21,023	3,167	24,190	14,598	9,817	24,415
Number of individuals in household	2	56,972	10,863	67,835	52,872	14,450	67,322	67,935	13,998	81,933
	3	247,924	112,193	360,116	214,715	189,021	403,736	192,935	152,634	345,569
	4	216,309	187,329	403,638	240,864	229,965	470,828	311,609	224,423	536,033
	5	201,255	177,548	378,803	253,168	138,186	391,354	257,230	184,828	442,058
	6 or more	282,550	168,045	450,595	342,817	213,565	556,382	414,829	217,385	632,213
	Mean	4.6	4.8	4.7	4.9	4.8	4.8	4.9	4.9	4.9
Number with working parent(s)		580,111	530,485	1,110,596	768,454	718,671	1,487,125	866,027	689,237	1,555,264

Characteristics		Infants Eligible for WIC			1-Year-Old Children Eligible for WIC			2-Year-Old Children Eligible for WIC		
		Family Income ≤ 185 Percent of FPG ^a	Adjunctively Income- Eligible > 185 Percent of FPG ^b	Total	Family Income ≤ 185 Percent of FPG ^a	Adjunctively Income- Eligible > 185 Percent of FPG ^b	Total	Family Income ≤ 185 Percent of FPG ^a	Adjunctively Income- Eligible > 185 Percent of FPG ^b	Total
Annual family income relative to FPG	No income	91,274	0	91,274	69,455	0	69,455	98,457	0	98,457
	Up to 50 percent of FPG	160,421	0	160,421	136,012	0	136,012	190,235	0	190,235
	More than 50 percent up to 100 percent of FPG	242,780	0	242,780	279,037	0	279,037	284,076	0	284,076
	More than 100 percent up to 130 percent of FPG	186,448	0	186,448	221,400	0	221,400	273,777	0	273,777
	More than 130 percent up to 150 percent of FPG	100,674	0	100,674	137,731	0	137,731	137,014	0	137,014
	More than 150 percent up to 185 percent of FPG	223,414	0	223,414	260,801	0	260,801	260,979	0	260,979
	More than 185 percent up to 200 percent of FPG	0	84,752	84,752	0	81,290	81,290	0	90,514	90,514
	More than 200 percent of FPG	0	571,226	571,226	0	703,897	703,897	0	702,754	702,754
Receipt of other benefits	No benefit receipt	221,791	0	221,791	204,409	0	204,409	198,650	0	198,650
	Medicaid, SNAP, and TANF	41,013	11,515	52,528	56,685	21,469	78,154	57,495	18,006	75,501
	SNAP and TANF only	723	3,522	4,245	0	0	0	0	0	0
	Medicaid and SNAP only	311,614	172,900	484,514	517,540	255,210	772,751	549,860	234,497	784,356
	Medicaid and TANF only	0	6,989	6,989	8,548	2,291	10,839	4,136	2,174	6,311
	SNAP only	123,607	85,433	209,040	46,858	70,041	116,899	70,806	66,252	137,058
	TANF only	0	2,073	2,073	0	0	0	0	0	0
	Medicaid only	306,263	373,546	679,809	270,396	436,174	706,571	363,591	472,339	835,930

Note: These estimates were tabulated from the unadjusted person weights for the CPS ASEC data. They are not adjusted to account for the undercount/overcount of infants and children in the CPS relative to Vital Statistics estimates, monthly income, or nutritional risk. This table does not include estimates for the U.S. territories.

CPS = Current Population Survey; CPS ASEC = CPS Annual Social and Economic Supplement; CY = calendar year; FPG = Federal Poverty Guidelines; SNAP = Supplemental Nutrition Assistance Program; TANF = Temporary Assistance for Needy Families

^a The WIC economic unit is defined as all individuals in the CPS ASEC household who are related by blood, marriage, or adoption, plus the unmarried partner of any family member and that partner's dependents. Infants and children in economic units with annual income less than or equal to 185 percent of the FPG for the unit's size are income-eligible for WIC.

^b Adjunctively income-eligible infants and children were in economic units that reported participating in Medicaid, SNAP, or TANF during the prior year and had annual income exceeding 185 percent of the FPG for the unit's size.

^c The military status of household members who were currently serving in the U.S. military was included on the CPS ASEC only if they resided in civilian housing on or off a military base.

Sources: IPUMS-USA, n.d.-b; U.S. Census Bureau, n.d.-a

Table C.6a1 (continued). Estimated Average Monthly Numbers of Infants and Children, by Year of Age, Eligible for WIC by Demographic and Income Characteristics and Adjunctive Income Eligibility (Unadjusted Weights, Counts): CY 2021

Characteristics		3-Year-Old Children Eligible for WIC			4-Year-Old Children Eligible for WIC			All Children Eligible for WIC		
		Family Income ≤ 185 Percent of FPG ^a	Adjunctively Income- Eligible > 185 Percent of FPG ^b	Total	Family Income ≤ 185 Percent of FPG ^a	Adjunctively Income- Eligible > 185 Percent of FPG ^b	Total	Family Income ≤ 185 Percent of FPG ^a	Adjunctively Income- Eligible > 185 Percent of FPG ^b	Total
Total		1,103,780	786,137	1,889,917	1,231,776	814,542	2,046,318	4,684,531	3,179,133	7,863,664
Sex	Male	580,654	414,302	994,956	574,855	416,115	990,969	2,338,481	1,618,574	3,957,055
	Female	523,127	371,835	894,961	656,921	398,427	1,055,348	2,346,050	1,560,559	3,906,609
Race	White	729,855	530,849	1,260,704	725,390	531,610	1,256,999	2,866,743	2,079,142	4,945,886
	Black	259,185	154,563	413,748	354,665	178,496	533,160	1,238,567	656,398	1,894,966
	Other race	114,740	100,724	215,465	151,721	104,437	256,158	579,220	443,592	1,022,813
Hispanic ethnicity	Hispanic/Latino	454,194	274,002	728,195	407,460	266,046	673,506	1,683,265	1,155,325	2,838,590
	Not Hispanic/Latino	649,587	512,135	1,161,722	824,315	548,497	1,372,812	3,001,266	2,023,808	5,025,074
Living arrangement	Two-parent family	583,844	563,562	1,147,406	596,601	557,339	1,153,940	2,455,611	2,253,474	4,709,085
	Single-parent family	440,685	188,898	629,583	569,771	237,483	807,253	1,975,811	828,372	2,804,182
	No-parent family	79,251	33,677	112,928	65,404	19,720	85,124	253,109	97,288	350,397
	Related nonparent caretaker	40,128	33,677	73,806	39,658	19,720	59,379	132,398	97,288	229,686
	Unrelated nonparent caretaker	39,122	0	39,122	25,746	0	25,746	120,711	0	120,711
Military status of household members	Ever served in U.S. military	49,593	54,514	104,107	36,339	81,256	117,595	171,101	272,564	443,665
	Serving in U.S. military in 2021 ^c	12,868	13,617	26,485	20,085	25,061	45,146	68,574	51,663	120,236
Number of individuals in household	2	69,469	22,417	91,885	83,096	23,517	106,613	273,372	74,381	347,754
	3	163,618	132,304	295,923	221,329	131,824	353,152	792,597	605,783	1,398,380
	4	309,916	238,541	548,457	305,042	239,260	544,303	1,167,431	932,190	2,099,621
	5	227,928	168,135	396,063	273,729	212,052	485,780	1,012,055	703,200	1,715,255
	6 or more	332,850	224,740	557,589	348,580	207,890	556,470	1,439,075	863,579	2,302,654
	Mean	4.8	4.9	4.9	4.8	4.8	4.8	4.8	4.8	4.8

Characteristics		3-Year-Old Children Eligible for WIC			4-Year-Old Children Eligible for WIC			All Children Eligible for WIC		
		Family Income ≤ 185 Percent of FPG ^a	Adjunctively Income- Eligible > 185 Percent of FPG ^b	Total	Family Income ≤ 185 Percent of FPG ^a	Adjunctively Income- Eligible > 185 Percent of FPG ^b	Total	Family Income ≤ 185 Percent of FPG ^a	Adjunctively Income- Eligible > 185 Percent of FPG ^b	Total
Number with working parent(s)		800,001	687,502	1,487,503	846,985	722,407	1,569,393	3,281,468	2,817,817	6,099,285
Annual family income relative to FPG	No income	94,797	0	94,797	94,484	0	94,484	357,194	0	357,194
	Up to 50 percent of FPG	166,892	0	166,892	205,138	0	205,138	698,277	0	698,277
	More than 50 percent up to 100 percent of FPG	255,907	0	255,907	294,741	0	294,741	1,113,763	0	1,113,763
	More than 100 percent up to 130 percent of FPG	167,610	0	167,610	226,334	0	226,334	889,121	0	889,121
	More than 130 percent up to 150 percent of FPG	159,167	0	159,167	110,256	0	110,256	544,167	0	544,167
	More than 15 percent up to 185 percent of FPG	259,406	0	259,406	300,822	0	300,822	1,082,008	0	1,082,008
	More than 185 percent up to 200 percent of FPG	0	96,598	96,598	0	94,854	94,854	0	363,256	363,256
	More than 200 percent of FPG	0	689,539	689,539	0	719,688	719,688	0	2,815,877	2,815,877
Receipt of other benefits	No benefit receipt	201,349	0	201,349	213,874	0	213,874	818,282	0	818,282
	Medicaid, SNAP, and TANF	52,922	13,848	66,771	42,600	13,584	56,184	209,702	66,908	276,609
	SNAP and TANF only	1,492	0	1,492	0	0	0	1,492	0	1,492
	Medicaid and SNAP only	482,493	200,535	683,028	572,746	207,341	780,087	2,122,639	897,583	3,020,222
	Medicaid and TANF only	2,324	11,858	14,182	14,130	8,302	22,432	29,138	24,625	53,763
	SNAP only	68,704	92,487	161,191	56,086	123,551	179,637	242,454	352,331	594,786
	TANF only	0	0	0	0	0	0	0	0	0
	Medicaid only	294,497	467,409	761,906	332,340	461,764	794,104	1,260,825	1,837,686	3,098,511

Note: These estimates were tabulated from the unadjusted person weights for the CPS ASEC data. They are not adjusted to account for the undercount/overcount of infants and children in the CPS relative to Vital Statistics estimates, monthly income, or nutritional risk. This table does not include estimates for the U.S. territories.

CPS = Current Population Survey; CPS ASEC = CPS Annual Social and Economic Supplement; CY = calendar year; FPG = Federal Poverty Guidelines; SNAP = Supplemental Nutrition Assistance Program; TANF = Temporary Assistance for Needy Families

^a The WIC economic unit is defined as all individuals in the CPS ASEC household who are related by blood, marriage, or adoption, plus the unmarried partner of any family member and that partner's dependents. Infants and children in economic units with annual income less than or equal to 185 percent of the FPG for the unit's size are income-eligible for WIC.

^b Adjunctively income-eligible infants and children were in economic units that reported participating in Medicaid, SNAP, or TANF during the prior year and had annual income exceeding 185 percent of the FPG for the unit's size.

^c The military status of household members who were currently serving in the U.S. military was included on the CPS ASEC only if they resided in civilian housing on or off a military base.

Sources: IPUMS-USA, n.d.-b; U.S. Census Bureau, n.d.-a

Table C.6a2. Estimated Average Monthly Numbers of Infants and Children, by Year of Age, Eligible for WIC by Demographic and Income Characteristics and Adjunctive Income Eligibility (Unadjusted Weights, Percentages): CY 2021

Characteristics		Infants Eligible for WIC			1-Year-Old Children Eligible for WIC			2-Year-Old Children Eligible for WIC		
		Family Income ≤ 185 Percent of FPG ^a	Adjunctively Income- Eligible > 185 Percent of FPG ^b	Total	Family Income ≤ 185 Percent of FPG ^a	Adjunctively Income- Eligible > 185 Percent of FPG ^b	Total	Family Income ≤ 185 Percent of FPG ^a	Adjunctively Income- Eligible > 185 Percent of FPG ^b	Total
Total		1,005,010	655,978	1,660,988	1,104,436	785,186	1,889,623	1,244,538	793,268	2,037,806
Sex	Male	47.1	49.8	48.2	50.3	53.2	51.5	50.4	46.7	49.0
	Female	52.9	50.2	51.8	49.7	46.8	48.5	49.6	53.3	51.0
Race	White	59.5	69.9	63.6	58.3	63.2	60.3	61.7	65.6	63.2
	Black	26.3	23.3	25.1	29.3	20.4	25.6	24.2	20.5	22.8
	Other race	14.2	6.8	11.3	12.4	16.4	14.1	14.1	13.8	14.0
Hispanic ethnicity	Hispanic/Latino	36.4	36.8	36.5	34.8	38.0	36.1	35.2	39.9	37.0
	Not Hispanic/Latino	63.6	63.2	63.5	65.2	62.0	63.9	64.8	60.1	63.0
Living arrangement	Two-parent family	53.9	76.1	62.7	56.3	73.7	63.5	52.5	69.8	59.2
	Single-parent family	40.9	19.2	32.3	40.5	24.0	33.6	41.6	27.0	35.9
	No-parent family	5.2	4.6	5.0	3.2	2.3	2.8	5.9	3.3	4.8
	Related nonparent caretaker	1.4	4.6	2.7	2.1	2.3	2.2	2.4	3.3	2.7
	Unrelated nonparent caretaker	3.7	0.0	2.3	1.2	0.0	0.7	3.5	0.0	2.1
Military status of household members	Ever served in U.S. military	3.4	4.3	3.7	3.6	9.9	6.3	3.6	7.4	5.1
	Serving in U.S. military in 2021 ^c	2.1	3.5	2.7	1.9	0.4	1.3	1.2	1.2	1.2
Number of individuals in household	2	5.7	1.7	4.1	4.8	1.8	3.6	5.5	1.8	4.0
	3	24.7	17.1	21.7	19.4	24.1	21.4	15.5	19.2	17.0
	4	21.5	28.6	24.3	21.8	29.3	24.9	25.0	28.3	26.3
	5	20.0	27.1	22.8	22.9	17.6	20.7	20.7	23.3	21.7
	6 or more	28.1	25.6	27.1	31.0	27.2	29.4	33.3	27.4	31.0

Characteristics		Infants Eligible for WIC			1-Year-Old Children Eligible for WIC			2-Year-Old Children Eligible for WIC		
		Family Income ≤ 185 Percent of FPG ^a	Adjunctively Income- Eligible > 185 Percent of FPG ^b	Total	Family Income ≤ 185 Percent of FPG ^a	Adjunctively Income- Eligible > 185 Percent of FPG ^b	Total	Family Income ≤ 185 Percent of FPG ^a	Adjunctively Income- Eligible > 185 Percent of FPG ^b	Total
Percent with working parent(s)		57.7	80.9	66.9	69.6	91.5	78.7	69.6	86.9	76.3
Annual family income relative to FPG	No income	9.1	0.0	5.5	6.3	0.0	3.7	7.9	0.0	4.8
	Up to 50 percent of FPG	16.0	0.0	9.7	12.3	0.0	7.2	15.3	0.0	9.3
	More than 50 percent up to 100 percent of FPG	24.2	0.0	14.6	25.3	0.0	14.8	22.8	0.0	13.9
	More than 100 percent up to 130 percent of FPG	18.6	0.0	11.2	20.0	0.0	11.7	22.0	0.0	13.4
	More than 130 percent up to 150 percent of FPG	10.0	0.0	6.1	12.5	0.0	7.3	11.0	0.0	6.7
	More than 150 percent up to 185 percent of FPG	22.2	0.0	13.5	23.6	0.0	13.8	21.0	0.0	12.8
	More than 185 percent up to 200 percent of FPG	0.0	12.9	5.1	0.0	10.4	4.3	0.0	11.4	4.4
	More than 200 percent of FPG	0.0	87.1	34.4	0.0	89.6	37.3	0.0	88.6	34.5
Receipt of other benefits	No benefit receipt	22.1	0.0	13.4	18.5	0.0	10.8	16.0	0.0	9.7
	SNAP, TANF, and Medicaid	4.1	1.8	3.2	5.1	2.7	4.1	4.6	2.3	3.7
	SNAP and TANF only	0.1	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0
	SNAP and Medicaid only	31.0	26.4	29.2	46.9	32.5	40.9	44.2	29.6	38.5
	TANF and Medicaid only	0.0	1.1	0.4	0.8	0.3	0.6	0.3	0.3	0.3
	SNAP only	12.3	13.0	12.6	4.2	8.9	6.2	5.7	8.4	6.7
	TANF only	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0
	Medicaid only	30.5	56.9	40.9	24.5	55.6	37.4	29.2	59.5	41.0

Note: These estimates were tabulated from the unadjusted person weights for the CPS ASEC data. They are not adjusted to account for the undercount/overcount of infants and children in the CPS relative to Vital Statistics estimates, monthly income, or nutritional risk. This table does not include estimates for the U.S. territories.

CPS = Current Population Survey; CPS ASEC = CPS Annual Social and Economic Supplement; CY = calendar year; FPG = Federal Poverty Guidelines; SNAP = Supplemental Nutrition Assistance Program; TANF = Temporary Assistance for Needy Families

^a The WIC economic unit is defined as all individuals in the CPS ASEC household who are related by blood, marriage, or adoption, plus the unmarried partner of any family member and that partner's dependents. Infants and children in economic units with annual income less than or equal to 185 percent of the FPG for the unit's size are income-eligible for WIC.

^b Adjunctively income-eligible infants and children were in economic units that reported participating in Medicaid, SNAP, or TANF during the prior year and had annual income exceeding 185 percent of the FPG for the unit's size.

^c The military status of household members who were currently serving in the U.S. military was included on the CPS ASEC only if they resided in civilian housing on or off a military base.

Sources: IPUMS-USA, n.d.-b; U.S. Census Bureau, n.d.-a

Table C.6a2 (continued). Estimated Average Monthly Numbers of Infants and Children, by Year of Age, Eligible for WIC by Demographic and Income Characteristics and Adjunctive Income Eligibility (Unadjusted Weights, Percentages): CY 2021

Characteristics		3-Year-Old Children Eligible for WIC			4-Year-Old Children Eligible for WIC			All Children Eligible for WIC		
		Family Income ≤ 185 Percent of FPG ^a	Adjunctively Income- Eligible > 185 Percent of FPG ^b	Total	Family Income ≤ 185 Percent of FPG ^a	Adjunctively Income- Eligible > 185 Percent of FPG ^b	Total	Family Income ≤ 185 Percent of FPG ^a	Adjunctively Income- Eligible > 185 Percent of FPG ^b	Total
Total		1,103,780	786,137	1,889,917	1,231,776	814,542	2,046,318	4,684,531	3,179,133	7,863,664
Sex	Male	52.6	52.7	52.6	46.7	51.1	48.4	49.9	50.9	50.3
	Female	47.4	47.3	47.4	53.3	48.9	51.6	50.1	49.1	49.7
Race	White	66.1	67.5	66.7	58.9	65.3	61.4	61.2	65.4	62.9
	Black	23.5	19.7	21.9	28.8	21.9	26.1	26.4	20.6	24.1
	Other race	10.4	12.8	11.4	12.3	12.8	12.5	12.4	14.0	13.0
Hispanic ethnicity	Hispanic/Latino	41.1	34.9	38.5	33.1	32.7	32.9	35.9	36.3	36.1
	Not Hispanic/Latino	58.9	65.1	61.5	66.9	67.3	67.1	64.1	63.7	63.9
Living arrangement	Two-parent family	52.9	71.7	60.7	48.4	68.4	56.4	52.4	70.9	59.9
	Single-parent family	39.9	24.0	33.3	46.3	29.2	39.4	42.2	26.1	35.7
	No-parent family	7.2	4.3	6.0	5.3	2.4	4.2	5.4	3.1	4.5
	Related nonparent caretaker	3.6	4.3	3.9	3.2	2.4	2.9	2.8	3.1	2.9
	Unrelated nonparent caretaker	3.5	0.0	2.1	2.1	0.0	1.3	2.6	0.0	1.5
Military status of household members	Ever served in U.S. military	4.5	6.9	5.5	3.0	10.0	5.7	3.7	8.6	5.6
	Serving in U.S. military in 2021 ^c	1.2	1.7	1.4	1.6	3.1	2.2	1.5	1.6	1.5
Number of individuals in household	2	6.3	2.9	4.9	6.7	2.9	5.2	5.8	2.3	4.4
	3	14.8	16.8	15.7	18.0	16.2	17.3	16.9	19.1	17.8
	4	28.1	30.3	29.0	24.8	29.4	26.6	24.9	29.3	26.7
	5	20.7	21.4	21.0	22.2	26.0	23.7	21.6	22.1	21.8
	6 or more	30.2	28.6	29.5	28.3	25.5	27.2	30.7	27.2	29.3
Percent with working parent(s)		72.5	87.5	78.7	68.8	88.7	76.7	70.0	88.6	77.6

Characteristics		3-Year-Old Children Eligible for WIC			4-Year-Old Children Eligible for WIC			All Children Eligible for WIC		
		Family Income ≤ 185 Percent of FPG ^a	Adjunctively Income- Eligible > 185 Percent of FPG ^b	Total	Family Income ≤ 185 Percent of FPG ^a	Adjunctively Income- Eligible > 185 Percent of FPG ^b	Total	Family Income ≤ 185 Percent of FPG ^a	Adjunctively Income- Eligible > 185 Percent of FPG ^b	Total
Annual family income relative to FPG	No income	8.6	0.0	5.0	7.7	0.0	4.6	7.6	0.0	4.5
	Up to 50 percent of FPG	15.1	0.0	8.8	16.7	0.0	10.0	14.9	0.0	8.9
	More than 50 percent up to 100 percent of FPG	23.2	0.0	13.5	23.9	0.0	14.4	23.8	0.0	14.2
	More than 100 percent up to 130 percent of FPG	15.2	0.0	8.9	18.4	0.0	11.1	19.0	0.0	11.3
	More than 130 percent up to 150 percent of FPG	14.4	0.0	8.4	9.0	0.0	5.4	11.6	0.0	6.9
	More than 150 percent up to 185 percent of FPG	23.5	0.0	13.7	24.4	0.0	14.7	23.1	0.0	13.8
	More than 185 percent up to 200 percent of FPG	0.0	12.3	5.1	0.0	11.6	4.6	0.0	11.4	4.6
	More than 200 percent of FPG	0.0	87.7	36.5	0.0	88.4	35.2	0.0	88.6	35.8
Receipt of other benefits	No benefit receipt	18.2	0.0	10.7	17.4	0.0	10.5	17.5	0.0	10.4
	Medicaid, SNAP, and TANF	4.8	1.8	3.5	3.5	1.7	2.7	4.5	2.1	3.5
	SNAP and TANF only	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
	Medicaid and SNAP only	43.7	25.5	36.1	46.5	25.5	38.1	45.3	28.2	38.4
	Medicaid and TANF only	0.2	1.5	0.8	1.1	1.0	1.1	0.6	0.8	0.7
	SNAP only	6.2	11.8	8.5	4.6	15.2	8.8	5.2	11.1	7.6
	TANF only	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Medicaid only	26.7	59.5	40.3	27.0	56.7	38.8	26.9	57.8	39.4

Note: These estimates were tabulated from the unadjusted person weights for the CPS ASEC data. They are not adjusted to account for the undercount/overcount of infants and children in the CPS relative to Vital Statistics estimates, monthly income, or nutritional risk. This table does not include estimates for the U.S. territories.

CPS = Current Population Survey; CPS ASEC = CPS Annual Social and Economic Supplement; CY = calendar year; FPG = Federal Poverty Guidelines; SNAP = Supplemental Nutrition Assistance Program; TANF = Temporary Assistance for Needy Families

^a The WIC economic unit is defined as all individuals in the CPS ASEC household who are related by blood, marriage, or adoption, plus the unmarried partner of any family member and that partner's dependents. Infants and children in economic units with annual income less than or equal to 185 percent of the FPG for the unit's size are income-eligible for WIC.

^b Adjunctively income-eligible infants and children were in economic units that reported participating in Medicaid, SNAP, or TANF during the prior year and had annual income exceeding 185 percent of the FPG for the unit's size.

^c The military status of household members who were currently serving in the U.S. military was included on the CPS ASEC only if they resided in civilian housing on or off a military base.

Sources: IPUMS-USA, n.d.-b; U.S. Census Bureau, n.d.-a

Table C.6b1. Estimated Average Monthly Numbers of Infants and Children, by Year of Age, Eligible for WIC by Demographic and Income Characteristics and Adjunctive Income Eligibility (Fully Adjusted Weights, Counts): CY 2021

Characteristics		Infants Eligible for WIC			1-Year-Old Children Eligible for WIC			2-Year-Old Children Eligible for WIC		
		Family Income ≤ 185 Percent of FPG ^a	Adjunctively Income- Eligible > 185 Percent of FPG ^b	Total	Family Income ≤ 185 Percent of FPG ^a	Adjunctively Income- Eligible > 185 Percent of FPG ^b	Total	Family Income ≤ 185 Percent of FPG ^a	Adjunctively Income- Eligible > 185 Percent of FPG ^b	Total
Total		1,101,323	723,693	1,825,015	1,070,731	760,658	1,831,390	1,239,431	789,361	2,028,793
Sex	Male	523,600	366,017	889,617	531,489	399,773	931,262	631,987	373,027	1,005,015
	Female	577,722	357,676	935,398	539,242	360,885	900,127	607,444	416,334	1,023,778
Race	White	667,549	513,714	1,181,264	623,622	480,735	1,104,358	764,770	518,752	1,283,522
	Black	281,895	162,671	444,566	314,125	155,372	469,498	299,730	161,791	461,520
	Other race	151,878	47,307	199,185	132,984	124,551	257,534	174,931	108,819	283,750
Hispanic ethnicity	Hispanic/Latino	371,612	245,499	617,111	372,267	289,547	661,814	434,231	313,757	747,988
	Not Hispanic/Latino	680,018	445,726	1,125,744	698,464	471,112	1,169,575	800,931	473,085	1,274,016
Living arrangement	Two-parent family	597,978	553,922	1,151,900	602,246	561,044	1,163,290	651,155	550,823	1,201,978
	Single-parent family	445,945	136,845	582,789	433,984	182,115	616,099	515,860	212,773	728,634
	No-parent family	57,400	32,926	90,326	34,502	17,499	52,001	72,416	25,765	98,181
	Related nonparent caretaker	15,922	32,926	48,847	22,120	17,499	39,619	29,531	25,765	55,296
	Unrelated nonparent caretaker	41,479	0	41,479	12,381	0	12,381	42,885	0	42,885
Military status of household members	Ever served in U.S. military	37,981	31,457	69,437	38,937	75,806	114,742	44,808	58,556	103,364
	Serving in U.S. military in 2021 ^c	24,024	24,451	48,475	20,253	3,055	23,308	14,523	9,731	24,254
Number of people in household	2	61,480	11,718	73,198	51,526	13,922	65,448	67,549	13,910	81,220
	3	271,987	125,430	397,417	208,332	183,092	391,424	191,697	151,617	342,388
	4	237,733	206,772	444,504	233,007	222,270	455,277	310,878	223,139	532,122
	5	222,073	193,426	415,498	245,490	134,157	379,647	256,008	184,132	438,656
	6 or more	308,050	186,347	494,397	332,376	207,219	539,595	413,299	216,563	627,618
Mean		4.6	4.6	4.8	4.7	4.9	4.8	4.8	4.9	4.9
Number with working parent(s)		608,266	637,116	587,875	1,224,991	745,405	696,373	1,441,778	862,798	685,819

Characteristics		Infants Eligible for WIC			1-Year-Old Children Eligible for WIC			2-Year-Old Children Eligible for WIC		
		Family Income ≤ 185 Percent of FPG ^a	Adjunctively Income- Eligible > 185 Percent of FPG ^b	Total	Family Income ≤ 185 Percent of FPG ^a	Adjunctively Income- Eligible > 185 Percent of FPG ^b	Total	Family Income ≤ 185 Percent of FPG ^a	Adjunctively Income- Eligible > 185 Percent of FPG ^b	Total
Annual family income relative to FPG	No income	99,766	0	99,766	67,138	0	67,138	98,112	0	98,112
	Up to 50 percent of FPG	175,568	0	175,568	131,747	0	131,747	189,355	0	189,355
	More than 50 percent up to 100 percent of FPG	264,569	0	264,569	270,848	0	270,848	282,843	0	282,843
	More than 100 percent up to 130 percent of FPG	204,508	0	204,508	215,270	0	215,270	272,279	0	272,279
	More than 130 percent up to 150 percent of FPG	110,164	0	110,164	133,233	0	133,233	136,615	0	136,615
	More than 150 percent up to 185 percent of FPG	246,748	0	246,748	252,495	0	252,495	260,227	0	260,227
	More than 185 percent up to 200 percent of FPG	0	92,753	92,753	0	78,945	78,945	0	90,234	90,234
	More than 200 percent of FPG	0	630,940	630,940	0	681,713	681,713	0	699,128	699,128
Receipt of other benefits	No benefit receipt	244,815	0	244,815	197,851	0	197,851	197,913	0	197,913
	Medicaid, SNAP, and TANF	43,838	12,111	55,948	54,826	20,912	75,738	57,549	17,839	75,389
	SNAP and TANF only	859	3,711	4,569	0	0	0	0	0	0
	Medicaid and SNAP only	340,029	188,042	528,071	502,381	247,247	749,628	547,274	233,695	780,969
	Medicaid and TANF only	0	7,350	7,350	8,244	2,206	10,450	4,090	2,189	6,279
	SNAP only	137,574	93,956	231,530	45,551	67,666	113,217	70,472	65,929	136,401
	TANF only	0	2,462	2,462	0	0	0	0	0	0
	Medicaid only	334,209	416,062	750,271	261,879	422,627	684,506	362,133	469,709	831,842

Note: These estimates were tabulated from the fully adjusted person weights for the CPS ASEC data. They were adjusted to account for the undercount/overcount of infants and children in the CPS relative to Vital Statistics estimates, monthly income, or nutritional risk. This table does not include estimates for the U.S. territories.

CPS = Current Population Survey; CPS ASEC = CPS Annual Social and Economic Supplement; CY = calendar year; FPG = Federal Poverty Guidelines; SNAP = Supplemental Nutrition Assistance Program; TANF = Temporary Assistance for Needy Families

^a The WIC economic unit is defined as all individuals in the CPS ASEC household who are related by blood, marriage, or adoption, plus the unmarried partner of any family member and that partner's dependents. Infants and children in economic units with annual income less than or equal to 185 percent of the FPG for the unit's size are income-eligible for WIC.

^b Adjunctively income-eligible infants and children were in economic units that reported participating in Medicaid, SNAP, or TANF during the prior year and had annual income exceeding 185 percent of the FPG for the unit's size.

^c The military status of household members who were currently serving in the U.S. military was included on the CPS ASEC only if they resided in civilian housing on or off a military base.

Sources: IPUMS-USA, n.d.-b; U.S. Census Bureau, n.d.-a

Table C.6b1 (continued). Estimated Average Monthly Numbers of Infants and Children, by Year of Age, Eligible for WIC by Demographic and Income Characteristics and Adjunctive Income Eligibility (Fully Adjusted Weights, Counts): CY 2021

Characteristics		3-Year-Old Children Eligible for WIC			4-Year-Old Children Eligible for WIC			All Children Eligible for WIC		
		Family Income ≤ 185 Percent of FPG ^a	Adjunctively Income- Eligible > 185 Percent of FPG ^b	Total	Family Income ≤ 185 Percent of FPG ^a	Adjunctively Income- Eligible > 185 Percent of FPG ^b	Total	Family Income ≤ 185 Percent of FPG ^a	Adjunctively Income- Eligible > 185 Percent of FPG ^b	Total
Total		1,115,132	794,190	1,909,322	1,197,697	792,726	1,990,423	4,622,992	3,136,936	7,759,928
Sex	Male	574,847	410,159	985,006	565,082	409,041	974,123	2,303,405	1,592,001	3,895,406
	Female	540,285	384,031	924,316	632,615	383,686	1,016,300	2,319,587	1,544,935	3,864,522
Race	White	737,596	536,717	1,274,312	705,593	517,337	1,222,930	2,831,581	2,053,541	4,885,122
	Black	261,549	156,087	417,636	344,681	173,886	518,566	1,220,085	647,136	1,867,221
	Other race	115,988	101,386	217,374	147,423	101,504	248,927	571,326	436,259	1,007,585
Hispanic ethnicity	Hispanic/Latino	458,214	277,438	735,652	396,251	258,924	655,175	1,662,407	1,140,567	2,802,974
	Not Hispanic/Latino	656,918	516,752	1,173,670	801,446	533,802	1,335,248	2,960,585	1,996,370	4,956,955
Living arrangement	Two-parent family	589,872	569,670	1,159,542	580,006	542,342	1,122,348	2,423,280	2,223,879	4,647,159
	Single-parent family	445,147	190,547	635,695	553,975	231,149	785,124	1,948,966	816,584	2,765,551
	No-parent family	80,113	33,973	114,085	63,716	19,236	82,952	250,746	96,473	347,219
	Related nonparent caretaker	40,656	33,973	74,629	38,610	19,236	57,845	130,917	96,473	227,390
	Unrelated nonparent caretaker	39,456	0	39,456	25,107	0	25,107	119,829	0	119,829
Military status of household members	Ever served in U.S. military	50,726	54,901	105,627	35,150	78,946	114,096	169,621	268,208	437,829
	Serving in U.S. military in 2021 ^c	13,045	13,705	26,751	19,447	24,409	43,856	67,269	50,899	118,168
Number of people in household	2	69,669	22,682	92,351	80,987	22,847	103,834	269,731	73,360	341,792
	3	165,031	134,095	299,126	214,722	128,481	343,203	779,783	597,285	1,371,418
	4	314,470	240,523	554,993	296,541	232,463	529,003	1,154,896	918,394	2,062,183
	5	230,324	169,341	399,665	266,258	206,599	472,858	998,080	694,230	1,685,030
	6 or more	335,639	227,549	563,187	339,189	202,337	541,526	1,420,502	853,668	2,263,363
Mean		4.8	4.8	4.9	4.9	4.8	4.8	4.8	4.8	4.8
Number with working parent(s)		807,703	694,672	1,502,375	823,365	703,200	1,526,565	3,239,271	2,780,064	6,019,335

Characteristics		3-Year-Old Children Eligible for WIC			4-Year-Old Children Eligible for WIC			All Children Eligible for WIC		
		Family Income ≤ 185 Percent of FPG ^a	Adjunctively Income- Eligible > 185 Percent of FPG ^b	Total	Family Income ≤ 185 Percent of FPG ^a	Adjunctively Income- Eligible > 185 Percent of FPG ^b	Total	Family Income ≤ 185 Percent of FPG ^a	Adjunctively Income- Eligible > 185 Percent of FPG ^b	Total
Annual family income relative to FPG	No income	95,313	0	95,313	91,841	0	91,841	352,404	0	352,404
	Up to 50 percent of FPG	169,151	0	169,151	199,440	0	199,440	689,693	0	689,693
	More than 50 percent up to 100 percent of FPG	257,545	0	257,545	286,768	0	286,768	1,098,003	0	1,098,003
	More than 100 percent up to 130 percent of FPG	169,393	0	169,393	220,439	0	220,439	877,381	0	877,381
	More than 130 percent up to 150 percent of FPG	160,867	0	160,867	107,320	0	107,320	538,035	0	538,035
	More than 150 percent up to 185 percent of FPG	262,864	0	262,864	291,888	0	291,888	1,067,475	0	1,067,475
	More than 185 percent up to 200 percent of FPG	0	97,654	97,654	0	92,412	92,412	0	359,246	359,246
	More than 200 percent of FPG	0	696,535	696,535	0	700,314	700,314	0	2,777,690	2,777,690
Receipt of other benefits	No benefit receipt	203,126	0	203,126	207,762	0	207,762	806,651	0	806,651
	Medicaid, SNAP, and TANF	53,860	13,990	67,850	41,476	13,313	54,789	207,712	66,054	273,766
	SNAP and TANF only	1,477	0	1,477	0	0	0	1,477	0	1,477
	Medicaid and SNAP only	487,595	203,413	691,007	556,765	202,041	758,806	2,094,014	886,397	2,980,410
	Medicaid and TANF only	2,301	11,848	14,149	13,749	8,124	21,873	28,383	24,368	52,750
	SNAP only	69,757	93,292	163,049	54,436	120,124	174,560	240,216	347,012	587,227
	TANF only	0	0	0	0	0	0	0	0	0
	Medicaid only	297,018	471,647	768,665	323,510	449,123	772,633	1,244,540	1,813,106	3,057,646

Note: These estimates were tabulated from the fully adjusted person weights for the CPS ASEC data. They were adjusted to account for the undercount/overcount of infants and children in the CPS relative to Vital Statistics estimates, monthly income, or nutritional risk. This table does not include estimates for the U.S. territories.

CPS = Current Population Survey; CPS ASEC = CPS Annual Social and Economic Supplement; CY = calendar year; FPG = Federal Poverty Guidelines; SNAP = Supplemental Nutrition Assistance Program; TANF = Temporary Assistance for Needy Families

^a The WIC economic unit is defined as all individuals in the CPS ASEC household who are related by blood, marriage, or adoption, plus the unmarried partner of any family member and that partner's dependents. Infants and children in economic units with annual income less than or equal to 185 percent of the FPG for the unit's size are income-eligible for WIC.

^b Adjunctively income-eligible infants and children were in economic units that reported participating in Medicaid, SNAP, or TANF during the prior year and had annual income exceeding 185 percent of the FPG for the unit's size.

^c The military status of household members who were currently serving in the U.S. military was included on the CPS ASEC only if they resided in civilian housing on or off a military base.

Sources: IPUMS-USA, n.d.-b; U.S. Census Bureau, n.d.-a

Table C.6b2. Estimated Average Monthly Numbers of Infants and Children, by Year of Age, Eligible for WIC by Demographic and Income Characteristics and Adjunctive Income Eligibility (Fully Adjusted Weights, Percentages): CY 2021

Characteristics		Infants Eligible for WIC			1-Year-Old Children Eligible for WIC			2-Year-Old Children Eligible for WIC		
		Family Income ≤ 185 Percent of FPG ^a	Adjunctively Income-Eligible > 185 Percent of FPG ^b	Total	Family Income ≤ 185 Percent of FPG ^a	Adjunctively Income-Eligible > 185 Percent of FPG ^b	Total	Family Income ≤ 185 Percent of FPG ^a	Adjunctively Income-Eligible > 185 Percent of FPG ^b	Total
Total		1,101,323	723,693	1,825,015	1,070,731	760,658	1,831,390	1,239,431	789,361	2,028,793
Sex	Male	47.5	50.6	48.7	49.6	52.6	50.9	51.0	47.3	49.5
	Female	52.5	49.4	51.3	50.4	47.4	49.2	49.0	52.7	50.5
Race	White	60.6	71.0	64.7	58.2	63.2	60.3	61.7	65.7	63.3
	Black	25.6	22.5	24.4	29.3	20.4	25.6	24.2	20.5	22.7
	Other race	13.8	6.5	10.9	12.4	16.4	14.1	14.1	13.8	14.0
Hispanic ethnicity	Hispanic/Latino	35.3	35.5	35.4	34.8	38.1	36.1	35.2	39.9	37.0
	Not Hispanic/Latino	64.7	64.5	64.6	65.2	61.9	63.9	64.8	60.1	63.0
Living arrangement	Two-parent family	54.3	76.5	63.1	56.2	73.8	63.5	52.5	69.8	59.2
	Single-parent family	40.5	18.9	31.9	40.5	23.9	33.6	41.6	27.0	35.9
	No-parent family	5.2	4.6	4.9	3.2	2.3	2.8	5.8	3.3	4.8
	Related nonparent caretaker	1.4	4.6	2.7	2.1	2.3	2.2	2.4	3.3	2.7
	Unrelated nonparent caretaker	3.8	0.0	2.3	1.2	0.0	0.7	3.5	0.0	2.1
Military status of household members	Ever served in U.S. military	3.4	4.3	3.8	3.6	10.0	6.3	3.6	7.4	5.1
	Serving in U.S. military in 2021 ^c	2.2	3.4	2.7	1.9	0.4	1.3	1.2	1.2	1.2
Number of people in household	2	5.6	1.6	4.0	4.8	1.8	3.6	5.5	1.8	4.0
	3	24.7	17.3	21.8	19.5	24.1	21.4	15.5	19.2	16.9
	4	21.6	28.6	24.4	21.8	29.2	24.9	25.1	28.3	26.3
	5	20.2	26.7	22.8	22.9	17.6	20.7	20.7	23.3	21.7
	6 or more	28.0	25.7	27.1	31.0	27.2	29.5	33.3	27.4	31.0
Percent with working parent(s)		57.8	57.9	81.2	67.1	69.6	91.5	78.7	69.6	86.9

Characteristics		Infants Eligible for WIC			1-Year-Old Children Eligible for WIC			2-Year-Old Children Eligible for WIC		
		Family Income ≤ 185 Percent of FPG ^a	Adjunctively Income- Eligible > 185 Percent of FPG ^b	Total	Family Income ≤ 185 Percent of FPG ^a	Adjunctively Income- Eligible > 185 Percent of FPG ^b	Total	Family Income ≤ 185 Percent of FPG ^a	Adjunctively Income- Eligible > 185 Percent of FPG ^b	Total
Annual family income relative to FPG ^b	No income	9.1	0.0	5.5	6.3	0.0	3.7	7.9	0.0	4.8
	Up to 50 percent of FPG	15.9	0.0	9.6	12.3	0.0	7.2	15.3	0.0	9.3
	More than 50 percent up to 100 percent of FPG	24.0	0.0	14.5	25.3	0.0	14.8	22.8	0.0	13.9
	More than 100 percent up to 130 percent of FPG	18.6	0.0	11.2	20.1	0.0	11.8	22.0	0.0	13.4
	More than 130 percent up to 150 percent of FPG	10.0	0.0	6.0	12.4	0.0	7.3	11.0	0.0	6.7
	More than 150 percent up to 185 percent of FPG	22.4	0.0	13.5	23.6	0.0	13.8	21.0	0.0	12.8
	More than 185 percent up to 200 percent of FPG	0.0	12.8	5.1	0.0	10.4	4.3	0.0	11.4	4.4
	More than 200 percent of FPG ^d	0.0	87.2	34.6	0.0	89.6	37.2	0.0	88.6	34.5
Receipt of other benefits	No benefit receipt	22.2	0.0	13.4	18.5	0.0	10.8	16.0	0.0	9.8
	Medicaid, SNAP, and TANF	4.0	1.7	3.1	5.1	2.7	4.1	4.6	2.3	3.7
	SNAP and TANF only	0.1	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0
	Medicaid and SNAP only	30.9	26.0	28.9	46.9	32.5	40.9	44.2	29.6	38.5
	Medicaid and TANF only	0.0	1.0	0.4	0.8	0.3	0.6	0.3	0.3	0.3
	SNAP only	12.5	13.0	12.7	4.3	8.9	6.2	5.7	8.4	6.7
	TANF only	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0
	Medicaid only	30.3	57.5	41.1	24.5	55.6	37.4	29.2	59.5	41.0

Note: These estimates were tabulated from the fully adjusted person weights for the CPS ASEC data. They were adjusted to account for the undercount/overcount of infants and children in the CPS relative to Vital Statistics estimates, monthly income, or nutritional risk. This table does not include estimates for the U.S. territories.

CPS = Current Population Survey; CPS ASEC = CPS Annual Social and Economic Supplement; CY = calendar year; FPG = Federal Poverty Guidelines; SNAP = Supplemental Nutrition Assistance Program; TANF = Temporary Assistance for Needy Families

^a The WIC economic unit is defined as all individuals in the CPS ASEC household who are related by blood, marriage, or adoption, plus the unmarried partner of any family member and that partner's dependents. Infants and children in economic units with annual income less than or equal to 185 percent of the FPG for the unit's size are income-eligible for WIC.

^b Adjunctively income-eligible infants and children were in economic units that reported participating in Medicaid, SNAP, or TANF during the prior year and had annual income exceeding 185 percent of the FPG for the unit's size.

^c The military status of household members who were currently serving in the U.S. military was included on the CPS ASEC only if they resided in civilian housing on or off a military base.

^d Although 40.3 percent of infants and children eligible for WIC were in households with annual income that exceeded 185 percent of the FPG, the proportion of WIC participants in households with annual income that exceeded 185 percent of the FPG was much lower (3.5 percent of total participants in 2020; Kline et al., 2022). The table shows the mutually exclusive counts of infants and children who were directly income-eligible for WIC (family income ≤ 185 percent of FPG) and those who appeared to be solely adjunctively income-eligible (family income > 185 percent of FPG and receiving SNAP, TANF, or Medicaid) based on annualized income.

Sources: IPUMS-USA, n.d.-b; U.S. Census Bureau, n.d.-a

Table C.6b2 (continued). Estimated Average Monthly Numbers of Infants and Children, by Year of Age, Eligible for WIC by Demographic and Income Characteristics and Adjunctive Income Eligibility (Fully Adjusted Weights, Percentages): CY 2021

Characteristics		3-Year-Old Children Eligible for WIC			4-Year-Old Children Eligible for WIC			All Children Eligible for WIC		
		Family Income ≤ 185 Percent of FPG ^a	Adjunctively Income- Eligible > 185 Percent of FPG ^b	Total	Family Income ≤ 185 Percent of FPG ^a	Adjunctively Income- Eligible > 185 Percent of FPG ^b	Total	Family Income ≤ 185 Percent of FPG ^a	Adjunctively Income- Eligible > 185 Percent of FPG ^b	Total
Total		1,115,132	794,190	1,909,322	1,197,697	792,726	1,990,423	4,622,992	3,136,936	7,759,928
Sex	Male	51.6	51.6	51.6	47.2	51.6	48.9	49.8	50.8	50.2
	Female	48.5	48.4	48.4	52.8	48.4	51.1	50.2	49.3	49.8
Race	White	66.1	67.6	66.7	58.9	65.3	61.4	61.3	65.5	63.0
	Black	23.5	19.7	21.9	28.8	21.9	26.1	26.4	20.6	24.1
	Other race	10.4	12.8	11.4	12.3	12.8	12.5	12.4	13.9	13.0
Hispanic ethnicity	Hispanic/Latino	41.1	34.9	38.5	33.1	32.7	32.9	36.0	36.4	36.1
	Not Hispanic/Latino	58.9	65.1	61.5	66.9	67.3	67.1	64.0	63.6	63.9
Living arrangement	Two-parent family	52.9	71.7	60.7	48.4	68.4	56.4	52.4	70.9	59.9
	Single-parent family	39.9	24.0	33.3	46.3	29.2	39.4	42.2	26.0	35.6
	No-parent family	7.2	4.3	6.0	5.3	2.4	4.2	5.4	3.1	4.5
	Related nonparent caretaker	3.6	4.3	3.9	3.2	2.4	2.9	2.8	3.1	2.9
	Unrelated nonparent caretaker	3.5	0.0	2.1	2.1	0.0	1.3	2.6	0.0	1.5
Military status of household members	Ever served in U.S. military	4.5	6.9	5.5	2.9	10.0	5.7	3.7	8.6	5.6
	Serving in U.S. military in 2021 ^c	1.2	1.7	1.4	1.6	3.1	2.2	1.5	1.6	1.5
Number of people in household	2	6.2	2.9	4.8	6.8	2.9	5.2	5.8	2.3	4.4
	3	14.8	16.9	15.7	17.9	16.2	17.2	16.9	19.0	17.8
	4	28.2	30.3	29.1	24.8	29.3	26.6	25.0	29.3	26.7
	5	20.7	21.3	20.9	22.2	26.1	23.8	21.6	22.1	21.8
	6 or more	30.1	28.7	29.5	28.3	25.5	27.2	30.7	27.2	29.3
Percent with working parent(s)		72.5	72.4	87.5	78.7	68.7	88.7	76.7	70.1	88.6

Characteristics		3-Year-Old Children Eligible for WIC			4-Year-Old Children Eligible for WIC			All Children Eligible for WIC		
		Family Income ≤ 185 Percent of FPG ^a	Adjunctively Income- Eligible > 185 Percent of FPG ^b	Total	Family Income ≤ 185 Percent of FPG ^a	Adjunctively Income- Eligible > 185 Percent of FPG ^b	Total	Family Income ≤ 185 Percent of FPG ^a	Adjunctively Income- Eligible > 185 Percent of FPG ^b	Total
Annual family income relative to FPG	No income	8.5	0.0	5.0	7.7	0.0	4.6	7.6	0.0	4.5
	Up to 50 percent of FPG	15.2	0.0	8.9	16.7	0.0	10.0	14.9	0.0	8.9
	More than 50 percent up to 100 percent of FPG	23.1	0.0	13.5	23.9	0.0	14.4	23.8	0.0	14.2
	More than 100 percent up to 130 percent of FPG	15.2	0.0	8.9	18.4	0.0	11.1	19.0	0.0	11.3
	More than 130 percent up to 150 percent of FPG	14.4	0.0	8.4	9.0	0.0	5.4	11.6	0.0	6.9
	More than 150 percent up to 185 percent of FPG	23.6	0.0	13.8	24.4	0.0	14.7	23.1	0.0	13.8
	More than 185 percent up to 200 percent of FPG	0.0	12.3	5.1	0.0	11.7	4.6	0.0	11.5	4.6
	More than 200 percent of FPG ^d	0.0	87.7	36.5	0.0	88.3	35.2	0.0	88.5	35.8
Receipt of other benefits	No benefit receipt	18.2	0.0	10.6	17.3	0.0	10.4	17.4	0.0	10.4
	Medicaid, SNAP, and TANF	4.8	1.8	3.6	3.5	1.7	2.8	4.5	2.1	3.5
	SNAP and TANF only	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
	Medicaid and SNAP only	43.7	25.6	36.2	46.5	25.5	38.1	45.3	28.3	38.4
	Medicaid and TANF only	0.2	1.5	0.7	1.1	1.0	1.1	0.6	0.8	0.7
	SNAP only	6.3	11.7	8.5	4.5	15.2	8.8	5.2	11.1	7.6
	TANF only	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Medicaid only	26.6	59.4	40.3	27.0	56.7	38.8	26.9	57.8	39.4

Note: These estimates were tabulated from the fully adjusted person weights for the CPS ASEC data. They were adjusted to account for the undercount/overcount of infants and children in the CPS relative to Vital Statistics estimates, monthly income, or nutritional risk. This table does not include estimates for the U.S. territories.

CPS = Current Population Survey; CPS ASEC = CPS Annual Social and Economic Supplement; CY = calendar year; FPG = Federal Poverty Guidelines; SNAP = Supplemental Nutrition Assistance Program; TANF = Temporary Assistance for Needy Families

^a The WIC economic unit is defined as all individuals in the CPS ASEC household who are related by blood, marriage, or adoption, plus the unmarried partner of any family member and that partner's dependents. Infants and children in economic units with annual income less than or equal to 185 percent of the FPG for the unit's size are income-eligible for WIC.

^b Adjunctively income-eligible infants and children were in economic units that reported participating in Medicaid, SNAP, or TANF during the prior year and had annual income exceeding 185 percent of the FPG for the unit's size.

^c The military status of household members who were currently serving in the U.S. military was included on the CPS ASEC only if they resided in civilian housing on or off a military base.

^d Although 40.3 percent of infants and children eligible for WIC were in households with annual income that exceeded 185 percent of the FPG, the proportion of WIC participants in households with annual income that exceeded 185 percent of the FPG was much lower (3.5 percent of total participants in 2020; Kline et al., 2022). The table shows the mutually exclusive count of children who were directly income-eligible for WIC (family income ≤ 185 percent of FPG) and those who appeared to be solely adjunctively income-eligible (family income > 185 percent of FPG and receiving SNAP, TANF, or Medicaid) based on annualized income.

Sources: IPUMS-USA, n.d.-b; U.S. Census Bureau, n.d.-a

Table C.7. Changes in the Total Population, Total WIC Eligibility, and WIC Eligibility Rates by Participant Category: CY 2020–CY 2021

Participant Category		2020	2021	Percent Change 2020–2021
Total population	Infants	3,619,667	3,667,986	1.3
	Children	15,365,755	15,034,195	-2.2*
	1-year-old children	3,753,620	3,619,907	-3.6*
	2-year-old children	3,796,385	3,753,874	-1.1
	3-year-old children	3,861,684	3,797,804	-1.7
	4-year-old children	3,954,066	3,862,609	-2.3*
	Pregnant women	2,790,074	2,836,373	1.7*
	Postpartum women	3,868,211	3,914,112	1.2
	Breastfeeding women	1,912,007	1,913,230	0.1
	Non-breastfeeding women	1,956,204	2,000,882	2.3
	Total	25,643,707	25,452,666	-0.7*
Number eligible	Infants	1,862,033	1,846,394	-0.8
	Children	7,784,680	7,851,014	0.9
	1-year-old children	1,942,173	1,852,884	-4.6
	2-year-old children	1,916,424	2,051,553	7.1*
	3-year-old children	1,970,726	1,932,072	-2.0
	4-year-old children	1,955,357	2,014,506	3.0
	Pregnant women	1,103,246	1,128,406	2.3*
	Postpartum women	1,331,757	1,305,482	-2.0
	Breastfeeding women	833,152	796,911	-4.4
	Non-breastfeeding women	498,605	508,571	2.0
	Total	12,081,717	12,131,296	0.4
Eligibility rate	Infants	51.4	50.3	-2.1*
	Children	50.7	52.2	3.1*
	1-year-old children	51.7	51.2	-1.1*
	2-year-old children	50.5	54.7	8.3*
	3-year-old children	51.0	50.9	-0.3*
	4-year-old children	49.5	52.2	5.5*
	Pregnant women	39.5	39.8	0.6*
	Postpartum women	34.4	33.4	-3.1*
	Breastfeeding women	43.6	41.7	-4.4*
	Non-breastfeeding women	25.5	25.4	-0.3*
	Total	47.1	47.7	1.2*

Note: The average monthly population of postpartum women includes all women who gave birth less than 1 year prior, even if they are not categorically eligible for WIC because they are more than 6 months postpartum and are not breastfeeding.

CPS ASEC = Current Population Survey Annual Social and Economic Supplement; CY = calendar year; PRCS = Puerto Rico Community Survey

* indicates a statistically significant difference between the 2020 and 2021 estimates of individuals eligible for WIC or WIC eligibility rate at the 95 percent confidence level. The statistical significance testing was conducted on the 2020–2021 change in WIC eligibility based on the CPS ASEC and PRCS data, which included data only for States and Puerto Rico. It did not include data for the other U.S. territories served by WIC.

Sources: IPUMS-USA, n.d.-b; U.S. Census Bureau, n.d.-a, n.d.-b

Table C.8. Stepwise Comparison of Changes in Average Monthly Numbers of Infants and Children Eligible for WIC as Estimated in the March CPS ASEC: CY 2020–CY 2021

	Step	Infants	Children	Total
2020	Total number of individuals in the March CPS	3,588,941	15,504,114	19,093,055
	Number (non-U.S. territory) after adjustment for CPS undercount/overcount	3,594,026	15,252,815	18,846,842
	Number with annual income ≤ 185 percent of FPG	1,129,715	5,120,165	6,249,880
	Number with adjunctive income eligibility	647,301	2,573,343	3,220,644
	Through SNAP	243,540	939,523	1,183,062
	Through TANF	37,508	133,761	171,268
	Through Medicaid	366,254	1,500,059	1,866,313
	Number before monthly income adjustment	1,777,016	7,693,508	9,470,524
	Number after monthly income adjustment	1,840,930	7,693,508	9,534,437
	Total number of eligible individuals	1,840,930	7,693,508	9,534,437
2021	Total number of individuals in the March CPS	3,418,945	15,120,444	18,539,389
	Number (non-U.S. territory) after adjustment for CPS undercount/overcount	3,643,654	14,923,940	18,567,595
	Number with annual income ≤ 185 percent of FPG	1,070,123	4,622,992	5,693,115
	Number with adjunctive income eligibility	698,975	3,136,936	3,835,911
	Through SNAP	291,118	1,299,462	1,590,580
	Through TANF	9,588	24,368	33,955
	Through Medicaid	398,270	1,813,106	2,211,376
	Number before monthly income adjustment	1,769,098	7,759,928	9,529,026
	Number after monthly income adjustment	1,825,015	7,759,928	9,584,943
	Total number of eligible individuals	1,825,015	7,759,928	9,584,943
Percent change 2020–2021	Total number of individuals in the March CPS	-4.7	-2.5	-2.9
	Number (non-U.S. territory) after adjustment for CPS undercount/overcount	1.4	-2.2	-1.5
	Number with annual income < 185 percent of FPG	-5.3	-9.7	-8.9
	Number with adjunctive income eligibility	8.0	21.9	19.1
	Through SNAP	19.5	38.3	34.4
	Through TANF	-74.4	-81.8	-80.2
	Through Medicaid	8.7	20.9	18.5
	Number before monthly income adjustment	-0.4	0.9	0.6
	Number after monthly income adjustment	-0.9	0.9	0.5
	Total number of eligible individuals	-0.9	0.9	0.5

Note: This table does not include estimates for the U.S. territories.

CPS = Current Population Survey; CPS ASEC = CPS Annual Social and Economic Supplement; CY = calendar year; FPG = Federal Poverty Guidelines; SNAP = Supplemental Nutrition Assistance Program; TANF = Temporary Assistance for Needy Families

Sources: IPUMS-USA, n.d.-b; U.S. Census Bureau, n.d.-a

Table C.9. Standard Error and Coefficient of Variation for Estimates by Participant Category: CY 2021

Participant Category	Estimate		Standard Error		Coefficient of Variation (Percent)	
	Total Population	Eligible for WIC	Total Population	Eligible for WIC	Total Population	Eligible for WIC
Infants	3,662,043	1,841,560	53,928	69,074	1.5	3.8
Children	15,010,256	7,832,299	48,844	111,073	0.3	1.4
1-year-old children	3,613,970	1,848,242	48,989	63,619	1.4	3.4
2-year-old children	3,747,908	2,046,889	46,405	55,002	1.2	2.7
3-year-old children	3,791,802	1,927,379	46,385	49,615	1.2	2.6
4-year-old children	3,856,575	2,009,788	49,868	57,305	1.3	2.9
Pregnant women	2,831,938	1,125,124	1,602	9,816	0.1	0.9
Postpartum breastfeeding women	1,910,086	794,780	25,840	28,965	1.4	3.6
Postpartum non-breastfeeding women	1,998,113	507,437	32,709	19,639	1.6	3.9
Total	25,412,436	12,101,199	63,014	151,958	0.2	1.3

Note: The coefficient of variation is defined as the ratio of the standard error to the eligibility estimate. This table does not include estimates for the U.S. territories other than Puerto Rico.

CY = calendar year

Sources: IPUMS-USA, n.d.-b; U.S. Census Bureau, n.d.-a

Appendix D. Detailed Tables for Regional- and State-Level WIC Estimates: CY 2021

This appendix presents detailed estimates of individuals eligible for WIC and coverage rates by FNS Region and State for 2021, including comparisons over time in coverage rates by race and Hispanic ethnicity and by participant category.

Impact of the COVID-19 Pandemic and Public Health Emergency

The COVID-19 public health emergency influenced WIC program eligibility patterns and WIC program operations. The Families First Coronavirus Response Act authorized FNS to issue waivers to provide flexibilities to help State agencies continue to safely serve WIC participants during the pandemic. States varied in the use of waivers, which could have affected program participation. See

<https://www.fns.usda.gov/disaster/pandemic/covid-19/wic-waivers-flexibilities> for a list of waivers issued to each State. For example, States that waived the physical presence requirement or issued benefits remotely may have seen an increase in WIC participation because of these policies.

A list of the seven FNS Regions and the States included in each FNS Region in 2021 follows. The District of Columbia and U.S. territories are included in references to States unless otherwise indicated.

FNS Regions and the States Within Each Region in CY 2021

- | | | |
|--|--|---|
| <p>▶ Northeast</p> <ul style="list-style-type: none">▪ Connecticut▪ Maine▪ Massachusetts▪ New Hampshire▪ New York▪ Rhode Island▪ U.S. Virgin Islands▪ Vermont | <p>▶ Southeast</p> <ul style="list-style-type: none">▪ Alabama▪ Florida▪ Georgia▪ Kentucky▪ Mississippi▪ North Carolina▪ South Carolina▪ Tennessee | <p>▶ Southwest</p> <ul style="list-style-type: none">▪ Arizona▪ Arkansas▪ Louisiana▪ New Mexico▪ Oklahoma▪ Texas▪ Utah |
| <p>▶ Mid-Atlantic</p> <ul style="list-style-type: none">▪ Delaware▪ District of Columbia▪ Maryland▪ New Jersey▪ Pennsylvania▪ Puerto Rico▪ Virginia▪ West Virginia | <p>▶ Midwest</p> <ul style="list-style-type: none">▪ Illinois▪ Indiana▪ Iowa▪ Michigan▪ Minnesota▪ Ohio▪ Wisconsin | <p>▶ Mountain Plains</p> <ul style="list-style-type: none">▪ Colorado▪ Kansas▪ Missouri▪ Montana▪ Nebraska▪ North Dakota▪ South Dakota▪ Wyoming |

- ▶ **Western**
 - Alaska
 - American Samoa
 - California
- Guam
- Hawaii
- Idaho
- Nevada
- Northern Mariana Islands
- Oregon
- Washington

Table D.1. WIC Eligibility, Participants, and Coverage Rates by State and FNS Region: CY 2021

This table shows the estimated number of individuals eligible for WIC, the number of individuals participating in WIC, and the resulting coverage rates by State and FNS Region.

Table D.2. WIC Eligibility, Participants, and Coverage Rates by FNS Region and States in Each Region: CY 2021

This table shows the estimated number of individuals eligible for WIC, the number of individuals participating in WIC, and the resulting coverage rates by FNS Region and the States within each FNS Region.

Table D.3. WIC Eligibility, Participants, and Coverage Rates by FNS Region and Participant Category: CY 2021

This table shows the estimated number of individuals eligible for WIC, the number of individuals participating in WIC, and the resulting coverage rates by FNS Region and participant category.

Table D.4. WIC Eligibility Standard Errors by State and FNS Region: CY 2021

This table shows the estimated number of individuals eligible for WIC and the associated standard errors and coefficients of variation by State and FNS Region. The coefficient of variation is the ratio of the standard error to the eligibility estimate.

Table D.5. WIC Eligibility Standard Errors by FNS Region and States in Each Region: CY 2021

This table shows the estimated number of individuals eligible for WIC and the associated standard errors and coefficients of variation by FNS Region and the States within each FNS Region.

Table D.6. Standard Errors for WIC Eligibility by FNS Region and Participant Category: CY 2021

This table shows the estimated number of individuals eligible for WIC and the associated standard errors and coefficients of variation by FNS Region and participant category.

Tables D.7a and D.7b. Adjustments for Calculating the Average Monthly Number of Individuals Eligible for WIC in Puerto Rico and the Other U.S. Territories by Participant Category: CY 2021

Analogous to table C.5 of the national estimates, this table shows the step-by-step adjustments made to calculate the final numbers of infants, children, and pregnant and postpartum women who were eligible for WIC in Puerto Rico (table D.7a) and the other U.S. territories (table D.7b) based on the PRCS data for Puerto Rico (IPUMS-USA, n.d.-b) and the U.S. Census Bureau population estimates for the other territories (U.S. Census Bureau, n.d.-b).

Table D.8. Regional Estimates of the Average Monthly Numbers of Infants and Children Eligible for WIC by Demographic and Income Characteristics: CY 2021

This table shows the estimated numbers of infants and children eligible for WIC by demographic and income characteristics in the CPS ASEC and ACS data by FNS Region (U.S. Census Bureau, n.d.-a, IPUMS-USA, n.d.-b). It is similar to table C.6 but shows the data by FNS Region and does not show results for children by year of age. This table does not include infants and children from the U.S. territories. This table shows these characteristics using weights that have been fully adjusted, including adjustments for the undercount/overcount in the CPS (population adjustment), monthly income and certification periods (annual-to-monthly adjustment), and nutritional risk.

Tables D.9a–D.9f. WIC Coverage Rates by State: CY 2016–CY 2021

This series of tables shows WIC coverage rates and the associated coefficients of variation by State and year for CY 2016–CY 2021. Table D.9a presents coverage rates for all participants. Tables D.9b through D.9f show coverage rates for each participant category.

Table D.10. WIC Coverage Rates by State and Participant Category With Coefficients of Variation: CY 2021

This table shows the coverage rates by State and participant category and the associated coefficients of variation.

Table D.11. State-Level WIC Coverage Rates by Race and Hispanic Ethnicity With Coefficients of Variation: CY 2021

This table shows the State-level coverage rates by race and Hispanic ethnicity and the associated coefficients of variation.

Table D.12. State-Level WIC Coverage Rates for Children by Race and Hispanic Ethnicity: CY 2021

This table shows the State-level coverage rates for children by race and Hispanic ethnicity.⁸

⁸ The confidence intervals for the other WIC participant categories remained too large to enable precise estimates, even after pooling.

Table D.1. WIC Eligibility, Participants, and Coverage Rates by State and FNS Region: CY 2021

State/FNS Region		Number Eligible	Number Participating	Coverage Rate
State	Alabama	220,194	109,747	49.8
	Alaska	28,091	14,408	51.3
	Arizona	271,936	140,509	51.7
	Arkansas	144,987	50,720	35.0*
	California	1,417,356	942,175	66.5*
	Colorado	170,527	78,046	45.8*
	Connecticut	96,056	44,295	46.1*
	Delaware	36,423	17,331	47.6
	District of Columbia	23,076	13,715	59.4*
	Florida	814,565	400,284	49.1*
	Georgia	471,020	190,336	40.4*
	Hawaii	44,967	25,374	56.4
	Idaho	66,665	29,463	44.2*
	Illinois	419,107	151,949	36.3*
	Indiana	252,238	153,439	60.8*
	Iowa	104,993	57,705	55.0*
	Kansas	96,619	44,120	45.7*
	Kentucky	180,011	106,572	59.2*
	Louisiana	234,766	87,343	37.2*
	Maine	30,828	16,852	54.7
	Maryland	213,702	118,404	55.4*
	Massachusetts	181,992	111,303	61.2*
	Michigan	345,945	203,233	58.7*
	Minnesota	158,386	97,361	61.5*
	Mississippi	150,349	70,109	46.6*
	Missouri	215,077	84,912	39.5*
	Montana	32,286	13,994	43.3*
	Nebraska	60,106	35,010	58.2*
	Nevada	116,730	56,066	48.0
	New Hampshire	26,154	14,025	53.6
	New Jersey	281,823	142,360	50.5
	New Mexico	100,479	34,771	34.6*
	New York	701,750	369,708	52.7
	North Carolina	412,059	254,104	61.7*
	North Dakota	19,350	10,291	53.2
	Ohio	411,728	160,311	38.9*
	Oklahoma	171,640	88,790	51.7
	Oregon	122,707	74,870	61.0*
	Pennsylvania	397,747	163,013	41.0*
	Puerto Rico	111,437	98,563	88.4*

State/FNS Region		Number Eligible	Number Participating	Coverage Rate
State (continued)	Rhode Island	30,176	16,408	54.4
	South Carolina	212,200	86,863	40.9*
	South Dakota	29,103	15,690	53.9
	Tennessee	273,400	112,106	41.0*
	Texas	1,351,113	669,830	49.6*
	Utah	100,103	36,646	36.6*
	Vermont	15,772	11,292	71.6*
	Virginia	246,807	120,503	48.8
	Washington	245,803	121,274	49.3
	West Virginia	63,305	32,399	51.2
	Wisconsin	161,468	84,769	52.5
	Wyoming	16,078	7,003	43.6*
FNS Region	Northeast	1,089,254	586,698	53.9*
	Mid-Atlantic	1,374,319	706,288	51.4
	Southeast	2,733,798	1,330,121	48.7*
	Midwest	1,853,865	908,768	49.0*
	Southwest	2,375,024	1,108,609	46.7*
	Mountain Plains	639,146	289,067	45.2*
	Western	2,065,890	1,275,592	61.7*
	Total	12,131,296	6,205,143	51.2

Note: State and regional eligibility estimates and participant data include individuals in ITOs who were eligible for WIC or receiving WIC. Estimates for U.S. territories other than Puerto Rico are included in regional totals but not shown separately because of constraints related to small sample size.

CPS ASEC = Annual Social and Economic Supplement of the Current Population Survey; CY = calendar year; FNS = Food and Nutrition Service; ITO = Indian Tribal Organization; PRCS = Puerto Rico Community Survey

* indicates a statistically significant difference between the State or regional coverage rate and the national coverage rate at the 95 percent confidence level. The statistical significance testing was conducted based on the CPS ASEC and PRCS data, which included data only for the States and Puerto Rico. It did not include data for the other U.S. territories served by WIC.

Sources: IPUMS-USA, n.d.-b; U.S. Census Bureau, n.d.-a, n.d.-b; FNS, 2023

Table D.2. WIC Eligibility, Participants, and Coverage Rates by FNS Region and States in Each Region: CY 2021

FNS Region and State	Number Eligible	Number Participating	Coverage Rate
Northeast	1,089,254	586,698	53.9*
Connecticut	96,056	44,295	46.1*
Maine	30,828	16,852	54.7
Massachusetts	181,992	111,303	61.2*
New Hampshire	26,154	14,025	53.6
New York	701,750	369,708	52.7
Rhode Island	30,176	16,408	54.4
Vermont	15,772	11,292	71.6*
Mid-Atlantic	1,374,319	706,288	51.4
Delaware	36,423	17,331	47.6
District of Columbia	23,076	13,715	59.4*
Maryland	213,702	118,404	55.4*
New Jersey	281,823	142,360	50.5
Pennsylvania	397,747	163,013	41.0*
Puerto Rico	111,437	98,563	88.4*
Virginia	246,807	120,503	48.8
West Virginia	63,305	32,399	51.2
Southeast	2,733,798	1,330,121	48.7*
Alabama	220,194	109,747	49.8
Florida	814,565	400,284	49.1*
Georgia	471,020	190,336	40.4*
Kentucky	180,011	106,572	59.2*
Mississippi	150,349	70,109	46.6*
North Carolina	412,059	254,104	61.7*
South Carolina	212,200	86,863	40.9*
Tennessee	273,400	112,106	41.0*
Midwest	1,853,865	908,768	49.0*
Illinois	419,107	151,949	36.3*
Indiana	252,238	153,439	60.8*
Iowa	104,993	57,705	55.0*
Michigan	345,945	203,233	58.7*
Minnesota	158,386	97,361	61.5*
Ohio	411,728	160,311	38.9*
Wisconsin	161,468	84,769	52.5

FNS Region and State	Number Eligible	Number Participating	Coverage Rate
Southwest	2,375,024	1,108,609	46.7*
Arizona	271,936	140,509	51.7
Arkansas	144,987	50,720	35.0*
Louisiana	234,766	87,343	37.2*
New Mexico	100,479	34,771	34.6*
Oklahoma	171,640	88,790	51.7
Texas	1,351,113	669,830	49.6*
Utah	100,103	36,646	36.6*
Mountain Plains	639,146	289,067	45.2*
Colorado	170,527	78,046	45.8*
Kansas	96,619	44,120	45.7*
Missouri	215,077	84,912	39.5*
Montana	32,286	13,994	43.3*
Nebraska	60,106	35,010	58.2*
North Dakota	19,350	10,291	53.2
South Dakota	29,103	15,690	53.9
Wyoming	16,078	7,003	43.6*
Western	2,065,890	1,275,592	61.7*
Alaska	28,091	14,408	51.3
California	1,417,356	942,175	66.5*
Hawaii	44,967	25,374	56.4
Idaho	66,665	29,463	44.2*
Nevada	116,730	56,066	48.0
Oregon	122,707	74,870	61.0*
Washington	245,803	121,274	49.3
Total	12,131,296	6,205,143	51.2

Note: State and regional eligibility estimates and participant data include individuals in Indian Tribal Organizations who were eligible for WIC and/or receiving WIC. Estimates for the U.S. territories other than Puerto Rico are included in regional totals but not shown separately because of small sample sizes. Estimates for Puerto Rico are shown separately and included in the Mid-Atlantic Region totals.

CPS ASEC = Current Population Survey Annual Social and Economic Supplement; CY = calendar year; FNS = Food and Nutrition Service

* indicates a statistically significant difference between the State or regional coverage rate and the national coverage rate at the 95 percent confidence level. The statistical significance testing was conducted based on the CPS ASEC and the Puerto Rico Community Survey data, which included data only for the States and Puerto Rico. It did not include data for the other U.S. territories served by WIC.

Sources: IPUMS-USA, n.d.-b; U.S. Census Bureau, n.d.-a, n.d.-b; FNS, 2023

Table D.3. WIC Eligibility, Participants, and Coverage Rates by FNS Region and Participant Category: CY 2021

FNS Region		Infants	Children	Pregnant Women	Postpartum Women	Total
Number eligible	Northeast	162,956	707,007	99,926	119,365	1,089,254
	Mid-Atlantic	204,462	896,476	125,962	147,419	1,374,319
	Southeast	433,693	1,740,291	262,626	297,188	2,733,798
	Midwest	274,912	1,216,543	172,370	190,040	1,853,865
	Southwest	367,909	1,532,537	220,278	254,300	2,375,024
	Mountain Plains	96,458	412,096	61,464	69,128	639,146
	Western	306,004	1,346,064	185,780	228,041	2,065,890
	Total	1,846,394	7,851,014	1,128,406	1,305,482	12,131,296
Number participating	Northeast	126,302	337,984	42,985	79,427	586,698
	Mid-Atlantic	159,157	394,658	54,887	97,586	706,288
	Southeast	331,156	703,815	111,706	183,444	1,330,121
	Midwest	225,211	490,943	72,567	120,047	908,768
	Southwest	285,257	539,086	92,507	191,760	1,108,609
	Mountain Plains	70,606	153,577	23,346	41,538	289,067
	Western	242,595	775,424	94,564	163,009	1,275,592
	Total	1,440,283	3,395,487	492,562	876,811	6,205,143
Coverage rate	Northeast	77.5	47.8*	43.0	66.5	53.9*
	Mid-Atlantic	77.8	44.0	43.6	66.2	51.4
	Southeast	76.4	40.4*	42.5	61.7*	48.7*
	Midwest	81.9	40.4*	42.1*	63.2	49.0*
	Southwest	77.5	35.2*	42.0*	75.4*	46.7*
	Mountain Plains	73.2	37.3*	38.0*	60.1*	45.2*
	Western	79.3	57.6*	50.9*	71.5	61.7*
	Total	78.0	43.2	43.7	67.2	51.2

Note: Regional eligibility estimates and participant data include individuals in ITOs who were eligible for WIC or receiving WIC.

CY = calendar year; FNS = Food and Nutrition Service; ITO = Indian Tribal Organization

* indicates a statistically significant difference between the regional coverage rate and the national coverage rate at the 95 percent confidence level

Sources: IPUMS-USA, n.d.-b; U.S. Census Bureau, n.d.-a, n.d.-b; FNS, 2023

Table D.4. Standard Errors and Coefficients of Variation for Estimated Number of Individuals Eligible for WIC by State and FNS Region: CY 2021

State/FNS Region		Number Eligible	Standard Error	Coefficient of Variation (Percent)
State	Alabama	220,194	6,131	2.8
	Alaska	28,091	3,015	10.7
	Arizona	271,936	8,057	3.0
	Arkansas	144,987	4,566	3.1
	California	1,417,356	33,223	2.3
	Colorado	170,527	4,544	2.7
	Connecticut	96,056	3,319	3.5
	Delaware	36,423	1,935	5.3
	District of Columbia	23,076	1,556	6.7
	Florida	814,565	15,580	1.9
	Georgia	471,020	10,914	2.3
	Hawaii	44,967	5,505	12.2
	Idaho	66,665	2,908	4.4
	Illinois	419,107	9,752	2.3
	Indiana	252,238	6,994	2.8
	Iowa	104,993	3,890	3.7
	Kansas	96,619	4,024	4.2
	Kentucky	180,011	4,641	2.6
	Louisiana	234,766	5,960	2.5
	Maine	30,828	1,681	5.5
	Maryland	213,702	5,933	2.8
	Massachusetts	181,992	5,171	2.8
	Michigan	345,945	9,550	2.8
	Minnesota	158,386	7,606	4.8
	Mississippi	150,349	4,466	3.0
	Missouri	215,077	5,900	2.7
	Montana	32,286	2,166	6.7
	Nebraska	60,106	3,124	5.2
	Nevada	116,730	4,559	3.9
	New Hampshire	26,154	1,943	7.4
	New Jersey	281,823	6,887	2.4
	New Mexico	100,479	3,570	3.6
	New York	701,750	18,266	2.6
	North Carolina	412,059	10,459	2.5
	North Dakota	19,350	1,970	10.2
	Ohio	411,728	10,396	2.5
	Oklahoma	171,640	7,152	4.2
	Oregon	122,707	4,783	3.9
	Pennsylvania	397,747	9,231	2.3
	Puerto Rico	111,437	2,719	2.4
	Rhode Island	30,176	1,638	5.4

State/FNS Region		Number Eligible	Standard Error	Coefficient of Variation (Percent)
State (continued)	South Carolina	212,200	5,867	2.8
	South Dakota	29,103	2,419	8.3
	Tennessee	273,400	6,969	2.5
	Texas	1,351,113	21,739	1.6
	Utah	100,103	3,521	3.5
	Vermont	15,772	1,073	6.8
	Virginia	246,807	8,465	3.4
	Washington	245,803	8,713	3.5
	West Virginia	63,305	2,668	4.2
	Wisconsin	161,468	5,041	3.1
	Wyoming	16,078	1,114	6.9
FNS Region	Northeast	1,082,728	26,046	2.4
	Mid-Atlantic	1,374,319	27,476	2.0
	Southeast	2,733,798	48,908	1.8
	Midwest	1,853,865	40,421	2.2
	Southwest	2,375,024	42,570	1.8
	Mountain Plains	639,146	16,231	2.5
	Western	2,042,318	54,569	2.7
	Total	12,101,199	151,958	1.3

Note: The coefficient of variation is defined as the ratio of the standard error to the eligibility estimate. State and regional eligibility estimates include individuals in ITOs who were eligible for WIC. Estimates for U.S. territories other than Puerto Rico are not included in regional totals or standard errors.

CY = calendar year; FNS = Food and Nutrition Service; ITO = Indian Tribal Organization

Sources: IPUMS-USA, n.d.-b; U.S. Census Bureau, n.d.-a

Table D.5. WIC Eligibility Standard Errors by FNS Region and States in Each Region: CY 2021

FNS Region and State	Number Eligible	Standard Error	Coefficient of Variation (Percent)
Northeast	1,082,728	26,046	2.4
Connecticut	96,056	3,319	3.5
Maine	30,828	1,681	5.5
Massachusetts	181,992	5,171	2.8
New Hampshire	26,154	1,943	7.4
New York	701,750	18,266	2.6
Rhode Island	30,176	1,638	5.4
Vermont	15,772	1,073	6.8
Mid-Atlantic	1,374,319	27,476	2.0
Delaware	36,423	1,935	5.3
District of Columbia	23,076	1,556	6.7
Maryland	213,702	5,933	2.8
New Jersey	281,823	6,887	2.4
Pennsylvania	397,747	9,231	2.3
Puerto Rico	111,437	2,719	2.4
Virginia	246,807	8,465	3.4
West Virginia	63,305	2,668	4.2
Southeast	2,733,798	48,908	1.8
Alabama	220,194	6,131	2.8
Florida	814,565	15,580	1.9
Georgia	471,020	10,914	2.3
Kentucky	180,011	4,641	2.6
Mississippi	150,349	4,466	3.0
North Carolina	412,059	10,459	2.5
South Carolina	212,200	5,867	2.8
Tennessee	273,400	6,969	2.5
Midwest	1,853,865	40,421	2.2
Illinois	419,107	9,752	2.3
Indiana	252,238	6,994	2.8
Iowa	104,993	3,890	3.7
Michigan	345,945	9,550	2.8
Minnesota	158,386	7,606	4.8
Ohio	411,728	10,396	2.5
Wisconsin	161,468	5,041	3.1

FNS Region and State	Number Eligible	Standard Error	Coefficient of Variation (Percent)
Southwest	2,375,024	42,570	1.8
Arizona	271,936	8,057	3.0
Arkansas	144,987	4,566	3.1
Louisiana	234,766	5,960	2.5
New Mexico	100,479	3,570	3.6
Oklahoma	171,640	7,152	4.2
Texas	1,351,113	21,739	1.6
Utah	100,103	3,521	3.5
Mountain Plains	639,146	16,231	2.5
Colorado	170,527	4,544	2.7
Kansas	96,619	4,024	4.2
Missouri	215,077	5,900	2.7
Montana	32,286	2,166	6.7
Nebraska	60,106	3,124	5.2
North Dakota	19,350	1,970	10.2
South Dakota	29,103	2,419	8.3
Wyoming	16,078	1,114	6.9
Western	2,042,318	54,569	2.7
Alaska	28,091	3,015	10.7
California	1,417,356	33,223	2.3
Hawaii	44,967	5,505	12.2
Idaho	66,665	2,908	4.4
Nevada	116,730	4,559	3.9
Oregon	122,707	4,783	3.9
Washington	245,803	8,713	3.5
Total	12,101,199	151,958	1.3

Note: State and regional eligibility estimates include individuals in Indian Tribal Organizations who were eligible for WIC. Estimates for U.S. territories other than Puerto Rico are not included in regional totals or standard errors. The coefficient of variation is defined as the ratio of the standard error to the eligibility estimate.

CY = calendar year; FNS = Food and Nutrition Service

Sources: IPUMS-USA, n.d.-b; U.S. Census Bureau, n.d.-a

Table D.6. Standard Errors and Coefficients of Variation for Estimated Number of Individuals Eligible for WIC by FNS Region and Participant Category: CY 2021

FNS Region		Infants	Children	Pregnant Women	Postpartum Women	Total
Number eligible	Northeast	161,934	702,888	99,232	118,674	1,082,728
	Mid-Atlantic	204,462	896,476	125,962	147,419	1,374,319
	Southeast	433,693	1,740,291	262,626	297,188	2,733,798
	Midwest	274,912	1,216,543	172,370	190,040	1,853,865
	Southwest	367,909	1,532,537	220,278	254,300	2,375,024
	Mountain Plains	96,458	412,096	61,464	69,128	639,146
	Western	302,193	1,331,467	183,192	225,467	2,042,318
	Total	1,841,560	7,832,299	1,125,124	1,302,217	12,101,199
Standard error	Northeast	7,058	24,251	2,293	5,128	26,046
	Mid-Atlantic	8,851	23,707	2,883	6,342	27,476
	Southeast	17,249	41,853	4,097	11,744	48,908
	Midwest	11,103	36,396	2,959	7,620	40,421
	Southwest	14,802	36,499	3,688	10,175	42,570
	Mountain Plains	4,803	13,722	2,008	3,425	16,231
	Western	12,195	48,889	3,159	9,022	54,569
	Total	69,074	111,073	9,816	48,477	151,958
Coefficient of variation (percent)	Northeast	4.4	3.5	2.3	4.3	2.4
	Mid-Atlantic	4.3	2.6	2.3	4.3	2.0
	Southeast	4.0	2.4	1.6	4.0	1.8
	Midwest	4.0	3.0	1.7	4.0	2.2
	Southwest	4.0	2.4	1.7	4.0	1.8
	Mountain Plains	5.0	3.3	3.3	5.0	2.5
	Western	4.0	3.7	1.7	4.0	2.7
	Total	3.8	1.4	0.9	3.7	1.3

Note: The coefficient of variation is defined as the ratio of the standard error to the eligibility estimate. Estimates for U.S. territories other than Puerto Rico are not included in regional totals or standard errors.

CY = calendar year; FNS = Food and Nutrition Service

Sources: IPUMS-USA, n.d.-b; U.S. Census Bureau, n.d.-a

Table D.7a. Adjustments for Calculating the Average Monthly Number of Individuals Eligible for WIC in Puerto Rico by Participant Category: CY 2021

Step for Puerto Rico	Infants	1-Year-Old Children	2-Year-Old Children	3-Year-Old Children	4-Year-Old Children	All Children	Pregnant Women	Postpartum Breastfeeding Women	Postpartum Non-Breastfeeding Women	Total
Total number of infants/children in PRCS	15,369	17,745	21,606	24,596	24,531	88,478	–	–	–	103,847
Number after adjustment for PRCS undercount/ overcount	18,389	20,062	21,259	21,576	23,419	86,315	–	–	–	104,704
Number with annual income <= 185 percent of FPG	15,193	15,518	16,484	16,937	17,722	66,661	–	–	–	81,853
Number adjunctively income-eligible and with annual income > 185 percent of FPG ^a	1,140	1,335	1,613	1,120	1,643	5,710	–	–	–	6,850
Through NAP	935	768	1,155	1,022	1,073	4,019	–	–	–	4,954
Through TANF	0	87	0	0	0	87	–	–	–	87
Through Medicaid	204	479	458	98	570	1,604	–	–	–	1,809
Total number income and adjunctively income-eligible	16,332	16,852	18,096	18,057	19,365	72,370	–	–	–	88,703
Number after adjustment for monthly income and certification periods	16,545	16,852	18,096	18,057	19,365	72,370	–	–	–	88,915
Total number eligible: Number after adjustment for nutritional risk (infants and children)	16,545	16,852	18,096	18,057	19,365	72,370	–	–	–	88,915
Starting point for estimates of pregnant and postpartum women	–	–	–	–	–	–	16,545	16,545	16,545	49,634
Number after adjustment for length of pregnancy and income of woman during pregnancy	–	–	–	–	–	–	11,292	–	–	11,292
Number after adjustment for multiple births and infant deaths	–	–	–	–	–	–	11,292	16,545	16,545	44,381

Step for Puerto Rico	Infants	1-Year-Old Children	2-Year-Old Children	3-Year-Old Children	4-Year-Old Children	All Children	Pregnant Women	Postpartum Breastfeeding Women	Postpartum Non-Breastfeeding Women	Total
Number after adjustment for breastfeeding	–	–	–	–	–	–	–	7,329	3,901	11,230
Total number eligible: Number after adjustment for nutritional risk (pregnant and postpartum women)	–	–	–	–	–	–	11,292	7,329	3,901	22,522
Total number eligible in Puerto Rico	16,545	16,852	18,096	18,057	19,365	72,370	11,292	7,329	3,901	111,437

Note: CY = calendar year; FPG = Federal Poverty Guidelines; PRCS = Puerto Rico Community Survey; NAP = Nutrition Assistance Program; TANF = Temporary Assistance for Needy Families

^a Adjunctive income eligibility was counted by the first program that qualified the person for WIC, in this order: SNAP, TANF, Medicaid.

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Source: IPUMS-USA, n.d.-b

Table D.7b. Adjustments for Calculating the Average Monthly Number of Individuals Eligible for WIC in the U.S. Territories Other Than Puerto Rico by Participant Category: CY 2021

Step for Other U.S. Territories	Infants	1-Year-Old Children	2-Year-Old Children	3-Year-Old Children	4-Year-Old Children	All Children	Pregnant Women	Postpartum Breastfeeding Women	Postpartum Non-Breastfeeding Women	Total
Total number of infants/children in the other U.S. territories	5,943	5,937	5,966	6,002	6,034	23,939	–	–	–	29,882
Number after other territories' full-eligibility factor	4,772	4,642	4,664	4,692	4,717	18,716	–	–	–	23,488
Number after monthly income adjustment	4,834	4,642	4,664	4,692	4,717	18,716	–	–	–	23,550
Total number eligible: Number after adjustment for nutritional risk (infants and children)	4,834	4,642	4,664	4,692	4,717	18,716	–	–	–	23,550
Starting point for estimates of pregnant and postpartum women	–	–	–	–	–	–	4,834	4,834	4,834	14,502
Number after adjustment for length of pregnancy and income of woman during pregnancy	–	–	–	–	–	–	3,299	–	–	3,299
Number after adjustment for multiple births and infant deaths	–	–	–	–	–	–	3,283	4,810	4,810	12,902
Number after adjustment for breastfeeding	–	–	–	–	–	–	–	2,131	1,134	3,265
Total number eligible: Number after adjustment for nutritional risk (pregnant and postpartum women)	–	–	–	–	–	–	3,283	2,131	1,134	6,548
Total number eligible in U.S. territories other than Puerto Rico	4,834	4,642	4,664	4,692	4,717	18,716	3,283	2,131	1,134	30,097
Total eligibility for Puerto Rico and other U.S. territories	21,379	21,494	22,761	22,749	24,082	91,086	14,574	9,460	5,035	141,535

CY = calendar year

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Source: U.S. Census Bureau, n.d.-b

Table D.8. Regional Estimates of the Average Monthly Numbers of Infants and Children Eligible for WIC by Demographic and Income Characteristics (Fully Adjusted Weights, Percentages): CY 2021

Characteristics		Northeast			Mid-Atlantic			Southeast			Midwest		
		WIC-Eligible Infants	WIC-Eligible Children	WIC-Eligible Infants and Children	WIC-Eligible Infants	WIC-Eligible Children	WIC-Eligible Infants and Children	WIC-Eligible Infants	WIC-Eligible Children	WIC-Eligible Infants and Children	WIC-Eligible Infants	WIC-Eligible Children	WIC-Eligible Infants and Children
Total		196,485	848,406	1,044,891	190,169	816,311	1,006,480	429,281	1,675,504	2,104,785	263,619	1,175,671	1,439,290
Sex	Male	50.3	53.5	52.9	38.2	46.5	44.9	44.5	47.1	46.6	45.2	54.1	52.5
	Female	49.7	46.5	47.1	61.8	53.5	55.1	55.5	52.9	53.4	54.8	45.9	47.5
Race	White	62.6	58.7	59.4	57.3	56.9	56.9	58.4	56.0	56.5	54.3	59.0	58.2
	Black	26.0	24.4	24.7	35.9	32.2	32.9	30.6	35.2	34.3	34.3	29.2	30.2
	Other race	11.5	16.9	15.9	6.9	10.9	10.2	11.0	8.7	9.2	11.4	11.7	11.6
Hispanic ethnicity	Hispanic/Latino	29.8	33.2	32.6	24.9	25.0	25.0	21.3	28.3	26.9	15.8	19.9	19.1
	Not Hispanic/Latino	70.2	66.8	67.4	75.1	75.0	75.0	78.7	71.7	73.1	84.2	80.1	80.9
Living arrangement	Two-parent family	69.3	65.8	66.5	63.5	61.0	61.5	60.2	54.9	56.0	59.2	55.1	55.9
	Single parent family	28.2	31.5	30.9	32.1	33.7	33.4	33.0	41.2	39.5	36.3	39.0	38.5
	No parent family	2.6	2.6	2.6	4.4	5.3	5.1	6.8	3.9	4.5	4.5	5.9	5.6
	Related nonparent caretaker	0.0	1.7	1.4	4.0	3.2	3.4	2.1	2.8	2.6	4.5	3.5	3.7
	Unrelated nonparent caretaker	2.6	0.9	1.2	0.4	2.0	1.7	4.7	1.2	1.9	0.0	2.4	2.0
Military status of household members	Ever served in U.S. military	4.8	4.2	4.3	1.2	4.7	4.0	5.3	7.1	6.7	5.3	3.8	4.1
	Serving in U.S. military in 2021 ^a	0.0	0.6	0.5	0.0	2.1	1.7	5.5	2.6	3.2	1.5	0.4	0.6
Number of individuals in household	2	3.8	4.3	4.2	3.9	5.7	5.4	6.2	4.8	5.1	5.4	3.9	4.1
	3	28.7	20.1	21.7	25.1	15.2	17.0	25.6	18.6	20.0	13.3	18.2	17.3
	4	20.1	29.1	27.4	28.4	26.9	27.2	25.1	27.5	27.0	32.5	28.2	28.9
	5	26.2	22.3	23.1	20.2	23.2	22.6	20.5	19.9	20.1	19.8	26.2	25.1
	6 or more	21.3	24.2	23.6	22.4	29.1	27.8	22.5	29.2	27.8	29.0	23.6	24.6
Percent with working parent(s)		61.2	61.2	82.0	78.1	75.7	77.2	76.9	60.9	74.5	71.7	64.6	77.9

Characteristics		Northeast			Mid-Atlantic			Southeast			Midwest		
		WIC-Eligible Infants	WIC-Eligible Children	WIC-Eligible Infants and Children	WIC-Eligible Infants	WIC-Eligible Children	WIC-Eligible Infants and Children	WIC-Eligible Infants	WIC-Eligible Children	WIC-Eligible Infants and Children	WIC-Eligible Infants	WIC-Eligible Children	WIC-Eligible Infants and Children
Annual family income relative to FPG	No income	3.5	5.4	5.0	1.6	4.1	3.6	7.9	5.1	5.7	5.8	3.9	4.2
	Up to 50 percent of FPG	11.6	10.3	10.5	6.6	5.7	5.9	13.7	8.6	9.6	7.3	8.4	8.2
	More than 50 percent up to 100 percent of FPG	13.3	7.3	8.4	18.9	13.7	14.7	14.1	15.9	15.5	11.8	13.2	12.9
	More than 100 percent up to 130 percent of FPG	3.8	7.0	6.4	10.2	12.0	11.7	11.5	12.6	12.4	15.4	12.5	13.0
	More than 130 percent up to 150 percent of FPG	1.7	6.0	5.2	6.3	7.8	7.5	7.5	8.5	8.3	2.2	5.8	5.2
	More than 150 percent up to 185 percent of FPG	9.5	10.2	10.0	17.8	14.4	15.0	13.2	16.1	15.5	14.1	14.6	14.5
	More than 185 percent up to 200 percent of FPG	6.3	5.1	5.3	9.4	6.1	6.7	4.9	4.0	4.2	7.5	5.4	5.8
	More than 200 percent of FPG	50.3	48.9	49.1	29.3	36.4	35.0	27.2	29.2	28.8	36.0	36.1	36.0
Receipt of other benefits	No benefit receipt	1.5	3.4	3.0	10.5	11.5	11.3	19.5	12.8	14.2	14.6	7.7	9.0
	Medicaid, SNAP and TANF	6.4	4.6	5.0	5.6	5.8	5.8	0.0	2.4	1.9	6.6	3.6	4.1
	SNAP and TANF only	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Medicaid and SNAP only	27.5	39.9	37.6	37.6	39.7	39.3	30.5	41.8	39.5	29.5	44.8	42.0
	Medicaid and TANF only	0.0	0.2	0.2	0.0	0.7	0.6	1.7	0.9	1.1	0.0	0.5	0.4
	SNAP only	12.7	4.3	5.9	5.2	7.5	7.1	16.9	10.3	11.7	13.2	6.5	7.7
	TANF only	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.1	0.0	0.0	0.0
	Medicaid only	51.9	47.5	48.4	41.2	34.7	35.9	30.8	31.8	31.6	36.1	37.0	36.9

Note: These estimates were tabulated from the fully adjusted person weights for the CPS ASEC data. They were adjusted to account for the undercount/overcount of infants and children in the CPS relative to Vital Statistics estimates, monthly income, or nutritional risk. This table does not include estimates for the U.S. territories.

CPS = Current Population Survey; CPS ASEC = CPS Annual Social and Economic Supplement; CY = calendar year; FPG = Federal Poverty Guidelines; SNAP = Supplemental Nutrition Assistance Program; TANF = Temporary Assistance for Needy Families

^a The military status of household members who were currently serving in the U.S. military was included on the CPS ASEC only if they resided in civilian housing on or off a military base.

Sources: IPUMS-USA, n.d.-b; U.S. Census Bureau, n.d.-a

Table D.8 (continued). Regional Estimates of the Average Monthly Numbers of Infants and Children Eligible for WIC by Demographic and Income Characteristics (Fully Adjusted Weights, Percentages): CY 2021

Characteristics		Southwest			Mountain Plains			Western			Total		
		WIC-Eligible Infants	WIC-Eligible Children	WIC-Eligible Infants and Children	WIC-Eligible Infants	WIC-Eligible Children	WIC-Eligible Infants and Children	WIC-Eligible Infants	WIC-Eligible Children	WIC-Eligible Infants and Children	WIC-Eligible Infants	WIC-Eligible Children	WIC-Eligible Infants and Children
Total		318,894	1,259,797	1,578,691	101,520	553,344	654,864	325,048	1,430,894	1,755,942	1,825,015	7,759,928	9,584,943
Sex	Male	54.3	51.2	51.8	58.4	48.1	49.7	53.9	50.7	51.3	48.7	50.2	49.9
	Female	45.7	48.8	48.2	41.6	51.9	50.3	46.1	49.3	48.7	51.3	49.8	50.1
Race	White	70.6	65.1	66.2	80.7	68.7	70.6	76.5	76.1	76.2	64.7	63.0	63.3
	Black	21.2	23.0	22.6	7.9	15.5	14.3	8.6	6.2	6.6	24.4	24.1	24.1
	Other race	8.3	11.9	11.2	11.4	15.8	15.1	14.9	17.7	17.2	10.9	13.0	12.6
Hispanic ethnicity	Hispanic/Latino	49.0	47.5	47.8	25.7	23.6	24.0	69.1	61.5	62.9	35.4	36.1	36.0
	Not Hispanic/Latino	51.0	52.5	52.2	74.3	76.4	76.0	30.9	38.5	37.1	64.6	63.9	64.0
Living arrangement	Two-parent family	58.5	57.1	57.4	83.6	63.6	66.7	64.2	66.5	66.1	63.1	59.9	60.5
	Single-parent family	36.4	38.2	37.8	14.3	31.1	28.5	30.3	29.5	29.7	31.9	35.6	34.9
	No-parent family	5.1	4.8	4.8	2.1	5.4	4.9	5.5	4.0	4.2	4.9	4.5	4.6
	Related nonparent caretaker	4.5	3.4	3.6	0.9	3.9	3.4	1.6	2.4	2.3	2.7	2.9	2.9
	Unrelated nonparent caretaker	0.6	1.3	1.2	1.1	1.5	1.4	3.9	1.6	2.0	2.3	1.5	1.7
Military status of household members	Ever served in U.S. military	4.0	7.1	6.5	4.3	7.3	6.8	1.1	5.0	4.3	3.8	5.6	5.3
	Serving in U.S. military in 2021 ^a	3.5	1.6	2.0	4.0	2.1	2.4	1.8	1.1	1.2	2.7	1.5	1.7
Number of people in household	2	3.9	4.9	4.7	0.8	5.2	4.6	1.3	3.0	2.7	4.0	4.4	4.3
	3	21.3	16.9	17.8	25.6	20.0	20.8	16.7	16.3	16.4	21.8	17.7	18.5
	4	23.3	28.7	27.6	30.5	27.2	27.7	16.1	21.2	20.3	24.4	26.7	26.3
	5	23.2	17.4	18.6	20.1	21.2	21.0	28.0	23.4	24.2	22.8	21.8	22.0
	6 or more	28.3	32.1	31.3	23.1	26.3	25.8	37.9	36.1	36.4	27.1	29.3	28.9
Percent with working parent(s)		73.0	73.0	75.5	75.0	79.4	83.5	82.9	66.4	78.0	75.9	67.1	77.6

Characteristics		Southwest			Mountain Plains			Western			Total		
		WIC-Eligible Infants	WIC-Eligible Children	WIC-Eligible Infants and Children	WIC-Eligible Infants	WIC-Eligible Children	WIC-Eligible Infants and Children	WIC-Eligible Infants	WIC-Eligible Children	WIC-Eligible Infants and Children	WIC-Eligible Infants	WIC-Eligible Children	WIC-Eligible Infants and Children
Annual family income relative to FPG	No income	5.1	6.8	6.5	5.1	2.8	3.1	5.9	2.9	3.5	5.5	4.5	4.7
	Up to 50 percent of FPG	11.0	12.3	12.1	5.5	13.6	12.3	6.7	5.8	6.0	9.6	8.9	9.0
	More than 50 percent up to 100 percent of FPG	17.1	17.6	17.5	11.2	16.8	15.9	13.9	13.2	13.3	14.5	14.2	14.2
	More than 100 percent up to 130 percent of FPG	12.2	11.7	11.8	13.5	10.3	10.8	10.8	11.0	11.0	11.2	11.3	11.3
	More than 130 percent up to 150 percent of FPG	10.0	6.2	7.0	9.3	10.0	9.9	4.8	5.5	5.4	6.0	6.9	6.8
	More than 150 percent up to 185 percent of FPG	14.1	13.3	13.4	16.4	12.7	13.3	11.9	12.9	12.7	13.5	13.8	13.7
	More than 185 percent up to 200 percent of FPG	2.0	3.6	3.2	1.6	4.2	3.8	4.2	4.7	4.6	5.1	4.6	4.7
	More than 200 percent of FPG	28.5	28.5	28.5	37.3	29.7	30.9	41.8	44.0	43.6	34.6	35.8	35.6
Receipt of other benefits	No benefit receipt	16.9	12.3	13.3	23.1	17.8	18.7	6.9	8.7	8.4	13.4	10.4	11.0
	Medicaid, SNAP and TANF	3.0	1.8	2.1	0.0	2.4	2.1	1.7	4.8	4.2	3.1	3.5	3.4
	SNAP and TANF only	0.0	0.0	0.0	1.1	0.0	0.2	1.1	0.1	0.3	0.3	0.0	0.1
	Medicaid and SNAP only	30.7	41.8	39.5	12.9	30.0	27.4	25.5	27.8	27.3	28.9	38.4	36.6
	Medicaid and TANF only	0.0	0.8	0.7	0.0	0.3	0.2	0.0	0.9	0.7	0.4	0.7	0.6
	SNAP only	13.1	8.0	9.0	15.2	4.8	6.5	10.0	7.9	8.3	12.7	7.6	8.5
	TANF only	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
	Medicaid only	36.4	35.2	35.5	47.7	44.6	45.1	54.8	49.8	50.8	41.1	39.4	39.7

Note: These estimates were tabulated from the fully adjusted person weights for the CPS ASEC data. They were adjusted to account for the undercount/overcount of infants and children in the CPS relative to Vital Statistics estimates, monthly income, or nutritional risk. This table does not include estimates for the U.S. territories.

CPS = Current Population Survey; CPS ASEC = CPS Annual Social and Economic Supplement; CY = calendar year; FPG = Federal Poverty Guidelines; SNAP = Supplemental Nutrition Assistance Program; TANF = Temporary Assistance for Needy Families

^a The military status of household members who were currently serving in the U.S. military was included on the CPS ASEC only if they resided in civilian housing on or off a military base.

Sources: IPUMS-USA, n.d.-b; U.S. Census Bureau, n.d.-a

Table D.9a. WIC Coverage Rates for Total Eligible Individuals by State: CY 2016–CY 2021

State	2016		2017		2018		2019		2020		2021	
	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)
Total	54.2	1.0	52.3	1.1	53.2	1.1	52.3	1.0	52.0	1.0	51.2	1.3
Alabama	56.1	2.0	53.7	2.1	54.9	2.3	55.8	2.6	56.2	2.0	49.8	2.8
Alaska	45.9	6.6	40.4	6.4	49.3	6.3	47.0	6.2	49.8	5.1	51.3	10.7
Arizona	52.1	2.0	48.4	1.9	49.7	2.0	51.0	2.1	53.7	1.9	51.7	3.0
Arkansas	48.5	2.4	48.3	2.7	48.2	2.4	42.8	2.5	36.2	2.2	35.0	3.1
California	64.3	1.2	60.2	1.3	62.6	1.4	62.2	1.3	64.5	1.1	66.5	2.3
Colorado	43.7	2.6	44.0	2.5	48.1	2.7	49.9	2.6	46.8	2.0	45.8	2.7
Connecticut	48.0	3.0	47.5	3.6	48.2	3.3	47.3	3.2	45.8	2.5	46.1	3.5
Delaware	48.9	5.0	45.5	6.2	45.5	5.6	45.8	5.7	43.4	3.6	47.6	5.3
District of Columbia	50.8	4.6	43.9	5.1	41.3	6.0	50.2	5.6	61.6	6.4	59.4	6.7
Florida	53.4	1.5	52.2	1.4	53.5	1.5	53.6	1.5	52.5	1.4	49.1	1.9
Georgia	49.4	1.6	47.0	1.8	46.6	1.9	47.3	1.7	42.1	1.5	40.4	2.3
Hawaii	55.8	4.3	46.1	3.9	53.2	4.4	54.0	4.7	54.8	3.8	56.4	12.2
Idaho	45.4	3.9	43.5	3.4	46.1	4.0	41.4	4.4	44.4	3.9	44.2	4.4
Illinois	43.2	1.5	42.7	1.7	43.9	1.8	43.3	1.8	38.6	1.5	36.3	2.3
Indiana	53.1	2.2	52.8	2.0	55.5	2.4	56.1	2.4	61.2	1.9	60.8	2.8
Iowa	46.8	3.4	50.7	3.3	56.0	3.4	53.8	3.7	54.5	2.6	55.0	3.7
Kansas	53.1	3.1	49.0	3.4	47.5	3.1	48.8	3.4	48.3	2.5	45.7	4.2
Kentucky	55.0	2.4	52.1	2.4	51.9	2.4	49.1	2.3	56.5	2.0	59.2	2.6
Louisiana	50.2	2.0	47.2	2.0	44.6	2.3	42.8	2.2	40.1	2.1	37.2	2.5
Maine	52.9	7.1	49.6	5.9	54.6	5.5	49.5	5.9	47.5	4.9	54.7	5.5
Maryland	64.8	2.5	64.8	2.7	63.5	2.6	60.2	2.7	61.3	2.2	55.4	2.8
Massachusetts	54.6	2.3	53.5	2.4	56.3	2.7	55.6	2.3	59.5	1.9	61.2	2.8
Michigan	56.1	1.8	54.9	1.9	58.3	1.9	60.3	2.1	62.6	1.8	58.7	2.8
Minnesota	59.2	2.7	58.5	2.8	60.3	2.9	59.3	3.4	62.4	2.5	61.5	4.8
Mississippi	49.2	2.2	53.6	2.1	57.1	2.4	54.5	2.7	52.8	2.1	46.6	3.0
Missouri	52.2	2.2	49.2	2.2	50.4	2.2	48.8	2.6	45.0	2.0	39.5	2.7
Montana	40.9	5.3	38.4	4.3	43.1	5.3	41.1	5.7	40.8	4.7	43.3	6.7
Nebraska	50.5	3.6	53.4	3.5	51.9	4.3	51.8	4.1	55.4	4.1	58.2	5.2
Nevada	55.8	3.3	52.6	3.0	51.0	3.2	53.8	3.2	49.9	2.4	48.0	3.9
New Hampshire	41.7	5.4	42.8	7.1	39.0	6.6	40.1	7.0	44.7	5.8	53.6	7.4
New Jersey	52.6	2.0	51.8	2.0	52.5	2.1	52.3	2.4	50.2	1.7	50.5	2.4
New Mexico	43.3	2.8	42.5	2.9	41.1	2.9	37.9	2.8	40.1	2.6	34.6	3.6
New York	54.7	1.5	53.3	1.5	54.7	1.6	52.0	1.7	51.9	1.4	52.7	2.6
North Carolina	52.7	1.6	52.0	1.7	52.5	1.8	51.9	1.8	59.3	1.6	61.7	2.5
North Dakota	51.8	7.4	59.2	8.5	57.5	7.4	49.3	8.2	49.4	7.2	53.2	10.2
Ohio	49.9	1.7	49.1	1.8	48.3	1.7	46.2	2.0	43.4	1.6	38.9	2.5
Oklahoma	53.1	2.4	51.2	2.4	53.9	2.5	52.7	2.6	52.0	2.0	51.7	4.2

State	2016		2017		2018		2019		2020		2021	
	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)
Oregon	53.2	2.5	54.1	2.7	58.7	2.7	58.6	2.7	57.2	2.1	61.0	3.9
Pennsylvania	51.8	1.8	50.7	1.9	51.9	2.1	49.4	2.0	45.8	1.5	41.0	2.3
Puerto Rico	84.5	2.3	83.4	1.8	85.8	2.1	85.1	1.8	90.4	3.0	88.4	2.4
Rhode Island	59.9	5.5	58.5	4.8	54.3	4.3	54.3	4.7	54.9	4.5	54.4	5.4
South Carolina	46.8	2.0	43.5	2.2	43.1	1.9	40.0	2.1	40.4	2.1	40.9	2.8
South Dakota	50.2	5.9	48.6	6.1	54.8	6.2	48.9	6.6	49.7	5.0	53.9	8.3
Tennessee	44.7	1.9	44.0	1.8	43.3	2.0	38.5	1.9	40.3	1.9	41.0	2.5
Texas	57.4	1.3	55.0	1.2	52.4	1.4	53.1	1.3	50.6	1.2	49.6	1.6
Utah	47.9	3.6	40.8	3.2	49.8	3.7	46.2	4.2	40.6	3.0	36.6	3.5
Vermont	57.5	7.4	52.7	7.7	66.4	7.1	69.7	7.7	60.9	4.9	71.6	6.8
Virginia	48.6	2.2	46.2	2.4	46.0	2.2	46.4	2.3	45.5	2.1	48.8	3.4
Washington	54.4	2.0	49.9	2.1	51.7	2.2	47.7	2.0	47.8	1.9	49.3	3.5
West Virginia	53.3	3.6	50.4	3.5	48.4	3.3	47.5	3.7	46.6	2.9	51.2	4.2
Wisconsin	49.3	2.5	48.6	2.7	53.0	2.5	52.3	3.0	52.4	2.2	52.5	3.1
Wyoming	50.5	9.0	50.3	7.9	49.2	6.9	50.8	7.8	46.2	6.2	43.6	6.9

Note: The 2016–2020 estimates presented in this report differ from previously published results because of updates to the underlying estimation methodology. See chapter 6 of volume I for more information.

COV = coefficient of variation; CY = calendar year

Sources: IPUMS-USA, n.d.-b; U.S. Census Bureau, n.d.-a, n.d.-b; FNS, 2023

Table D.9b. WIC Coverage Rates for Infants by State: CY 2016–CY 2021

State	2016		2017		2018		2019		2020		2021	
	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)
Total	85.7	3.0	82.7	3.0	84.4	2.9	83.7	2.8	82.6	2.8	78.1	3.8
Alabama	93.2	5.3	97.3	5.5	93.9	6.1	97.4	6.5	†	6.1	84.6	7.3
Alaska	66.7	12.8	57.0	12.8	75.9	13.4	77.7	15.1	82.3	12.5	78.7	14.3
Arizona	87.0	5.1	79.7	5.1	80.6	4.9	80.0	5.4	82.4	5.9	77.4	6.3
Arkansas	87.3	6.4	87.7	6.5	86.7	5.9	79.6	6.4	72.8	6.1	73.6	6.8
California	90.1	3.4	81.1	3.5	84.9	3.5	85.5	3.4	85.4	3.2	82.4	4.1
Colorado	69.5	6.5	66.4	5.5	74.3	6.2	74.9	6.3	69.7	5.7	68.1	6.8
Connecticut	83.8	8.4	89.8	9.5	83.3	7.7	82.6	8.1	82.0	7.4	80.2	8.0
Delaware	91.2	14.0	76.2	14.3	78.1	13.4	92.9	14.1	79.9	8.6	79.5	15.3
District of Columbia	†	15.5	95.3	15.8	82.5	18.3	†	18.6	†	17.5	90.3	19.5
Florida	83.9	4.0	82.7	3.8	84.3	3.7	84.7	3.8	85.2	3.9	75.4	4.6
Georgia	71.2	4.3	72.6	4.6	84.1	4.7	88.2	4.3	80.1	4.3	65.6	5.0
Hawaii	93.8	10.0	78.4	10.8	90.9	10.5	95.7	10.3	79.8	9.0	86.0	12.5
Idaho	66.2	9.6	62.6	8.1	67.7	8.8	63.8	9.9	67.3	9.5	73.3	10.8
Illinois	80.8	4.1	81.8	4.7	82.3	4.3	80.8	4.3	76.2	4.3	71.4	5.8
Indiana	88.4	5.4	87.2	5.5	86.1	6.0	86.0	5.7	89.7	4.8	87.7	6.0
Iowa	66.6	7.3	75.1	7.5	91.9	7.0	84.1	7.6	84.5	6.6	83.1	8.5
Kansas	84.7	7.3	77.4	7.3	72.1	7.2	77.0	8.3	78.8	6.7	76.3	8.1
Kentucky	93.7	6.8	86.9	6.4	88.0	6.4	86.5	5.7	91.6	5.4	96.3	6.0
Louisiana	96.5	5.9	92.5	5.5	83.5	5.9	83.1	5.6	84.8	5.3	73.6	6.5
Maine	76.9	14.3	74.6	14.6	77.0	12.6	73.0	12.0	64.8	11.7	96.3	12.1
Maryland	†	6.6	†	6.9	†	6.2	94.8	5.9	96.4	5.8	82.6	6.7
Massachusetts	79.8	5.9	75.1	5.8	79.3	6.6	77.6	6.0	78.9	5.1	74.9	6.6
Michigan	88.7	4.7	90.9	5.2	97.3	4.8	96.8	4.9	95.1	4.6	86.0	5.6
Minnesota	84.1	6.1	86.6	6.7	88.8	7.2	88.6	7.5	92.3	5.8	91.9	8.7
Mississippi	92.8	6.0	†	6.1	†	6.5	96.0	6.0	97.7	5.6	77.2	7.4
Missouri	91.3	4.9	85.6	5.1	86.0	5.3	82.9	5.5	79.1	5.1	72.1	6.6
Montana	70.7	14.1	66.0	11.3	76.2	12.1	68.4	12.6	68.7	12.9	67.5	14.4
Nebraska	73.8	8.2	84.0	9.5	76.9	8.2	70.0	9.9	76.4	9.7	86.0	12.1
Nevada	91.4	8.3	83.1	7.5	77.7	7.4	80.9	7.4	75.3	6.5	73.1	8.7
New Hampshire	66.3	12.7	60.7	15.3	49.0	13.8	51.2	14.4	53.6	10.9	79.3	16.5
New Jersey	74.6	4.9	75.3	5.1	79.7	5.2	78.1	6.0	71.0	4.8	72.0	6.6
New Mexico	72.6	8.4	66.4	7.6	64.3	7.9	59.3	8.6	65.0	7.6	56.2	9.1
New York	81.1	3.9	77.6	3.9	80.7	4.0	79.0	4.3	79.6	3.9	76.5	4.9
North Carolina	84.7	4.4	84.9	4.8	85.7	4.3	85.2	4.3	89.5	4.6	84.1	5.4
North Dakota	77.0	14.6	83.8	18.7	74.3	16.0	69.5	15.0	74.8	15.0	87.3	15.2
Ohio	†	4.7	†	4.3	97.4	4.3	96.4	4.5	99.0	4.5	80.9	5.7
Oklahoma	89.8	6.1	88.1	5.8	93.9	5.5	95.0	6.5	89.3	5.8	90.3	6.6

State	2016		2017		2018		2019		2020		2021	
	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)
Oregon	71.4	5.8	73.8	7.1	84.1	7.3	83.0	7.1	76.5	6.1	84.9	8.5
Pennsylvania	93.7	4.8	89.2	4.9	88.2	5.2	84.2	5.3	71.9	4.7	66.1	5.9
Rhode Island	95.3	11.8	99.4	12.8	77.6	11.7	76.5	13.0	87.6	10.1	88.0	14.0
South Carolina	91.5	5.5	88.1	6.1	84.0	5.4	77.2	5.6	75.8	5.7	66.6	6.7
South Dakota	72.5	13.4	68.9	14.6	77.8	14.4	68.4	13.1	73.2	11.7	77.5	13.2
Tennessee	83.0	5.0	83.3	5.0	83.8	4.8	76.3	4.8	77.0	5.1	73.9	6.2
Texas	88.9	3.5	83.7	3.5	83.1	3.4	85.8	3.4	82.7	3.4	80.6	4.2
Utah	67.0	7.7	56.1	7.5	76.9	8.5	64.2	8.4	59.8	6.9	53.0	7.9
Vermont	60.6	14.9	68.1	18.8	93.3	21.3	87.4	18.9	79.7	12.7	95.8	18.5
Virginia	85.7	5.6	81.7	6.1	79.7	5.7	80.0	5.7	77.9	5.6	79.5	6.4
Washington	74.1	5.2	65.0	5.1	66.7	5.2	63.2	5.6	62.6	5.1	64.9	6.3
West Virginia	89.1	9.9	82.0	7.7	81.7	7.6	84.1	9.6	74.8	8.0	85.0	10.3
Wisconsin	79.2	6.0	75.9	6.2	81.3	6.6	84.1	8.2	79.2	6.8	83.0	8.3
Wyoming	72.7	15.7	91.1	17.5	78.7	16.8	79.4	14.5	68.0	10.8	65.5	13.6

Note: The 2016–2020 estimates presented in this report differ from previously published results because of updates to the underlying estimation methodology. See chapter 6 of volume I for more information.

COV = coefficient of variation; CY = calendar year

Sources: IPUMS-USA, n.d.-b; U.S. Census Bureau, n.d.-a, n.d.-b; FNS, 2023

† indicates an unreliable coverage rate over 100 percent

Table D.9c. WIC Coverage Rates for Children by State: CY 2016–CY 2021

State	2016		2017		2018		2019		2020		2021	
	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)
Total	43.5	1.2	41.8	1.2	42.6	1.2	41.7	1.2	42.6	1.1	43.2	1.4
Alabama	43.0	2.3	39.2	2.1	41.8	2.1	41.9	2.5	42.6	2.2	39.9	3.0
Alaska	39.0	6.0	34.7	6.4	41.1	7.4	37.5	6.9	40.3	5.0	44.8	14.9
Arizona	41.0	2.2	38.4	2.1	40.0	2.1	42.2	2.0	46.5	1.8	46.0	3.7
Arkansas	34.2	2.5	34.0	2.6	34.1	2.8	29.8	2.8	23.9	2.3	22.6	3.7
California	55.3	1.4	52.8	1.4	55.3	1.5	54.8	1.4	58.6	1.2	62.8	3.2
Colorado	34.2	2.7	35.7	2.8	39.0	2.6	41.4	2.7	39.5	2.4	39.0	2.9
Connecticut	37.9	3.3	35.5	3.5	37.6	3.2	36.8	3.6	36.2	2.8	37.1	4.0
Delaware	36.4	5.2	35.5	6.0	35.0	5.4	32.9	5.4	33.3	3.9	39.5	4.8
District of Columbia	32.6	5.5	28.4	5.2	27.6	6.2	31.9	7.3	42.7	5.9	49.0	6.1
Florida	42.5	1.5	41.2	1.6	42.2	1.7	42.5	1.6	42.1	1.5	40.7	2.4
Georgia	40.4	1.9	37.0	2.0	33.6	2.1	33.4	1.9	30.4	1.7	32.7	2.8
Hawaii	43.6	5.0	35.7	4.0	42.3	4.7	41.8	5.4	47.4	4.5	49.4	16.6
Idaho	38.4	3.4	37.2	3.4	39.2	3.9	33.9	4.2	37.9	3.2	36.7	4.8
Illinois	31.5	1.8	30.6	1.8	32.0	1.9	31.5	1.9	27.6	1.5	26.4	2.6
Indiana	41.7	2.4	41.4	2.1	45.2	2.2	46.1	2.8	53.0	2.1	54.0	3.4
Iowa	40.4	3.4	42.4	3.6	44.8	3.8	44.1	3.6	45.7	2.6	47.3	3.8
Kansas	43.2	3.3	39.8	3.4	39.4	3.2	39.9	3.7	39.5	2.6	37.6	4.7
Kentucky	42.7	2.5	40.9	2.7	40.6	2.3	37.3	2.3	46.7	2.1	50.5	3.2
Louisiana	34.5	2.1	32.2	2.1	30.7	2.3	28.5	2.2	25.3	2.0	23.8	3.1
Maine	46.4	5.8	42.9	4.7	49.3	5.5	43.8	6.0	44.7	5.2	45.6	6.3
Maryland	52.2	2.9	50.2	2.7	50.2	2.8	48.5	2.5	50.5	2.1	46.7	3.3
Massachusetts	46.6	2.5	46.5	2.7	49.2	2.6	48.8	2.5	54.7	2.2	59.4	4.1
Michigan	46.9	1.9	44.9	2.1	47.5	2.2	49.9	2.3	55.0	1.8	52.8	3.5
Minnesota	51.4	3.0	50.1	3.2	52.3	3.2	51.1	3.4	54.8	2.8	54.2	5.7
Mississippi	35.2	2.3	37.7	2.3	42.7	2.3	41.2	2.5	39.9	2.4	38.3	2.8
Missouri	38.8	2.5	36.5	2.7	37.5	2.5	36.4	2.6	33.4	2.0	29.0	3.0
Montana	31.9	4.9	30.5	4.7	34.2	5.1	33.5	6.0	33.7	4.4	38.3	6.8
Nebraska	43.3	4.2	43.8	4.4	44.1	4.5	46.7	4.4	50.0	4.0	51.6	5.6
Nevada	44.3	3.2	42.5	3.2	42.4	3.2	45.0	3.1	42.8	2.4	41.4	4.2
New Hampshire	34.9	5.4	38.0	7.3	37.6	7.1	37.9	6.0	44.4	5.8	48.1	7.1
New Jersey	45.3	2.4	43.8	2.2	43.5	2.3	43.5	2.5	44.1	2.0	44.3	2.9
New Mexico	33.2	2.7	33.4	3.5	32.9	3.1	30.3	2.6	31.9	2.7	27.7	4.1
New York	45.7	1.6	44.8	1.6	45.8	1.6	43.2	1.6	44.0	1.5	46.3	3.6
North Carolina	41.7	1.9	40.3	1.9	40.8	2.1	40.3	2.0	50.2	1.6	55.9	3.5
North Dakota	44.2	7.2	52.5	7.9	54.4	8.9	44.0	9.9	42.4	7.1	45.2	12.4
Ohio	34.5	1.8	33.6	1.9	33.5	1.7	31.1	2.0	28.1	1.7	27.1	3.3
Oklahoma	40.9	2.5	39.0	2.5	41.4	2.7	39.4	2.5	40.5	2.0	40.9	6.0

State	2016		2017		2018		2019		2020		2021	
	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)
Oregon	47.2	2.6	47.7	2.7	50.9	2.5	51.1	2.7	52.5	2.6	55.6	4.2
Pennsylvania	40.1	2.1	39.7	2.1	41.4	2.2	39.3	1.9	37.9	1.8	33.6	2.9
Rhode Island	49.5	6.6	46.4	5.9	48.7	6.1	49.0	5.9	46.7	5.2	45.2	6.1
South Carolina	32.1	2.2	29.2	2.1	29.2	2.2	27.1	2.2	28.9	2.0	33.3	2.9
South Dakota	44.1	5.9	43.2	5.8	48.8	7.5	44.4	7.5	44.0	5.0	49.6	11.9
Tennessee	31.1	2.0	29.9	2.3	29.3	2.5	25.7	2.3	28.2	2.0	30.5	3.1
Texas	43.8	1.4	42.1	1.5	38.8	1.5	38.5	1.5	36.7	1.3	36.3	2.0
Utah	41.3	3.7	35.7	3.4	40.6	3.7	39.9	4.1	34.5	2.8	31.9	3.5
Vermont	60.7	7.7	48.2	5.7	58.5	6.0	65.0	8.0	56.0	6.0	66.4	8.8
Virginia	36.5	2.5	34.4	2.5	34.9	2.5	35.8	2.4	36.4	2.1	41.3	4.4
Washington	47.6	2.1	45.2	2.0	46.9	2.2	42.5	2.3	43.7	1.9	45.5	4.7
West Virginia	41.1	3.4	39.7	3.5	38.9	3.5	36.7	3.9	39.9	2.9	44.4	4.2
Wisconsin	40.5	3.2	40.8	2.8	44.6	2.8	43.1	3.1	45.5	2.4	45.1	4.2
Wyoming	42.7	9.0	37.9	7.0	39.5	7.0	40.7	8.2	39.3	7.0	37.1	8.1

Note: The 2016–2020 estimates presented in this report differ from previously published results because of updates to the underlying estimation methodology. See chapter 6 of volume I for more information.

COV = coefficient of variation; CY = calendar year

Sources: IPUMS-USA, n.d.-b; U.S. Census Bureau, n.d.-a, n.d.-b; FNS, 2023

Table D.9d. WIC Coverage Rates for Pregnant Women by State: CY 2016–CY 2021

State	2016		2017		2018		2019		2020		2021	
	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)
Total	55.0	0.8	54.0	0.9	53.0	0.8	51.2	0.7	46.2	0.7	43.7	0.9
Alabama	66.9	4.4	66.6	4.6	63.9	5.4	65.8	6.0	63.9	5.5	52.0	6.2
Alaska	48.7	12.4	41.8	12.6	50.0	13.1	53.9	14.8	58.2	12.2	43.4	13.6
Arizona	47.8	4.1	46.4	4.2	44.8	4.0	41.7	4.7	39.0	5.2	36.5	5.1
Arkansas	58.0	5.7	57.8	5.9	55.9	5.3	49.5	5.9	38.2	5.5	38.1	5.7
California	65.4	1.7	62.0	2.0	62.1	2.1	60.1	2.1	58.4	1.7	56.4	2.0
Colorado	45.4	5.8	44.7	4.8	47.5	5.5	47.9	5.6	39.6	4.9	38.2	5.8
Connecticut	60.1	7.9	67.3	9.0	62.7	7.2	57.9	7.5	49.6	6.9	50.2	7.0
Delaware	56.0	13.5	48.1	14.2	47.5	13.3	54.3	13.8	42.4	8.3	42.6	14.1
District of Columbia	50.4	15.1	39.9	14.9	37.9	18.0	50.7	18.5	58.1	17.0	44.6	19.2
Florida	54.6	2.7	54.7	2.5	55.1	2.5	52.6	2.6	47.2	2.8	42.6	2.8
Georgia	36.8	3.1	39.5	3.5	52.5	3.8	52.9	3.3	42.0	3.3	36.5	3.4
Hawaii	58.3	9.6	51.5	10.4	54.3	10.1	61.4	9.8	53.7	8.7	46.2	11.5
Idaho	43.4	9.1	40.1	7.5	41.5	8.2	38.3	9.5	33.9	9.1	34.1	9.9
Illinois	47.6	2.9	46.4	3.6	43.4	3.2	41.8	3.4	36.0	3.3	36.2	4.5
Indiana	50.1	4.5	49.7	4.7	45.8	5.3	46.4	5.0	44.7	4.0	43.8	4.6
Iowa	38.8	6.6	45.2	6.7	50.2	6.5	46.5	7.1	41.7	6.1	40.5	7.6
Kansas	55.1	6.6	53.4	6.8	48.7	6.7	49.8	7.8	46.1	6.2	42.4	7.1
Kentucky	62.7	6.1	57.9	5.7	53.8	5.7	53.0	5.1	53.8	4.7	49.9	4.8
Louisiana	57.6	5.1	53.8	4.6	49.9	5.3	46.5	4.9	39.8	4.5	34.5	5.4
Maine	47.6	14.0	45.9	14.5	45.1	12.3	41.8	11.6	35.5	11.4	48.8	11.1
Maryland	68.9	5.8	76.7	6.3	71.5	5.5	62.7	5.3	55.7	5.2	51.4	5.5
Massachusetts	54.4	5.1	52.3	5.1	53.0	5.9	52.1	5.4	48.1	4.3	45.6	5.6
Michigan	59.3	3.7	59.2	4.4	60.8	3.9	63.5	4.0	56.4	3.7	52.0	4.2
Minnesota	53.0	5.4	53.5	6.0	51.8	6.6	52.4	7.1	52.0	5.1	50.6	7.8
Mississippi	50.6	5.2	56.9	5.4	55.1	5.8	49.4	5.4	44.0	4.8	32.7	6.4
Missouri	57.5	4.0	54.0	4.2	51.9	4.5	50.6	4.9	42.5	4.3	36.5	5.3
Montana	44.9	13.7	40.6	11.1	44.4	11.8	41.6	12.4	37.6	12.1	33.0	14.0
Nebraska	42.6	7.8	47.9	9.0	43.5	7.7	38.9	9.6	39.4	9.3	40.8	11.0
Nevada	51.1	7.8	46.6	6.9	41.7	6.7	42.9	7.0	36.3	5.9	34.8	8.0
New Hampshire	41.7	12.3	39.5	15.0	30.0	13.4	33.0	14.0	30.7	10.6	44.1	15.8
New Jersey	48.1	4.0	50.0	4.4	50.2	4.3	45.1	5.3	35.5	4.0	37.7	5.4
New Mexico	47.0	7.8	47.5	7.2	42.4	7.2	38.3	8.1	37.3	7.1	31.0	8.3
New York	51.9	2.6	50.1	2.6	49.8	2.9	48.3	3.4	41.1	2.8	40.9	3.2
North Carolina	53.8	3.3	55.1	4.0	53.2	3.3	51.8	3.4	53.1	3.7	51.4	3.9
North Dakota	46.0	14.2	49.1	18.4	40.7	16.1	37.6	14.6	40.4	15.0	37.6	14.6
Ohio	53.9	3.7	54.2	3.2	49.3	3.2	49.3	3.7	45.5	3.5	35.7	4.2
Oklahoma	64.8	5.3	66.1	5.0	65.8	4.6	66.8	5.9	60.0	5.2	54.6	5.3

State	2016		2017		2018		2019		2020		2021	
	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)
Oregon	50.8	5.1	52.3	6.5	56.9	6.9	56.1	6.5	45.8	5.5	46.9	7.6
Pennsylvania	56.8	3.8	54.5	3.9	51.2	4.4	47.1	4.5	35.2	3.8	32.6	4.5
Rhode Island	61.8	11.4	67.3	12.2	49.2	11.2	48.8	12.4	46.6	9.7	46.6	12.7
South Carolina	55.9	4.8	52.4	5.3	49.8	4.5	43.0	5.0	38.6	5.0	33.0	5.5
South Dakota	40.6	13.0	40.4	15.0	46.4	14.2	40.4	12.7	42.1	11.4	37.6	12.3
Tennessee	56.2	4.0	55.8	4.1	53.6	3.8	45.8	4.0	43.7	4.2	39.3	4.9
Texas	56.6	2.0	55.7	2.0	51.5	1.9	50.6	2.1	46.0	1.9	45.6	2.0
Utah	41.7	7.1	35.0	6.8	44.3	7.6	36.7	7.7	30.8	6.3	25.4	7.0
Vermont	41.5	14.6	47.8	18.6	63.6	21.1	59.7	18.7	51.3	12.5	55.0	18.1
Virginia	52.2	4.8	50.4	5.3	47.1	4.8	47.0	5.0	43.6	5.0	43.6	5.0
Washington	55.2	4.3	48.3	4.3	46.8	4.4	43.3	4.9	39.6	4.4	39.6	5.1
West Virginia	57.8	9.4	50.5	7.2	46.0	7.1	50.3	9.2	38.9	7.6	39.4	9.7
Wisconsin	45.4	5.2	43.7	5.4	44.8	5.8	45.8	7.8	40.3	6.3	41.9	7.1
Wyoming	42.8	15.4	56.9	17.2	45.9	16.9	49.5	14.3	35.9	10.3	33.8	12.6

Note: The 2016–2020 estimates presented in this report differ from previously published results because of updates to the underlying estimation methodology. See chapter 6 of volume I for more information.

COV = coefficient of variation; CY = calendar year

Sources: IPUMS-USA, n.d.-b; U.S. Census Bureau, n.d.-a, n.d.-b; FNS, 2023

Table D.9e. WIC Coverage Rates for Postpartum Women by State: CY 2016–CY 2021

State	2016		2017		2018		2019		2020		2021	
	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)
Total	72.2	3.0	69.0	3.0	69.9	2.8	69.3	2.8	69.2	2.8	67.2	3.7
Alabama	68.7	5.3	70.5	5.5	66.9	6.1	69.8	6.5	71.0	6.1	56.6	7.3
Alaska	52.3	12.9	45.8	12.8	61.0	13.4	63.2	15.1	64.7	12.5	61.7	14.3
Arizona	73.5	5.1	64.7	5.1	65.3	4.9	64.2	5.4	66.2	5.9	62.0	6.3
Arkansas	66.7	6.4	66.3	6.5	65.2	5.9	59.5	6.4	53.3	6.1	54.7	6.7
California	82.1	3.4	71.4	3.5	73.8	3.4	73.4	3.4	75.2	3.2	74.7	4.1
Colorado	61.0	6.5	58.3	5.5	64.8	6.1	65.8	6.3	61.1	5.7	60.8	6.8
Connecticut	50.0	8.4	52.4	9.5	51.4	7.7	52.4	8.1	53.6	7.4	54.5	8.0
Delaware	60.1	14.0	51.8	14.3	54.7	13.4	64.6	14.1	57.9	8.6	57.9	15.2
District of Columbia	96.7	15.5	80.2	15.8	68.2	18.3	98.8	18.6	†	17.6	90.4	19.4
Florida	71.6	4.0	70.9	3.8	73.5	3.7	73.3	3.8	73.8	3.9	67.4	4.6
Georgia	83.9	4.3	77.9	4.6	65.3	4.7	68.6	4.3	61.1	4.3	52.4	5.0
Hawaii	79.4	10.0	61.3	10.7	66.7	10.5	73.1	10.3	64.1	9.0	72.6	12.4
Idaho	55.3	9.6	52.2	8.0	56.7	8.8	54.0	9.9	57.0	9.5	63.3	10.8
Illinois	58.4	4.1	61.9	4.7	62.8	4.3	62.8	4.3	56.4	4.3	51.0	5.8
Indiana	73.9	5.4	75.5	5.5	75.3	6.0	75.3	5.7	79.5	4.8	78.2	6.0
Iowa	56.8	7.3	66.8	7.5	81.4	7.0	74.8	7.6	76.5	6.6	75.9	8.5
Kansas	64.5	7.3	59.5	7.3	55.8	7.2	59.8	8.3	62.1	6.7	59.0	8.1
Kentucky	67.0	6.8	61.8	6.4	62.1	6.4	61.0	5.7	64.2	5.4	68.5	6.0
Louisiana	74.9	5.9	71.2	5.5	64.2	5.9	64.0	5.6	68.1	5.3	63.1	6.5
Maine	58.1	14.3	56.5	14.6	57.7	12.6	53.9	12.0	48.0	11.7	73.3	12.0
Maryland	84.2	6.6	88.6	6.9	82.0	6.2	77.8	5.9	81.7	5.8	70.8	6.6
Massachusetts	67.1	5.9	64.1	5.8	67.0	6.6	66.1	6.0	68.0	5.1	64.9	6.6
Michigan	60.0	4.7	61.2	5.2	66.9	4.8	66.6	4.9	66.6	4.6	62.1	5.6
Minnesota	72.2	6.1	71.8	6.7	72.7	7.2	72.3	7.5	75.3	5.8	77.0	8.6
Mississippi	70.2	6.0	80.9	6.1	78.3	6.4	72.5	6.0	74.6	5.6	58.8	7.4
Missouri	69.4	5.0	65.9	5.1	67.4	5.3	64.3	5.5	61.0	5.1	56.0	6.6
Montana	53.0	14.1	48.2	11.3	56.0	12.1	50.6	12.6	51.7	12.9	50.8	14.4
Nebraska	62.1	8.2	71.6	9.4	65.7	8.2	61.0	9.9	66.4	9.7	76.2	12.1
Nevada	79.4	8.3	69.5	7.5	64.7	7.4	71.6	7.4	66.2	6.5	64.6	8.7
New Hampshire	49.9	12.7	46.6	15.3	38.8	13.9	41.7	14.4	45.8	10.9	68.2	16.4
New Jersey	65.1	4.9	64.5	5.1	65.3	5.2	69.3	6.0	64.9	4.8	69.3	6.6
New Mexico	64.0	8.4	56.4	7.6	53.8	7.9	49.9	8.6	55.7	7.6	48.6	9.1
New York	71.8	3.9	68.9	3.9	71.4	4.0	66.4	4.3	67.4	3.9	67.4	4.8
North Carolina	72.0	4.4	72.7	4.8	72.1	4.3	71.2	4.3	73.5	4.6	70.3	5.3
North Dakota	62.1	14.7	67.1	18.7	61.5	16.0	57.6	15.0	62.7	15.0	75.3	15.2
Ohio	61.7	4.7	61.6	4.3	59.2	4.3	58.4	4.5	58.6	4.5	54.9	5.6
Oklahoma	67.3	6.1	62.9	5.8	65.4	5.5	66.5	6.5	63.0	5.8	65.5	6.6

State	2016		2017		2018		2019		2020		2021	
	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)
Oregon	61.4	5.9	64.5	7.0	73.0	7.3	72.5	7.1	66.5	6.1	74.8	8.4
Pennsylvania	61.7	4.8	62.5	4.9	66.2	5.2	64.2	5.3	64.2	4.7	59.6	5.9
Rhode Island	69.7	11.8	75.4	12.8	52.7	11.7	52.9	13.0	63.3	10.1	71.7	14.0
South Carolina	71.1	5.6	67.3	6.1	62.7	5.4	57.4	5.6	61.5	5.7	53.5	6.7
South Dakota	58.3	13.4	53.4	14.6	60.5	14.3	50.1	13.1	54.3	11.7	59.8	13.2
Tennessee	61.9	5.0	62.8	5.0	59.0	4.8	53.0	4.8	56.4	5.1	56.3	6.1
Texas	89.9	3.5	84.6	3.5	86.6	3.4	90.3	3.4	88.7	3.4	88.0	4.1
Utah	58.7	7.7	48.7	7.4	71.5	8.5	59.4	8.5	54.7	6.9	48.3	7.9
Vermont	53.6	15.0	61.4	18.8	85.7	21.2	81.0	18.9	75.2	12.7	92.1	18.5
Virginia	64.6	5.6	62.1	6.1	57.2	5.7	56.9	5.7	54.9	5.6	56.5	6.3
Washington	65.5	5.2	54.9	5.0	60.7	5.2	57.7	5.6	56.8	5.1	58.5	6.3
West Virginia	72.7	9.9	65.6	7.7	54.8	7.6	56.0	9.6	49.1	8.0	55.3	10.3
Wisconsin	64.0	6.0	60.3	6.2	69.7	6.6	71.8	8.2	67.1	6.8	71.7	8.3
Wyoming	62.7	15.7	77.6	17.5	70.4	16.8	72.2	14.5	60.8	10.8	58.2	13.6

Note: The 2016–2020 estimates presented in this report differ from previously published results because of updates to the underlying estimation methodology. See chapter 6 of volume I for more information.

COV = coefficient of variation; CY = calendar year

Sources: IPUMS-USA, n.d.-b; U.S. Census Bureau, n.d.-a, n.d.-b; FNS, 2023

† indicates an unreliable coverage rate over 100 percent

Table D.10. WIC Coverage Rates by State and Participant Category With Coefficients of Variation: CY 2021

State	Infants		All Children		1-Year-Old Children		2-Year-Old Children		3-Year-Old Children		4-Year-Old Children		Pregnant Women		Postpartum Women		Total	
	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)
Alabama	84.6	7.3	39.9	3.0	60.7	5.5	46.2	5.9	35.7	5.0	19.2	7.9	52.0	6.2	56.6	7.3	49.8	2.8
Alaska	78.7	14.3	44.8	14.9	67.0	14.6	51.2	12.9	44.6	12.7	22.7	46.2	43.4	13.6	61.7	14.3	51.3	10.7
Arizona	77.4	6.3	46.0	3.7	74.8	6.1	45.8	4.4	41.8	4.4	24.4	13.6	36.5	5.1	62.0	6.3	51.7	3.0
Arkansas	73.6	6.8	22.6	3.7	37.7	6.8	21.3	6.3	20.2	6.7	12.5	10.5	38.1	5.7	54.7	6.7	35.0	3.1
California	82.4	4.1	62.8	3.2	81.9	4.0	63.6	3.2	62.2	3.2	44.8	11.0	56.4	2.0	74.7	4.1	66.5	2.3
Colorado	68.1	6.8	39.0	2.9	57.4	6.0	41.2	5.9	37.7	5.1	20.3	8.8	38.2	5.8	60.8	6.8	45.8	2.7
Connecticut	80.2	8.0	37.1	4.0	51.8	8.0	37.6	8.4	36.4	9.2	21.9	12.8	50.2	7.0	54.5	8.0	46.1	3.5
Delaware	79.5	15.3	39.5	4.8	53.2	13.1	45.9	13.4	39.3	11.8	19.9	14.2	42.6	14.1	57.9	15.2	47.6	5.3
District of Columbia	90.3	19.5	49.0	6.1	83.5	24.2	61.1	20.0	44.5	14.8	18.6	18.8	44.6	19.2	90.4	19.4	59.4	6.7
Florida	75.4	4.6	40.7	2.4	62.7	4.3	41.7	3.8	37.7	3.7	21.2	7.9	42.6	2.8	67.4	4.6	49.1	1.9
Georgia	65.6	5.0	32.7	2.8	47.7	5.5	35.2	4.9	34.3	4.1	15.3	8.8	36.5	3.4	52.4	5.0	40.4	2.3
Hawaii	86.0	12.5	49.4	16.6	72.3	9.8	51.8	10.7	53.9	10.3	20.7	64.5	46.2	11.5	72.6	12.4	56.4	12.2
Idaho	73.3	10.8	36.7	4.8	61.4	9.5	36.2	9.0	32.0	9.1	20.6	11.0	34.1	9.9	63.3	10.8	44.2	4.4
Illinois	71.4	5.8	26.4	2.6	36.8	5.0	27.5	4.3	25.0	3.9	17.1	8.7	36.2	4.5	51.0	5.8	36.3	2.3
Indiana	87.7	6.0	54.0	3.4	83.4	5.4	55.7	5.0	51.2	5.0	28.7	10.5	43.8	4.6	78.2	6.0	60.8	2.8
Iowa	83.1	8.5	47.3	3.8	72.4	8.1	51.6	7.3	45.4	8.0	22.4	9.9	40.5	7.6	75.9	8.5	55.0	3.7
Kansas	76.3	8.1	37.6	4.7	57.4	7.7	38.4	6.7	36.0	7.1	19.9	15.0	42.4	7.1	59.0	8.1	45.7	4.2
Kentucky	96.3	6.0	50.5	3.2	79.4	6.2	51.8	4.9	44.5	5.8	30.3	10.6	49.9	4.8	68.5	6.0	59.2	2.6
Louisiana	73.6	6.5	23.8	3.1	41.5	6.5	23.8	6.2	20.6	5.4	10.5	8.9	34.5	5.4	63.1	6.5	37.2	2.5
Maine	96.3	12.1	45.6	6.3	59.9	12.5	50.7	13.6	46.3	11.7	26.8	14.5	48.8	11.1	73.3	12.0	54.7	5.5
Maryland	82.6	6.7	46.7	3.3	67.7	6.7	51.6	5.9	46.7	5.7	23.9	9.4	51.4	5.5	70.8	6.6	55.4	2.8
Massachusetts	74.9	6.6	59.4	4.1	91.9	6.7	57.8	6.3	56.8	5.7	34.5	13.7	45.6	5.6	64.9	6.6	61.2	2.8
Michigan	86.0	5.6	52.8	3.5	74.2	5.4	57.4	4.7	53.3	4.7	27.2	10.9	52.0	4.2	62.1	5.6	58.7	2.8
Minnesota	91.9	8.7	54.2	5.7	75.4	6.4	51.6	7.9	58.1	6.2	34.2	17.3	50.6	7.8	77.0	8.6	61.5	4.8
Mississippi	77.2	7.4	38.3	2.8	56.7	6.9	38.6	5.4	38.8	7.0	20.8	8.7	32.7	6.4	58.8	7.4	46.6	3.0
Missouri	72.1	6.6	29.0	3.0	49.4	5.7	27.7	5.4	25.1	5.0	15.8	9.5	36.5	5.3	56.0	6.6	39.5	2.7
Montana	67.5	14.4	38.3	6.8	57.5	13.1	42.2	10.1	36.3	11.8	20.6	18.0	33.0	14.0	50.8	14.4	43.3	6.7
Nebraska	86.0	12.1	51.6	5.6	75.8	11.9	54.4	10.4	44.4	9.8	34.2	14.5	40.8	11.0	76.2	12.1	58.2	5.2

State	Infants		All Children		1-Year-Old Children		2-Year-Old Children		3-Year-Old Children		4-Year-Old Children		Pregnant Women		Postpartum Women		Total	
	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)
Nevada	73.1	8.7	41.4	4.2	63.9	7.3	41.3	7.0	38.2	6.9	22.4	13.2	34.8	8.0	64.6	8.7	48.0	3.9
New Hampshire	79.3	16.5	48.1	7.1	61.5	13.0	62.0	13.3	48.6	11.0	25.7	18.4	44.1	15.8	68.2	16.4	53.6	7.4
New Jersey	72.0	6.6	44.3	2.9	69.8	6.1	50.1	5.2	38.8	5.3	20.8	8.6	37.7	5.4	69.3	6.6	50.5	2.4
New Mexico	56.2	9.1	27.7	4.1	42.5	9.6	26.9	6.8	25.7	6.4	17.8	14.5	31.0	8.3	48.6	9.1	34.6	3.6
New York	76.5	4.9	46.3	3.6	69.1	4.3	47.8	3.7	42.7	3.7	27.3	12.9	40.9	3.2	67.4	4.8	52.7	2.6
North Carolina	84.1	5.4	55.9	3.5	85.4	5.1	57.2	4.6	52.7	4.1	31.4	11.3	51.4	3.9	70.3	5.3	61.7	2.5
North Dakota	87.3	15.2	45.2	12.4	62.0	18.6	56.6	14.7	34.3	16.8	28.9	40.7	37.6	14.6	75.3	15.2	53.2	10.2
Ohio	80.9	5.7	27.1	3.3	38.8	4.9	26.9	4.0	26.1	4.4	17.7	11.2	35.7	4.2	54.9	5.6	38.9	2.5
Oklahoma	90.3	6.6	40.9	6.0	57.4	7.0	42.2	5.9	41.0	6.1	24.3	21.7	54.6	5.3	65.5	6.6	51.7	4.2
Oregon	84.9	8.5	55.6	4.2	89.6	7.7	53.0	6.8	45.6	6.2	36.9	14.2	46.9	7.6	74.8	8.4	61.0	3.9
Pennsylvania	66.1	5.9	33.6	2.9	58.7	5.1	32.7	5.1	31.1	4.5	15.2	9.3	32.6	4.5	59.6	5.9	41.0	2.3
Rhode Island	88.0	14.0	45.2	6.1	65.2	15.1	54.1	14.8	39.0	12.4	25.4	14.2	46.6	12.7	71.7	14.0	54.4	5.4
South Carolina	66.6	6.7	33.3	2.9	56.8	6.0	33.7	5.2	30.6	4.8	13.7	8.1	33.0	5.5	53.5	6.7	40.9	2.8
South Dakota	77.5	13.2	49.6	11.9	79.9	13.8	50.7	11.9	33.4	14.9	39.8	39.1	37.6	12.3	59.8	13.2	53.9	8.3
Tennessee	73.9	6.2	30.5	3.1	47.4	5.4	32.5	5.1	29.1	5.2	13.9	9.0	39.3	4.9	56.3	6.1	41.0	2.5
Texas	80.6	4.2	36.3	2.0	59.5	4.0	35.5	3.4	34.8	3.1	17.1	5.7	45.6	2.0	88.0	4.1	49.6	1.6
Utah	53.0	7.9	31.9	3.5	48.1	8.0	32.4	8.5	28.1	7.8	19.3	9.3	25.4	7.0	48.3	7.9	36.6	3.5
Vermont	95.8	18.5	66.4	8.8	85.0	17.3	81.4	19.6	71.1	19.5	35.8	19.0	55.0	18.1	92.1	18.5	71.6	6.8
Virginia	79.5	6.4	41.3	4.4	59.5	5.6	43.5	5.2	39.4	5.1	25.2	14.7	43.6	5.0	56.5	6.3	48.8	3.4
Washington	64.9	6.3	45.5	4.7	61.0	6.1	43.5	4.9	46.2	4.9	32.1	16.9	39.6	5.1	58.5	6.3	49.3	3.5
West Virginia	85.0	10.3	44.4	4.2	73.4	8.7	41.4	7.5	39.0	7.9	28.6	13.5	39.4	9.7	55.3	10.3	51.2	4.2
Wisconsin	83.0	8.3	45.1	4.2	71.2	7.7	42.7	6.3	48.0	6.5	23.2	11.9	41.9	7.1	71.7	8.3	52.5	3.1
Wyoming	65.5	13.6	37.1	8.1	58.1	16.1	38.3	13.0	33.0	16.9	20.0	23.1	33.8	12.6	58.2	13.6	43.6	6.9
Total	78.1	3.8	43.2	1.4	64.3	3.4	44.2	2.7	41.4	2.6	24.7	2.9	43.7	0.9	67.2	3.7	51.2	1.3

Note: Coverage rate estimates for Puerto Rico are included in the totals but are not shown separately because of small sample sizes. The COV is defined as the ratio of the standard error to the eligibility estimate. The larger the COV in relation to the size of the estimate, the less reliable the estimate. See appendix B for more details on statistical uncertainty for these estimates.

COV = coefficient of variation; CY = calendar year

Sources: IPUMS-USA, n.d.-b; Kline et al., 2022; U.S. Census Bureau, n.d.-a; FNS, 2023

Table D.11. State-Level WIC Coverage Rates by Race and Hispanic Ethnicity With Coefficients of Variation: CY 2021

State	Hispanic/Latino		White-Only, Not Hispanic		Other Than White-Only, Not Hispanic ^a		Total	
	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)
Alabama	66.0	8.1	46.2	4.2	49.4	4.4	49.8	2.8
Alaska	39.6	25.8	33.8*	10.9	69.0	20.2	51.3	10.7
Arizona	49.8*	2.9	48.4*	4.6	62.6	13.3	51.7	3.0
Arkansas	34.4*	4.7	36.6*	4.5	33.0*	6.2	35.0*	3.1
California	72.7*	2.1	39.3*	3.5	64.4*	11.3	66.5*	2.3
Colorado	48.8*	3.8	41.3	4.7	47.0	9.2	45.8*	2.7
Connecticut	53.0*	4.1	33.4*	6.4	46.2	10.0	46.1*	3.5
Delaware	58.5	10.5	39.5	10.0	47.7	8.1	47.6	5.3
District of Columbia	89.9*	16.8	52.4	55.2	53.1	7.7	59.4*	6.7
Florida	54.1*	2.5	38.4*	3.4	52.3	4.6	49.1*	1.9
Georgia	40.6*	4.1	42.4	3.7	39.4*	3.9	40.4*	2.3
Hawaii	43.8*	10.0	37.0	14.6	66.5	19.4	56.4	12.2
Idaho	48.8*	7.6	40.5	5.6	61.9	24.2	44.2*	4.4
Illinois	39.4*	3.1	32.5*	4.0	36.7*	5.3	36.3*	2.3
Indiana	68.3*	5.1	56.8*	3.5	64.6*	7.1	60.8*	2.8
Iowa	64.4	8.7	48.0	4.7	68.4*	9.0	55.0*	3.7
Kansas	46.6*	6.1	42.5	4.9	52.3	15.1	45.7*	4.2
Kentucky	53.5	7.4	59.9*	3.4	59.1	9.1	59.2*	2.6
Louisiana	34.4*	6.8	34.6*	4.7	39.2*	3.9	37.2*	2.5
Maine	70.7	46.8	52.1*	5.8	64.0	18.4	54.7	5.5
Maryland	72.5*	4.7	45.8	5.1	50.4	4.8	55.4*	2.8
Massachusetts	69.1*	3.3	51.9*	5.1	60.2*	8.9	61.2*	2.8
Michigan	68.4*	5.9	56.6*	3.6	58.8*	5.5	58.7*	2.8
Minnesota	61.9	7.6	49.5*	4.7	76.3*	11.3	61.5*	4.8
Mississippi	54.4	12.0	44.8	5.3	46.9*	4.1	46.6*	3.0
Missouri	40.9*	8.6	39.4*	3.6	39.1*	6.7	39.5*	2.7
Montana	40.3	27.0	38.3*	7.5	62.0	17.8	43.3*	6.7
Nebraska	70.1	10.3	46.5	5.9	67.5	14.5	58.2*	5.2
Nevada	44.2*	4.3	53.8*	9.3	52.0	9.5	48.0	3.9
New Hampshire	62.3	21.3	51.4*	6.6	57.0	36.9	53.6	7.4
New Jersey	58.4	3.5	39.4*	4.6	48.4	6.3	50.5	2.4
New Mexico	33.8*	4.0	31.8*	9.2	43.3	16.4	34.6*	3.6
New York	54.7*	2.7	45.0	3.3	58.0*	7.0	52.7	2.6

State	Hispanic/Latino		White-Only, Not Hispanic		Other Than White- Only, Not Hispanic ^a		Total	
	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)
North Carolina	60.2	3.4	63.1*	3.7	61.4*	5.2	61.7*	2.5
North Dakota	45.5	24.1	42.5	11.2	73.5	23.6	53.2	10.2
Ohio	42.8*	6.1	36.5*	3.3	41.6*	5.6	38.9*	2.5
Oklahoma	52.5*	4.2	43.3	4.3	62.9	11.6	51.7	4.2
Oregon	63.3	4.8	61.3*	5.0	54.3	16.4	61.0*	3.9
Pennsylvania	42.9*	3.7	38.5*	3.5	43.2*	5.9	41.0*	2.3
Rhode Island	62.3	8.8	40.9	9.2	54.9	11.7	54.4	5.4
South Carolina	38.8*	5.6	36.8*	4.3	44.6*	4.4	40.9*	2.8
South Dakota	57.5	30.2	36.1*	8.4	80.6	20.0	53.9	8.3
Tennessee	39.0*	5.3	47.8*	3.7	33.2*	4.9	41.0*	2.5
Texas	53.7*	2.1	42.0	3.5	43.3*	4.6	49.6*	1.6
Utah	47.0*	7.5	30.2*	5.4	44.9	12.7	36.6*	3.5
Vermont	†	–	66.5*	7.1	93.4*	23.6	71.6*	6.8
Virginia	59.8	4.6	44.6	4.1	46.6	6.2	48.8	3.4
Washington	55.2	3.3	40.8*	4.0	57.0	14.8	49.3	3.5
West Virginia	61.9	21.3	49.8*	5.0	60.0	19.1	51.2	4.2
Wisconsin	72.5*	6.7	41.5	4.4	58.6	8.1	52.5	3.1
Wyoming	51.0	20.8	40.5	8.0	48.6	30.7	43.6*	6.9
Total	58.1	2.0	44.2	2.6	50.5	2.5	51.2	1.3

Note: Coverage rate estimates for Puerto Rico are included in the totals but are not shown separately because of small sample sizes. The COV is defined as the ratio of the standard error to the eligibility estimate. The larger the COV in relation to the size of the estimate, the less reliable the estimate. See appendix B for more details on statistical uncertainty for these estimates.

COV = coefficient of variation; CY = calendar year

* indicates a statistically significant difference at the 95 percent confidence level between the coverage rate for a participant's race/ethnicity and the national coverage rate for that category

† indicates an unreliable coverage rate over 100 percent

^aThis category includes non-Hispanic individuals who self-identify as two or more races or self-identify as a race other than White. These categories were combined because of sample size concerns.

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Sources: IPUMS-USA, n.d.-b; Kline et al., 2022; U.S. Census Bureau, n.d.-a; FNS, 2023

Table D.12. State-Level WIC Coverage Rates for Children by Race and Hispanic Ethnicity: CY 2021

State	Hispanic/Latino	White-Only, Not Hispanic	Other Than White- Only, Not Hispanic ^a	Total
Alabama	54.8	35.4	40.2	39.9
Alaska	42.9	29.2	56.8	44.8
Arizona	44.8	40.7	57.0	46.0
Arkansas	23.1	25.4	18.7	22.6
California	69.5	36.0	57.5	62.8
Colorado	39.7	36.0	44.1	39.0
Connecticut	44.9	24.8	36.5	37.1
Delaware	50.4	30.4	40.3	39.5
District of Columbia	98.3	70.2	40.9	49.0
Florida	45.3	31.7	42.3	40.7
Georgia	33.9	34.7	31.4	32.7
Hawaii	34.8	37.6	59.0	49.4
Idaho	43.6	33.0	43.0	36.7
Illinois	31.2	23.5	24.6	26.4
Indiana	57.2	48.4	64.9	54.0
Iowa	59.8	40.2	58.3	47.3
Kansas	41.5	33.8	41.2	37.6
Kentucky	44.8	51.3	50.5	50.5
Louisiana	19.3	24.3	24.3	23.8
Maine	93.3	41.9	59.3	45.6
Maryland	63.9	34.7	42.9	46.7
Massachusetts	69.3	51.4	53.9	59.4
Michigan	64.5	50.4	52.4	52.8
Minnesota	54.9	44.6	65.1	54.2
Mississippi	44.5	35.1	39.3	38.3
Missouri	31.9	29.5	27.2	29.0
Montana	24.7	34.4	57.8	38.3
Nebraska	62.1	39.9	63.5	51.6
Nevada	38.3	48.6	43.2	41.4
New Hampshire	70.7	43.7	55.3	48.1
New Jersey	50.2	36.6	41.4	44.3
New Mexico	27.8	23.6	31.7	27.7
New York	47.8	40.7	49.8	46.3
North Carolina	55.1	57.3	55.2	55.9
North Dakota	40.8	35.5	62.0	45.2
Ohio	34.1	24.9	28.6	27.1
Oklahoma	41.5	33.8	49.3	40.9
Oregon	56.0	57.3	47.9	55.6
Pennsylvania	38.3	31.6	33.2	33.6
Rhode Island	55.2	29.1	45.8	45.2

State	Hispanic/Latino	White-Only, Not Hispanic	Other Than White- Only, Not Hispanic ^a	Total
South Carolina	33.9	30.3	35.2	33.3
South Dakota	92.6	34.2	61.2	49.6
Tennessee	33.0	35.9	22.3	30.5
Texas	40.3	27.0	31.1	36.3
Utah	38.2	27.5	36.3	31.9
Vermont	†	62.2	79.6	66.4
Virginia	50.1	37.5	39.9	41.3
Washington	50.6	38.3	50.2	45.5
West Virginia	51.2	44.1	44.8	44.4
Wisconsin	57.9	36.6	49.4	45.1
Wyoming	73.4	30.7	35.9	37.1
Total	50.7	36.7	41.3	43.2

Note: Coverage rate estimates for Puerto Rico are included in the totals but are not shown separately.

CY = calendar year

† indicates an unreliable coverage rate over 100 percent

^aThis category includes non-Hispanic individuals who self-identify as two or more races or self-identify as a race other than White. These categories were combined because of sample size concerns.

Sources: IPUMS-USA, n.d.-b; Kline et al., 2022; U.S. Census Bureau, n.d.-a; FNS, 2023

Appendix E. FNS Regional- and State-Level Maps of WIC Coverage Rates: CY 2021

This appendix provides maps of WIC coverage rates at the regional and State levels. Coverage rates are the percentages of women, infants, and children eligible for WIC who receive WIC benefits. This appendix includes maps that show coverage rates for all eligible individuals and for each of the four participant categories—infants, children, pregnant women, and postpartum women. This appendix also includes maps that show State-level coverage rates for three race and ethnicity categories: Hispanic/Latino; White-Only, Not Hispanic; and Other Than White-Only, Not Hispanic.⁹

Impact of the COVID-19 Pandemic and Public Health Emergency

The COVID-19 public health emergency influenced WIC program eligibility patterns and WIC program operations. The Families First Coronavirus Response Act authorized FNS to issue waivers to provide flexibilities to help State agencies continue to safely serve WIC participants during the pandemic. States varied in the use of waivers, which could have affected program participation. See <https://www.fns.usda.gov/disaster/pandemic/covid-19/wic-waivers-flexibilities> for a list of waivers issued to each State. For example, States that waived the physical presence requirement or issued benefits remotely may have seen an increase in WIC participation because of these policies.

A list of the maps follows:

FNS Regional-Level Coverage Rates

- ▶ E.1. Total
- ▶ E.2. Infants
- ▶ E.3. Children
- ▶ E.4. Pregnant women
- ▶ E.5. Postpartum women

Estimates for U.S. territories other than Puerto Rico are included in the national totals but are not shown separately because of small sample sizes.

State-Level Coverage Rates by Participant Category

- ▶ E.6. Total
- ▶ E.7. Infants
- ▶ E.8. Children
- ▶ E.9. Pregnant women

⁹ The “Black-Only, Not Hispanic” and “Two or More Races or Other Race, Not Hispanic” categories were combined because of sample size concerns. This category includes Black-only, non-Hispanic individuals and non-Hispanic individuals who self-identify as two or more races or self-identify as a race other than Black or White.

▶ E.10. Postpartum women

Estimates for the U.S. territories are included in the national totals but are not shown separately because of small sample sizes. Estimates for Puerto Rico are displayed in figure E.6 only.

State-Level Coverage Rates by Race and Hispanic Ethnicity

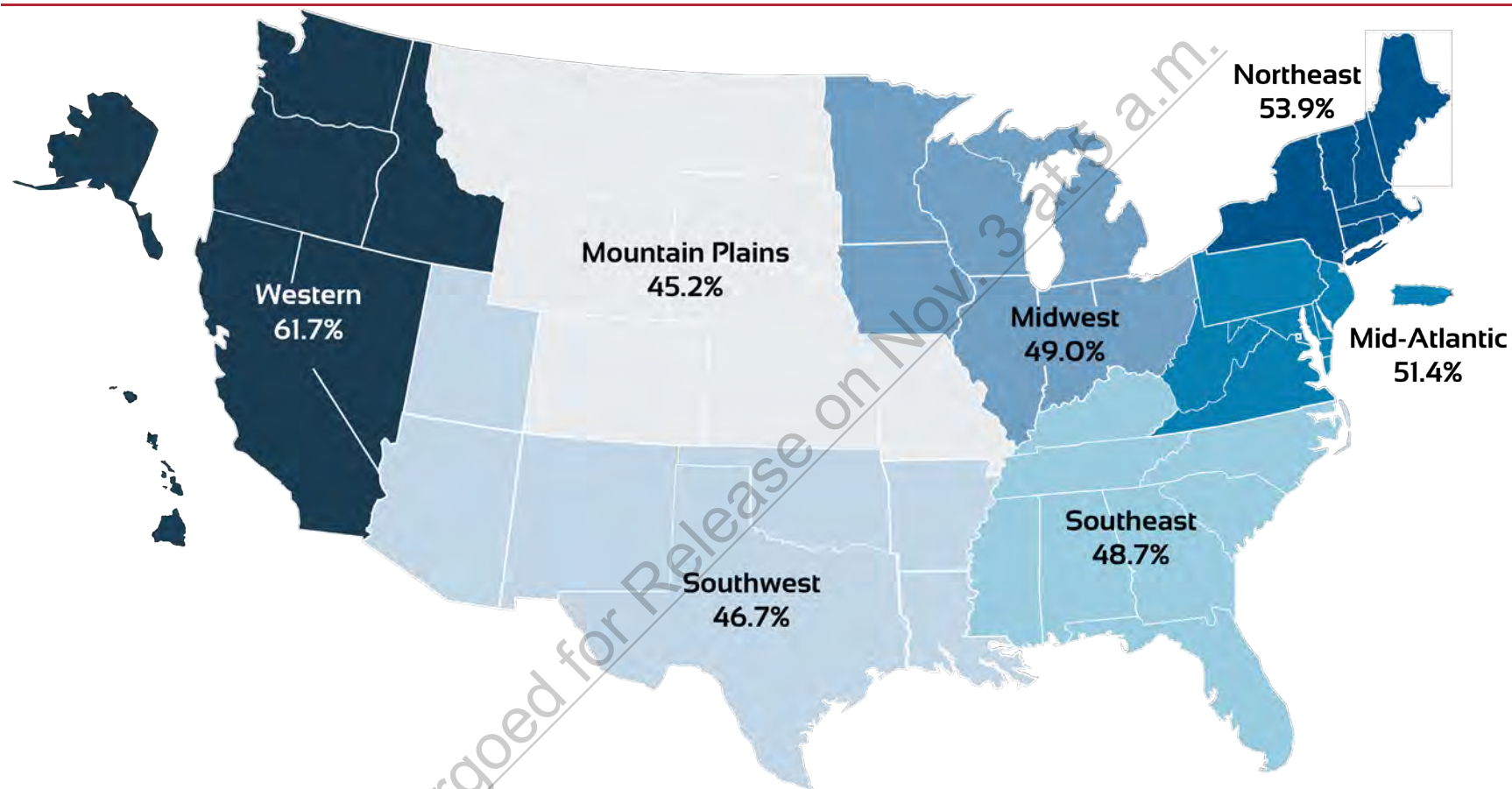
- ▶ E.11. Hispanic/Latino
- ▶ E.12. White-only, not Hispanic
- ▶ E.13. Other than White-only, not Hispanic

Estimates for U.S. territories other than Puerto Rico are not included in national totals because the International Database data did not include information on race and Hispanic ethnicity. Estimates for Puerto Rico are included in the national totals but are not shown separately because of small sample sizes.

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Figure E.1. WIC Coverage Rate for Total Eligible Individuals by FNS Region: CY 2021

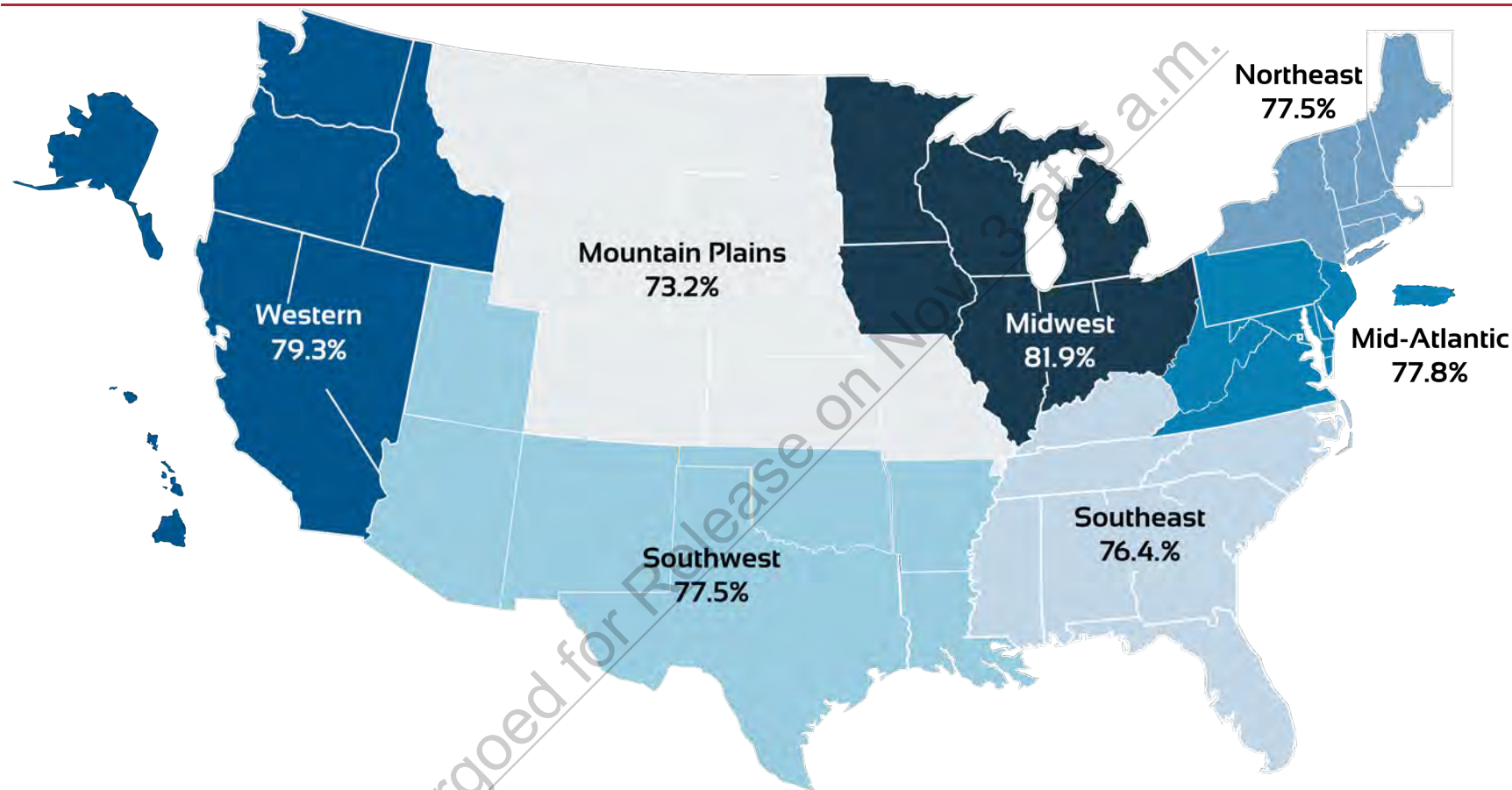
National Coverage Rate for All Eligible Individuals: 51.2 Percent



CY = calendar year; FNS = Food and Nutrition Service
Sources: IPUMS-USA, n.d.-b; U.S. Census Bureau, n.d.-a, n.d.-b; FNS, 2023

Figure E.2. WIC Coverage Rate for Infants by FNS Region: CY 2021

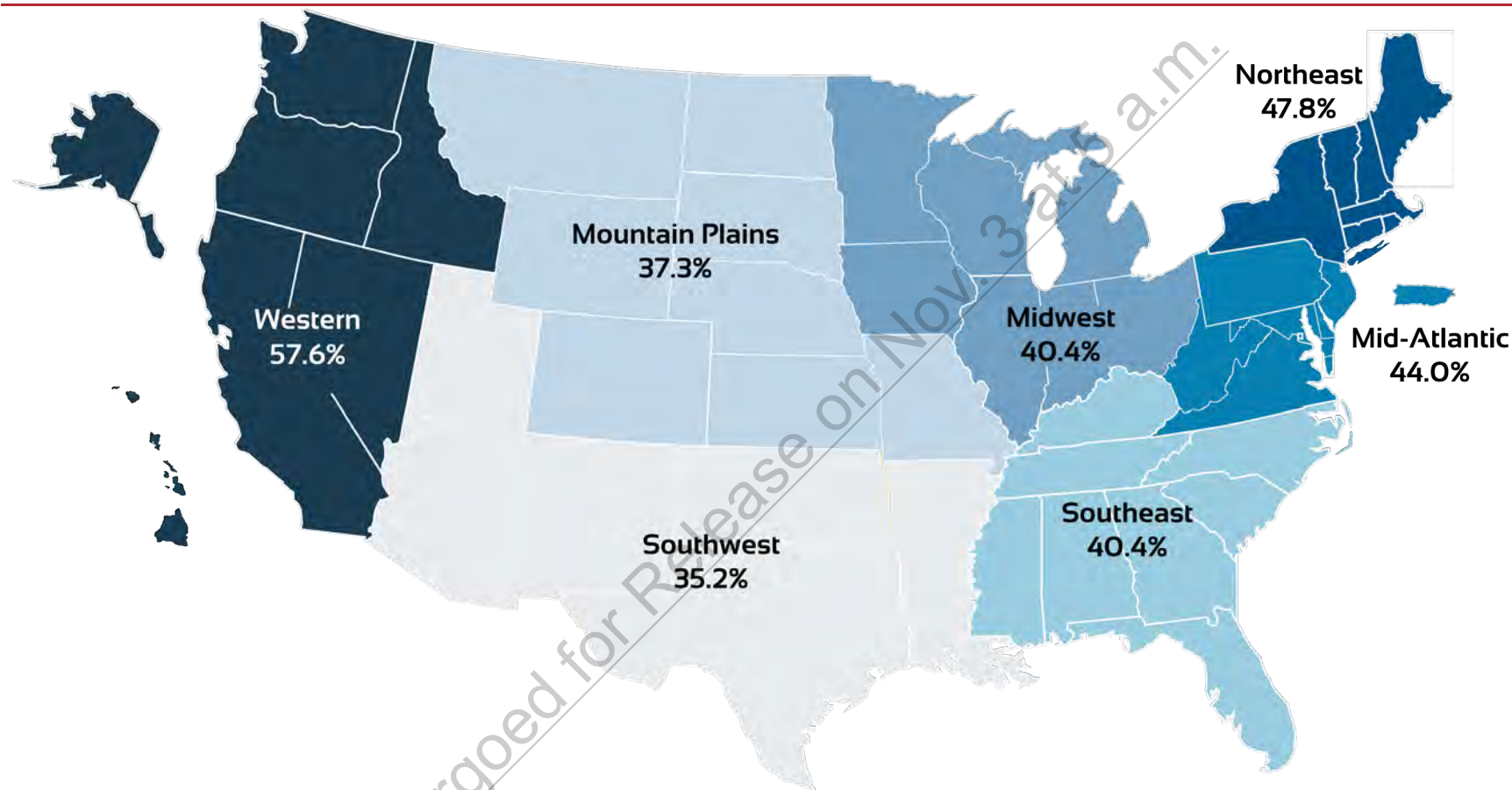
National Coverage Rate for Infants: 78.0 Percent



CY = calendar year; FNS = Food and Nutrition Service
Sources: IPUMS-USA, n.d.-b; U.S. Census Bureau, n.d.-a, n.d.-b; FNS, 2023

Figure E.3. WIC Coverage Rate for Children by FNS Region: CY 2021

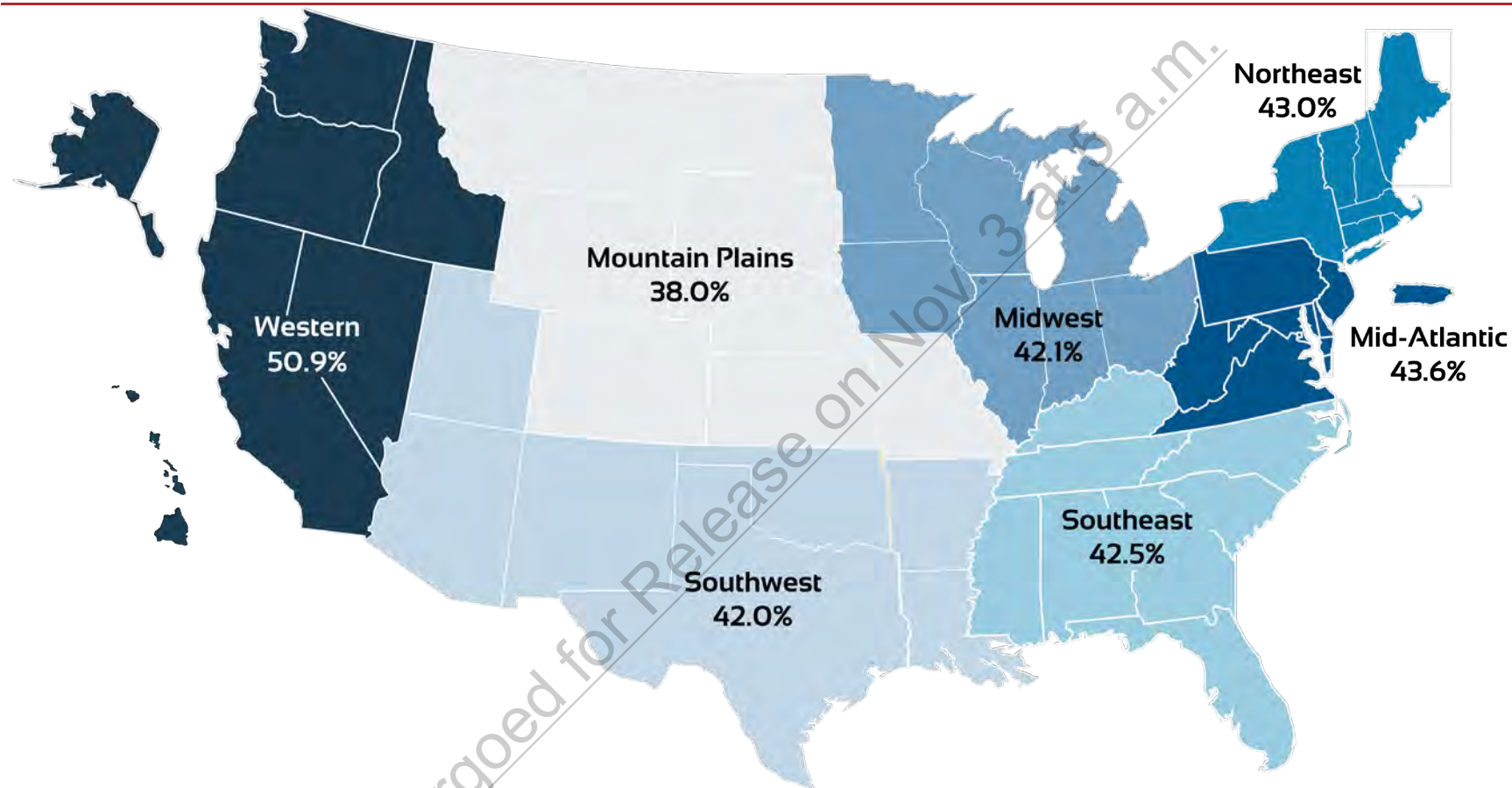
National Coverage Rate for Children: 43.2 Percent



CY = calendar year; FNS = Food and Nutrition Service
Sources: IPUMS-USA, n.d.-b; U.S. Census Bureau, n.d.-a, n.d.-b; FNS, 2023

Figure E.4. WIC Coverage Rate for Pregnant Women by FNS Region: CY 2021

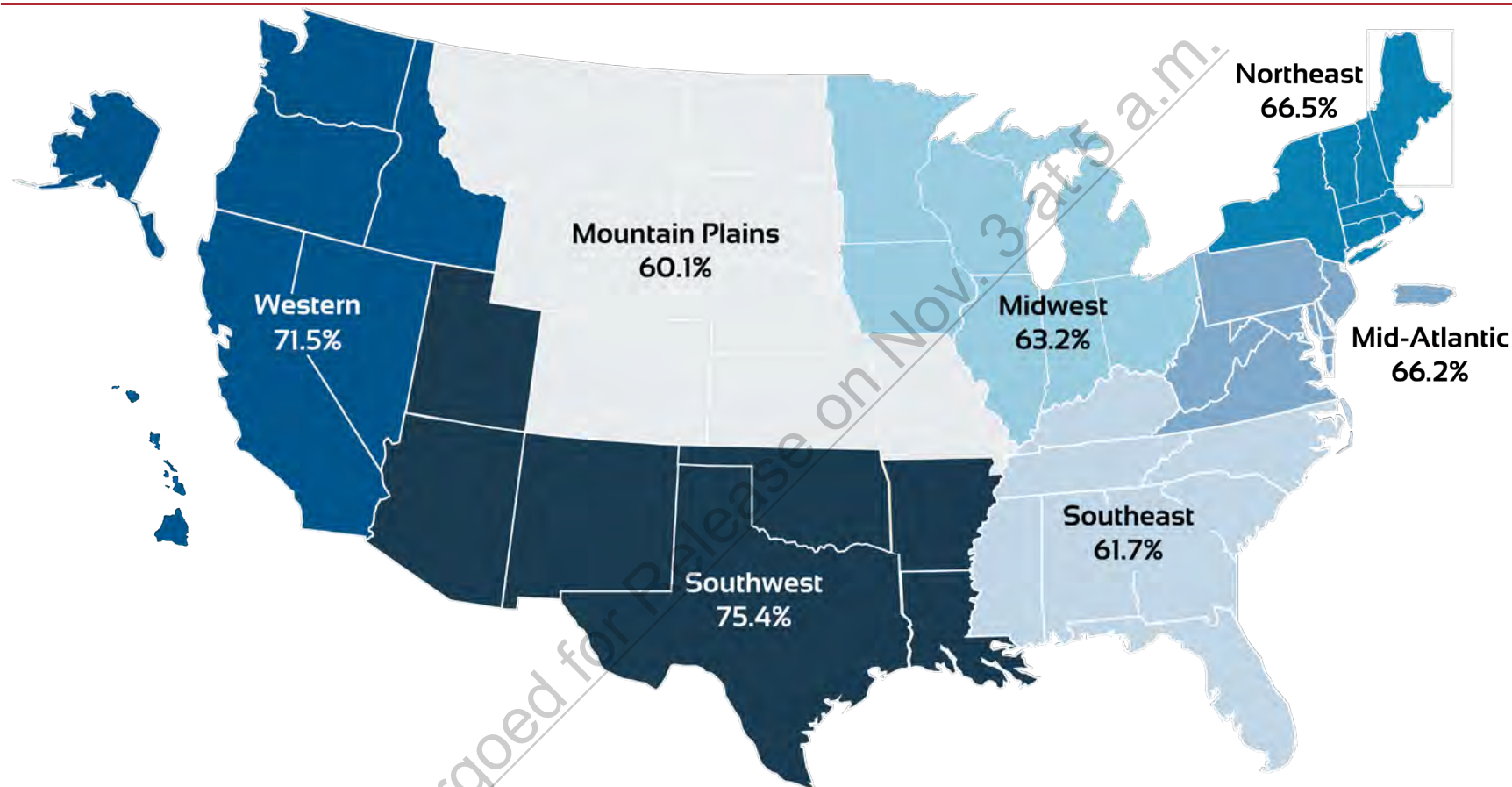
National Coverage Rate for Pregnant Women: 43.7 Percent



CY = calendar year; FNS = Food and Nutrition Service
Sources: IPUMS-USA, n.d.-b; U.S. Census Bureau, n.d.-a, n.d.-b; FNS, 2023

Figure E.5. WIC Coverage Rate for Postpartum Women by FNS Region: CY 2021

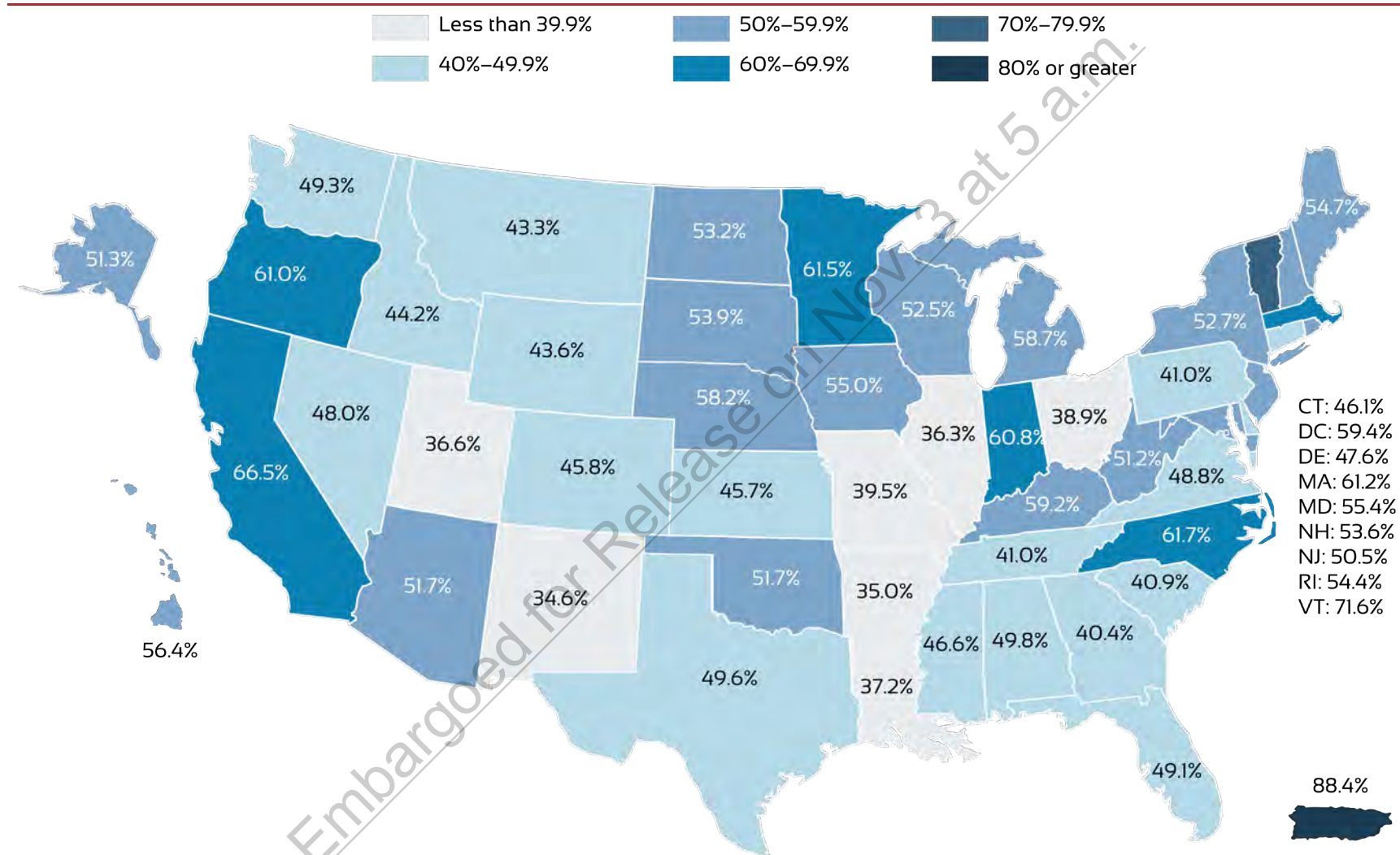
National Coverage Rate for Postpartum Women: 67.2 Percent



CY = calendar year; FNS = Food and Nutrition Service
Sources: IPUMS-USA, n.d.-b; U.S. Census Bureau, n.d.-a, n.d.-b; FNS, 2023

Figure E.6. WIC Coverage Rate for Total Eligible Individuals by State: CY 2021

National Coverage Rate for All Eligible Individuals: 51.2 Percent

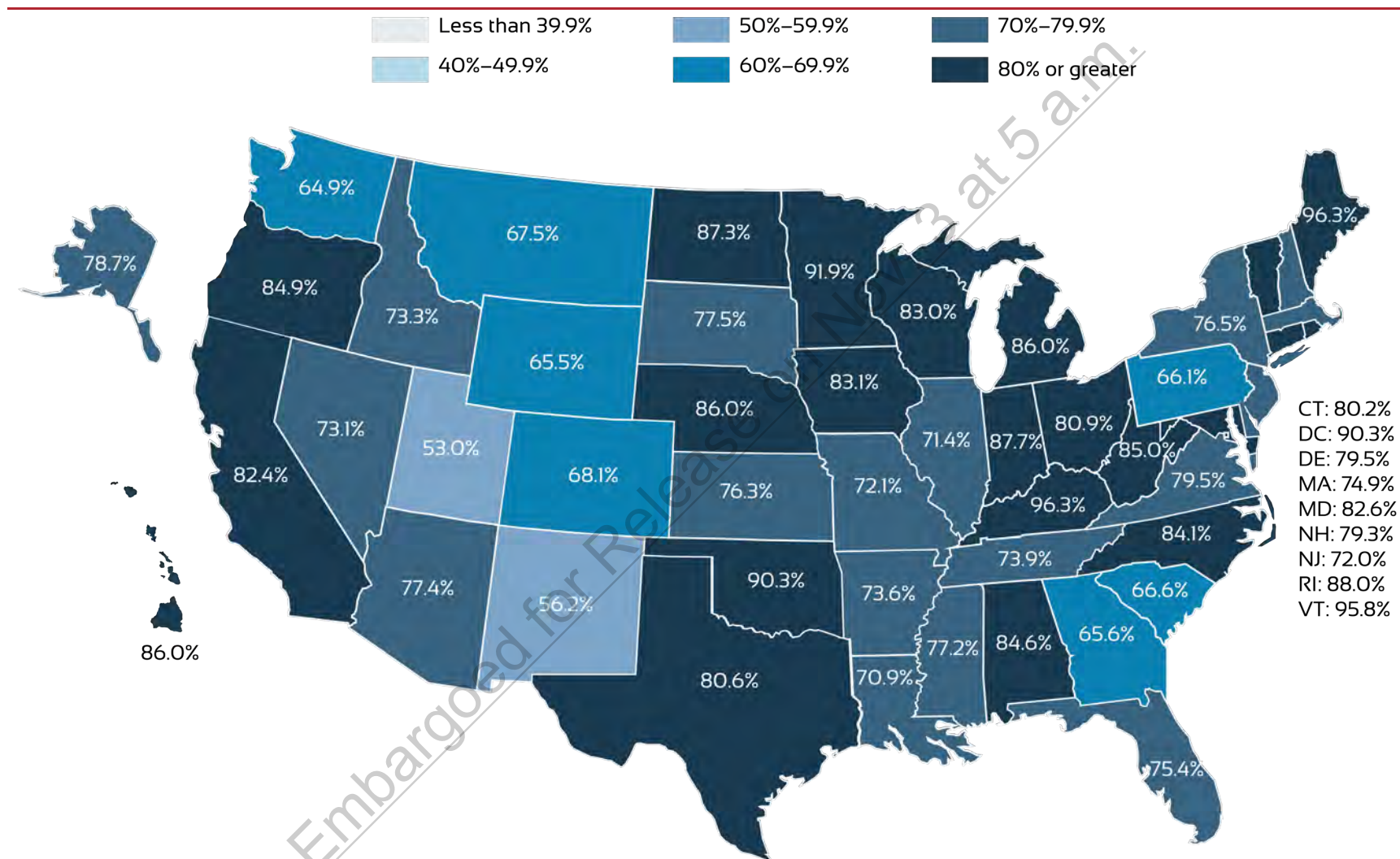


CY = calendar year

Sources: IPUMS-USA, n.d.-b; U.S. Census Bureau, n.d.-a, n.d.-b; FNS, 2023

Figure E.7. WIC Coverage Rate for Infants by State: CY 2021

National Coverage Rate for Infants: 78.0 Percent

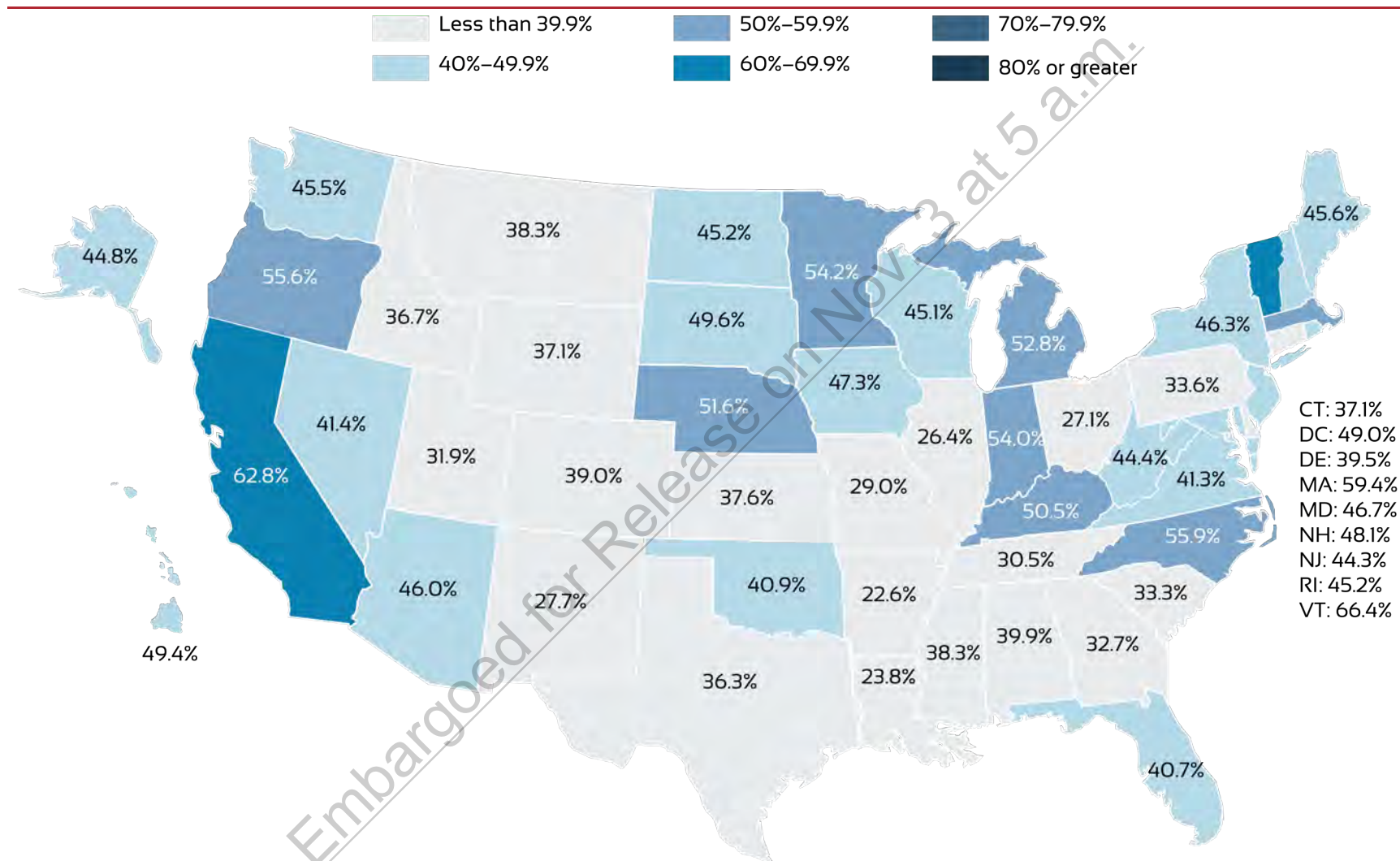


CY = calendar year

Sources: IPUMS-USA, n.d.-b; U.S. Census Bureau, n.d.-a, n.d.-b; FNS, 2023

Figure E.8. WIC Coverage Rate for Children by State: CY 2021

National Coverage Rate for Children: 43.2 Percent

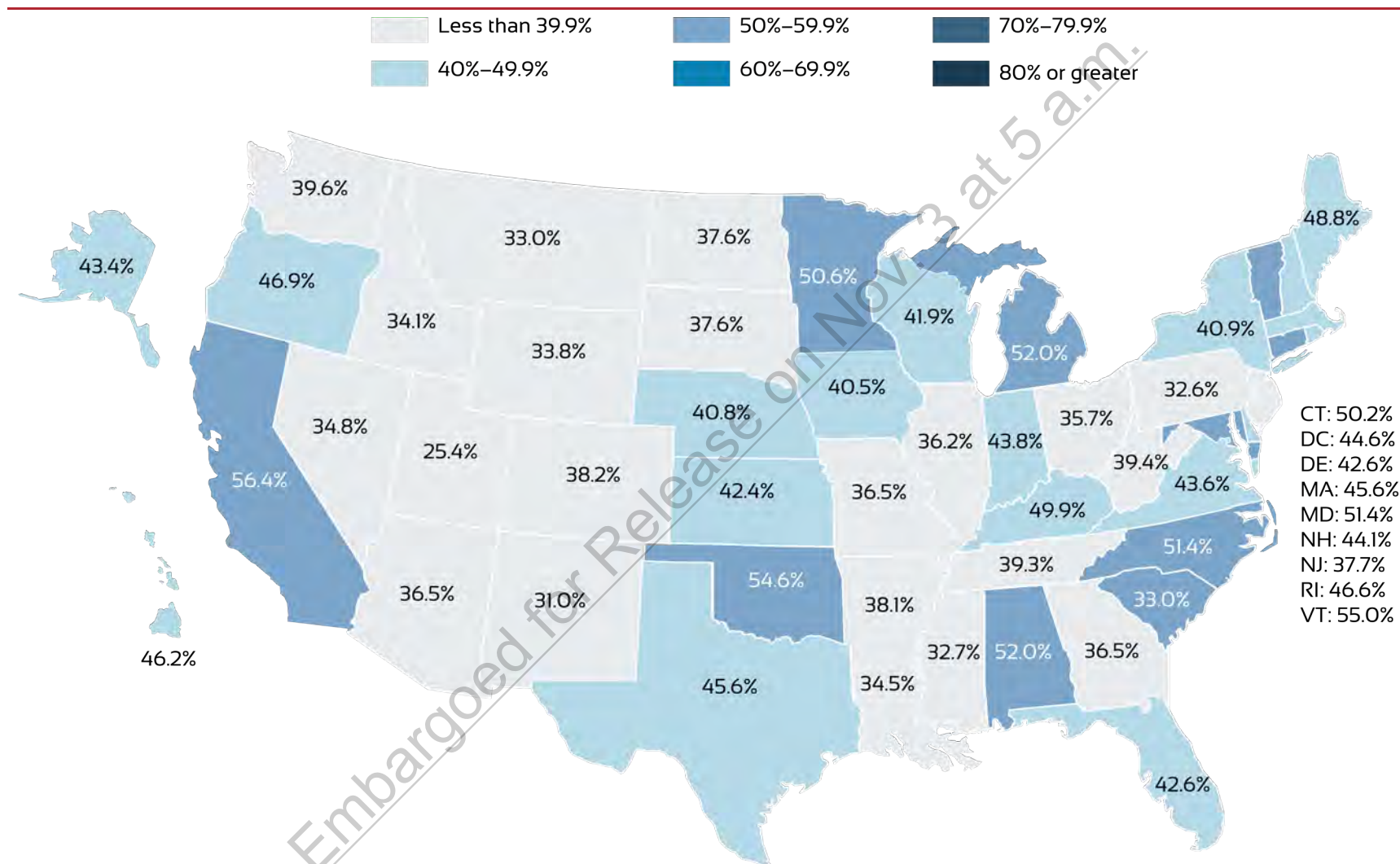


CY = calendar year

Sources: IPUMS-USA, n.d.-b; U.S. Census Bureau, n.d.-a, n.d.-b; FNS, 2023

Figure E.9. WIC Coverage Rate for Pregnant Women by State: CY 2021

National Coverage Rate for Pregnant Women: 43.7 Percent

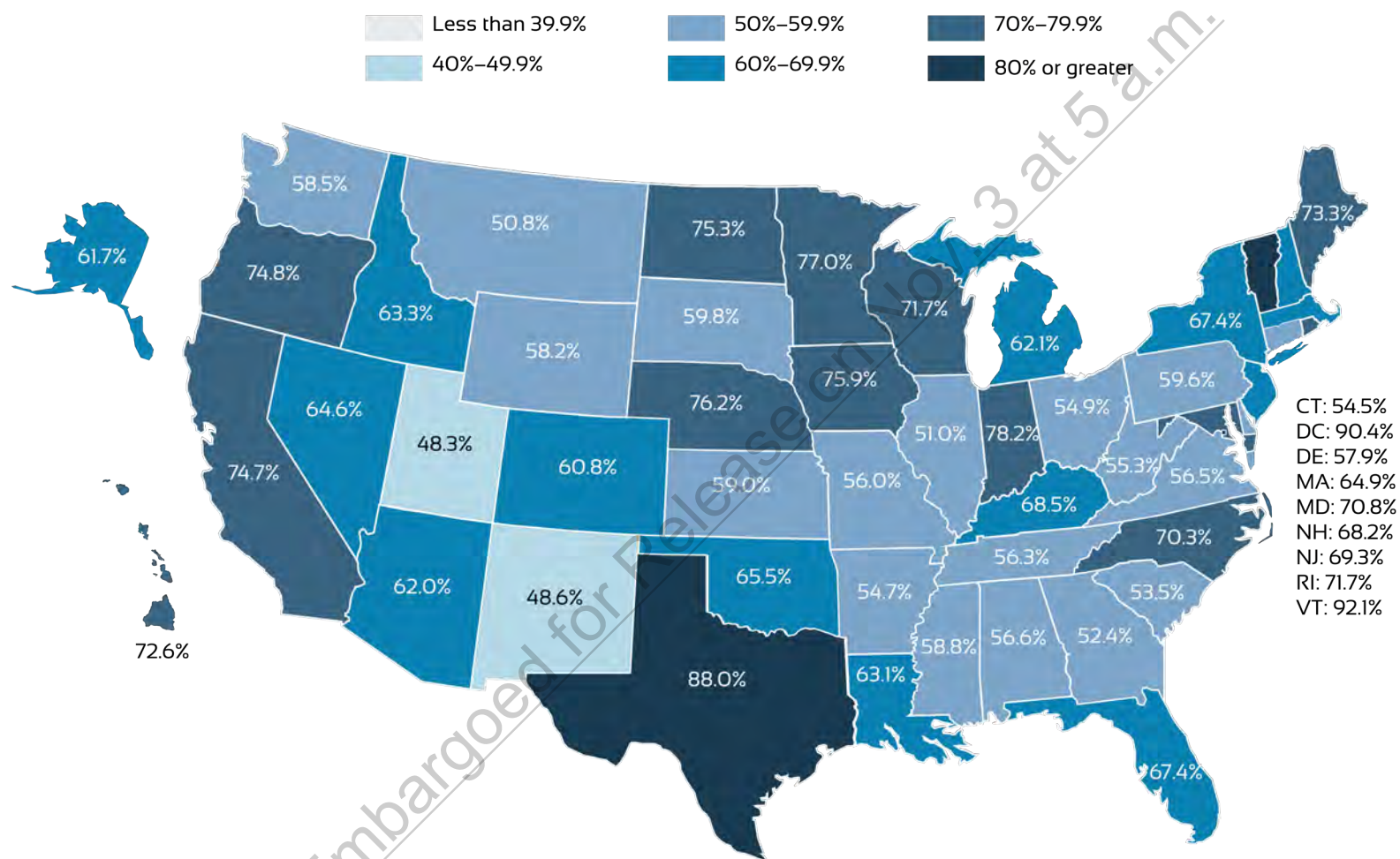


CY = calendar year

Sources: IPUMS-USA, n.d.-b; U.S. Census Bureau, n.d.-a, n.d.-b; FNS, 2023

Figure E.10. WIC Coverage Rate for Postpartum Women by State: CY 2021

National Coverage Rate for Postpartum Women: 67.2 Percent

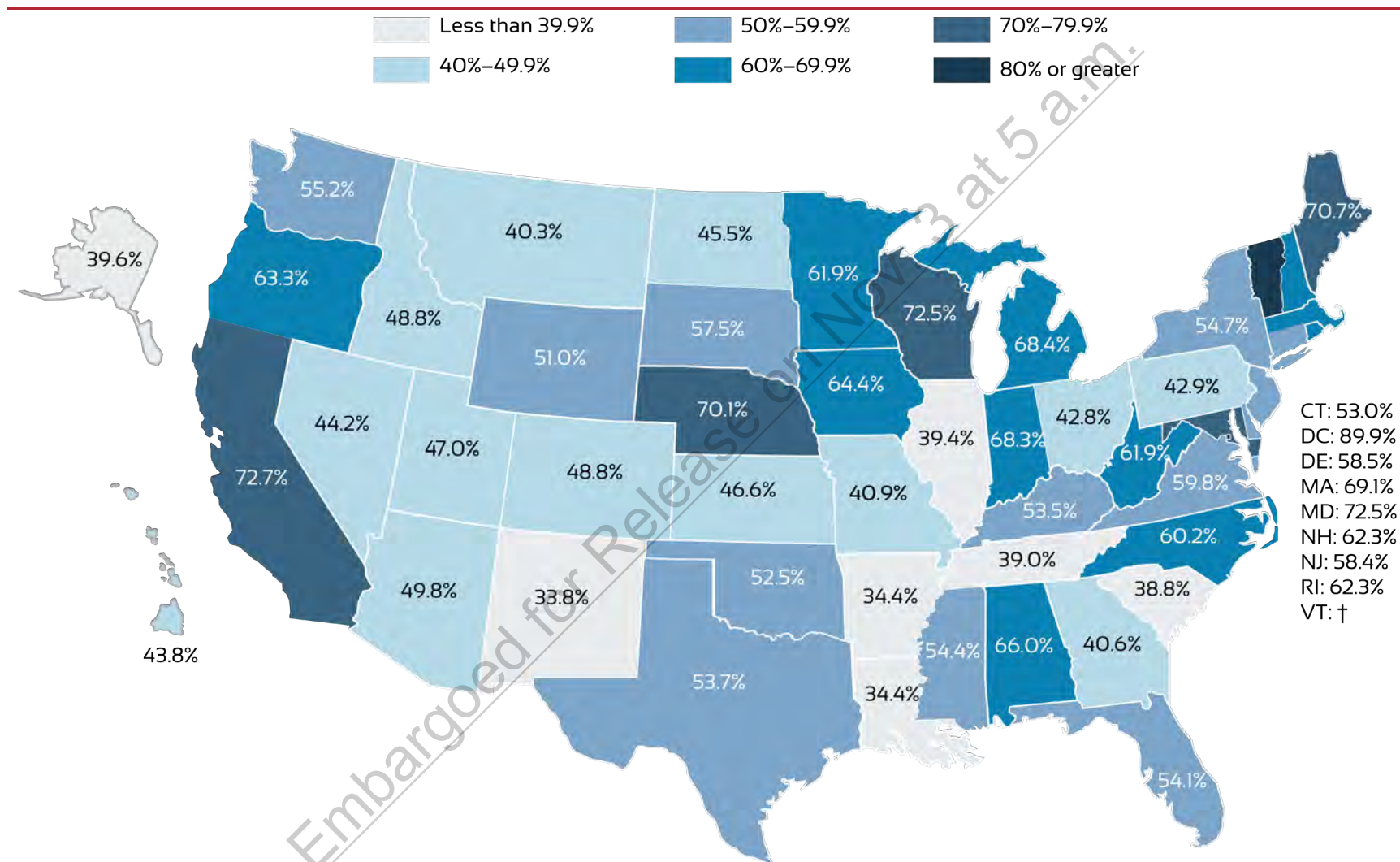


CY = calendar year

Sources: IPUMS-USA, n.d.-b; U.S. Census Bureau, n.d.-a, n.d.-b; FNS, 2023

Figure E.11. WIC Coverage Rate for Hispanic/Latino Individuals by State: CY 2021

National Coverage Rate for Hispanic/Latino Individuals: 58.1 Percent



CY = calendar year

† indicates an unreliable coverage rate over 100 percent

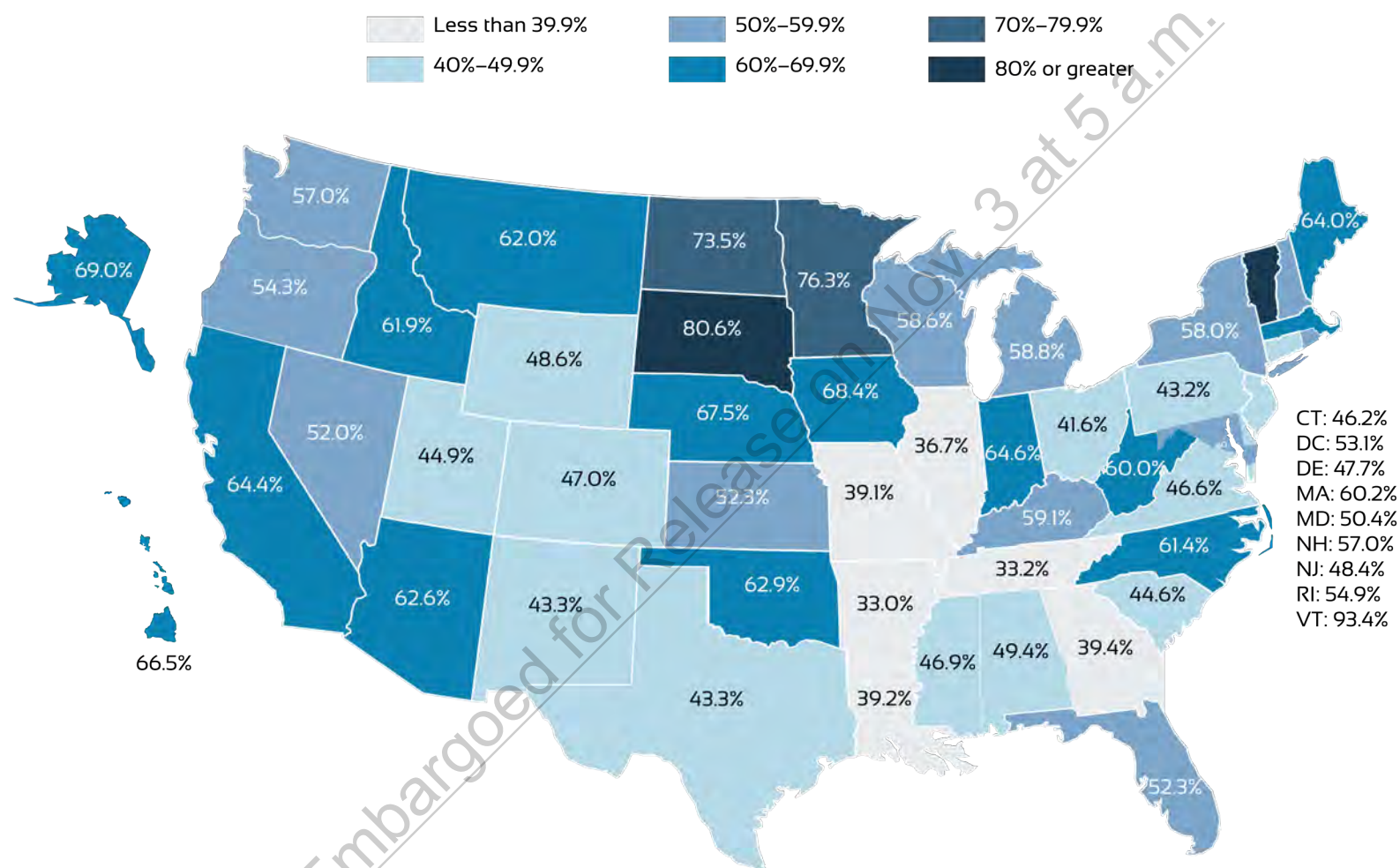
Sources: IPUMS-USA, n.d.-b; Kline et al., 2022; U.S. Census Bureau, n.d.-a; FNS, 2023

National Coverage Rate for White-Only, Non-Hispanic Individuals: 44.2 Percent



Figure E.13. WIC Coverage Rate for Other Than White-Only, Not Hispanic Individuals by State: CY 2021

National Coverage Rate Other Than White-Only, Non-Hispanic Individuals: 50.5 Percent



Note: The "Black-Only, Not Hispanic" and "Two or More Races or Other Race, Not Hispanic" categories were combined because of sample size concerns. This category includes Black-only, non-Hispanic individuals and non-Hispanic individuals who self-identify as two or more races or self-identify as a race other than Black or White.

CY = calendar year

Sources: IPUMS-USA, n.d.-b; Kline et al., 2022; U.S. Census Bureau, n.d.-a; FNS, 2023

Appendix F. Data for Figures in Volumes I and II

This appendix includes the data used for figures and maps presented in this report.

Impact of the COVID-19 Pandemic and Public Health Emergency

The COVID-19 public health emergency influenced WIC program eligibility patterns and WIC program operations. The Families First Coronavirus Response Act authorized FNS to issue waivers to provide flexibilities to help State agencies continue to safely serve WIC participants during the pandemic. States varied in the use of waivers, which could have affected program participation. See

<https://www.fns.usda.gov/disaster/pandemic/covid-19/wic-waivers-flexibilities> for a list of waivers issued to each State. For example, States that waived the physical presence requirement or issued benefits remotely may have seen an increase in WIC participation because of these policies.

Table F.1. Trends in WIC Eligibility by Participant Category: CY 2016–CY 2021

Participant Category	2016	2017	2018	2019	2020	2021
Infants	2,162,700	2,139,130	1,998,988	1,900,491	1,862,033	1,846,394
Children	9,023,248	8,847,389	8,123,987	7,726,475	7,784,680	7,851,014
1-year-old children	2,306,123	2,222,959	2,012,357	1,837,802	1,942,173	1,852,884
2-year-old children	2,284,503	2,304,834	2,043,373	1,916,514	1,916,424	2,051,553
3-year-old children	2,235,416	2,211,684	2,066,549	1,948,148	1,970,726	1,932,072
4-year-old children	2,197,205	2,107,912	2,001,709	2,024,011	1,955,357	2,014,506
Pregnant women	1,287,402	1,221,038	1,144,961	1,091,257	1,103,246	1,128,406
Postpartum women	1,532,362	1,532,105	1,423,761	1,356,486	1,331,757	1,305,482
Breastfeeding women	969,380	978,905	896,644	851,671	833,152	796,911
Non-breastfeeding women	562,982	553,199	527,117	504,816	498,605	508,571
Total	14,005,712	13,739,662	12,691,698	12,074,709	12,081,717	12,131,296

Note: The 2016–2020 estimates presented in this report differ from previously published results because of updates to the underlying estimation methodology. See chapter 6 of volume I for more information.

CY = calendar year

Sources: IPUMS-USA, n.d.-b; U.S. Census Bureau, n.d.-a, n.d.-b

Table F.2. Regional-Level WIC Eligibility by Participant Category: CY 2016–CY 2021

FNS Region		2016	2017	2018	2019	2020	2021
Infants	Northeast	195,571	194,517	182,833	175,528	169,226	162,956
	Mid-Atlantic	233,289	226,104	214,334	207,143	209,911	204,462
	Southeast	464,011	451,608	435,215	417,557	408,359	433,693
	Midwest	318,884	303,629	288,236	289,496	282,534	274,912
	Southwest	351,499	351,157	331,478	372,765	371,978	367,909
	Mountain Plains	160,187	156,823	139,412	105,365	102,428	96,458
	Western	439,260	455,293	407,481	332,637	317,597	306,004
	Total	2,162,700	2,139,130	1,998,988	1,900,491	1,862,033	1,846,394
Children	Northeast	814,155	793,811	727,978	710,436	704,310	707,007
	Mid-Atlantic	1,008,060	978,668	895,931	867,928	875,550	896,476
	Southeast	1,928,171	1,909,225	1,768,559	1,696,497	1,727,544	1,740,291
	Midwest	1,328,270	1,296,289	1,173,190	1,192,302	1,202,216	1,216,543
	Southwest	1,422,010	1,404,750	1,324,407	1,473,218	1,508,930	1,532,537
	Mountain Plains	627,401	624,197	563,229	409,254	410,421	412,096
	Western	1,895,181	1,840,449	1,670,693	1,376,840	1,355,709	1,346,064
	Total	9,023,248	8,847,389	8,123,987	7,726,475	7,784,680	7,851,014
Pregnant women	Northeast	115,986	110,549	104,406	100,288	100,216	99,926
	Mid-Atlantic	142,457	134,488	126,359	122,197	126,381	125,962
	Southeast	282,111	270,641	254,908	245,202	245,693	262,626
	Midwest	191,623	179,006	170,912	169,632	169,381	172,370
	Southwest	206,389	193,643	183,142	209,204	217,731	220,278
	Mountain Plains	94,591	90,284	81,940	60,819	60,560	61,464
	Western	254,245	242,426	223,294	183,914	183,285	185,780
	Total	1,287,402	1,221,038	1,144,961	1,091,257	1,103,246	1,128,406

FNS Region		2016	2017	2018	2019	2020	2021
Postpartum breastfeeding women	Northeast	94,579	93,703	90,084	86,372	83,028	78,529
	Mid-Atlantic	105,515	103,633	103,504	100,069	101,657	94,734
	Southeast	189,501	181,749	175,624	168,666	165,142	165,009
	Midwest	134,848	130,765	119,793	120,423	117,131	109,884
	Southwest	145,896	152,332	132,567	153,117	152,478	144,988
	Mountain Plains	76,886	75,704	63,112	48,136	46,940	43,801
	Western	222,155	241,019	211,959	174,887	166,776	159,967
	Total	969,380	978,905	896,644	851,671	833,152	796,911
Postpartum non-breastfeeding women	Northeast	47,801	48,452	44,653	43,159	42,041	40,836
	Mid-Atlantic	60,299	57,674	52,728	51,208	52,142	52,685
	Southeast	131,162	130,825	125,987	121,556	119,509	132,180
	Midwest	87,713	83,115	80,902	81,857	80,712	80,156
	Southwest	96,374	93,808	95,346	105,777	106,398	109,312
	Mountain Plains	39,150	38,557	36,383	27,485	26,828	25,327
	Western	100,484	100,769	91,119	73,773	70,977	68,075
	Total	562,982	553,199	527,117	504,816	498,605	508,571

Note: The 2016–2020 estimates presented in this report differ from previously published results because of updates to the underlying estimation methodology. See chapter 6 of volume I for more information.

CY = calendar year

Sources: IPUMS-USA, n.d.-b; U.S. Census Bureau, n.d.-a, n.d.-b

Table F.3. WIC Coverage Rates by State and FNS Region and Participant Category: CY 2021

State/FNS Region		Infants	All Children	1-Year-Old Children	2-Year-Old Children	3-Year-Old Children	4-Year-Old Children	Pregnant Women	Postpartum Women	Total
State	Alabama	84.6	39.9	60.7	46.2	35.7	19.2	52.0	56.6	49.8
	Alaska	78.7	44.8	67.0	51.2	44.6	22.7	43.4	61.7	51.3
	Arizona	77.4	46.0	74.8	45.8	41.8	24.4	36.5	62.0	51.7
	Arkansas	73.6	22.6	37.7	21.3	20.2	12.5	38.1	54.7	35.0
	California	82.4	62.8	81.9	63.6	62.2	44.8	56.4	74.7	66.5
	Colorado	68.1	39.0	57.4	41.2	37.7	20.3	38.2	60.8	45.8
	Connecticut	80.2	37.1	51.8	37.6	36.4	21.9	50.2	54.5	46.1
	Delaware	79.5	39.5	53.2	45.9	39.3	19.9	42.6	57.9	47.6
	District of Columbia	90.3	49.0	83.5	61.1	44.5	18.6	44.6	90.4	59.4
	Florida	75.4	40.7	62.7	41.7	37.7	21.2	42.6	67.4	49.1
	Georgia	65.6	32.7	47.7	35.2	34.3	15.3	36.5	52.4	40.4
	Hawaii	86.0	49.4	72.3	51.8	53.9	20.7	46.2	72.6	56.4
	Idaho	73.3	36.7	61.4	36.2	32.0	20.6	34.1	63.3	44.2
	Illinois	71.4	26.4	36.8	27.5	25.0	17.1	36.2	51.0	36.3
	Indiana	87.7	54.0	83.4	55.7	51.2	28.7	43.8	78.2	60.8
	Iowa	83.1	47.3	72.4	51.6	45.4	22.4	40.5	75.9	55.0
	Kansas	76.3	37.6	57.4	38.4	36.0	19.9	42.4	59.0	45.7
	Kentucky	96.3	50.5	79.4	51.8	44.5	30.3	49.9	68.5	59.2
	Louisiana	73.6	23.8	41.5	23.8	20.6	10.5	34.5	63.1	37.2
	Maine	96.3	45.6	59.9	50.7	46.3	26.8	48.8	73.3	54.7
	Maryland	82.6	46.7	67.7	51.6	46.7	23.9	51.4	70.8	55.4
	Massachusetts	74.9	59.4	91.9	57.8	56.8	34.5	45.6	64.9	61.2
	Michigan	86.0	52.8	74.2	57.4	53.3	27.2	52.0	62.1	58.7
	Minnesota	91.9	54.2	75.4	51.6	58.1	34.2	50.6	77.0	61.5
	Mississippi	77.2	38.3	56.7	38.6	38.8	20.8	32.7	58.8	46.6
	Missouri	72.1	29.0	49.4	27.7	25.1	15.8	36.5	56.0	39.5
	Montana	67.5	38.3	57.5	42.2	36.3	20.6	33.0	50.8	43.3

State/FNS Region		Infants	All Children	1-Year-Old Children	2-Year-Old Children	3-Year-Old Children	4-Year-Old Children	Pregnant Women	Postpartum Women	Total
State (continued)	Nebraska	86.0	51.6	75.8	54.4	44.4	34.2	40.8	76.2	58.2
	Nevada	73.1	41.4	63.9	41.3	38.2	22.4	34.8	64.6	48.0
	New Hampshire	79.3	48.1	61.5	62.0	48.6	25.7	44.1	68.2	53.6
	New Jersey	72.0	44.3	69.8	50.1	38.8	20.8	37.7	69.3	50.5
	New Mexico	56.2	27.7	42.5	26.9	25.7	17.8	31.0	48.6	34.6
	New York	76.5	46.3	69.1	47.8	42.7	27.3	40.9	67.4	52.7
	North Carolina	84.1	55.9	85.4	57.2	52.7	31.4	51.4	70.3	61.7
	North Dakota	87.3	45.2	62.0	56.6	34.3	28.9	37.6	75.3	53.2
	Ohio	80.9	27.1	38.8	26.9	26.1	17.7	35.7	54.9	38.9
	Oklahoma	90.3	40.9	57.4	42.2	41.0	24.3	54.6	65.5	51.7
	Oregon	84.9	55.6	89.6	53.0	45.6	36.9	46.9	74.8	61.0
	Pennsylvania	66.1	33.6	58.7	32.7	31.1	15.2	32.6	59.6	41.0
	Rhode Island	88.0	45.2	65.2	54.1	39.0	25.4	46.6	71.7	54.4
	South Carolina	66.6	33.3	56.8	33.7	30.6	13.7	33.0	53.5	40.9
	South Dakota	77.5	49.6	79.9	50.7	33.4	39.8	37.6	59.8	53.9
	Tennessee	73.9	30.5	47.4	32.5	29.1	13.9	39.3	56.3	41.0
	Texas	80.6	36.3	59.5	35.5	34.8	17.1	45.6	88.0	49.6
	Utah	53.0	31.9	48.1	32.4	28.1	19.3	25.4	48.3	36.6
	Vermont	95.8	66.4	85.0	81.4	71.1	35.8	55.0	92.1	71.6
	Virginia	79.5	41.3	59.5	43.5	39.4	25.2	43.6	56.5	48.8
	Washington	64.9	45.5	61.0	43.5	46.2	32.1	39.6	58.5	49.3
	West Virginia	85.0	44.4	73.4	41.4	39.0	28.6	39.4	55.3	51.2
	Wisconsin	83.0	45.1	71.2	42.7	48.0	23.2	41.9	71.7	52.5
	Wyoming	65.5	37.1	58.1	38.3	33.0	20.0	33.8	58.2	43.6

State/FNS Region		Infants	All Children	1-Year-Old Children	2-Year-Old Children	3-Year-Old Children	4-Year-Old Children	Pregnant Women	Postpartum Women	Total
FNS Region	Northeast	77.5	47.8	70.5	49.4	44.9	28.0	43.0	66.5	53.9
	Mid-Atlantic	77.8	44.0	67.8	46.4	41.6	23.1	43.6	66.2	51.4
	Southeast	76.4	40.4	61.9	42.2	38.3	20.8	42.5	61.7	48.7
	Midwest	81.9	40.4	58.9	41.3	39.9	23.0	42.1	63.2	49.0
	Southwest	77.5	35.2	56.7	34.7	33.3	17.6	42.0	75.4	46.7
	Mountain Plains	73.2	37.3	57.6	38.2	33.5	21.2	38.0	60.1	45.2
	Western	79.3	57.6	77.6	57.8	56.5	39.9	50.9	71.5	61.7
	Total	78.0	43.2	64.3	44.2	41.4	24.7	43.7	67.2	51.2

Note: Estimates for the U.S. territories are included in the total but are not shown separately because of small sample sizes. Estimates of State-level coverage rates by year of age for children and other participant categories should be viewed with caution because of the small sample sizes for many States. See appendix B for more details on statistical uncertainty for these estimates. State and regional eligibility estimates and participant data include individuals in ITOs who were eligible for WIC.

CY = calendar year; FNS = Food and Nutrition Service; ITO = Indian Tribal Organization

Sources: IPUMS-USA, n.d.-b; Kline et al., 2022; U.S. Census Bureau, n.d.-a, n.d.-b; FNS, 2023

Table F.4. WIC Coverage Rates by Participant Category: CY 2016–CY 2021

Participant Category	2016	2017	2018	2019	2020	2021
Total	54.2	52.3	53.2	52.3	52.0	51.2
Infants	85.7	82.6	84.4	83.7	82.5	78.0
Children	43.5	41.8	42.6	41.7	42.6	43.2
1-year-old children	59.5	58.2	58.7	59.9	60.0	64.3
2-year-old children	46.1	43.1	45.7	45.4	46.2	44.2
3-year-old children	41.7	39.7	40.4	40.0	39.6	41.4
4-year-old children	26.0	25.5	25.4	23.4	24.8	24.7
Pregnant women	55.0	53.9	53.0	51.1	46.2	43.7
Postpartum women	72.2	68.9	69.9	69.3	69.2	67.2
Breastfeeding women	60.9	58.3	59.9	59.6	60.9	60.8
Non-breastfeeding women	91.6	87.8	86.9	85.5	82.9	77.2

Note: The 2016–2020 estimates presented in this report differ from previously published results because of updates to the underlying estimation methodology. See chapter 6 of volume I for more information.

CY = calendar year

Sources: IPUMS-USA, n.d.-b; Kline et al., 2022; U.S. Census Bureau, n.d.-a, n.d.-b; FNS, 2023

Table F.5. WIC Coverage Rates by FNS Region and Participant Category: CY 2016–CY 2021

FNS Region		2016	2017	2018	2019	2020	2021
All participants	Total	54.2	52.3	53.2	52.3	52.0	51.2
	Northeast	53.9	52.6	54.2	52.0	52.5	53.9
	Mid-Atlantic	56.9	55.2	55.1	54.1	52.7	51.4
	Southeast	51.3	50.0	50.6	49.5	50.2	48.7
	Midwest	50.7	50.1	51.8	51.6	51.4	49.0
	Southwest	54.8	52.6	50.7	50.1	48.2	46.7
	Mountain Plains	48.6	47.3	50.3	49.0	47.1	45.2
	Western	59.9	56.0	58.4	58.5	59.9	61.7
Infants	Total	85.7	82.6	84.4	83.7	82.5	78.0
	Northeast	80.5	77.9	79.7	78.0	78.5	77.5
	Mid-Atlantic	90.7	87.8	87.5	85.9	80.5	77.8
	Southeast	84.3	84.4	86.4	85.6	86.0	76.4
	Midwest	88.4	88.9	89.8	89.2	88.8	81.9
	Southwest	88.9	84.4	83.3	82.9	80.9	77.5
	Mountain Plains	76.3	74.0	79.9	76.6	75.1	73.2
	Western	85.8	77.7	81.4	81.4	80.3	79.3
Children	Total	43.5	41.8	42.6	41.7	42.6	43.2
	Northeast	45.3	44.1	45.8	43.9	45.3	47.8
	Mid-Atlantic	46.7	45.2	45.1	44.4	44.7	44.0
	Southeast	39.6	37.9	38.1	37.2	39.1	40.4
	Midwest	39.3	38.4	40.3	40.2	41.1	40.4
	Southwest	41.2	39.6	37.4	37.1	35.8	35.2
	Mountain Plains	39.3	38.2	40.4	39.8	38.5	37.3
	Western	51.1	48.6	51.0	51.3	54.3	57.6

FNS Region		2016	2017	2018	2019	2020	2021
Pregnant women	Total	55.0	53.9	53.0	51.1	46.2	43.7
	Northeast	52.6	51.7	50.7	49.1	42.7	43.0
	Mid-Atlantic	58.5	57.3	55.3	52.2	44.2	43.6
	Southeast	53.0	53.4	54.5	51.9	47.8	42.5
	Midwest	52.1	51.7	49.5	49.7	45.3	42.1
	Southwest	57.1	56.2	52.4	49.0	44.0	42.0
	Mountain Plains	47.5	46.9	48.1	47.1	41.5	38.0
	Western	59.5	55.9	55.8	55.4	52.4	50.9
Postpartum women	Total	72.2	68.9	69.9	69.3	69.2	67.2
	Northeast	67.9	66.0	67.3	63.8	65.2	66.5
	Mid-Atlantic	70.2	68.6	67.8	68.1	67.1	66.2
	Southeast	72.1	71.0	68.5	67.5	68.0	61.7
	Midwest	63.4	64.4	66.2	66.6	65.9	63.2
	Southwest	83.4	78.5	78.9	77.6	77.1	75.4
	Mountain Plains	62.1	60.6	66.5	62.1	61.0	60.1
	Western	76.4	67.1	70.2	70.4	70.6	71.5

Note: The 2016–2020 estimates presented in this report differ from previously published results because of updates to the underlying estimation methodology. See chapter 6 of volume I for more information.

CY = calendar year

Sources: IPUMS-USA, n.d.-b; U.S. Census Bureau, n.d.-a, n.d.-b; FNS, 2023

Table F.6. WIC Eligibility, Participants, and Coverage Rates by Participant Category and by Race and Hispanic Ethnicity: CY 2021

Participant Category		Hispanic/ Latino	White-Only, Not Hispanic	Black-Only, Not Hispanic	Two or More Races or Other Race, Not Hispanic	Total
Number eligible	Infants	662,446	615,340	428,732	135,042	1,841,560
	Children	2,874,347	2,553,989	1,701,633	702,330	7,832,299
	Pregnant women	375,744	422,378	230,533	96,469	1,125,124
	Postpartum women	475,324	439,352	290,691	96,850	1,302,217
	Total	4,387,861	4,031,059	2,651,588	1,030,690	12,101,199
Number participating	Infants	554,744	412,899	329,020	140,742	1,437,405
	Children	1,455,871	937,387	658,831	334,419	3,386,509
	Pregnant women	190,982	164,455	101,863	34,303	491,603
	Postpartum women	348,021	266,777	195,911	64,139	874,848
	Total	2,549,618	1,781,517	1,285,626	573,604	6,190,365
Coverage rate	Infants	83.7	67.1*	76.7	†	78.1
	Children	50.7*	36.7*	38.7*	47.6	43.2
	Pregnant women	50.8*	38.9*	44.2	35.6*	43.7
	Postpartum women	73.2	60.7	67.4	66.2	67.2
	Total	58.1*	44.2*	48.5*	55.7	51.2

Note: Estimates for U.S. territories other than Puerto Rico are not included in the calculation of the coverage rates in this table because information on race and ethnicity was not available for the other U.S. territories in the data.

CY = calendar year

* indicates a statistically significant difference at the 95 percent confidence level between the coverage rate for a participant category's race/ethnicity and the national coverage rate for that category

† indicates an unreliable coverage rate over 100 percent

Sources: IPUMS-USA, n.d.-b; Kline et al., 2022; U.S. Census Bureau, n.d.-a; FNS, 2023

Table F.7. State-Level WIC Coverage Rates by Race and Hispanic Ethnicity: CY 2021

State	Hispanic/Latino	White-Only, Not Hispanic	Other Than White-Only, Not Hispanic ^a	Total
Alabama	66.0	46.2	49.4	49.8
Alaska	39.6	33.8*	69.0	51.3
Arizona	49.8*	48.4*	62.6	51.7
Arkansas	34.4*	36.6*	33.0*	35.0*
California	72.7*	39.3*	64.4*	66.5*
Colorado	48.8*	41.3	47.0	45.8*
Connecticut	53.0*	33.4*	46.2	46.1*
Delaware	58.5	39.5	47.7	47.6
District of Columbia	89.9*	52.4	53.1	59.4*
Florida	54.1*	38.4*	52.3	49.1*
Georgia	40.6*	42.4	39.4*	40.4*
Hawaii	43.8*	37.0	66.5	56.4
Idaho	48.8*	40.5	61.9	44.2*
Illinois	39.4*	32.5*	36.7*	36.3*
Indiana	68.3*	56.8*	64.6*	60.8*
Iowa	64.4	48.0	68.4*	55.0*
Kansas	46.6*	42.5	52.3	45.7*
Kentucky	53.5	59.9*	59.1	59.2*
Louisiana	34.4*	34.6*	39.2*	37.2*
Maine	70.7	52.1*	64.0	54.7
Maryland	72.5*	45.8	50.4	55.4*
Massachusetts	69.1*	51.9*	60.2*	61.2*
Michigan	68.4*	56.6*	58.8*	58.7*
Minnesota	61.9	49.5*	76.3*	61.5*
Mississippi	54.4	44.8	46.9*	46.6*
Missouri	40.9*	39.4*	39.1*	39.5*
Montana	40.3	38.3*	62.0	43.3*
Nebraska	70.1	46.5	67.5	58.2*
Nevada	44.2*	53.8*	52.0	48.0
New Hampshire	62.3	51.4*	57.0	53.6
New Jersey	58.4	39.4*	48.4	50.5
New Mexico	33.8*	31.8*	43.3	34.6*
New York	54.7*	45.0	58.0*	52.7
North Carolina	60.2	63.1*	61.4*	61.7*
North Dakota	45.5	42.5	73.5	53.2
Ohio	42.8*	36.5*	41.6*	38.9*
Oklahoma	52.5*	43.3	62.9	51.7
Oregon	63.3	61.3*	54.3	61.0*
Pennsylvania	42.9*	38.5*	43.2*	41.0*

State	Hispanic/Latino	White-Only, Not Hispanic	Other Than White-Only, Not Hispanic ^a	Total
Rhode Island	62.3	40.9	54.9	54.4
South Carolina	38.8*	36.8*	44.6*	40.9*
South Dakota	57.5	36.1*	80.6	53.9
Tennessee	39.0*	47.8*	33.2*	41.0*
Texas	53.7*	42.0	43.3*	49.6*
Utah	47.0*	30.2*	44.9	36.6*
Vermont	†	66.5*	93.4*	71.6*
Virginia	59.8	44.6	46.6	48.8
Washington	55.2	40.8*	57.0	49.3
West Virginia	61.9	49.8*	60.0	51.2
Wisconsin	72.5*	41.5	58.6	52.5
Wyoming	51.0	40.5	48.6	43.6*
Total	58.1	44.2	50.5	51.2

Note: Estimates for Puerto Rico are included in the totals but not shown separately because of small sample sizes. Estimates for U.S. territories other than Puerto Rico are not included in the calculation of the coverage rates in this table because information on race and ethnicity was not available for the other U.S. territories in the data.

CY = calendar year

* indicates a statistically significant difference at the 95 percent confidence level between the State coverage rate for a participant category's race and ethnicity and the national coverage rate for that category

† indicates an unreliable coverage rate over 100 percent

^a This category includes non-Hispanic individuals who self-identify as two or more races or self-identify as a race other than White. These categories were combined because of sample size concerns.

Sources: IPUMS-USA, n.d.-b; Kline et al., 2022; U.S. Census Bureau, n.d.-a; FNS, 2023

Table F.8. WIC Eligibility, Participants, and Coverage Rates by FNS Region and Participant Category: CY 2021

FNS Region		Infants	Children	Pregnant Women	Postpartum Women	Total
Number eligible	Northeast	162,956	707,007	99,926	119,365	1,089,254
	Mid-Atlantic	204,462	896,476	125,962	147,419	1,374,319
	Southeast	433,693	1,740,291	262,626	297,188	2,733,798
	Midwest	274,912	1,216,543	172,370	190,040	1,853,865
	Southwest	367,909	1,532,537	220,278	254,300	2,375,024
	Mountain Plains	96,458	412,096	61,464	69,128	639,146
	Western	306,004	1,346,064	185,780	228,041	2,065,890
	Total	1,846,394	7,851,014	1,128,406	1,305,482	12,131,296
Number participating	Northeast	126,302	337,984	42,985	79,427	586,698
	Mid-Atlantic	159,157	394,658	54,887	97,586	706,288
	Southeast	331,156	703,815	111,706	183,444	1,330,121
	Midwest	225,211	490,943	72,567	120,047	908,768
	Southwest	285,257	539,086	92,507	191,760	1,108,609
	Mountain Plains	70,606	153,577	23,346	41,538	289,067
	Western	242,595	775,424	94,564	163,009	1,275,592
	Total	1,440,283	3,395,487	492,562	876,811	6,205,143
Coverage rate	Northeast	77.5	47.8*	43.0	66.5	53.9*
	Mid-Atlantic	77.8	44.0	43.6	66.2	51.4
	Southeast	76.4	40.4*	42.5	61.7*	48.7*
	Midwest	81.9	40.4*	42.1*	63.2	49.0*
	Southwest	77.5	35.2*	42.0*	75.4*	46.7*
	Mountain Plains	73.2	37.3*	38.0*	60.1*	45.2*
	Western	79.3	57.6*	50.9*	71.5	61.7*
	Total	78.0	43.2	43.7	67.2	51.2

Note: Regional eligibility estimates and participant data include individuals in ITOs who were eligible for WIC or receiving WIC.

CY = calendar year; FNS = Food and Nutrition Service; ITO = Indian Tribal Organization

* indicates a statistically significant difference between the regional coverage rate and the national coverage rate at the 95 percent confidence level

Sources: IPUMS-USA, n.d.-b; U.S. Census Bureau, n.d.-a, n.d.-b; FNS, 2023

Table F.9. WIC Coverage Rates by Participant Category and Race and Hispanic Ethnicity With Coefficients of Variation: CY 2021

Participant Category	Hispanic/Latino		White-Only, Not Hispanic		Black-Only, Not Hispanic		Two or More Races or Other Race, Not Hispanic		Total	
	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)	Rate	COV (%)
Infants	83.7	4.6	67.1	6.8	76.7	9.3	†	15.4	78.1	3.8
Children	50.7	2.1	36.7	2.8	38.7	3.3	47.6	6.1	43.2	1.4
Pregnant women	50.8	1.4	38.9	1.7	44.2	1.8	35.6	3.3	43.7	0.9
Postpartum women	73.2	4.7	60.7	6.8	67.4	9.3	66.2	15.4	67.2	3.7
Total	58.1	2.0	44.2	2.6	48.5	2.3	55.7	5.8	51.2	1.3

Note: Estimates for U.S. territories other than Puerto Rico are not included in the calculation of the coverage rates in this table because information on race and ethnicity was not available for the other U.S. territories in the data. The coefficient of variation is defined as the ratio of the standard error to the eligibility estimate. This table does not include estimates for the U.S. territories other than Puerto Rico.

† indicates an unreliable coverage rate over 100 percent

COV = coefficient of variation; CY = calendar year

Sources: IPUMS-USA, n.d.-b; Kline et al., 2022; U.S. Census Bureau, n.d.-a; FNS, 2023