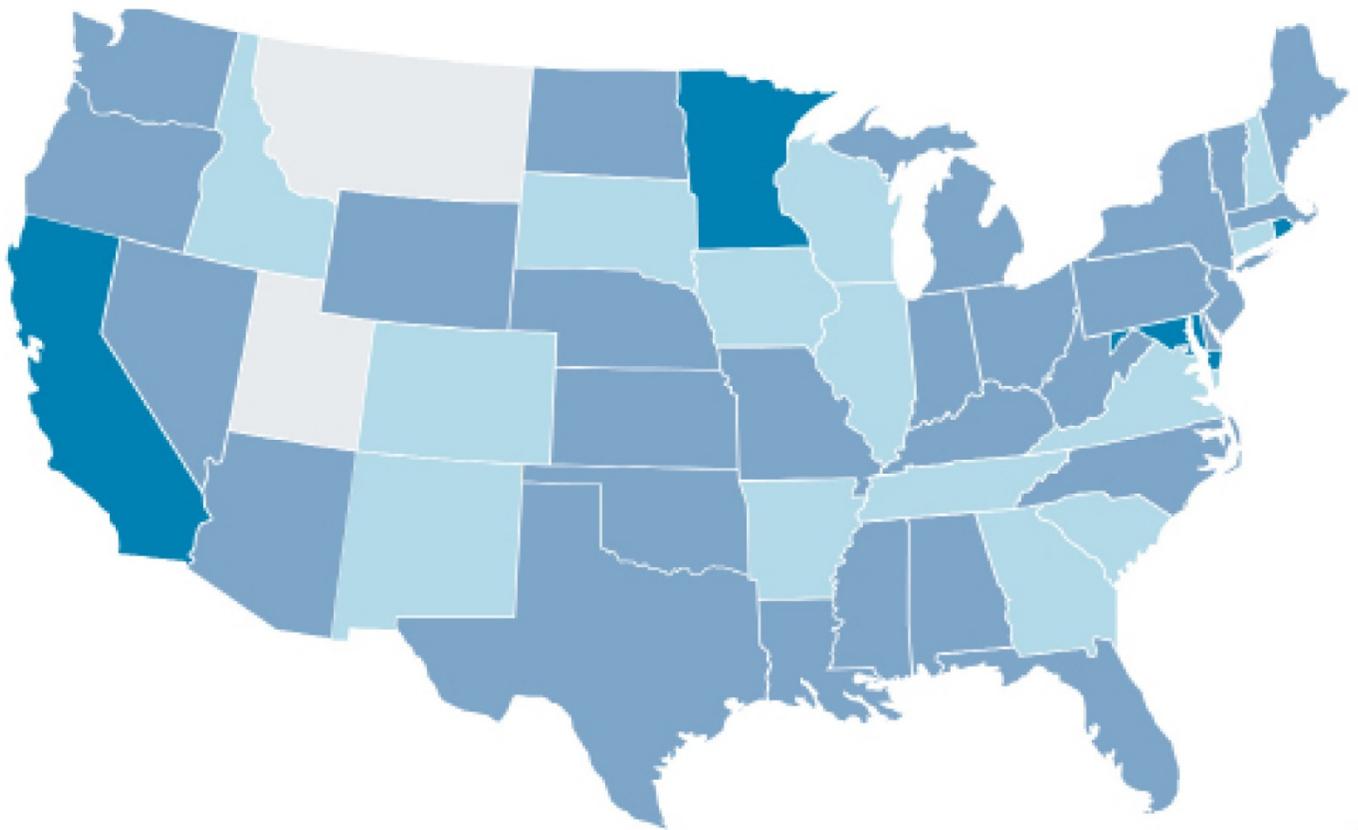




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National- and State-Level Estimates of WIC Eligibility and WIC Program Reach in 2017



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Authors

Kelsey Gray, Carole Trippe, Chrystine Tadler, and Clay Perry (Insight Policy Research)
Paul Johnson (Urban Institute)
David Betson (University of Notre Dame)

Submitted to

USDA Food and Nutrition Service
Contracts Management Division
3101 Park Center Drive
Alexandria, VA 22302

Project Officer

Grant Lovellette

Submitted by

Insight Policy Research, Inc.
1901 North Moore Street
Suite 1100
Arlington, VA 22209

Project Director

Carole Trippe

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Appendix A. Detailed Tables for National WIC Estimates: CY 2017

The tables in appendix A present detailed information on the 2017 national-level estimates of eligibility for the Special Supplemental Nutrition Program for Women, Infants, and Children (WIC) 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 of the tables include the same information provided in volume I. These tables are repeated to provide a comprehensive record of all methods and estimates for 2017. Unless otherwise indicated, all the tables that show national data provide information for individuals in the 50 States, the District of Columbia, and Puerto Rico and the other four U.S. territories served by WIC. A description of each table follows.

Table A.1. Steps, Data Sources, Methods, and Adjustment Factors Used for 2017 Estimates of WIC Eligibility

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 2017 estimates: (1) 2018 Current Population Survey Annual Social and Economic Supplement (CPS-ASEC) data (National Bureau of Economic Research [NBER], n.d.b); (2) 2017 American Community Survey (ACS) and Puerto Rico Community Survey (PRCS) data (The Integrated Public Use Microdata Series-USA [IPUMS-USA], n.d.); (3) 2017 U.S. Census Bureau International Data Base (IDB) data (U.S. Census Bureau, n.d.c); and (4) 2014–2017 National Vital Statistics data (National Center for Health Statistics, n.d.).¹

Table A.2. Estimated Average Monthly Number of Individuals Eligible for WIC by Participant Category: CY 2017

This table shows the estimated average monthly number of individuals eligible for WIC by participant category in calendar year (CY) 2017 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, which is defined as the percentage of the total population in each category that is estimated to be eligible for WIC.

Table A.3a. Four-Year Accumulations of U.S. Census Bureau Estimates and CPS-ASEC Estimates for Infants and Children by Year of Age, Race, and Gender: March 2015–March 2018

This table provides more detail on the adjustment of sampling weights for infants and children in the CPS-ASEC data (as referenced in the second row of table A.1 (NBER, n.d.b). For each year of age (ages 0, 1, 2, 3, and 4) and each of four race and ethnicity groups (White-Only Non-Hispanic, Black-Only Non-Hispanic, Other Non-Hispanic, and Hispanic), the table shows the 4-year accumulation of U.S. Census Bureau population estimates (U.S. Census Bureau, n.d.a); the 4-year accumulation of the March CPS-ASEC total weighted population (NBER, n.d.b); and the ratio of those two figures. That ratio was used as the weight adjustment when the direction of the difference between the March 2018 Census Bureau population estimate and the CPS weighted count (see table A.3b) was the same as for the 4-year accumulations (i.e., if the 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).

¹ The following terms are used in table A.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 A.3b. U.S. Census Bureau Estimates and CPS-ASEC Estimates for Infants and Children by Year of Age, Race, and Gender: March 2018

This table shows the Census Bureau population estimates and CPS weighted population figures by year of age, race, and gender, and the ratio of Census Bureau estimates to CPS figures, for March 2018 (U.S. Census Bureau, n.d.a; NBER, n.d.b; see the description of table A.3a for an explanation of how this information was used in the weight-adjustment process.)

Table A.3c. Effects of Applying Population Adjustment Factors to Population Counts for Infants and Children in the 2018 CPS-ASEC by Year of Age, Race, and Gender

This table shows the results of applying the population adjustment factors (computed based on the information in tables A.3a and A.3b) to the weights for infants and children in the March CPS-ASEC data.

Table A.4. Breastfeeding Adjustment Factor Calculations for Postpartum Women Eligible for WIC: CY 2005–CY 2017

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 ethnicity.

The next section of the table shows three adjustment factors. The first factor adjusted for the fact that the number of pregnant and postpartum women can differ from the number of infants because of the combined impact of multiple births and infant deaths (see appendix E for an explanation of the updated and expanded factor for the 2017 estimates). The second factor adjusted for the fact that (prior to 2014) the analysis assumed some breastfeeding mothers lost eligibility at the 6-month point because they were no longer income-eligible or adjunctively eligible; this factor changed gradually from 0.94 in 2005 to 1.0 for 2014 through 2017. The final factor was used to estimate average monthly breastfeeding rates; that is, the average monthly rate across the first 6 months was assumed to be equal to the mean of the ever-breastfed and 6-month rates multiplied by this factor. This factor, 0.87, was assumed to be constant across the period.

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 women in 2017, the estimated average monthly number of women eligible for WIC as breastfeeding mothers was computed as 0.504 times the estimated number of Hispanic infants eligible for WIC.

Table A.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 2017

This table shows the step-by-step adjustments made from the total number of infants and children to the final numbers of infants, children, and pregnant and postpartum women that were eligible for WIC in the United States in 2017; it also shows the total number eligible in Puerto Rico and each of the other four U.S. territories served by WIC. See tables B.7a and B.7b for the step-by-step adjustments made to derive the total number of individuals eligible for WIC in Puerto Rico and each of the other territories, respectively.

Tables A.6a and A.6b. Estimated Average Monthly Numbers of Infants, and Children by Year of Age, Eligible for WIC by Demographic and Income Characteristics and Adjunctive Eligibility: CY 2017

These tables show the estimates of infants and children eligible for WIC by demographic and income characteristics in the March 2018 CPS-ASEC. Note that these tables do not include infants and children in Puerto Rico and the other U.S. territories. Tables A.6a1 and A.6a2 show the characteristics of infants and children eligible for WIC in the data as determined by using unadjusted person weights, and tables A.6b1 and A.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 A.6a and table A.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 A.6a1 and A.6b1) and percentages (see tables A.6a2 and A.6b2). For example, A.6b1 shows that with the adjusted weights, 1.2 million male infants and 1.0 million female infants were eligible for WIC in March 2018; A.6b2 shows that among infants eligible for WIC, 53.2 percent were male, and 46.8 percent were female.

Table A.7. Changes in the Total Population, Total Number of Individuals Eligible for WIC, and WIC Eligibility Rate by Participant Category: CY 2015–CY 2017

This table shows the changes in the numbers of individuals in the total population and the population eligible for WIC by participant category, and the WIC eligibility rate, between 2015 and 2017.

Table A.8. Stepwise Comparison of Changes in Average Monthly Numbers of Infants and Children Eligible for WIC as Estimated in the March CPS-ASEC: CY 2015–CY 2017

This table shows the step-by-step percentage changes in the numbers of infants and children from 2015 to 2017 (excluding Puerto Rico and the other U.S. territories). For example, it shows that the number of infants and children eligible for WIC through adjunctive eligibility increased by 1.9 percent between 2015 and 2017.

Table A.9. Standard Error and Coefficient of Variation for Estimates by Participant Category: CY 2017

This table shows the standard error of the estimate and coefficient of variance 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 A.1. Steps, Data Sources, Methods, and Adjustment Factors Used for 2017 Estimates of WIC Eligibility

Step	Data Source(s)	Methods and Adjustment Factors	
Infants and Children			
Demographic eligibility	<ul style="list-style-type: none"> ● 2018 CPS-ASEC, National estimates ● 2017 ACS, State estimates ● 2017 PRCS, Puerto Rico estimates ● 2017 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"> – Postcensal population estimates from Census Bureau and March CPS-ASEC for 2015, 2016, 2017, and 2018 ● State and Puerto Rico estimates <ul style="list-style-type: none"> – Postcensal population estimates from U.S. Census Bureau for July 2017 	Adjust sampling weights to account for undercount or overcount in CPS estimates relative to U.S. Census Bureau estimates by year of age, gender, and four race/ethnic categories (White-Only Non-Hispanic, Black-Only Non-Hispanic, Other Non-Hispanic, and Hispanic).	
		Adjustment Factors for Females	Adjustment Factors for Males
		<ul style="list-style-type: none"> ● Infants <ul style="list-style-type: none"> – White-Only Non-Hispanic: 1.005 – Black-Only Non-Hispanic: 1.103 – Other Non-Hispanic: 1.125 – Hispanic: 1.018 ● Children aged 1 <ul style="list-style-type: none"> – White-Only Non-Hispanic: 1.008 – Black-Only Non-Hispanic: 0.879 – Other Non-Hispanic: 0.890 – Hispanic: 0.975 ● Children aged 2 <ul style="list-style-type: none"> – White-Only Non-Hispanic: 1.012 – Black-Only Non-Hispanic: 1.000 – Other Non-Hispanic: 1.000 – Hispanic: 1.000 ● Children aged 3 <ul style="list-style-type: none"> – White-Only Non-Hispanic: 1.016 – Black-Only Non-Hispanic: 0.932 – Other Non-Hispanic: 0.919 – Hispanic: 1.000 ● Children aged 4 <ul style="list-style-type: none"> – White-Only Non-Hispanic: 1.012 – Black-Only Non-Hispanic: 1.031 – Other Non-Hispanic: 0.990 – Hispanic: 1.013 	<ul style="list-style-type: none"> ● Infants <ul style="list-style-type: none"> – White-Only Non-Hispanic: 1.007 – Black-Only Non-Hispanic: 1.118 – Other Non-Hispanic: 0.979 – Hispanic: 1.000 ● Children aged 1 <ul style="list-style-type: none"> – White-Only Non-Hispanic: 1.002 – Black-Only Non-Hispanic: 0.876 – Other Non-Hispanic: 0.985 – Hispanic: 1.007 ● Children aged 2 <ul style="list-style-type: none"> – White-Only Non-Hispanic: 1.000 – Black-Only Non-Hispanic: 1.000 – Other Non-Hispanic: 0.992 – Hispanic: 0.984 ● Children aged 3 <ul style="list-style-type: none"> – White-Only Non-Hispanic: 1.004 – Black-Only Non-Hispanic: 1.004 – Other Non-Hispanic: 1.000 – Hispanic: 1.000 ● Children aged 4 <ul style="list-style-type: none"> – White-Only Non-Hispanic: 1.000 – Black-Only Non-Hispanic: 1.000 – Other Non-Hispanic: 1.000 – Hispanic: 1.000

Step	Data Source(s)	Methods and Adjustment Factors
Income eligibility	<ul style="list-style-type: none"> ● 2018 CPS-ASEC, National estimates ● 2017 ACS, State estimates ● 2017 PRCS, Puerto Rico estimates ● 2017 IDB, Other island territories estimates ● Blended 2016 and 2017 FPGs 	Count as eligible if prior year's annual income was ≤ 185 percent of the Federal Poverty Guidelines.
Adjunctive eligibility	<ul style="list-style-type: none"> ● 2018 CPS-ASEC ● 2017 ACS ● 2017 PRCS 	Add in as eligible those infants and children in families who reported participating in Medicaid, SNAP, or TANF at any point during the prior calendar year.
Adjust for fluctuations in monthly income and certification periods	Average of factors for 2010, 2011, and 2012, as computed from 2008 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): 1.14 ● Infants adjustment factors by race and ethnicity (used for estimates from CPS-ASEC and ACS data) <ul style="list-style-type: none"> – White-Only Non-Hispanic: 1.20 – All others: 1.07 ● Children adjustment factor assuming 12-month certification periods (used for estimates from PRCS and IDB data): 1.05 ● Children adjustment factors by race and ethnicity (used for estimates from CPS-ASEC data) <ul style="list-style-type: none"> – White-Only Non-Hispanic: 1.09 – All others: 1.03
Adjust for nutritional risk	Committee on National Statistics (CNSTAT) panel	Multiply infant and child estimates by factor to account for otherwise eligible infants and children who might not be at nutritional risk. <ul style="list-style-type: none"> ● Adjustment factors <ul style="list-style-type: none"> – Infants: 0.97 – Children: 0.99
Pregnant and 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 3 years of most recent CDC National Vital Statistics data (i.e., 2015-2017 Births: Final Data, 2014-2016 Period Linked Birth – Infant Death Data Files, and 2014 – 2016 Fetal Death Data Files)	Multiply by factor to account for impact of multiple births and infant deaths (so the number of pregnant women/mothers is not exactly equal to the number of infants). <ul style="list-style-type: none"> ● Adjustment factors <ul style="list-style-type: none"> – White-Only Non-Hispanic: 0.9911 – Black-Only Non-Hispanic: 1.0019 – Other Non-Hispanic: 0.9944 – Hispanic: 0.9977

Step	Data Source(s)	Methods and Adjustment Factors
For pregnant women: Adjust for length of pregnancy and income during pregnancy	2001, 2004, and 2008 panels of Survey of Income and Program Participation data	Multiply by combined factor to account for (1) 9 months of pregnancy (0.75 factor) and (2) lower likelihood of financial eligibility during pregnancy versus after birth (0.9 factor). Combined adjustment factor: 0.675
For postpartum women: Adjust for breastfeeding status	CDC NIS breastfeeding rates computed for 2015 birth cohort (NIS survey years 2016 and 2017)	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. <ul style="list-style-type: none"> ● Breastfeeding (used for estimates from PRCS and IDB data): 0.462 ● Breastfeeding by race and ethnicity (used for estimates from CPS-ASEC) <ul style="list-style-type: none"> – White-Only Non-Hispanic: 0.457 – Black-Only Non-Hispanic: 0.389 – Other Non-Hispanic: 0.466 – Hispanic: 0.504 ● Non-breastfeeding (used for estimates from PRCS and IDB data): 0.228 ● Non-breastfeeding by race and ethnicity (used for estimates from CPS-ASEC) <ul style="list-style-type: none"> – White-Only Non-Hispanic: 0.231 – Black-Only Non-Hispanic: 0.268 – Other Non-Hispanic: 0.228 – Hispanic: 0.205
Adjust for nutritional risk	CNSTAT panel	Multiply estimates for pregnant and postpartum women by factor to account for some otherwise eligible women who may not have been at nutritional risk. The estimates assume all postpartum women were at nutritional risk. Adjustment factors: Pregnant women: 0.97; Postpartum women: 1.0

Notes

^a An adjustment factor for the total number of children (1.04) was also calculated but not used for any adjustment. The separate adjustment factors by race and ethnicity were used for the estimates. The data sources listed in this table are as follows, in order of mention: for 2018 CPS-ASEC data, see NBER, n.d.b; for 2017 ACS and PRCS data, see IPUMS-USA, n.d.; for 2017 IDB data, see U.S. Census Bureau, n.d.c; for March 2015, 2016, 2017, 2018 CPS-ASEC data, see NBER, n.d.b; for July 2017 postcensal population estimate data, see U.S. Census Bureau, n.d.b, n.d.e; for 2016/2017 and 2017/2018 Federal Poverty Guidelines data, see Special Supplemental Nutrition Program for Women, Infants and Children (WIC): Income Eligibility Guidelines, 2016, 2017; for 2014–2017 National Vital Statistics data, see National Center for Health Statistics, n.d.; for 2001, 2004, 2008 Survey of Income and Program Participation panel data, see U.S. Census Bureau, n.d.e; for the Committee on National Statistics panel data, see Ver Ploeg & Betson, 2003. 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; as a result of differences in breastfeeding rates, adjustment factors differed for mothers eligible for WIC and the total population of mothers.

Table A.2. Estimated Average Monthly Number of Individuals Eligible for WIC by Participant Category: CY 2017

Participant Category	Number Eligible	Percent of Total Eligible	Total Population	Eligibility Rate
Infants	2,227,965	15.8	3,959,629	56.3
Children aged 1–4	8,859,001	63.0	16,133,557	54.9
Children aged 1	2,250,293	16.0	3,983,480	56.5
Children aged 2	2,268,129	16.1	4,046,080	56.1
Children aged 3	2,194,926	15.6	4,074,089	53.9
Children aged 4	2,145,654	15.2	4,029,908	53.2
Women	2,985,182	21.2	6,892,918	43.3
Pregnant women	1,452,144	10.3	2,953,892	49.2
Postpartum women	1,533,038	10.9	3,939,025	38.9
Breastfeeding women	1,028,863	7.3	2,338,744	44.0
Non-breastfeeding women	504,175	3.6	1,600,281	31.5
Total	14,072,148	100.0	26,986,104	52.1

Notes

The total population consists of individuals in the 50 States, the District of Columbia, Puerto Rico, and the other 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.

Sources: IPUMS-USA,² n.d.; NBER,³ n.d.b; U.S. Census Bureau, n.d.c

² Integrated Public Use Microdata Series-USA

³ National Bureau of Economic Research

Table A.3a. Four-Year Accumulations of U.S. Census Bureau Estimates and CPS-ASEC Estimates for Infants and Children by Year of Age, Race, and Gender: March 2015–March 2018

Participant Category	Females					Males					Total				
	White Non-Hispanic	Black Non-Hispanic	Other Non-Hispanic	Hispanic	Total	White Non-Hispanic	Black Non-Hispanic	Other Non-Hispanic	Hispanic	Total	White Non-Hispanic	Black Non-Hispanic	Other Non-Hispanic	Hispanic	Total
Infants	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
U.S. Census Bureau estimates	3,817,556	1,068,962	823,325	2,021,298	7,731,141	4,019,115	1,104,018	865,190	2,107,496	8,095,819	7,836,671	2,172,980	1,688,515	4,128,794	15,826,960
CPS estimate	3,779,304	969,487	732,090	1,986,130	7,467,012	3,972,674	987,776	883,381	2,097,476	7,941,306	7,751,978	1,957,263	1,615,471	4,083,606	15,408,318
Ratio of Census estimate to CPS estimate	1.0101	1.1026	1.1246	1.0177	1.0354	1.0117	1.1177	0.9794	1.0048	1.0195	1.0109	1.1102	1.0452	1.0111	1.0272
Children aged 1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
U.S. Census Bureau estimates	3,837,275	1,077,146	829,981	2,020,738	7,765,140	4,046,660	1,107,644	872,504	2,104,323	8,131,131	7,883,935	2,184,790	1,702,485	4,125,061	15,896,271
CPS estimate	3,807,765	1,225,996	933,022	2,073,349	8,040,129	4,040,389	1,264,777	891,788	2,089,686	8,286,638	7,848,154	2,490,773	1,824,810	4,163,035	16,326,767
Ratio of Census estimate to CPS estimate	1.0077	0.8786	0.8896	0.9746	0.9658	1.0016	0.8758	0.9784	1.0070	0.9812	1.0046	0.8772	0.9330	0.9909	0.9736
Children aged 2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
U.S. Census Bureau estimates	3,853,273	1,081,957	840,596	2,023,231	7,799,057	4,062,920	1,111,923	883,556	2,103,442	8,161,841	7,916,193	2,193,880	1,724,152	4,126,673	15,960,898
CPS estimate	3,808,600	1,105,758	888,799	2,019,043	7,822,201	4,052,510	1,069,744	890,404	2,137,407	8,150,064	7,861,110	2,175,502	1,779,203	4,156,450	15,972,265
Ratio of Census estimate to CPS estimate	1.0117	0.9785	0.9458	1.0021	0.9970	1.0026	1.0394	0.9923	0.9841	1.0014	1.0070	1.0084	0.9691	0.9928	0.9993

Participant Category	Females					Males					Total				
	White Non-Hispanic	Black Non-Hispanic	Other Non-Hispanic	Hispanic	Total	White Non-Hispanic	Black Non-Hispanic	Other Non-Hispanic	Hispanic	Total	White Non-Hispanic	Black Non-Hispanic	Other Non-Hispanic	Hispanic	Total
Children aged 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
U.S. Census Bureau estimates	3,866,091	1,085,128	838,695	2,024,807	7,814,721	4,075,523	1,115,830	881,286	2,103,638	8,176,277	7,941,614	2,200,958	1,719,981	4,128,445	15,990,998
CPS estimate	3,805,464	1,164,666	912,127	2,029,481	7,911,739	4,060,202	1,086,538	923,410	2,094,348	8,164,497	7,865,666	2,251,204	1,835,537	4,123,829	16,076,236
Ratio of Census estimate to CPS estimate	1.0159	0.9317	0.9195	0.9977	0.9877	1.0038	1.0270	0.9544	1.0044	1.0014	1.0097	0.9777	0.9370	1.0011	0.9947
Children aged 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
U.S. Census Bureau estimates	3,878,195	1,088,029	830,449	2,040,503	7,837,176	4,086,042	1,120,423	871,674	2,119,532	8,197,671	7,964,237	2,208,452	1,702,123	4,160,035	16,034,847
CPS estimate	3,828,984	1,054,870	838,419	1,992,860	7,715,132	4,075,712	1,139,410	894,603	2,098,128	8,207,852	7,904,696	2,194,280	1,733,022	4,090,988	15,922,984
Ratio of Census estimate to CPS estimate	1.0129	1.0314	0.9905	1.0239	1.0158	1.0025	0.9833	0.9744	1.0102	0.9988	1.0075	1.0065	0.9822	1.0169	1.0070
All children aged 1-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
U.S. Census Bureau estimates	15,434,834	4,332,260	3,339,721	8,109,279	31,216,094	16,271,145	4,455,820	3,509,020	8,430,935	32,666,920	31,705,979	8,788,080	6,848,741	16,540,214	63,883,014
CPS estimate	15,250,813	4,551,290	3,572,367	8,114,733	31,489,201	16,228,813	4,560,469	3,600,205	8,419,569	32,809,051	31,479,626	9,111,759	7,172,572	16,534,302	64,298,252
Ratio of Census estimate to CPS estimate	1.0121	0.9519	0.9349	0.9993	0.9913	1.0026	0.9771	0.9747	1.0013	0.9957	1.0072	0.9645	0.9549	1.0004	0.9935

Participant Category	Females					Males					Total				
	White Non-Hispanic	Black Non-Hispanic	Other Non-Hispanic	Hispanic	Total	White Non-Hispanic	Black Non-Hispanic	Other Non-Hispanic	Hispanic	Total	White Non-Hispanic	Black Non-Hispanic	Other Non-Hispanic	Hispanic	Total
Total infants and children aged 1–4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
U.S. Census Bureau estimates	19,252,390	5,401,222	4,163,046	10,130,577	38,947,235	20,290,260	5,559,838	4,374,210	10,538,431	40,762,739	39,542,650	10,961,060	8,537,256	20,669,008	79,709,974
CPS estimate	19,030,119	5,520,778	4,304,457	10,100,861	38,956,213	20,201,487	5,548,243	4,483,586	10,517,045	40,750,359	39,231,606	11,069,021	8,788,043	20,617,906	79,706,572
Ratio of Census estimate to CPS estimate	1.0117	0.9783	0.9671	1.0029	0.9998	1.0044	1.0021	0.9756	1.0020	1.0003	1.0079	0.9902	0.9715	1.0025	1.0000

Notes
 To calculate WIC eligibility in the CPS data, the age/race/gender specific ratios were applied to the CPS weights by age/race/gender to adjust for the undercount/overcount of children in the CPS relative to the U.S. Census Bureau estimates.
 The ratios shown in the total columns (by age/race/gender) are for informational purposes only.
 This table does not include estimates for Puerto Rico and the other U.S. territories.
 “–” denotes blank cells.
 Sources: NBER, n.d.b; U.S. Census Bureau, n.d.a

Table A.3b. U.S. Census Bureau Estimates and CPS-ASEC Estimates for Infants and Children by Year of Age, Race, and Gender: CY 2017

Participant Category	Females					Males					Total				
	White Non-Hispanic	Black Non-Hispanic	Other Non-Hispanic	Hispanic	Total	White Non-Hispanic	Black Non-Hispanic	Other Non-Hispanic	Hispanic	Total	White Non-Hispanic	Black Non-Hispanic	Other Non-Hispanic	Hispanic	Total
Infants	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
U.S. Census Bureau estimates	943,991	263,862	209,874	506,488	1,924,215	988,788	276,070	219,657	530,723	2,015,238	1,932,779	539,932	429,531	1,037,211	3,939,453
CPS estimate	939,281	238,046	177,102	482,371	1,836,799	982,204	235,061	237,896	544,807	1,999,968	1,921,485	473,107	414,998	1,027,178	3,836,767
Ratio of Census estimate to CPS estimate	1.0050	1.1084	1.1850	1.0500	1.0476	1.0067	1.1745	0.9233	0.9741	1.0076	1.0059	1.1412	1.0350	1.0098	1.0268
Children aged 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
U.S. Census Bureau estimates	951,230	267,622	208,412	506,673	1,933,937	1,002,104	275,892	218,849	528,101	2,024,946	1,953,334	543,514	427,261	1,034,774	3,958,883
CPS estimate	937,765	316,524	234,441	531,225	2,019,955	997,772	328,839	222,078	490,143	2,038,832	1,935,537	645,363	456,519	1,021,368	4,058,787
Ratio of Census estimate to CPS estimate	1.0144	0.8455	0.8890	0.9538	0.9574	1.0043	0.8390	0.9855	1.0774	0.9932	1.0092	0.8422	0.9359	1.0131	0.9754
Children aged 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
U.S. Census Bureau estimates	959,796	270,108	212,602	513,196	1,955,702	1,012,582	277,403	223,006	534,408	2,047,399	1,972,378	547,511	435,608	1,047,604	4,003,101
CPS estimate	942,497	269,287	192,484	519,419	1,923,688	1,012,139	285,861	238,168	549,462	2,085,630	1,954,636	555,148	430,652	1,068,881	4,009,318
Ratio of Census estimate to CPS estimate	1.0184	1.0030	1.1045	0.9880	1.0166	1.0004	0.9704	0.9363	0.9726	0.9817	1.0091	0.9862	1.0115	0.9801	0.9984
Children aged 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
U.S. Census Bureau estimates	968,778	273,658	217,464	512,448	1,972,348	1,022,405	280,659	228,807	531,509	2,063,380	1,991,183	554,317	446,271	1,043,957	4,035,728
CPS estimate	953,168	304,015	240,165	511,667	2,009,015	1,015,814	279,519	220,242	532,020	2,047,595	1,968,982	583,534	460,407	1,043,687	4,056,610
Ratio of Census estimate to CPS estimate	1.0164	0.9001	0.9055	1.0015	0.9817	1.0065	1.0041	1.0389	0.9990	1.0077	1.0113	0.9499	0.9693	1.0003	0.9949

Participant Category	Females					Males					Total				
	White Non-Hispanic	Black Non-Hispanic	Other Non-Hispanic	Hispanic	Total	White Non-Hispanic	Black Non-Hispanic	Other Non-Hispanic	Hispanic	Total	White Non-Hispanic	Black Non-Hispanic	Other Non-Hispanic	Hispanic	Total
Children aged 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
U.S. Census Bureau estimates	963,510	272,191	211,632	505,237	1,952,570	1,016,338	279,899	222,231	526,462	2,044,930	1,979,848	552,090	433,863	1,031,699	3,997,500
CPS estimate	952,182	255,973	239,702	498,733	1,946,589	1,017,613	258,071	211,320	534,151	2,021,155	1,969,795	514,044	451,022	1,032,884	3,967,744
Ratio of Census estimate to CPS estimate	1.0119	1.0634	0.8829	1.0130	1.0031	0.9987	1.0846	1.0516	0.9856	1.0118	1.0051	1.0740	0.9620	0.9989	1.0075
All children aged 1-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
U.S. Census Bureau estimates	3,843,314	1,083,579	850,110	2,037,554	7,814,557	4,053,429	1,113,853	892,893	2,120,480	8,180,655	7,896,743	2,197,432	1,743,003	4,158,034	15,995,212
CPS estimate	3,785,612	1,145,799	906,792	2,061,044	7,899,247	4,043,338	1,152,290	891,808	2,105,776	8,193,212	7,828,950	2,298,089	1,798,600	4,166,820	16,092,459
Ratio of Census estimate to CPS estimate	1.0152	0.9457	0.9375	0.9886	0.9893	1.0025	0.9666	1.0012	1.0070	0.9985	1.0087	0.9562	0.9691	0.9979	0.9940
Total infants and children aged 1-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
U.S. Census Bureau estimates	4,787,305	1,347,441	1,059,984	2,544,042	9,738,772	5,042,217	1,389,923	1,112,550	2,651,203	10,195,893	9,829,522	2,737,364	2,172,534	5,195,245	19,934,665
CPS estimate	4,724,893	1,383,845	1,083,894	2,543,414	9,736,046	5,025,542	1,387,351	1,129,705	2,650,584	10,193,181	9,750,435	2,771,196	2,213,599	5,193,998	19,929,227
Ratio of Census estimate to CPS estimate	1.0132	0.9737	0.9779	1.0002	1.0003	1.0033	1.0019	0.9848	1.0002	1.0003	1.0081	0.9878	0.9814	1.0002	1.0003

Notes
To calculate WIC eligibility in the CPS data, the age/race/gender specific ratios were applied to the CPS weights by age/race/gender to adjust for the undercount/overcount of children in the CPS relative to the U.S. Census Bureau estimates.
The ratios shown in the total columns (by age/race/gender) are for informational purposes only.
This table does not include estimates for Puerto Rico and the other U.S. territories.
“-“ denotes blank cells.
Sources: NBER, n.d.b; U.S. Census Bureau, n.d.a

Table A.3c. Effects of Applying Population Adjustment Factors to Population Counts for Infants and Children in the 2018 CPS-ASEC by Year of Age, Race, and Gender

Participant Category		Male					Female					Total				
		White-Only, Non-Hispanic	Black-Only, Non-Hispanic	Other, Non-Hispanic	Hispanic	Total	White-Only, Non-Hispanic	Black-Only, Non-Hispanic	Other, Non-Hispanic	Hispanic	Total	White-Only, Non-Hispanic	Black-Only, Non-Hispanic	Other, Non-Hispanic	Hispanic	Total
Infants	Population adjustment factor	1.007	1.118	0.979	1.000	N/A	1.005	1.103	1.125	1.018	N/A	N/A	N/A	N/A	N/A	N/A
	Revised CPS estimate	988,785	262,728	232,995	544,807	2,029,315	943,977	262,469	199,169	490,909	1,896,524	1,932,762	525,197	432,164	1,035,716	3,925,839
	Original CPS estimate	982,204	235,061	237,896	544,807	1,999,968	939,281	238,046	177,102	482,371	1,836,799	1,921,485	473,107	414,998	1,027,178	3,836,768
	Percent relative change	0.7	11.8	-2.1	0.0	1.5	0.5	10.3	12.5	1.8	3.3	0.6	11.0	4.1	0.8	2.3
Children aged 1	Population adjustment factor	1.008	0.879	0.890	0.975	N/A	1.008	0.879	0.890	0.975	N/A	N/A	N/A	N/A	N/A	N/A
	Revised CPS estimate	999,369	287,997	218,858	493,574	1,999,798	944,986	278,098	208,559	517,732	1,949,374	1,944,354	566,095	427,417	1,011,307	3,949,172
	Original CPS estimate	997,772	328,839	222,078	490,143	2,038,832	937,765	316,524	234,441	531,225	2,019,955	1,935,537	645,362	456,519	1,021,369	4,058,788
	Percent relative change	0.2	-12.4	-1.5	0.7	-1.9	0.8	-12.1	-11.0	-2.5	-3.5	0.5	-12.3	-6.4	-1.0	-2.7
Children aged 2	Population adjustment factor	1.012	1.000	1.000	1.000	N/A	1.012	1.000	1.000	1.000	N/A	N/A	N/A	N/A	N/A	N/A
	Revised CPS estimate	1,012,544	285,861	236,334	540,726	2,075,465	953,525	269,287	192,484	519,419	1,934,715	1,966,068	555,148	428,819	1,060,144	4,010,180
	Original CPS estimate	1,012,139	285,861	238,168	549,462	2,085,630	942,497	269,287	192,484	519,419	1,923,688	1,954,636	555,148	430,653	1,068,881	4,009,318
	Percent relative change	0.0	0.0	-0.8	-1.6	-0.5	1.2	0.0	0.0	0.0	0.6	0.6	0.0	-0.4	-0.8	0.0
Children aged 3	Population adjustment factor	1.016	0.932	0.919	1.000	N/A	1.016	0.932	0.919	1.000	N/A	N/A	N/A	N/A	N/A	N/A
	Revised CPS estimate	1,019,674	280,665	220,242	532,020	2,052,601	968,324	283,251	220,831	511,667	1,984,073	1,987,998	563,916	441,074	1,043,686	4,036,674
	Original CPS estimate	1,015,814	279,519	220,242	532,020	2,047,595	953,168	304,015	240,165	511,667	2,009,015	1,968,982	583,534	460,407	1,043,686	4,056,610
	Percent relative change	0.4	0.4	0.0	0.0	0.2	1.6	-6.8	-8.1	0.0	-1.2	1.0	-3.4	-4.2	0.0	-0.5
Children aged 4	Population adjustment factor	1.012	1.031	0.990	1.013	N/A	1.012	1.031	0.990	1.013	N/A	N/A	N/A	N/A	N/A	N/A
	Revised CPS estimate	1,017,613	258,071	211,320	534,151	2,021,155	963,513	264,010	237,424	505,216	1,970,164	1,981,125	522,081	448,744	1,039,368	3,991,319
	Original CPS estimate	1,017,613	258,071	211,320	534,151	2,021,155	952,182	255,973	239,702	498,733	1,946,589	1,969,794	514,044	451,021	1,032,884	3,967,744
	Percent relative change	0.0	0.0	0.0	0.0	0.0	1.2	3.1	-1.0	1.3	1.2	0.6	1.6	-0.5	0.6	0.6

Participant Category		Male					Female					Total				
		White-Only, Non-Hispanic	Black-Only, Non-Hispanic	Other, Non-Hispanic	Hispanic	Total	White-Only, Non-Hispanic	Black-Only, Non-Hispanic	Other, Non-Hispanic	Hispanic	Total	White-Only, Non-Hispanic	Black-Only, Non-Hispanic	Other, Non-Hispanic	Hispanic	Total
Total children aged 1–4	Population adjustment factor	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Revised CPS estimate	4,049,199	1,112,594	886,755	2,100,471	8,149,019	3,830,347	1,094,646	859,299	2,054,034	7,838,326	7,879,546	2,207,240	1,746,054	4,154,505	15,987,345
	Original CPS estimate	4,043,338	1,152,289	891,809	2,105,777	8,193,212	3,785,612	1,145,799	906,792	2,061,044	7,899,247	7,828,950	2,298,088	1,798,600	4,166,820	16,092,459
	Percent relative change	0.1	-3.4	-0.6	-0.3	-0.5	1.2	-4.5	-5.2	-0.3	-0.8	0.6	-4.0	-2.9	-0.3	-0.7
Total infants and children aged 1–4	Population adjustment factor	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Revised CPS estimate	5,037,984	1,375,322	1,119,750	2,645,279	10,178,334	4,774,324	1,357,116	1,058,468	2,544,943	9,734,850	9,812,307	2,732,437	2,178,218	5,190,221	19,913,184
	Original CPS estimate	5,025,542	1,387,351	1,129,705	2,650,584	10,193,181	4,724,893	1,383,845	1,083,894	2,543,414	9,736,046	9,750,435	2,771,195	2,213,598	5,193,998	19,929,227
	Percent relative change	0.2	-0.9	-0.9	-0.2	-0.1	1.0	-1.9	-2.3	0.1	0.0	0.6	-1.4	-1.6	-0.1	-0.1

Notes
 To calculate WIC eligibility in the CPS data, the age/race/gender specific ratios were applied to the CPS weights by age/race/gender to adjust for the undercount/overcount of children in the CPS estimates relative to the U.S. Census Bureau estimates.
 The ratios shown in the total columns (by age/race/gender) are for informational purposes only.
 This table does not include estimates for Puerto Rico and the other U.S. territories.
 “–” denotes blank cells.
 N/A = not applicable
 Sources: NBER, n.d.b; U.S. Census Bureau, n.d.a

Table A.4. Breastfeeding Adjustment Factor Calculations for Postpartum Women Eligible for WIC: CY 2005–CY 2017

Adjustments	Breastfeeding Rates Among Postpartum Women Eligible for WIC by Race and Ethnicity												
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Breastfeeding in hospital	–	–	–	–	–	–	–	–	–	–	–	–	–
White-Only Non-Hispanic	0.647	0.629	0.636	0.616	0.655	0.633	0.668	0.677	0.716	0.751	0.744	0.762	0.775
Black-Only Non-Hispanic	0.497	0.477	0.537	0.500	0.517	0.531	0.576	0.609	0.576	0.635	0.636	0.659	0.661
Other Non-Hispanic	0.633	0.663	0.678	0.709	0.657	0.674	0.694	0.698	0.689	0.660	0.716	0.723	0.779
Hispanic	0.801	0.804	0.804	0.816	0.796	0.785	0.791	0.778	0.832	0.810	0.818	0.838	0.832
Breastfeeding at 6 months	–	–	–	–	–	–	–	–	–	–	–	–	–
White-Only Non-Hispanic	0.280	0.297	0.306	0.316	0.327	0.329	0.343	0.342	0.381	0.412	0.423	0.438	0.462
Black-Only Non-Hispanic	0.204	0.213	0.240	0.221	0.229	0.238	0.304	0.324	0.297	0.311	0.036	0.383	0.408
Other Non-Hispanic	0.307	0.349	0.341	0.336	0.333	0.352	0.398	0.410	0.412	0.364	0.430	0.450	0.474
Hispanic	0.400	0.441	0.474	0.472	0.439	0.443	0.458	0.458	0.460	0.487	0.414	0.488	0.524
Breastfeeding at 12 months	–	–	–	–	–	–	–	–	–	–	–	–	–
White-Only Non-Hispanic	0.149	0.141	0.137	0.155	0.180	0.181	0.186	0.187	0.209	0.240	0.259	0.284	0.291
Black-Only Non-Hispanic	0.092	0.092	0.121	0.087	0.100	0.081	0.140	0.119	0.126	0.137	0.174	0.186	0.219
Other Non-Hispanic	0.167	0.214	0.184	0.222	0.174	0.190	0.215	0.236	0.263	0.176	0.234	0.257	0.299
Hispanic	0.216	0.234	0.256	0.270	0.241	0.272	0.251	0.255	0.241	0.256	0.246	0.291	0.314
Other Adjustment Factors													
Multiple births/infant deaths ^a	0.996	0.996	0.996	0.996	0.996	0.996	0.996	0.996	0.996	0.996	0.996	0.996	–
White-Only Non-Hispanic	–	–	–	–	–	–	–	–	–	–	–	–	0.991
Black-Only Non-Hispanic	–	–	–	–	–	–	–	–	–	–	–	–	1.002
Other Non-Hispanic	–	–	–	–	–	–	–	–	–	–	–	–	0.994
Hispanic	–	–	–	–	–	–	–	–	–	–	–	–	0.998
Loss of eligibility at 6 months	0.940	0.947	0.953	0.960	0.967	0.973	0.980	0.987	0.993	1.000	1.000	1.000	1.000
Adjustment to average breastfeeding	0.870	0.870	0.870	0.870	0.870	0.870	0.870	0.870	0.870	0.870	0.870	0.870	0.870

Adjustments	Breastfeeding Rates Among Postpartum Women Eligible for WIC by Race and Ethnicity												
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Final Adjustment Factors for Estimating Postpartum Eligibility From Estimate of Infant Eligibility													
Breastfeeding adjustment factor	–	–	–	–	–	–	–	–	–	–	–	–	–
White-Only Non-Hispanic	0.303	0.305	0.310	0.316	0.336	0.333	0.349	0.352	0.385	0.416	0.424	0.442	0.457
Black-Only Non-Hispanic	0.222	0.222	0.255	0.231	0.242	0.245	0.300	0.312	0.295	0.317	0.349	0.369	0.389
Other Non-Hispanic	0.316	0.353	0.347	0.361	0.338	0.355	0.388	0.400	0.407	0.358	0.416	0.432	0.466
Hispanic	0.406	0.431	0.452	0.458	0.433	0.441	0.445	0.445	0.455	0.468	0.438	0.483	0.504
Non-breastfeeding adjustment factor	–	–	–	–	–	–	–	–	–	–	–	–	–
White-Only Non-Hispanic	0.298	0.299	0.295	0.297	0.286	0.291	0.280	0.278	0.261	0.247	0.246	0.239	0.231
Black-Only Non-Hispanic	0.347	0.350	0.331	0.343	0.338	0.333	0.309	0.297	0.310	0.294	0.284	0.273	0.268
Other Non-Hispanic	0.296	0.280	0.278	0.273	0.285	0.277	0.263	0.259	0.260	0.277	0.252	0.245	0.228
Hispanic	0.239	0.229	0.222	0.220	0.232	0.233	0.228	0.231	0.219	0.218	0.228	0.212	0.205

Notes

^a See appendix E for an explanation of the updated and expanded adjustment factor for multiple births and infant deaths for the 2017 estimates.

“–” denotes blank cells.

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

Table A.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 2017

Step	Infants	All Children Aged 1-4	Children Aged 1	Children Aged 2	Children Aged 3	Children Aged 4	Pregnant Women	Breastfeeding Women	Non-Breastfeeding Women	Total
Total number of infants/ children in CPS-ASEC data	3,836,768	16,092,459	4,058,788	4,009,318	4,056,610	3,967,744	–	–	–	19,929,227
Number after adjustment for CPS undercount/ overcount	3,925,839	15,987,345	3,949,172	4,010,180	4,036,674	3,991,319	–	–	–	19,913,184
Number with annual income <= 185 percent of the Federal Poverty Guidelines	1,418,737	5,835,505	1,456,187	1,523,015	1,480,131	1,376,172	–	–	–	7,254,242
Number adjunctively eligible and with annual income > 185 percent of the Federal Poverty Guidelines ^a	606,715	2,551,502	673,120	629,161	596,036	653,185	–	–	–	3,158,216
Through SNAP	139,217	413,416	102,374	108,822	92,311	109,909	–	–	–	552,633
Through TANF	2,297	27,240	8,682	8,081	3,456	7,021	–	–	–	29,538
Through Medicaid	465,200	2,110,846	562,064	512,259	500,268	536,255	–	–	–	2,576,046
Total number income and adjunctively eligible	2,025,452	8,387,007	2,129,307	2,152,177	2,076,166	2,029,357	–	–	–	10,412,459
Number after adjustment for monthly income and certification periods	2,263,205	8,822,071	2,241,517	2,262,836	2,183,234	2,134,484	–	–	–	11,085,276
Total number eligible: Number after adjustment for nutritional risk (infants and children)	2,195,309	8,733,851	2,219,101	2,240,208	2,161,402	2,113,139	–	–	–	10,929,159
Starting point for estimates of women is number of eligible infants	–	–	–	–	–	–	2,195,309	2,195,309	2,195,309	6,585,926
Number after adjustment for length of pregnancy and income of woman during pregnancy	–	–	–	–	–	–	1,481,833	–	–	1,481,833
Number after adjustment for multiple births and infant deaths	–	–	–	–	–	–	1,475,076	2,185,298	2,185,298	5,845,673
Number after adjustment for breastfeeding	–	–	–	–	–	–	–	1,013,819	496,751	1,510,570

Step	Infants	All Children Aged 1-4	Children Aged 1	Children Aged 2	Children Aged 3	Children Aged 4	Pregnant Women	Breastfeeding Women	Non-Breastfeeding Women	Total
Total number eligible: Number after adjustment for nutritional risk (pregnant and postpartum women)	–	–	–	–	–	–	1,430,824	1,013,819	496,751	2,941,394
Total number eligible in the 50 States and the District of Columbia, excluding the U.S. territories served by WIC	2,195,309	8,733,851	2,219,101	2,240,208	2,161,402	2,113,139	1,430,824	1,013,819	496,751	13,870,554
Total number eligible in all U.S. territories served by WIC ^b	32,657	125,151	31,191	27,921	33,524	32,515	21,320	15,043	7,424	201,594
Total number eligible in the 50 States, the District of Columbia, Puerto Rico, and the other U.S. territories served by WIC	2,227,965	8,859,001	2,250,293	2,268,129	2,194,926	2,145,654	1,452,144	1,028,863	504,175	14,072,148

Notes

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

^b See appendix B in volume II for the derivation of WIC eligibility in U.S. territories.

“–” denotes blank cells.

Sources: IPUMS-USA, n.d.; NBER, n.d.b; U.S. Census Bureau, n.d.c; Thorn et al., 2018

Table A.6a1. Estimated Average Monthly Numbers of Infants, and Children by Year of Age, Eligible for WIC by Demographic and Income Characteristics and Adjunctive Eligibility: CY 2017 (Unadjusted Weights, Counts)

Characteristics	Infants Eligible for WIC			Children Aged 1 Eligible for WIC			Children Aged 2 Eligible for WIC		
	Family Income ≤ 185% FPG ^a	Adjunctively Eligible >185% FPG ^b	Total	Family Income ≤ 185% FPG ^a	Adjunctively Eligible >185% FPG ^b	Total	Family Income ≤ 185% FPG ^a	Adjunctively Eligible >185% FPG ^b	Total
Total	1,381,158	594,054	1,975,212	1,511,343	690,612	2,201,955	1,525,164	629,750	2,154,914
Gender	–	–	–	–	–	–	–	–	–
Male	737,296	323,032	1,060,327	735,389	377,690	1,113,079	794,923	338,450	1,133,374
Female	643,862	271,022	914,885	775,954	312,922	1,088,876	730,241	291,300	1,021,541
Race									
White	899,823	460,657	1,360,480	946,608	499,473	1,446,081	933,117	476,217	1,409,334
Black	272,801	69,190	341,991	373,979	105,887	479,867	377,342	80,416	457,758
Other	208,533	64,207	272,740	190,756	85,251	276,007	214,705	73,116	287,821
Ethnicity	–	–	–	–	–	–	–	–	–
Hispanic	573,264	164,613	737,876	536,010	184,176	720,186	520,463	219,677	740,140
Non-Hispanic	807,894	429,441	1,237,335	975,333	506,436	1,481,769	1,004,701	410,073	1,414,774
Living arrangement	–	–	–	–	–	–	–	–	–
Two-parent family	817,674	437,480	1,255,154	817,696	488,025	1,305,721	778,846	444,061	1,222,908
Single-parent family	498,854	144,468	643,322	616,006	160,123	776,129	658,579	162,684	821,262
No-parent family	64,630	12,106	76,736	77,640	42,464	120,104	87,739	23,005	110,744
Related nonparent caretaker	22,802	12,106	34,907	40,805	42,464	83,269	49,428	23,005	72,433
Unrelated nonparent caretaker	41,828	0	41,828	36,835	0	36,835	38,311	0	38,311
Military status of household members	–	–	–	–	–	–	–	–	–
Ever served in U.S. military	74,952	59,829	134,781	48,119	84,122	132,240	79,677	53,779	133,456
Serving in U.S. military in 2017 ^c	34,297	6,483	40,779	22,126	10,250	32,377	26,944	7,630	34,574
Number of people in household	–	–	–	–	–	–	–	–	–
2	67,353	10,763	78,116	86,920	14,189	101,109	90,807	14,075	104,882
3	320,944	191,007	511,951	290,203	211,468	501,671	280,675	143,567	424,242
4	343,081	173,330	516,410	386,238	181,938	568,176	407,585	226,174	633,759
5	314,281	103,119	417,400	340,235	157,842	498,078	340,979	125,627	466,606
6 or more	335,500	115,835	451,335	407,747	125,174	532,921	405,119	120,308	525,426

Characteristics	Infants Eligible for WIC			Children Aged 1 Eligible for WIC			Children Aged 2 Eligible for WIC		
	Family Income ≤ 185% FPG ^a	Adjunctively Eligible >185% FPG ^b	Total	Family Income ≤ 185% FPG ^a	Adjunctively Eligible >185% FPG ^b	Total	Family Income ≤ 185% FPG ^a	Adjunctively Eligible >185% FPG ^b	Total
Mean	4.6	4.3	4.5	4.7	4.4	4.6	4.7	4.4	4.6
Number with working parent(s)	927,721	497,158	1,424,879	1,009,730	564,657	1,574,386	1,131,075	557,710	1,688,785
Annual family income relative to FPG	–	–	–	–	–	–	–	–	–
No income	90,494	0	90,494	118,221	0	118,221	100,500	0	100,500
Up to 50% FPG	254,063	0	254,063	245,099	0	245,099	220,807	0	220,807
More than 50% up to 100% FPG	409,471	0	409,471	393,703	0	393,703	396,153	0	396,153
More than 100% up to 130% FPG	254,545	0	254,545	271,653	0	271,653	334,310	0	334,310
More than 130% up to 150% FPG	154,442	0	154,442	198,253	0	198,253	148,437	0	148,437
More than 150% up to 185% FPG	218,143	0	218,143	284,413	0	284,413	324,957	0	324,957
More than 185% up to 200% FPG	0	57,017	57,017	0	70,720	70,720	0	62,067	62,067
More than 200% FPG	0	537,037	537,037	0	619,892	619,892	0	567,683	567,683
Receipt of other benefits	–	–	–	–	–	–	–	–	–
No benefit receipt	307,601	0	307,601	315,221	0	315,221	360,524	0	360,524
Medicaid, SNAP, and TANF	66,355	9,840	76,195	76,928	4,943	81,871	74,470	1,758	76,228
SNAP and TANF only	0	0	0	0	0	0	0	0	0
Medicaid and SNAP only	369,871	107,178	477,049	562,617	75,795	638,412	552,392	90,819	643,210
Medicaid and TANF only	3,823	2,257	6,080	9,291	8,668	17,959	4,381	8,146	12,526
SNAP only	113,703	17,602	131,306	98,920	26,077	124,996	76,420	16,414	92,835
TANF only	0	0	0	0	0	0	0	0	0
Medicaid only	519,806	457,176	976,982	448,366	575,129	1,023,496	456,977	512,613	969,590

Notes

^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 as well as that partner's dependents. Infants and children in economic units with annual income less than or equal to 185 percent of the Federal Poverty Guidelines 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 Federal Poverty Guidelines for the unit's size.

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

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 U.S. Census Bureau estimates, monthly income, or nutritional risk.

This table does not include estimates for Puerto Rico and the other U.S. territories.

FPG = Federal Poverty Guidelines

“–” denotes blank cells.

Source: NBER, n.d.b

Table A.6a1 (continued). Estimated Average Monthly Numbers of Infants, and Children by Year of Age, Eligible for WIC by Demographic and Income Characteristics and Adjunctive Eligibility: CY 2017 (Unadjusted Weights, Counts)

Characteristics	Children Aged 3 Eligible for WIC			Children Aged 4 Eligible for WIC			Children Aged 1-4 Eligible for WIC		
	Family Income ≤ 185% FPG ^a	Adjunctively Eligible >185% FPG ^b	Total	Family Income ≤ 185% FPG ^a	Adjunctively Eligible >185% FPG ^b	Total	Family Income ≤ 185% FPG ^a	Adjunctively Eligible >185% FPG ^b	Total
Total	1,494,534	598,542	2,093,076	1,366,638	649,115	2,015,753	5,897,678	2,568,019	8,465,698
Gender	–	–	–	–	–	–	–	–	–
Male	711,706	293,363	1,005,069	700,060	311,698	1,011,758	2,942,079	1,321,201	4,263,280
Female	782,827	305,179	1,088,006	666,578	337,417	1,003,995	2,955,599	1,246,818	4,202,418
Race	–	–	–	–	–	–	–	–	–
White	927,295	450,219	1,377,513	863,116	466,267	1,329,383	3,670,136	1,892,176	5,562,312
Black	355,080	84,180	439,260	315,617	107,850	423,467	1,422,018	378,334	1,800,352
Other	212,159	64,144	276,302	187,905	74,998	262,902	805,524	297,509	1,103,033
Ethnicity	–	–	–	–	–	–	–	–	–
Hispanic	529,407	185,720	715,128	466,225	230,654	696,879	2,052,105	820,227	2,872,332
Non-Hispanic	965,126	412,822	1,377,948	900,413	418,461	1,318,874	3,845,573	1,747,792	5,593,365
Living arrangement	–	–	–	–	–	–	–	–	–
Two-parent family	781,745	437,542	1,219,287	724,787	425,612	1,150,398	3,103,075	1,795,240	4,898,315
Single-parent family	604,985	131,876	736,861	569,706	194,738	764,444	2,449,276	649,421	3,098,697
No-parent family	107,803	29,124	136,927	72,145	28,765	100,910	345,328	123,358	468,686
Related nonparent caretaker	75,029	29,124	104,153	42,456	28,765	71,221	207,719	123,358	331,077
Unrelated nonparent caretaker	32,774	0	32,774	29,689	0	29,689	137,609	0	137,609
Military status of household members	–	–	–	–	–	–	–	–	–
Ever served in U.S. military	75,878	77,683	153,561	66,133	75,554	141,688	269,806	291,138	560,944
Serving in U.S. military in 2017 ^c	37,084	4,844	41,928	14,018	1,707	15,725	100,172	24,431	124,604
Number of people in household	–	–	–	–	–	–	–	–	–
2	80,579	5,870	86,449	91,152	20,833	111,985	349,458	54,967	404,425
3	263,212	121,271	384,482	179,203	100,109	279,313	1,013,292	576,415	1,589,708
4	412,327	191,139	603,465	379,584	207,946	587,529	1,585,734	807,196	2,392,930
5	336,678	136,573	473,251	291,636	154,561	446,197	1,309,528	574,603	1,884,131
6 or more	401,739	143,690	545,428	425,063	165,666	590,728	1,639,667	554,837	2,194,504

Characteristics	Children Aged 3 Eligible for WIC			Children Aged 4 Eligible for WIC			Children Aged 1-4 Eligible for WIC		
	Family Income ≤ 185% FPG ^a	Adjunctively Eligible >185% FPG ^b	Total	Family Income ≤ 185% FPG ^a	Adjunctively Eligible >185% FPG ^b	Total	Family Income ≤ 185% FPG ^a	Adjunctively Eligible >185% FPG ^b	Total
Mean	4.7	4.7	4.7	4.9	4.7	4.8	4.7	4.6	4.7
Number with working parent(s)	1,043,068	540,491	1,583,559	1,040,608	575,246	1,615,854	4,224,480	2,238,104	6,462,584
Annual family income relative to FPG	-	-	-	-	-	-	-	-	-
No income	124,059	0	124,059	62,732	0	62,732	405,513	0	405,513
Up to 50% FPG	234,417	0	234,417	210,416	0	210,416	910,740	0	910,740
More than 50% up to 100% FPG	402,906	0	402,906	403,322	0	403,322	1,596,084	0	1,596,084
More than 100% up to 130% FPG	283,669	0	283,669	254,822	0	254,822	1,144,454	0	1,144,454
More than 130% up to 150% FPG	179,871	0	179,871	160,779	0	160,779	687,340	0	687,340
More than 150% up to 185% FPG	269,611	0	269,611	274,566	0	274,566	1,153,548	0	1,153,548
More than 185% up to 200% FPG	0	44,488	44,488	0	80,872	80,872	0	258,147	258,147
More than 200% FPG	0	554,055	554,055	0	568,243	568,243	0	2,309,872	2,309,872
Receipt of other benefits	-	-	-	-	-	-	-	-	-
No benefit receipt	355,031	0	355,031	328,705	0	328,705	1,359,481	0	1,359,481
Medicaid, SNAP, and TANF	77,774	5,563	83,337	49,832	8,689	58,521	279,005	20,954	299,959
SNAP and TANF only	0	0	0	0	0	0	0	0	0
Medicaid and SNAP only	493,493	79,096	572,589	525,331	84,121	609,452	2,133,833	329,830	2,463,662
Medicaid and TANF only	234	3,443	3,676	5,753	6,982	12,735	19,658	27,239	46,897
SNAP only	78,390	7,921	86,310	79,523	16,119	95,642	333,253	66,531	399,783
TANF only	0	0	0	0	0	0	0	0	0
Medicaid only	489,612	502,520	992,132	377,494	533,204	910,698	1,772,449	2,123,467	3,895,916

Notes

^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 as well as that partner's dependents. Infants and children in economic units with annual income less than or equal to 185 percent of the Federal Poverty Guidelines 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 Federal Poverty Guidelines for the unit's size.

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

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 U.S. Census Bureau estimates, monthly income, or nutritional risk.

This table does not include estimates for Puerto Rico or the other U.S. territories.

FPG = Federal Poverty Guidelines

"-" denotes blank cells.

Source: NBER, n.d.b

Table A.6a2. Estimated Average Monthly Numbers of Infants, and Children by Year of Age, Eligible for WIC by Demographic and Income Characteristics and Adjunctive Eligibility: CY 2017 (Unadjusted Weights, Percentages)

Characteristics	Infants Eligible for WIC			Children Aged 1 Eligible for WIC			Children Aged 2 Eligible for WIC		
	Family Income ≤ 185% FPG ^a	Adjunctively Eligible >185% FPG ^b	Total	Family Income ≤ 185% FPG ^a	Adjunctively Eligible >185% FPG ^b	Total	Family Income ≤ 185% FPG ^a	Adjunctively Eligible >185% FPG ^b	Total
Total	1,381,158	594,054	1,975,212	1,511,343	690,612	2,201,955	1,525,164	629,750	2,154,914
Gender	–	–	–	–	–	–	–	–	–
Male	53.4	54.4	53.7	48.7	54.7	50.6	52.1	53.7	52.6
Female	46.6	45.6	46.3	51.3	45.3	49.5	47.9	46.3	47.4
Race	–	–	–	–	–	–	–	–	–
White	65.2	77.5	68.9	62.6	72.3	65.7	61.2	75.6	65.4
Black	19.8	11.6	17.3	24.7	15.3	21.8	24.7	12.8	21.2
Other	15.1	10.8	13.8	12.6	12.3	12.5	14.1	11.6	13.4
Ethnicity	–	–	–	–	–	–	–	–	–
Hispanic	41.5	27.7	37.4	35.5	26.7	32.7	34.1	34.9	34.3
Non-Hispanic	58.5	72.3	62.6	64.5	73.3	67.3	65.9	65.1	65.7
Living arrangement	–	–	–	–	–	–	–	–	–
Two-parent family	59.2	73.6	63.5	54.1	70.7	59.3	51.1	70.5	56.8
Single-parent family	36.1	24.3	32.6	40.8	23.2	35.2	43.2	25.8	38.1
No-parent family	4.7	2.0	3.9	5.1	6.1	5.5	5.8	3.7	5.1
Related nonparent caretaker	1.7	2.0	1.8	2.7	6.1	3.8	3.2	3.7	3.4
Unrelated nonparent caretaker	3.0	0.0	2.1	2.4	0.0	1.7	2.5	0.0	1.8
Military status of household members	–	–	–	–	–	–	–	–	–
Ever served in U.S. military	5.4	10.1	6.8	3.2	12.2	6.0	5.2	8.5	6.2
Serving in U.S. military in 2017 ^c	2.5	1.1	2.1	1.5	1.5	1.5	1.8	1.2	1.6
Number of people in household	–	–	–	–	–	–	–	–	–
2	4.9	1.8	4.0	5.8	2.1	4.6	6.0	2.2	4.9
3	23.2	32.2	25.9	19.2	30.6	22.8	18.4	22.8	19.7
4	24.8	29.2	26.1	25.6	26.3	25.8	26.7	35.9	29.4
5	22.8	17.4	21.1	22.5	22.9	22.6	22.4	19.9	21.7
6 or more	24.3	19.5	22.9	27.0	18.1	24.2	26.6	19.1	24.4

Characteristics	Infants Eligible for WIC			Children Aged 1 Eligible for WIC			Children Aged 2 Eligible for WIC		
	Family Income ≤ 185% FPG ^a	Adjunctively Eligible >185% FPG ^b	Total	Family Income ≤ 185% FPG ^a	Adjunctively Eligible >185% FPG ^b	Total	Family Income ≤ 185% FPG ^a	Adjunctively Eligible >185% FPG ^b	Total
Percent with working parent(s)	67.2	83.7	72.1	66.8	81.8	71.5	74.2	88.6	78.4
Annual family income relative to FPG	–	–	–	–	–	–	–	–	–
No income	6.6	0.0	4.6	7.8	0.0	5.4	6.6	0.0	4.7
Up to 50% FPG	18.4	0.0	12.9	16.2	0.0	11.1	14.5	0.0	10.2
More than 50% up to 100% FPG	29.6	0.0	20.7	26.1	0.0	17.9	26.0	0.0	18.4
More than 100% up to 130% FPG	18.4	0.0	12.9	18.0	0.0	12.3	21.9	0.0	15.5
More than 130% up to 150% FPG	11.2	0.0	7.8	13.1	0.0	9.0	9.7	0.0	6.9
More than 150% up to 185% FPG	15.8	0.0	11.0	18.8	0.0	12.9	21.3	0.0	15.1
More than 185% up to 200% FPG	0.0	9.6	2.9	0.0	10.2	3.2	0.0	9.9	2.9
More than 200% FPG	0.0	90.4	27.2	0.0	89.8	28.2	0.0	90.1	26.3
Receipt of other benefits	–	–	–	–	–	–	–	–	–
No benefit receipt	22.3	0.0	15.6	20.9	0.0	14.3	23.6	0.0	16.7
SNAP, TANF, and Medicaid	4.8	1.7	3.9	5.1	0.7	3.7	4.9	0.3	3.5
SNAP and TANF only	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SNAP and Medicaid only	26.8	18.0	24.2	37.2	11.0	29.0	36.2	14.4	29.8
TANF and Medicaid only	0.3	0.4	0.3	0.6	1.3	0.8	0.3	1.3	0.6
SNAP only	8.2	3.0	6.6	6.5	3.8	5.7	5.0	2.6	4.3
TANF only	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Medicaid only	37.6	77.0	49.5	29.7	83.3	46.5	30.0	81.4	45.0

Notes

^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 as well as that partner's dependents. Infants and children in economic units with annual income less than or equal to 185 percent of the Federal Poverty Guidelines 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 Federal Poverty Guidelines for the unit's size.

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

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 U.S. Census Bureau estimates, monthly income, or nutritional risk.

This table does not include estimates for Puerto Rico or the other U.S. territories.

FPG = Federal Poverty Guidelines

"–" denotes blank cells.

Source: NBER, n.d.b

Table A.6a2 (continued). Estimated Average Monthly Numbers of Infants, and Children by Year of Age, Eligible for WIC by Demographic and Income Characteristics and Adjunctive Eligibility: CY 2017 (Unadjusted Weights, Percentages)

Characteristics	Children Aged 3 Eligible for WIC			Children Aged 4 Eligible for WIC			Children Aged 1-4 Eligible for WIC		
	Family Income ≤ 185% FPG ^a	Adjunctively Eligible >185% FPG ^b	Total	Family Income ≤ 185% FPG ^a	Adjunctively Eligible >185% FPG ^b	Total	Family Income ≤ 185% FPG ^a	Adjunctively Eligible >185% FPG ^b	Total
Total	1,494,534	598,542	2,093,076	1,366,638	649,115	2,015,753	5,897,678	2,568,019	8,465,698
Gender	–	–	–	–	–	–	–	–	–
Male	47.6	49.0	48.0	51.2	48.0	50.2	49.9	51.4	50.4
Female	52.4	51.0	52.0	48.8	52.0	49.8	50.1	48.6	49.6
Race	–	–	–	–	–	–	–	–	–
White	62.0	75.2	65.8	63.2	71.8	66.0	62.2	73.7	65.7
Black	23.8	14.1	21.0	23.1	16.6	21.0	24.1	14.7	21.3
Other	14.2	10.7	13.2	13.7	11.6	13.0	13.7	11.6	13.0
Ethnicity	–	–	–	–	–	–	–	–	–
Hispanic	35.4	31.0	34.2	34.1	35.5	34.6	34.8	31.9	33.9
Non-Hispanic	64.6	69.0	65.8	65.9	64.5	65.4	65.2	68.1	66.1
Living arrangement	–	–	–	–	–	–	–	–	–
Two-parent family	52.3	73.1	58.3	53.0	65.6	57.1	52.6	69.9	57.9
Single-parent family	40.5	22.0	35.2	41.7	30.0	37.9	41.5	25.3	36.6
No-parent family	7.2	4.9	6.5	5.3	4.4	5.0	5.9	4.8	5.5
Related nonparent caretaker	5.0	4.9	5.0	3.1	4.4	3.5	3.5	4.8	3.9
Unrelated nonparent caretaker	2.2	0.0	1.6	2.2	0.0	1.5	2.3	0.0	1.6
Military status of household members	–	–	–	–	–	–	–	–	–
Ever served in U.S. military	5.1	13.0	7.3	4.8	11.6	7.0	4.6	11.3	6.6
Serving in U.S. military in 2017 ^c	2.5	0.8	2.0	1.0	0.3	0.8	1.7	1.0	1.5
Number of people in household	–	–	–	–	–	–	–	–	–
2	5.4	1.0	4.1	6.7	3.2	5.6	5.9	2.1	4.8
3	17.6	20.3	18.4	13.1	15.4	13.9	17.2	22.4	18.8
4	27.6	31.9	28.8	27.8	32.0	29.1	26.9	31.4	28.3
5	22.5	22.8	22.6	21.3	23.8	22.1	22.2	22.4	22.3
6 or more	26.9	24.0	26.1	31.1	25.5	29.3	27.8	21.6	25.9

Characteristics	Children Aged 3 Eligible for WIC			Children Aged 4 Eligible for WIC			Children Aged 1-4 Eligible for WIC		
	Family Income ≤ 185% FPG ^a	Adjunctively Eligible >185% FPG ^b	Total	Family Income ≤ 185% FPG ^a	Adjunctively Eligible >185% FPG ^b	Total	Family Income ≤ 185% FPG ^a	Adjunctively Eligible >185% FPG ^b	Total
	Percent with working parent(s)	69.8	90.3	75.7	76.1	88.6	80.2	71.6	87.2
Annual family income relative to FPG	-	-	-	-	-	-	-	-	-
No income	8.3	0.0	5.9	4.6	0.0	3.1	6.9	0.0	4.8
Up to 50% FPG	15.7	0.0	11.2	15.4	0.0	10.4	15.4	0.0	10.8
More than 50% up to 100% FPG	27.0	0.0	19.2	29.5	0.0	20.0	27.1	0.0	18.9
More than 100% up to 130% FPG	19.0	0.0	13.6	18.6	0.0	12.6	19.4	0.0	13.5
More than 130% up to 150% FPG	12.0	0.0	8.6	11.8	0.0	8.0	11.7	0.0	8.1
More than 150% up to 185% FPG	18.0	0.0	12.9	20.1	0.0	13.6	19.6	0.0	13.6
More than 185% up to 200% FPG	0.0	7.4	2.1	0.0	12.5	4.0	0.0	10.1	3.0
More than 200% FPG	0.0	92.6	26.5	0.0	87.5	28.2	0.0	89.9	27.3
Receipt of other benefits	-	-	-	-	-	-	-	-	-
No benefit receipt	23.8	0.0	17.0	24.1	0.0	16.3	23.1	0.0	16.1
Medicaid, SNAP, and TANF	5.2	0.9	4.0	3.6	1.3	2.9	4.7	0.8	3.5
SNAP and TANF only	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Medicaid and SNAP only	33.0	13.2	27.4	38.4	13.0	30.2	36.2	12.8	29.1
Medicaid and TANF only	0.0	0.6	0.2	0.4	1.1	0.6	0.3	1.1	0.6
SNAP only	5.2	1.3	4.1	5.8	2.5	4.7	5.7	2.6	4.7
TANF only	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Medicaid only	32.8	84.0	47.4	27.6	82.1	45.2	30.1	82.7	46.0

Notes

^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 as well as that partner's dependents. Infants and children in economic units with annual income less than or equal to 185 percent of the Federal Poverty Guidelines 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 Federal Poverty Guidelines for the unit's size.

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

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 U.S. Census Bureau estimates, monthly income, or nutritional risk.

This table does not include estimates for Puerto Rico or the other U.S. territories.

FPG = Federal Poverty Guidelines

"-" denotes blank cells.

Source: NBER, n.d.b

Table A.6b1. Estimated Average Monthly Numbers of Infants, and Children by Year of Age, Eligible for WIC by Demographic and Income Characteristics and Adjunctive Eligibility: CY 2017 (Fully Adjusted Weights, Counts)

Characteristics	Infants Eligible for WIC			Children Aged 1 Eligible for WIC			Children Aged 2 Eligible for WIC		
	Family Income ≤ 185% FPG ^a	Adjunctively Eligible >185% FPG ^b	Total	Family Income ≤ 185% FPG ^a	Adjunctively Eligible >185% FPG ^b	Total	Family Income ≤ 185% FPG ^a	Adjunctively Eligible >185% FPG ^b	Total
Total	1,525,255	670,053	2,195,309	1,513,034	706,068	2,219,101	1,581,967	658,240	2,240,208
Gender	–	–	–	–	–	–	–	–	–
Male	804,635	363,286	1,167,921	740,790	388,372	1,129,162	820,457	352,168	1,172,625
Female	720,621	306,767	1,027,388	772,244	317,696	1,089,940	761,510	306,072	1,067,583
Race	–	–	–	–	–	–	–	–	–
White	993,351	521,870	1,515,220	991,036	529,103	1,520,139	979,629	502,231	1,481,860
Black	309,988	79,272	389,260	336,784	94,973	431,757	384,424	81,959	466,383
Other	221,916	68,912	290,828	185,213	81,992	267,205	217,914	74,051	291,965
Ethnicity	–	–	–	–	–	–	–	–	–
Hispanic	599,753	172,407	772,160	540,715	186,436	727,151	526,431	222,102	748,533
Non-Hispanic	925,502	497,646	1,423,148	972,319	519,632	1,491,951	1,055,536	436,139	1,491,675
Living arrangement	–	–	–	–	–	–	–	–	–
Two-parent family	902,184	493,842	1,396,027	832,530	501,783	1,334,313	810,869	465,679	1,276,548
Single-parent family	550,839	162,916	713,754	602,461	161,910	764,371	679,481	168,456	847,937
No-parent family	72,232	13,295	85,528	78,042	42,375	120,418	91,618	24,105	115,723
Related nonparent caretaker	25,940	13,295	39,236	40,125	42,375	82,500	51,188	24,105	75,293
Unrelated nonparent caretaker	46,292	0	46,292	37,917	0	37,917	40,430	0	40,430
Military status of household members	–	–	–	–	–	–	–	–	–
Ever served in U.S. military	82,772	68,194	150,966	48,946	85,917	134,863	83,876	56,995	140,871
Serving in U.S. military in 2017 ^c	38,191	7,449	45,641	23,235	10,979	34,214	28,017	8,239	36,256
Number of people in household	–	–	–	–	–	–	–	–	–
2	75,931	12,474	88,406	84,308	13,989	98,297	95,422	14,471	109,893
3	357,989	218,465	576,454	291,678	215,971	507,649	291,068	150,350	441,418
4	379,445	196,328	575,773	386,748	186,915	573,663	422,872	237,657	660,529
5	344,217	116,353	460,570	340,951	161,109	502,060	352,347	132,203	484,549
6 or more	367,673	126,433	494,106	409,349	128,084	537,433	420,259	123,559	543,818

Characteristics	Infants Eligible for WIC			Children Aged 1 Eligible for WIC			Children Aged 2 Eligible for WIC		
	Family Income ≤ 185% FPG ^a	Adjunctively Eligible >185% FPG ^b	Total	Family Income ≤ 185% FPG ^a	Adjunctively Eligible >185% FPG ^b	Total	Family Income ≤ 185% FPG ^a	Adjunctively Eligible >185% FPG ^b	Total
Mean	4.6	4.3	4.5	4.7	4.4	4.6	4.7	4.4	4.6
Number with working parent(s)	1,024,159	561,912	1,586,071	1,014,114	577,649	1,591,763	1,173,685	583,779	1,757,464
Annual family income relative to FPG	–	–	–	–	–	–	–	–	–
No income	99,491	0	99,491	117,835	0	117,835	104,641	0	104,641
Up to 50% FPG	283,719	0	283,719	240,914	0	240,914	228,300	0	228,300
More than 50% up to 100% FPG	450,770	0	450,770	392,901	0	392,901	410,821	0	410,821
More than 100% up to 130% FPG	279,249	0	279,249	274,357	0	274,357	345,723	0	345,723
More than 130% up to 150% FPG	170,536	0	170,536	200,819	0	200,819	154,136	0	154,136
More than 150% up to 185% FPG	241,490	0	241,490	286,208	0	286,208	338,347	0	338,347
More than 185% up to 200% FPG	0	63,817	63,817	0	72,166	72,166	0	64,300	64,300
More than 200% FPG	0	606,236	606,236	0	633,902	633,902	0	593,941	593,941
Receipt of other benefits	–	–	–	–	–	–	–	–	–
No benefit receipt	341,411	0	341,411	319,662	0	319,662	375,564	0	375,564
Medicaid, SNAP, and TANF	74,445	11,108	85,553	73,682	4,788	78,470	76,407	1,858	78,264
SNAP and TANF only	0	0	0	0	0	0	0	0	0
Medicaid and SNAP only	411,978	120,097	532,075	554,794	75,956	630,749	570,695	93,938	664,632
Medicaid and TANF only	4,429	2,385	6,813	8,769	9,276	18,045	4,632	8,381	13,013
SNAP only	124,920	19,874	144,794	98,703	26,097	124,799	79,356	17,130	96,486
TANF only	0	0	0	0	0	0	0	0	0
Medicaid only	568,073	516,589	1,084,662	457,425	589,952	1,047,376	475,314	536,934	1,012,248

Notes

^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 as well as that partner's dependents. Infants and children in economic units with annual income less than or equal to 185 percent of the Federal Poverty Guidelines 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 Federal Poverty Guidelines for the unit's size.

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

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 U.S. Census Bureau estimates, monthly income, or nutritional risk.

This table does not include estimates for Puerto Rico or the other U.S. territories.

FPG = Federal Poverty Guidelines

"–" denotes blank cells.

Source: NBER, n.d.b

Table A.6b1 (continued). Estimated Average Monthly Numbers of Infants, and Children by Year of Age, Eligible for WIC by Demographic and Income Characteristics and Adjunctive Eligibility: CY 2017 (Fully Adjusted Weights, Counts)

Characteristics	Children Aged 3 Eligible for WIC			Children Aged 4 Eligible for WIC			Children Aged 1-4 Eligible for WIC		
	Family Income ≤ 185% FPG ^a	Adjunctively Eligible >185% FPG ^b	Total	Family Income ≤ 185% FPG ^a	Adjunctively Eligible >185% FPG ^b	Total	Family Income ≤ 185% FPG ^a	Adjunctively Eligible >185% FPG ^b	Total
Total	1,536,592	624,810	2,161,402	1,429,963	683,176	2,113,139	6,061,556	2,672,294	8,733,851
Gender	–	–	–	–	–	–	–	–	–
Male	740,012	308,294	1,048,306	727,151	326,987	1,054,138	3,028,410	1,375,821	4,404,231
Female	796,580	316,515	1,113,096	702,812	356,189	1,059,001	3,033,146	1,296,473	4,329,619
Race	–	–	–	–	–	–	–	–	–
White	977,589	478,970	1,456,559	911,952	495,562	1,407,515	3,860,207	2,005,866	5,866,073
Black	350,092	82,866	432,958	327,101	111,405	438,506	1,398,402	371,203	1,769,605
Other	208,911	62,974	271,885	190,909	76,208	267,118	802,947	295,225	1,098,173
Ethnicity	–	–	–	–	–	–	–	–	–
Hispanic	539,837	189,379	729,216	478,026	236,948	714,974	2,085,009	834,864	2,919,873
Non-Hispanic	996,756	435,431	1,432,186	951,937	446,228	1,398,165	3,976,548	1,837,430	5,813,978
Living arrangement	–	–	–	–	–	–	–	–	–
Two-parent family	808,614	457,212	1,265,826	761,694	448,807	1,210,501	3,213,707	1,873,481	5,087,188
Single-parent family	618,435	137,105	755,540	592,413	204,067	796,480	2,492,791	671,538	3,164,328
No-parent family	109,544	30,493	140,036	75,855	30,302	106,158	355,059	127,276	482,335
Related nonparent caretaker	75,439	30,493	105,931	44,790	30,302	75,093	211,542	127,276	338,818
Unrelated nonparent caretaker	34,105	0	34,105	31,065	0	31,065	143,517	0	143,517
Military status of household members	–	–	–	–	–	–	–	–	–
Ever served in U.S. military	78,651	82,355	161,006	69,428	79,554	148,982	280,901	304,822	585,722
Serving in U.S. military in 2017 ^c	38,963	5,249	44,212	14,900	1,842	16,742	105,115	26,309	131,424
Number of people in household	–	–	–	–	–	–	–	–	–
2	83,467	5,924	89,391	95,234	21,858	117,092	358,431	56,242	414,673
3	269,609	127,842	397,451	187,273	105,117	292,389	1,039,628	599,280	1,638,908
4	425,324	199,698	625,022	397,473	219,939	617,412	1,632,416	844,209	2,476,625
5	346,245	142,607	488,851	305,619	162,915	468,534	1,345,162	598,833	1,943,995
6 or more	411,948	148,739	560,687	444,364	173,348	617,712	1,685,919	573,730	2,259,649

Characteristics	Children Aged 3 Eligible for WIC			Children Aged 4 Eligible for WIC			Children Aged 1-4 Eligible for WIC		
	Family Income ≤ 185% FPG ^a	Adjunctively Eligible >185% FPG ^b	Total	Family Income ≤ 185% FPG ^a	Adjunctively Eligible >185% FPG ^b	Total	Family Income ≤ 185% FPG ^a	Adjunctively Eligible >185% FPG ^b	Total
Mean	4.7	4.7	4.7	4.9	4.7	4.8	4.7	4.6	4.7
Number with working parent(s)	1,074,398	564,210	1,638,609	1,089,299	605,499	1,694,798	4,351,497	2,331,137	6,682,634
Annual family income relative to FPG	-	-	-	-	-	-	-	-	-
No income	125,848	0	125,848	65,489	0	65,489	413,812	0	413,812
Up to 50% FPG	241,197	0	241,197	219,993	0	219,993	930,403	0	930,403
More than 50% up to 100% FPG	413,112	0	413,112	420,409	0	420,409	1,637,244	0	1,637,244
More than 100% up to 130% FPG	292,436	0	292,436	267,061	0	267,061	1,179,576	0	1,179,576
More than 130% up to 150% FPG	185,645	0	185,645	167,640	0	167,640	708,240	0	708,240
More than 150% up to 185% FPG	278,355	0	278,355	289,371	0	289,371	1,192,281	0	1,192,281
More than 185% up to 200% FPG	0	44,961	44,961	0	85,590	85,590	0	267,016	267,016
More than 200% FPG	0	579,848	579,848	0	597,586	597,586	0	2,405,278	2,405,278
Receipt of other benefits	-	-	-	-	-	-	-	-	-
No benefit receipt	368,018	0	368,018	345,244	0	345,244	1,408,488	0	1,408,488
Medicaid, SNAP, and TANF	78,482	5,751	84,233	51,580	9,135	60,714	280,150	21,532	301,682
SNAP and TANF only	0	0	0	0	0	0	0	0	0
Medicaid and SNAP only	504,381	82,301	586,682	548,024	88,116	636,140	2,177,894	340,310	2,518,204
Medicaid and TANF only	256	3,729	3,985	5,996	7,351	13,347	19,653	28,737	48,390
SNAP only	80,214	8,299	88,513	82,917	16,970	99,887	341,190	68,496	409,686
TANF only	0	0	0	0	0	0	0	0	0
Medicaid only	505,241	524,729	1,029,971	396,202	561,604	957,806	1,834,182	2,213,219	4,047,401

Notes

^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 as well as that partner's dependents. Infants and children in economic units with annual income less than or equal to 185 percent of the Federal Poverty Guidelines 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 Federal Poverty Guidelines for the unit's size.

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

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 U.S. Census Bureau estimates, monthly income, or nutritional risk.

This table does not include estimates for Puerto Rico or the other U.S. territories.

FPG = Federal Poverty Guidelines

"-" denotes blank cells.

Source: NBER, n.d.b

Table A.6b2. Estimated Average Monthly Numbers of Infants, and Children by Year of Age, Eligible for WIC by Demographic and Income Characteristics and Adjunctive Eligibility: CY 2017 (Fully Adjusted Weights, Percentages)

Characteristics	Infants Eligible for WIC			Children Aged 1 Eligible for WIC			Children Aged 2 Eligible for WIC		
	Family Income ≤ 185% FPG ^a	Adjunctively Eligible >185% FPG ^b	Total	Family Income ≤ 185% FPG ^a	Adjunctively Eligible >185% FPG ^b	Total	Family Income ≤ 185% FPG ^a	Adjunctively Eligible >185% FPG ^b	Total
Total	1,525,255	670,053	2,195,309	1,513,034	706,068	2,219,101	1,581,967	658,240	2,240,208
Gender	–	–	–	–	–	–	–	–	–
Male	52.8	54.2	53.2	49.0	55.0	50.9	51.9	53.5	52.3
Female	47.2	45.8	46.8	51.0	45.0	49.1	48.1	46.5	47.7
Race	–	–	–	–	–	–	–	–	–
White	65.1	77.9	69.0	65.5	74.9	68.5	61.9	76.3	66.1
Black	20.3	11.8	17.7	22.3	13.5	19.5	24.3	12.5	20.8
Other	14.5	10.3	13.2	12.2	11.6	12.0	13.8	11.3	13.0
Ethnicity	–	–	–	–	–	–	–	–	–
Hispanic	39.3	25.7	35.2	35.7	26.4	32.8	33.3	33.7	33.4
Non-Hispanic	60.7	74.3	64.8	64.3	73.6	67.2	66.7	66.3	66.6
Living arrangement	–	–	–	–	–	–	–	–	–
Two-parent family	59.2	73.7	63.6	55.0	71.1	60.1	51.3	70.7	57.0
Single-parent family	36.1	24.3	32.5	39.8	22.9	34.4	43.0	25.6	37.9
No-parent family	4.7	2.0	3.9	5.2	6.0	5.4	5.8	3.7	5.2
Related non-parent caretaker	1.7	2.0	1.8	2.7	6.0	3.7	3.2	3.7	3.4
Unrelated non-parent caretaker	3.0	0.0	2.1	2.5	0.0	1.7	2.6	0.0	1.8
Military status of household members	–	–	–	–	–	–	–	–	–
Ever served in U.S. military	5.4	10.2	6.9	3.2	12.2	6.1	5.3	8.7	6.3
Serving in U.S. military in 2017 ^c	2.5	1.1	2.1	1.5	1.6	1.5	1.8	1.3	1.6
Number of people in household	–	–	–	–	–	–	–	–	–
2	5.0	1.9	4.0	5.6	2.0	4.4	6.0	2.2	4.9
3	23.5	32.6	26.3	19.3	30.6	22.9	18.4	22.8	19.7
4	24.9	29.3	26.2	25.6	26.5	25.9	26.7	36.1	29.5
5	22.6	17.4	21.0	22.5	22.8	22.6	22.3	20.1	21.6
6 or more	24.1	18.9	22.5	27.1	18.1	24.2	26.6	18.8	24.3

Characteristics	Infants Eligible for WIC			Children Aged 1 Eligible for WIC			Children Aged 2 Eligible for WIC		
	Family Income ≤ 185% FPG ^a	Adjunctively Eligible >185% FPG ^b	Total	Family Income ≤ 185% FPG ^a	Adjunctively Eligible >185% FPG ^b	Total	Family Income ≤ 185% FPG ^a	Adjunctively Eligible >185% FPG ^b	Total
Percent with working parent(s)	67.1	83.9	72.2	67.0	81.8	71.7	74.2	88.7	78.5
Annual family income relative to FPG ^b	–	–	–	–	–	–	–	–	–
No income	6.5	0.0	4.5	7.8	0.0	5.3	6.6	0.0	4.7
Up to 50% FPG	18.6	0.0	12.9	15.9	0.0	10.9	14.4	0.0	10.2
More than 50% up to 100% FPG	29.6	0.0	20.5	26.0	0.0	17.7	26.0	0.0	18.3
More than 100% up to 130% FPG	18.3	0.0	12.7	18.1	0.0	12.4	21.9	0.0	15.4
More than 130% up to 150% FPG	11.2	0.0	7.8	13.3	0.0	9.1	9.7	0.0	6.9
More than 150% up to 185% FPG	15.8	0.0	11.0	18.9	0.0	12.9	21.4	0.0	15.1
More than 185% up to 200% FPG	0.0	9.5	2.9	0.0	10.2	3.3	0.0	9.8	2.9
More than 200% FPG ^d	0.0	90.5	27.6	0.0	89.8	28.6	0.0	90.2	26.5
Receipt of other benefits	–	–	–	–	–	–	–	–	–
No benefit receipt	22.4	0.0	15.6	21.1	0.0	14.4	23.7	0.0	16.8
Medicaid, SNAP, and TANF	4.9	1.7	3.9	4.9	0.7	3.5	4.8	0.3	3.5
SNAP and TANF only	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Medicaid and SNAP only	27.0	17.9	24.2	36.7	10.8	28.4	36.1	14.3	29.7
Medicaid and TANF only	0.3	0.4	0.3	0.6	1.3	0.8	0.3	1.3	0.6
SNAP only	8.2	3.0	6.6	6.5	3.7	5.6	5.0	2.6	4.3
TANF only	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Medicaid only	37.2	77.1	49.4	30.2	83.6	47.2	30.0	81.6	45.2

Notes

^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 as well as that partner's dependents. Infants and children in economic units with annual income less than or equal to 185 percent of the Federal Poverty Guidelines (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 only if they resided in civilian housing on or off a military base.

^d Although 28 percent of infants eligible for WIC were in households with annual income that exceeded 200 percent of the FPG, among WIC participants, this percentage was much lower (1.2 percent of total participants in 2016; Thorn et al., 2018). The table shows the mutually exclusive count 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.

This table does not include estimates for Puerto Rico or the other U.S. territories.

"–" denotes blank cells.

FPG = Federal Poverty Guidelines

Source: NBER, n.d.b

Table A.6b2 (continued). Estimated Average Monthly Numbers of Infants, and Children by Year of Age, Eligible for WIC by Demographic and Income Characteristics and Adjunctive Eligibility: CY 2017 (Fully Adjusted Weights, Percentages)

Characteristics	Children Aged 3 Eligible for WIC			Children Aged 4 Eligible for WIC			Children Aged 1–4 Eligible for WIC		
	Family Income ≤ 185% FPG ^a	Adjunctively Eligible >185% FPG ^b	Total	Family Income ≤ 185% FPG ^a	Adjunctively Eligible >185% FPG ^b	Total	Family Income ≤ 185% FPG ^a	Adjunctively Eligible >185% FPG ^b	Total
Total	1,536,592	624,810	2,161,402	1,429,963	683,176	2,113,139	6,061,556	2,672,294	8,733,851
Gender	–	–	–	–	–	–	–	–	–
Male	48.2	49.3	48.5	50.9	47.9	49.9	50.0	51.5	50.4
Female	51.8	50.7	51.5	49.1	52.1	50.1	50.0	48.5	49.6
Race	–	–	–	–	–	–	–	–	–
White	63.6	76.7	67.4	63.8	72.5	66.6	63.7	75.1	67.2
Black	22.8	13.3	20.0	22.9	16.3	20.8	23.1	13.9	20.3
Other	13.6	10.1	12.6	13.4	11.2	12.6	13.2	11.0	12.6
Ethnicity	–	–	–	–	–	–	–	–	–
Hispanic	35.1	30.3	33.7	33.4	34.7	33.8	34.4	31.2	33.4
Non-Hispanic	64.9	69.7	66.3	66.6	65.3	66.2	65.6	68.8	66.6
Living arrangement	–	–	–	–	–	–	–	–	–
Two-parent family	52.6	73.2	58.6	53.3	65.7	57.3	53.0	70.1	58.2
Single-parent family	40.2	21.9	35.0	41.4	29.9	37.7	41.1	25.1	36.2
No-parent family	7.1	4.9	6.5	5.3	4.4	5.0	5.9	4.8	5.5
Related nonparent caretaker	4.9	4.9	4.9	3.1	4.4	3.6	3.5	4.8	3.9
Unrelated nonparent caretaker	2.2	0.0	1.6	2.2	0.0	1.5	2.4	0.0	1.6
Military status of household members	–	–	–	–	–	–	–	–	–
Ever served in U.S. military	5.1	13.2	7.4	4.9	11.6	7.1	4.6	11.4	6.7
Serving in U.S. military in 2017 ^c	2.5	0.8	2.0	1.0	0.3	0.8	1.7	1.0	1.5
Number of people in household	–	–	–	–	–	–	–	–	–
2	5.4	0.9	4.1	6.7	3.2	5.5	5.9	2.1	4.7
3	17.5	20.5	18.4	13.1	15.4	13.8	17.2	22.4	18.8
4	27.7	32.0	28.9	27.8	32.2	29.2	26.9	31.6	28.4
5	22.5	22.8	22.6	21.4	23.8	22.2	22.2	22.4	22.3
6 or more	26.8	23.8	25.9	31.1	25.4	29.2	27.8	21.5	25.9

Characteristics	Children Aged 3 Eligible for WIC			Children Aged 4 Eligible for WIC			Children Aged 1-4 Eligible for WIC		
	Family Income ≤ 185% FPG ^a	Adjunctively Eligible >185% FPG ^b	Total	Family Income ≤ 185% FPG ^a	Adjunctively Eligible >185% FPG ^b	Total	Family Income ≤ 185% FPG ^a	Adjunctively Eligible >185% FPG ^b	Total
Percent with working parent(s)	69.9	90.3	75.8	76.2	88.6	80.2	71.8	87.2	76.5
Annual family income relative to FPG	–	–	–	–	–	–	–	–	–
No income	8.2	0.0	5.8	4.6	0.0	3.1	6.8	0.0	4.7
Up to 50% FPG	15.7	0.0	11.2	15.4	0.0	10.4	15.3	0.0	10.7
More than 50% up to 100% FPG	26.9	0.0	19.1	29.4	0.0	19.9	27.0	0.0	18.7
More than 100% up to 130% FPG	19.0	0.0	13.5	18.7	0.0	12.6	19.5	0.0	13.5
More than 130% up to 150% FPG	12.1	0.0	8.6	11.7	0.0	7.9	11.7	0.0	8.1
More than 150% up to 185% FPG	18.1	0.0	12.9	20.2	0.0	13.7	19.7	0.0	13.7
More than 185% up to 200% FPG	0.0	7.2	2.1	0.0	12.5	4.1	0.0	10.0	3.1
More than 200% FPG ^d	0.0	92.8	26.8	0.0	87.5	28.3	0.0	90.0	27.5
Receipt of other benefits	–	–	–	–	–	–	–	–	–
No benefit receipt	24.0	0.0	17.0	24.1	0.0	16.3	23.2	0.0	16.1
Medicaid, SNAP, and TANF	5.1	0.9	3.9	3.6	1.3	2.9	4.6	0.8	3.5
SNAP and TANF only	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Medicaid and SNAP only	32.8	13.2	27.1	38.3	12.9	30.1	35.9	12.7	28.8
Medicaid and TANF only	0.0	0.6	0.2	0.4	1.1	0.6	0.3	1.1	0.6
SNAP only	5.2	1.3	4.1	5.8	2.5	4.7	5.6	2.6	4.7
TANF only	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Medicaid only	32.9	84.0	47.7	27.7	82.2	45.3	30.3	82.8	46.3

Notes

^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 as well as that partner's dependents. Infants and children in economic units with annual income less than or equal to 185 percent of the Federal Poverty Guidelines 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 Federal Poverty Guidelines for the unit's size.

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

^d Although 28 percent of infants and children eligible for WIC were in households with annual income that exceeded 200 percent of the FPG, among WIC participants, this percentage was much lower (1.2 percent of total participants in 2016; Thorn et al., 2018). The table shows the mutually exclusive count 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.

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 U.S. Census Bureau estimates, monthly income, or nutritional risk.

This table does not include estimates for Puerto Rico and the other U.S. territories.

FPG = Federal Poverty Guidelines

“–” denotes blank cells.

Source: NBER, n.d.b

Table A.7. Changes in the Total Population, Total WIC Eligibility, and WIC Eligibility Rates by Participant Category: CY 2015–CY 2017

Participant Category	2015	2016	2017	Percent Change 2015–2017
Total Population				
Infants	3,998,800	3,966,090	3,959,629	-1.0
Children aged 1–4	16,142,707	16,193,444	16,133,557	-0.1
Children aged 1	4,044,481	4,068,849	3,983,480	-1.5
Children aged 2	4,034,206	4,080,801	4,046,080	0.3
Children aged 3	4,031,844	4,034,985	4,074,089	1.0
Children aged 4	4,032,176	4,008,809	4,029,908	-0.1
Pregnant women	2,987,403	2,962,967	2,953,892	-1.1
Postpartum women	3,983,205	3,950,623	3,939,025	-1.1
Breastfeeding women	2,147,025	2,241,095	2,338,744	8.9*
Non-breastfeeding women	1,836,179	1,709,528	1,600,281	-12.8*
Total	27,112,115	27,073,124	26,986,104	-0.5
Total Eligible				
Infants	2,506,686	2,159,041	2,227,965	-11.1*
Children aged 1–4	9,268,848	8,907,712	8,859,001	-4.4*
Children aged 1	2,274,986	2,317,916	2,250,293	-1.1
Children aged 2	2,321,950	2,222,568	2,268,129	-2.3
Children aged 3	2,340,558	2,215,120	2,194,926	-6.2*
Children aged 4	2,331,355	2,152,108	2,145,654	-8.0*
Pregnant women	1,634,852	1,408,119	1,452,144	-11.2*
Postpartum women	1,652,116	1,458,923	1,533,038	-7.2*
Breastfeeding women	1,034,333	949,592	1,028,863	-0.5
Non-breastfeeding women	617,783	509,331	504,175	-18.4*
Total	15,062,503	13,933,795	14,072,148	-6.6*
Eligibility Rate				
Infants	62.7	54.4	56.3	-10.2*
Children aged 1–4	57.4	55.0	54.9	-4.4*
Children aged 1	56.2	57.0	56.5	0.4
Children aged 2	57.6	54.5	56.1	-2.6
Children aged 3	58.1	54.9	53.9	-7.2*
Children aged 4	57.8	53.7	53.2	-7.9*
Pregnant women	54.7	47.5	49.2	-10.2*
Postpartum women	41.5	36.9	38.9	-6.2*
Breastfeeding women	48.2	42.4	44.0	-8.7*
Non-breastfeeding women	33.6	29.8	31.5	-6.4*
Total	55.6	51.5	52.1	-6.1*

Notes

* Indicates a statistically significant difference between the 2015 and 2017 estimates of individuals eligible for WIC or WIC eligibility rate at the 95-percent confidence level. The statistical significance testing was conducted on the 2015–2017 change in WIC eligibility based on the CPS-ASEC data, which included data only for States. It did not include data for Puerto Rico or the other U.S. territories served by WIC.

The 2017 estimates are compared with the 2015 estimates because of the single-year anomaly that resulted from the small sample sizes in the CPS-ASEC data for 2016. See chapter 3 of volume I for more information.

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

Table A.8. Stepwise Comparison of Changes in Average Monthly Numbers of Infants and Children Eligible for WIC as Estimated in the March CPS-ASEC: CY 2015–CY 2017

Step	Infants	Children Aged 1–4	Total
2015			
Total number of infants/children in the March CPS	3,876,774	16,045,983	19,922,757
Number (non-U.S. territory) after adjustment for CPS undercount/overcount	3,959,291	15,978,073	19,937,364
Number with annual income < 185% FPG	1,654,704	6,315,836	7,970,540
Number with adjunctive eligibility	621,483	2,478,408	3,099,891
Through SNAP	110,205	600,043	710,248
Through TANF	6,897	9,745	16,642
Through Medicaid	504,382	1,868,619	2,373,001
Number before monthly income adjustment	2,276,187	8,794,243	11,070,431
Number after monthly income adjustment	2,545,826	9,224,611	11,770,437
Total eligibility: Number after adjustment for nutritional risk (infants and children)	2,469,451	9,132,365	11,601,816
2016			
Total number of infants/children in the March CPS	3,822,275	16,131,250	19,953,525
Number (non-U.S. territory) after adjustment for CPS undercount/overcount	3,929,453	16,036,048	19,965,501
Number with annual income < 185% FPG	1,282,473	5,914,209	7,196,682
Number with adjunctive eligibility	674,832	2,507,080	3,181,913
Through SNAP	149,963	536,013	685,976
Through TANF	6,591	23,266	29,857
Through Medicaid	518,278	1,947,801	2,466,079
Number before monthly income adjustment	1,957,305	8,421,289	10,378,594
Number after monthly income adjustment	2,192,433	8,857,494	11,049,927
Total eligibility: Number after adjustment for nutritional risk (infants and children)	2,126,660	8,768,919	10,895,579
2017			
Total number of infants/children in the March CPS	3,836,768	16,092,459	19,929,227
Number (non-U.S. territory) after adjustment for CPS undercount/overcount	3,925,839	15,987,345	19,913,184
Number with annual income < 185% FPG	1,418,737	5,835,505	7,254,242
Number with adjunctive eligibility	606,715	2,551,502	3,158,216
Through SNAP	139,217	413,416	552,633
Through TANF	2,297	27,240	29,538
Through Medicaid	465,200	2,110,846	2,576,046
Number before monthly income adjustment	2,025,452	8,387,007	10,412,459
Number after monthly income adjustment	2,263,205	8,822,071	11,085,276
Total eligibility: Number after adjustment for nutritional risk (infants and children)	2,195,309	8,733,851	10,929,159

Step	Infants	Children Aged 1-4	Total
Percent Change 2015–2017			
Total number of infants/children in the March CPS	-1.0	0.3	0.0
Number (non-U.S. territory) after adjustment for CPS undercount/overcount	-0.8	0.1	-0.1
Number with annual income < 185% FPG	-14.3	-7.6	-9.0
Number with adjunctive eligibility	-2.4	2.9	1.9
Through SNAP	26.3	-31.1	-22.2
Through TANF	-66.7	179.5	77.5
Through Medicaid	-7.8	13.0	8.6
Number before monthly income adjustment	-11.0	-4.6	-5.9
Number after monthly income adjustment	-11.1	-4.4	-5.8
Total eligibility: Number after adjustment for nutritional risk (infants and children)	-11.1	-4.4	-5.8

Notes

The 2017 estimates are compared with the 2015 estimates because of the single-year anomaly that resulted from the small sample sizes in the CPS-ASEC data for 2016. See chapter 3 of volume I for more information.

This table does not include estimates for Puerto Rico or the other U.S. territories.

Sources: NBER, n.d.b; IPUMS-USA, n.d.; U.S. Census Bureau, n.d.c; Thorn et al., 2018

Table A.9. Standard Error and Coefficient of Variation for Estimates by Participant Category: CY 2017

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	3,925,839	2,195,309	46,994	64,497	1.2	2.9
Children aged 1–4	15,987,345	8,733,851	39,998	121,801	0.3	1.4
Children aged 1	3,949,172	2,219,101	39,727	55,717	1.0	2.5
Children aged 2	4,010,180	2,240,208	39,900	54,784	1.0	2.4
Children aged 3	4,036,674	2,161,402	40,522	54,243	1.0	2.5
Children aged 4	3,991,319	2,113,139	40,896	55,532	1.0	2.6
Pregnant women	2,928,625	1,430,824	35,196	42,034	1.2	2.9
Postpartum breastfeeding women	2,319,012	1,013,819	24,503	29,296	1.1	2.9
Postpartum non-breastfeeding women	1,586,323	496,751	22,861	14,995	1.4	3.0
Total	26,747,144	13,870,554	89,504	195,515	0.3	1.4

Notes

The coefficient of variation is defined as the ratio of the standard error to the eligibility estimate.

This table does not include estimates for Puerto Rico or the other U.S. territories.

Sources: NBER, n.d.a, n.d.b

Appendix B. Detailed Tables for State and Regional WIC Estimates: CY 2017

The tables in this appendix present detailed estimates of individuals eligible for WIC and coverage rates by State and FNS region for 2017. A list of the seven FNS regions and the States included in each region follows. Note that 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

▶ **Northeast**

- Connecticut
- Maine
- Massachusetts
- New Hampshire
- New York
- Rhode Island
- Vermont

▶ **Mid-Atlantic**

- Delaware
- District of Columbia
- Maryland
- New Jersey
- Pennsylvania
- Puerto Rico
- U.S. Virgin Islands
- Virginia
- West Virginia

▶ **Southeast**

- Alabama
- Florida
- Georgia
- Kentucky
- Mississippi
- North Carolina
- South Carolina
- Tennessee

▶ **Midwest**

- Illinois
- Indiana
- Michigan
- Minnesota
- Ohio
- Wisconsin

▶ **Southwest**

- Arkansas
- Louisiana
- New Mexico
- Oklahoma
- Texas

▶ **Mountain Plains**

- Colorado
- Iowa
- Kansas
- Missouri
- Montana
- Nebraska
- North Dakota
- South Dakota
- Utah
- Wyoming

▶ **Western**

- Alaska
- American Samoa
- Arizona
- California
- Guam
- Hawaii
- Idaho
- Nevada
- Northern Mariana Islands
- Oregon
- Washington

Table B.1. WIC Eligibility and Coverage Rates by State and FNS Region: CY 2017

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 B.2. WIC Eligibility and Coverage Rates by FNS Region and States in Each Region: CY 2017

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 region.

Table B.3. WIC Eligibility, Participants, and Coverage Rates by FNS Region and Participant Category: CY 2017

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 B.4. WIC Eligibility Standard Errors by State and FNS Region: CY 2017

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.

Table B.5. WIC Eligibility Standard Errors by FNS Region and States in Each Region: CY 2017

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 region.

Table B.6. Standard Errors for WIC Eligibility by FNS Region and Participant Category: CY 2017

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.

Table B.7. 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 2017

Analogous to table A.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 B.7a) and the other U.S. territories (table B.7b) based on the PRCS data for Puerto Rico (IPUMS-USA, n.d.) and the U.S. Census Bureau population estimates for the other territories (U.S. Census Bureau, n.d.c).

Table B.8. Regional Estimates of the Average Monthly Numbers of Infants and Children Eligible for WIC by Demographic and Income Characteristics: CY 2017

This table shows the estimated numbers of infants and children eligible for WIC by demographic and income characteristics in the CPS-ASEC data by FNS region (NBER, n.d.b). It is similar to table A.6a but shows the data by region and does not show results for children by year of age. Note that this table does not include infants and children from Puerto Rico or the other 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.

Table B.9. WIC Coverage Rates by State: CY 2005–CY 2017

This table shows WIC coverage rates by State and year.

Table B.10. WIC Coverage Rates by State and Participant Category With Margins of Error for 95-Percent Confidence Intervals: CY 2017

This table shows the coverage rates by State and participant category and the associated margins of error (MOEs). The MOE is a measure of the estimate’s variability. The larger the MOE in relation to the size of the estimate, the less reliable the estimate. This number, when added to and subtracted from the estimate, forms the 95-percent confidence interval.

Table B.11. State-Level WIC Coverage Rates by Race and Ethnicity With Margins of Error for 95-Percent Confidence Intervals: CY 2017

This table shows the State-level coverage rates by race and ethnicity and the associated MOEs.

Table B.1. WIC Eligibility, Participants, and Coverage Rates by State and FNS Region: CY 2017

State	Number Eligible	Number Participating	Coverage Rate
Alabama	233,113	122,657	52.6
Alaska	45,746	17,862	39.0*
Arizona	331,674	152,280	45.9*
Arkansas	156,252	76,048	48.7
California	1,731,574	1,057,320	61.1*
Colorado	208,724	84,911	40.7*
Connecticut	98,290	47,771	48.6
Delaware	39,560	17,186	43.4*
District of Columbia	29,059	13,277	45.7
Florida	908,771	462,817	50.9
Georgia	500,128	232,429	46.5*
Hawaii	61,106	26,328	43.1*
Idaho	85,677	35,771	41.8*
Illinois	498,136	208,451	41.8*
Indiana	298,343	144,140	48.3
Iowa	121,618	61,745	50.8
Kansas	128,825	53,126	41.2*
Kentucky	216,964	107,041	49.3
Louisiana	252,345	118,470	46.9*
Maine	37,944	19,048	50.2
Maryland	204,479	131,490	64.3*
Massachusetts	201,490	111,809	55.5*
Michigan	415,002	221,742	53.4*
Minnesota	186,988	110,004	58.8*
Mississippi	155,003	84,724	54.7*
Missouri	255,988	118,363	46.2*

State	Number Eligible	Number Participating	Coverage Rate
Montana	48,102	17,123	35.6*
Nebraska	75,351	37,108	49.2
Nevada	135,926	65,665	48.3
New Hampshire	35,127	12,878	36.7*
New Jersey	277,388	146,735	52.9
New Mexico	117,289	49,392	42.1*
New York	799,111	430,658	53.9*
North Carolina	445,957	228,903	51.3
North Dakota	24,631	12,656	51.4
Ohio	467,359	218,513	46.8*
Oklahoma	213,200	104,199	48.9
Oregon	169,149	88,657	52.4
Pennsylvania	464,955	225,052	48.4
Puerto Rico	167,701	133,910	79.9
Rhode Island	33,206	19,315	58.2*
South Carolina	227,089	98,059	43.2*
South Dakota	38,491	18,165	47.2
Tennessee	312,747	134,149	42.9*
Texas	1,532,041	806,672	52.7*
Utah	138,611	52,742	38.1*
Vermont	22,389	11,482	51.3
Virginia	284,062	119,876	42.2*
Washington	311,716	153,762	49.3
West Virginia	77,252	37,640	48.7
Wisconsin	193,367	95,164	49.2
Wyoming	23,237	9,905	42.6
FNS Region			
Northeast	1,227,558	652,961	53.2*
Mid-Atlantic	1,551,782	828,615	53.4
Southeast	2,999,772	1,470,778	49.0*
Midwest	2,059,194	998,015	48.5*
Southwest	2,271,127	1,154,780	50.8
Mountain Plains	1,063,577	465,845	43.8*
Western	2,899,138	1,613,084	55.6*
Total	14,072,148	7,184,078	51.1

Notes

* 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 data, which included data only for States. It did not include data for Puerto Rico or the other U.S. territories served by WIC; therefore, no statistical testing was done to compare the provided coverage rate for Puerto Rico to that of the national coverage rate.

State and regional eligibility estimates and participant data include individuals in Indian Tribal Organizations who were eligible for 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. Estimates for Puerto Rico are shown separately and included in the Mid-Atlantic regional totals. As a result, the Mid-Atlantic regional coverage rate was excluded from significance testing. When Puerto Rico was excluded from the Mid-Atlantic region, the regional coverage rate was 50.2 percent, which is not statistically different from the national coverage rate at a 95-percent confidence level.

Sources: IPUMS-USA, n.d.; NBER, n.d.b; U.S. Census Bureau, n.d.c.; unpublished internal WIC administrative data

Table B.2. WIC Eligibility, Participants, and Coverage Rates by FNS Region and States in Each Region: CY 2017

FNS Region and State	Number Eligible	Number Participating	Coverage Rate
Northeast	1,227,558	652,961	53.2*
Connecticut	98,290	47,771	48.6
Maine	37,944	19,048	50.2
Massachusetts	201,490	111,809	55.5*
New Hampshire	35,127	12,878	36.7*
New York	799,111	430,658	53.9*
Rhode Island	33,206	19,315	58.2*
Vermont	22,389	11,482	51.3
Mid-Atlantic	1,551,782	828,615	53.4
Delaware	39,560	17,186	43.4*
District of Columbia	29,059	13,277	45.7
Maryland	204,479	131,490	64.3*
New Jersey	277,388	146,735	52.9
Pennsylvania	464,955	225,052	48.4
Puerto Rico	167,701	133,910	79.9
Virginia	284,062	119,876	42.2*
West Virginia	77,252	37,640	48.7
Southeast	2,999,772	1,470,778	49.0*
Alabama	233,113	122,657	52.6
Florida	908,771	462,817	50.9
Georgia	500,128	232,429	46.5*
Kentucky	216,964	107,041	49.3
Mississippi	155,003	84,724	54.7*
North Carolina	445,957	228,903	51.3
South Carolina	227,089	98,059	43.2*
Tennessee	312,747	134,149	42.9*
Midwest	2,059,194	998,015	48.5*
Illinois	498,136	208,451	41.8*
Indiana	298,343	144,140	48.3
Michigan	415,002	221,742	53.4*
Minnesota	186,988	110,004	58.8*
Ohio	467,359	218,513	46.8*
Wisconsin	193,367	95,164	49.2
Southwest	2,271,127	1,154,780	50.8
Arkansas	156,252	76,048	48.7
Louisiana	252,345	118,470	46.9*
New Mexico	117,289	49,392	42.1*
Oklahoma	213,200	104,199	48.9
Texas	1,532,041	806,672	52.7*

FNS Region and State	Number Eligible	Number Participating	Coverage Rate
Mountain Plains	1,063,577	465,845	43.8*
Colorado	208,724	84,911	40.7*
Iowa	121,618	61,745	50.8
Kansas	128,825	53,126	41.2*
Missouri	255,988	118,363	46.2*
Montana	48,102	17,123	35.6*
Nebraska	75,351	37,108	49.2
North Dakota	24,631	12,656	51.4
South Dakota	38,491	18,165	47.2
Utah	138,611	52,742	38.1*
Wyoming	23,237	9,905	42.6
Western	2,899,138	1,613,084	55.6*
Alaska	45,746	17,862	39.0*
Arizona	331,674	152,280	45.9*
California	1,731,574	1,057,320	61.1*
Hawaii	61,106	26,328	43.1*
Idaho	85,677	35,771	41.8*
Nevada	135,926	65,665	48.3
Oregon	169,149	88,657	52.4
Washington	311,716	153,762	49.3
Total	14,072,148	7,184,078	51.1

Notes

* 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 data, which included data only for States. It did not include data for Puerto Rico or the other U.S. territories served by WIC; therefore, no statistical testing was done to compare the provided coverage rate for Puerto Rico to that of the national coverage rate.

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 constraints.

Estimates for Puerto Rico are shown separately and included in the Mid-Atlantic regional totals. As a result, the Mid-Atlantic regional coverage rate was excluded from significance testing. When Puerto Rico was excluded from the Mid-Atlantic region, the regional coverage rate was 50.2 percent, which is not statistically different from the national coverage rate at a 95-percent confidence level.

Sources: IPUMS-USA, n.d.; NBER, n.d.b; U.S. Census Bureau, n.d.c; unpublished internal WIC administrative data

Table B.3. WIC Eligibility, Participants, and Coverage Rates by FNS Region and Participant Category: CY 2017

FNS Region	Infants	Children Aged 1-4	Pregnant Women	Postpartum Women	Total
Number Eligible					
Northeast	195,412	767,502	127,332	137,313	1,227,558
Mid-Atlantic	239,600	991,365	156,193	164,624	1,551,782
Southeast	470,069	1,910,663	306,490	312,548	2,999,772
Midwest	319,036	1,319,286	207,727	213,145	2,059,194
Southwest	369,969	1,406,725	241,338	253,095	2,271,127
Mountain Plains	167,976	670,005	109,322	116,275	1,063,577
Western	465,904	1,793,454	303,742	336,038	2,899,138
Total	2,227,965	8,859,001	1,452,144	1,533,038	14,072,148
Number Participating					
Northeast	151,551	350,419	57,132	93,859	652,961
Mid-Atlantic	198,603	442,318	77,066	110,627	828,615
Southeast	381,247	722,830	144,636	222,066	1,470,778
Midwest	269,866	497,899	92,546	137,704	998,015
Southwest	296,378	556,276	108,789	193,338	1,154,780
Mountain Plains	116,081	238,193	42,343	69,229	465,845
Western	353,889	894,257	135,620	229,318	1,613,084
Total	1,767,615	3,702,190	658,131	1,056,141	7,184,078
Coverage Rate					
Northeast	77.6	45.7	44.9	68.4	53.2
Mid-Atlantic	82.9	44.6	49.3	67.2	53.4
Southeast	81.1	37.8	47.2	71.1	49.0
Midwest	84.6	37.7	44.6	64.6	48.5
Southwest	80.1	39.5	45.1	76.4	50.8
Mountain Plains	69.1	35.6	38.7	59.5	43.8
Western	76.0	49.9	44.7	68.2	55.6
Total	79.3	41.8	45.3	68.9	51.1

Sources: IPUMS-USA, n.d.; NBER, n.d.b; U.S. Census Bureau, n.d.c; unpublished internal WIC administrative data

Table B.4. WIC Eligibility Standard Errors by State and FNS Region: CY 2017

State	Number Eligible	Standard Error	Coefficient of Variation (Percent)
Alabama	233,113	6,652	2.9
Alaska	45,746	3,825	8.4
Arizona	331,674	8,294	2.5
Arkansas	156,252	5,644	3.6
California	1,731,574	30,940	1.8
Colorado	208,724	7,119	3.4
Connecticut	98,290	4,965	5.1
Delaware	39,560	3,037	7.7
District of Columbia	29,059	2,225	7.7
Florida	908,771	17,504	1.9
Georgia	500,128	11,622	2.3
Hawaii	61,106	4,346	7.1
Idaho	85,677	4,628	5.4
Illinois	498,136	12,202	2.4
Indiana	298,343	8,788	2.9
Iowa	121,618	5,015	4.1
Kansas	128,825	5,218	4.1
Kentucky	216,964	7,427	3.4
Louisiana	252,345	8,043	3.2
Maine	37,944	2,693	7.1
Maryland	204,479	7,041	3.4
Massachusetts	201,490	8,026	4.0
Michigan	415,002	10,902	2.6
Minnesota	186,988	8,001	4.3
Mississippi	155,003	5,420	3.5
Missouri	255,988	7,803	3.0
Montana	48,102	3,277	6.8
Nebraska	75,351	4,234	5.6
Nevada	135,926	5,376	4.0
New Hampshire	35,127	3,537	10.1
New Jersey	277,388	8,012	2.9
New Mexico	117,289	5,075	4.3
New York	799,111	16,571	2.1
North Carolina	445,957	10,637	2.4
North Dakota	24,631	2,538	10.3
Ohio	467,359	10,351	2.2
Oklahoma	213,200	6,466	3.0
Oregon	169,149	6,442	3.8
Pennsylvania	464,955	12,948	2.8
Rhode Island	33,206	2,138	6.4

State	Number Eligible	Standard Error	Coefficient of Variation (Percent)
South Carolina	227,089	6,473	2.9
South Dakota	38,491	2,617	6.8
Tennessee	312,747	7,891	2.5
Texas	1,532,041	25,831	1.7
Utah	138,611	6,264	4.5
Vermont	22,389	2,211	9.9
Virginia	284,062	9,239	3.3
Washington	311,716	9,528	3.1
West Virginia	77,252	3,771	4.9
Wisconsin	193,367	7,790	4.0
Wyoming	23,237	2,737	11.8
FNS Region			
Northeast	1,227,558	23,094	1.9
Mid-Atlantic	1,376,757	26,400	1.9
Southeast	2,999,772	46,547	1.6
Midwest	2,059,194	34,258	1.7
Southwest	2,271,127	35,802	1.6
Mountain Plains	1,063,577	21,280	2.0
Western	2,872,569	47,422	1.7
Total	13,870,554	195,515	1.4

Notes

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 Indian Tribal Organizations who were eligible for WIC.

Estimates for Puerto Rico or the other U.S. territories are not included in regional totals or standard errors.

Sources: IPUMS-USA, n.d.; NBER, n.d.a, n.d.b

Table B.5. WIC Eligibility Standard Errors by FNS Region and States in Each Region: CY 2017

FNS Region and State	Number Eligible	Standard Error	Coefficient of Variation (Percent)
Northeast	1,227,558	23,094	1.9
Connecticut	98,290	4,965	5.1
Maine	37,944	2,693	7.1
Massachusetts	201,490	8,026	4.0
New Hampshire	35,127	3,537	10.1
New York	799,111	16,571	2.1
Rhode Island	33,206	2,138	6.4
Vermont	22,389	2,211	9.9
Mid-Atlantic	1,376,757	26,400	1.9
Delaware	39,560	3,037	7.7
District of Columbia	29,059	2,225	7.7
Maryland	204,479	7,041	3.4
New Jersey	277,388	8,012	2.9
Pennsylvania	464,955	12,948	2.8
Virginia	284,062	9,239	3.3
West Virginia	77,252	3,771	4.9
Southeast	2,999,772	46,547	1.6
Alabama	233,113	6,652	2.9
Florida	908,771	17,504	1.9
Georgia	500,128	11,622	2.3
Kentucky	216,964	7,427	3.4
Mississippi	155,003	5,420	3.5
North Carolina	445,957	10,637	2.4
South Carolina	227,089	6,473	2.9
Tennessee	312,747	7,891	2.5
Midwest	2,059,194	34,258	1.7
Illinois	498,136	12,202	2.4
Indiana	298,343	8,788	2.9
Michigan	415,002	10,902	2.6
Minnesota	186,988	8,001	4.3
Ohio	467,359	10,351	2.2
Wisconsin	193,367	7,790	4.0
Southwest	2,271,127	35,802	1.6
Arkansas	156,252	5,644	3.6
Louisiana	252,345	8,043	3.2
New Mexico	117,289	5,075	4.3
Oklahoma	213,200	6,466	3.0
Texas	1,532,041	25,831	1.7

FNS Region and State	Number Eligible	Standard Error	Coefficient of Variation (Percent)
Mountain Plains	1,063,577	21,280	2.0
Colorado	208,724	7,119	3.4
Iowa	121,618	5,015	4.1
Kansas	128,825	5,218	4.1
Missouri	255,988	7,803	3.0
Montana	48,102	3,277	6.8
Nebraska	75,351	4,234	5.6
North Dakota	24,631	2,538	10.3
South Dakota	38,491	2,617	6.8
Utah	138,611	6,264	4.5
Wyoming	23,237	2,737	11.8
Western	2,872,569	47,422	1.7
Alaska	45,746	3,825	8.4
Arizona	331,674	8,294	2.5
California	1,731,574	30,940	1.8
Hawaii	61,106	4,346	7.1
Idaho	85,677	4,628	5.4
Nevada	135,926	5,376	4.0
Oregon	169,149	6,442	3.8
Washington	311,716	9,528	3.1
Total	13,870,554	195,515	1.4

Notes

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 Indian Tribal Organizations who were eligible for WIC.
 Estimates for Puerto Rico or the other U.S. territories are not included in regional totals or standard errors.
 Sources: IPUMS-USA, n.d.; NBER, n.d.a, n.d.b

Table B.6. Standard Errors for WIC Eligibility by FNS Region and Participant Category: CY 2017

FNS Region	Infants	Children Aged 1-4	Pregnant Women	Postpartum Women	Total
Number Eligible					
Northeast	195,412	767,502	127,332	137,313	1,227,558
Mid-Atlantic	211,425	882,307	137,792	145,232	1,376,757
Southeast	470,069	1,910,663	306,490	312,548	2,999,772
Midwest	319,036	1,319,286	207,727	213,145	2,059,194
Southwest	369,969	1,406,725	241,338	253,095	2,271,127
Mountain Plains	167,976	670,005	109,322	116,275	1,063,577
Western	461,422	1,777,361	300,823	332,962	2,872,569
Total	2,195,309	8,733,851	1,430,824	1,510,570	13,870,554
Standard Error					
Northeast	7,823	14,090	5,096	5,502	23,094
Mid-Atlantic	9,092	16,942	5,926	6,248	26,400
Southeast	15,937	29,366	10,389	10,592	46,547
Midwest	11,929	21,155	7,768	7,966	34,258
Southwest	12,765	22,920	8,326	8,678	35,802
Mountain Plains	6,874	13,536	4,473	4,726	21,280
Western	17,323	27,594	11,291	12,388	47,422
Total	64,497	121,801	42,034	44,114	195,515
Coefficient of Variation (Percent)					
Northeast	4.0	1.8	4.0	4.0	1.9
Mid-Atlantic	4.3	1.9	4.3	4.3	1.9
Southeast	3.4	1.5	3.4	3.4	1.6
Midwest	3.7	1.6	3.7	3.7	1.7
Southwest	3.5	1.6	3.5	3.4	1.6
Mountain Plains	4.1	2.0	4.1	4.1	2.0
Western	3.8	1.6	3.8	3.7	1.7
Total	2.9	1.4	2.9	2.9	1.4

Notes

The coefficient of variation is defined as the ratio of the standard error to the eligibility estimate.

Estimates for Puerto Rico and the other U.S. territories are not included in regional totals or standard errors.

Sources: IPUMS-USA, n.d.; NBER, n.d.a, n.d.b; Thorn et al., 2018; unpublished internal WIC administrative data

Table B.7a. Adjustments for Calculating the Average Monthly Number of Individuals Eligible for WIC in Puerto Rico by Participant Category: CY 2017

Puerto Rico	Infants	All Children Aged 1-4	Children Aged 1	Children Aged 2	Children Aged 3	Children Aged 4	Pregnant Women	Breastfeeding Women	Non-Breastfeeding Women	Total
Total number of infants/children in the PRCS	24,140	122,561	29,833	26,102	34,228	32,398	–	–	–	146,701
Number after adjustment for PRCS undercount/ overcount	27,379	120,591	27,885	29,488	31,067	32,151	–	–	–	147,970
Number with annual income <= 185 percent of the Federal Poverty Guidelines	24,010	97,149	23,769	20,559	27,139	25,683	–	–	–	121,159
Number adjunctively eligible and with annual income > 185 percent of the Federal Poverty Guidelines ^a	362	3,471	1,280	1,352	211	627	–	–	–	3,832
Through SNAP	362	2,264	1,280	836	0	149	–	–	–	2,626
Through TANF	0	0	0	0	0	0	–	–	–	0
Through Medicaid	0	1,206	0	516	211	478	–	–	–	1,206
Total number income and adjunctively eligible	24,372	100,619	25,048	21,911	27,350	26,310	–	–	–	124,991
Number after adjustment for monthly income and certification periods	27,784	105,650	26,301	23,007	28,718	27,625	–	–	–	133,435
Total number eligible: Number after adjustment for nutritional risk (infants and children)	26,951	104,594	26,038	22,776	28,431	27,349	–	–	–	131,545
Starting point for estimates of women is number of eligible infants	–	–	–	–	–	–	26,951	26,951	26,951	80,853
Number after adjustment for length of pregnancy and income of woman during pregnancy	–	–	–	–	–	–	18,192	–	–	18,192
Number after adjustment for multiple births and infant deaths	–	–	–	–	–	–	18,149	26,887	26,887	71,923
Number after adjustment for breastfeeding	–	–	–	–	–	–	–	12,422	6,130	18,552
Total number eligible: Number after adjustment for nutritional risk (pregnant and postpartum women)	–	–	–	–	–	–	17,604	12,422	6,130	36,156
Total number eligible in Puerto Rico	26,951	104,594	26,038	22,776	28,431	27,349	17,604	12,422	6,130	167,701

Notes

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

“–” denotes blank cells.

Source: IPUMS-USA, n.d.

Table B.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 2017

Other U.S. Territories	Infants	All Children Aged 1-4	Children Aged 1	Children Aged 2	Children Aged 3	Children Aged 4	Pregnant Women	Postpartum Breastfeeding Women	Postpartum Non-Breastfeeding Women	Total
Total number of infants/children in the other U.S. territories	6,411	25,621	6,423	6,412	6,348	6,438	–	–	–	32,032
Number after the other territories' full-eligibility factor	5,160	19,776	4,958	4,949	4,900	4,969	–	–	–	24,936
Number after monthly income adjustment	5,882	20,765	5,206	5,197	5,145	5,218	–	–	–	26,647
Total number eligible: Number after adjustment for nutritional risk (infants and children)	5,706	20,557	5,153	5,145	5,093	5,165	–	–	–	26,263
Starting point for estimates of women is number of eligible infants	–	–	–	–	–	–	5,706	5,706	5,706	17,118
Number after adjustment for length of pregnancy and income of woman during pregnancy	–	–	–	–	–	–	3,851	–	–	3,851
Number after adjustment for multiple births and infant deaths	–	–	–	–	–	–	3,830	5,675	5,675	15,179
Number after adjustment for breastfeeding	–	–	–	–	–	–	–	2,622	1,294	3,915
Total number eligible: Number after adjustment for nutritional risk (pregnant and postpartum women)	–	–	–	–	–	–	3,715	2,622	1,294	7,631
Total number eligible in U.S. Territories other than Puerto Rico	5,706	20,557	5,153	5,145	5,093	5,165	3,715	2,622	1,294	33,894
Total eligibility for Puerto Rico and other U.S. territories	32,657	125,151	31,191	27,921	33,524	32,515	21,320	15,043	7,424	201,594

Note

“–” denotes blank cells.

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

Table B.8. Regional Estimates of the Average Monthly Numbers of Infants and Children Eligible for WIC by Demographic and Income Characteristics: CY 2017 (Fully Adjusted Weights, Percentages)

Characteristics	Northeast			Mid-Atlantic			Southeast			Midwest		
	WIC-Eligible Infants	WIC-Eligible Children Aged 1-4	WIC-Eligible Infants and Children	WIC-Eligible Infants	WIC-Eligible Children Aged 1-4	WIC-Eligible Infants and Children	WIC-Eligible Infants	WIC-Eligible Children Aged 1-4	WIC-Eligible Infants and Children	WIC-Eligible Infants	WIC-Eligible Children Aged 1-4	WIC-Eligible Infants and Children
Total	170,951	816,443	987,394	225,226	907,433	1,132,659	420,684	1,888,576	2,309,260	345,483	1,319,456	1,664,939
Gender	–	–	–	–	–	–	–	–	–	–	–	–
Male	68.7	46.8	50.6	50.0	51.1	50.9	44.8	51.4	50.2	54.0	49.1	50.1
Female	31.3	53.2	49.4	50.0	48.9	49.1	55.2	48.6	49.8	46.0	50.9	49.9
Race	–	–	–	–	–	–	–	–	–	–	–	–
White	60.9	67.7	66.5	60.7	59.5	59.7	68.1	58.2	60.0	64.2	64.9	64.8
Black	20.7	18.1	18.5	26.4	25.2	25.4	27.0	34.8	33.4	22.7	22.1	22.2
Other	18.3	14.2	14.9	12.8	15.4	14.9	4.8	7.0	6.6	13.1	13.0	13.0
Ethnicity	–	–	–	–	–	–	–	–	–	–	–	–
Hispanic	31.2	29.3	29.7	32.2	22.6	24.5	22.8	20.5	20.9	16.2	14.6	14.9
Non-Hispanic	68.8	70.7	70.3	67.8	77.4	75.5	77.2	79.5	79.1	83.8	85.4	85.1
Living arrangement	–	–	–	–	–	–	–	–	–	–	–	–
Two-parent family	65.2	61.4	62.1	53.3	56.9	56.2	63.0	50.9	53.1	52.4	57.2	56.2
Single parent family	32.8	33.6	33.4	44.0	36.6	38.1	32.4	41.6	40.0	41.6	38.1	38.8
No parent family	1.9	5.0	4.5	2.7	6.4	5.7	4.6	7.5	7.0	6.0	4.8	5.0
Related nonparent caretaker	1.9	3.8	3.5	0.6	3.2	2.7	1.8	5.6	4.9	3.2	3.1	3.1
Unrelated nonparent caretaker	0.0	1.2	1.0	2.1	3.2	3.0	2.8	1.9	2.1	2.8	1.7	1.9
Military status of household members	–	–	–	–	–	–	–	–	–	–	–	–
Ever served in U.S. military	4.3	5.4	5.2	6.9	8.0	7.8	8.5	8.2	8.2	6.9	7.8	7.6
Serving in U.S. military in 2017 ^a	0.0	2.4	2.0	0.0	0.7	0.6	6.0	2.3	3.0	0.7	0.0	0.2
Number of people in household	–	–	–	–	–	–	–	–	–	–	–	–
2	14.1	5.6	7.1	3.6	5.0	4.7	3.6	5.2	4.9	5.0	5.0	5.0
3	31.0	20.9	22.6	23.7	14.0	15.9	35.3	23.7	25.8	26.5	20.0	21.4
4	21.8	34.7	32.5	35.0	29.1	30.3	22.0	28.9	27.6	27.2	27.6	27.5
5	26.2	23.1	23.7	13.9	23.0	21.2	20.0	23.3	22.7	15.8	22.2	20.9

Characteristics	Northeast			Mid-Atlantic			Southeast			Midwest		
	WIC-Eligible Infants	WIC-Eligible Children Aged 1-4	WIC-Eligible Infants and Children	WIC-Eligible Infants	WIC-Eligible Children Aged 1-4	WIC-Eligible Infants and Children	WIC-Eligible Infants	WIC-Eligible Children Aged 1-4	WIC-Eligible Infants and Children	WIC-Eligible Infants	WIC-Eligible Children Aged 1-4	WIC-Eligible Infants and Children
6 or more	6.9	15.7	14.2	23.9	28.9	27.9	19.1	18.9	19.0	25.5	25.1	25.2
Percent with working parent(s)	76.5	78.1	77.8	59.3	73.7	70.9	76.8	73.2	73.9	67.6	76.9	75.0
Annual family income relative to FPG	–	–	–	–	–	–	–	–	–	–	–	–
No income	0.0	2.7	2.3	7.5	6.3	6.5	6.3	6.9	6.8	5.0	4.0	4.2
Up to 50% FPG	16.9	10.5	11.6	7.9	10.2	9.7	10.3	14.0	13.4	20.8	11.2	13.2
More than 50% up to 100% FPG	22.9	21.2	21.5	16.9	18.1	17.8	19.8	15.7	16.4	17.2	19.1	18.7
More than 100% up to 130% FPG	5.6	13.6	12.2	14.2	10.9	11.6	11.7	14.3	13.8	8.5	13.5	12.5
More than 130% up to 150% FPG	4.8	5.3	5.2	3.3	7.6	6.7	7.9	8.7	8.6	7.0	6.8	6.8
More than 150% up to 185% FPG	6.7	12.3	11.3	12.1	12.8	12.7	10.3	10.7	10.6	15.2	18.2	17.6
More than 185% up to 200% FPG	3.0	4.2	4.0	6.4	3.2	3.9	3.7	3.6	3.6	1.2	1.9	1.8
More than 200% FPG	40.2	30.2	31.9	31.7	31.0	31.1	30.0	26.0	26.8	25.1	25.3	25.2
Receipt of other benefits	–	–	–	–	–	–	–	–	–	–	–	–
No benefit receipt	8.2	15.0	13.9	9.4	16.7	15.2	17.3	15.9	16.2	16.2	14.8	15.1
Medicaid, SNAP and TANF	4.2	4.0	4.0	2.7	2.3	2.4	2.9	2.8	2.8	3.5	3.8	3.8
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	26.5	20.7	21.7	32.6	29.7	30.3	28.8	32.5	31.8	27.7	30.9	30.3
Medicaid and TANF only	0.0	0.0	0.0	0.0	0.6	0.4	0.0	0.7	0.5	0.0	0.6	0.5
SNAP only	5.2	4.2	4.4	4.7	3.7	3.9	6.6	5.2	5.5	6.2	6.7	6.6
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 only	55.9	56.1	56.0	50.6	47.0	47.7	44.4	42.9	43.2	46.4	43.1	43.8

Notes
^a The military status of household members who were currently serving in the U.S. military was included only if they resided in civilian housing on or off a military base. 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 U.S. Census Bureau estimates, monthly income, or nutritional risk.
This table does not include estimates for Puerto Rico or the other U.S. territories.
FPG = Federal Poverty Guidelines
“–” denotes blank cells.
Sources: IPUMS-USA, n.d.; NBER, n.d.b

Table B.8 (continued). Regional Estimates of the Average Monthly Numbers of Infants and Children Eligible for WIC by Demographic and Income Characteristics: CY 2017 (Fully Adjusted Weights, Percentages)

Characteristics	Southwest			Mountain Plains			Western			Total		
	WIC-Eligible Infants	WIC-Eligible Children Aged 1-4	WIC-Eligible Infants and Children	WIC-Eligible Infants	WIC-Eligible Children Aged 1-4	WIC-Eligible Infants and Children	WIC-Eligible Infants	WIC-Eligible Children Aged 1-4	WIC-Eligible Infants and Children	WIC-Eligible Infants	WIC-Eligible Children Aged 1-4	WIC-Eligible Infants and Children
Total	389,790	1,478,439	1,868,229	219,407	613,288	832,696	423,768	1,710,215	2,133,983	2,195,309	8,733,851	10,929,159
Gender	-	-	-	-	-	-	-	-	-	-	-	-
Male	54.7	50.1	51.1	57.9	51.8	53.4	52.5	51.5	51.7	53.2	50.4	51.0
Female	45.3	49.9	48.9	42.1	48.2	46.6	47.5	48.5	48.3	46.8	49.6	49.0
Race	-	-	-	-	-	-	-	-	-	-	-	-
White	67.9	70.7	70.2	75.7	80.3	79.1	79.0	74.8	75.6	69.0	67.2	67.5
Black	17.8	17.4	17.5	7.5	8.2	8.0	3.9	8.1	7.2	17.7	20.3	19.8
Other	14.2	11.9	12.4	16.9	11.5	12.9	17.2	17.1	17.1	13.2	12.6	12.7
Ethnicity	-	-	-	-	-	-	-	-	-	-	-	-
Hispanic	53.0	51.3	51.7	33.5	29.7	30.7	50.6	55.9	54.8	35.2	33.4	33.8
Non-Hispanic	47.0	48.7	48.3	66.5	70.3	69.3	49.4	44.1	45.2	64.8	66.6	66.2
Living arrangement	-	-	-	-	-	-	-	-	-	-	-	-
Two-parent family	64.6	55.9	57.7	73.2	64.8	67.0	72.3	66.1	67.3	63.6	58.2	59.3
Single-parent family	32.0	39.5	37.9	23.7	31.1	29.2	23.9	28.9	27.9	32.5	36.2	35.5
No-parent family	3.4	4.6	4.3	3.1	4.1	3.8	3.8	5.0	4.7	3.9	5.5	5.2
Related nonparent caretaker	1.7	4.1	3.6	1.0	2.2	1.8	1.7	3.5	3.1	1.8	3.9	3.5
Unrelated nonparent caretaker	1.7	0.5	0.7	2.1	1.9	2.0	2.1	1.5	1.6	2.1	1.6	1.7
Military status of household members	-	-	-	-	-	-	-	-	-	-	-	-
Ever served in U.S. military	7.5	6.0	6.3	8.3	6.2	6.8	5.0	4.9	4.9	6.9	6.7	6.7
Serving in U.S. military in 2017 ^a	2.9	1.8	2.0	1.9	2.1	2.0	0.5	1.3	1.1	2.1	1.5	1.6
Number of people in household	-	-	-	-	-	-	-	-	-	-	-	-
2	1.7	4.9	4.2	1.1	3.9	3.2	3.4	3.7	3.6	4.0	4.7	4.6
3	19.8	17.5	18.0	21.7	18.4	19.2	24.9	15.1	17.0	26.3	18.8	20.3
4	28.1	29.7	29.4	27.5	24.8	25.5	24.5	25.0	24.9	26.2	28.4	27.9
5	27.6	21.8	23.0	24.9	25.5	25.3	19.7	19.6	19.6	21.0	22.3	22.0
6 or more	22.9	26.0	25.4	24.8	27.5	26.8	27.5	36.7	34.9	22.5	25.9	25.2

Characteristics	Southwest			Mountain Plains			Western			Total		
	WIC-Eligible Infants	WIC-Eligible Children Aged 1-4	WIC-Eligible Infants and Children	WIC-Eligible Infants	WIC-Eligible Children Aged 1-4	WIC-Eligible Infants and Children	WIC-Eligible Infants	WIC-Eligible Children Aged 1-4	WIC-Eligible Infants and Children	WIC-Eligible Infants	WIC-Eligible Children Aged 1-4	WIC-Eligible Infants and Children
Percent with working parent(s)	70.0	78.6	76.8	82.4	80.5	81.0	73.5	77.4	76.6	72.2	76.5	75.7
Annual family income relative to FPG	–	–	–	–	–	–	–	–	–	–	–	–
No income	4.1	3.5	3.6	2.1	4.0	3.5	4.3	4.4	4.4	4.5	4.7	4.7
Up to 50% FPG	16.7	11.4	12.5	8.8	9.4	9.2	8.8	6.7	7.1	12.9	10.7	11.1
More than 50% up to 100% FPG	27.3	21.0	22.3	20.3	18.9	19.3	18.9	19.0	19.0	20.5	18.7	19.1
More than 100% up to 130% FPG	12.6	13.4	13.2	15.1	12.4	13.1	18.2	14.4	15.2	12.7	13.5	13.3
More than 130% up to 150% FPG	7.1	10.2	9.6	10.7	11.4	11.2	10.9	7.1	7.9	7.8	8.1	8.0
More than 150% up to 185% FPG	6.2	12.1	10.8	17.2	14.7	15.4	10.6	15.5	14.5	11.0	13.7	13.1
More than 185% up to 200% FPG	2.2	1.9	2.0	1.7	4.4	3.6	2.8	3.2	3.1	2.9	3.1	3.0
More than 200% FPG	23.9	26.6	26.0	24.0	25.0	24.7	25.4	29.6	28.8	27.6	27.5	27.6
Receipt of other benefits	–	–	–	–	–	–	–	–	–	–	–	–
No benefit receipt	14.5	17.4	16.8	22.0	19.1	19.9	17.2	15.4	15.8	15.6	16.1	16.0
Medicaid, SNAP and TANF	2.2	2.0	2.1	2.5	3.6	3.3	8.0	5.4	5.9	3.9	3.5	3.5
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	26.1	31.4	30.3	13.3	28.0	24.1	15.6	24.7	22.9	24.2	28.8	27.9
Medicaid and TANF only	0.0	0.4	0.3	0.2	0.5	0.4	1.5	0.8	0.9	0.3	0.6	0.5
SNAP only	7.0	4.5	5.0	14.0	5.1	7.4	4.2	3.3	3.5	6.6	4.7	5.1
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 only	50.2	44.3	45.5	48.0	43.6	44.8	53.5	50.4	51.0	49.4	46.3	47.0

Notes
^a The military status of household members who were currently serving in the U.S. military was included only if they resided in civilian housing on or off a military base. 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 U.S. Census Bureau estimates, monthly income, or nutritional risk.
This table does not include estimates for Puerto Rico or the other U.S. territories.
FPG = Federal Poverty Guidelines
“–” denotes blank cells.
Sources: IPUMS-USA, n.d.; NBER, n.d.b

Table B.9. WIC Coverage Rates by State: CY 2005–CY 2017

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Total	56.5	58.1	60.6	62.4	62.9	61.6	63.5	63.2	59.3	54.8	52.7	54.5	51.1
Alabama	50.9	54.7	56.4	59.8	59.3	62.6	62.1	63.2	61.3	53.5	54.1	56.5	52.6
Alaska	66.0	64.5	68.6	69.0	61.6	69.1	60.6	60.7	64.1	44.3	49.1	43.5	39.0
Arizona	49.2	49.6	53.1	54.0	58.0	56.0	61.3	57.8	54.9	51.1	50.8	50.3	45.9
Arkansas	50.4	49.9	50.7	52.5	56.8	57.1	60.0	61.7	56.0	48.0	48.1	49.3	48.7
California	69.3	73.2	75.8	75.9	77.7	78.0	82.5	80.1	74.1	71.0	65.0	65.6	61.1
Colorado	40.0	42.5	41.5	47.9	50.3	53.8	50.0	48.5	47.2	41.0	40.8	43.5	40.7
Connecticut	51.6	52.9	55.7	56.2	59.2	50.7	51.2	52.9	49.5	43.1	47.0	49.2	48.6
Delaware	54.4	60.5	56.6	68.9	64.5	59.7	66.0	58.8	58.2	51.7	51.6	52.3	43.4
District of Columbia	70.2	65.9	74.0	75.1	79.5	69.3	67.0	63.0	54.9	47.2	50.8	54.0	45.7
Florida	47.9	50.2	58.7	61.7	61.8	60.9	61.0	56.9	54.0	51.4	51.2	53.8	50.9
Georgia	54.9	54.8	57.7	59.6	59.6	56.5	59.6	59.6	54.9	48.8	48.7	48.2	46.5
Hawaii	64.9	61.6	63.7	66.7	60.3	62.5	64.8	59.1	57.3	51.6	56.2	53.4	43.1
Idaho	40.7	44.9	46.7	48.5	51.5	48.2	47.5	53.7	48.7	47.6	45.4	43.4	41.8
Illinois	50.7	52.8	53.4	54.0	53.4	52.2	52.4	54.5	52.0	48.1	43.5	45.1	41.8
Indiana	46.6	49.8	52.4	54.5	55.2	54.8	55.8	55.6	52.9	48.4	48.7	51.4	48.3
Iowa	53.5	54.3	58.6	64.2	61.7	61.0	59.1	62.0	52.4	47.2	44.1	46.8	50.8
Kansas	51.4	56.6	56.0	61.1	60.6	56.3	56.5	56.8	51.9	46.2	46.7	52.0	41.2
Kentucky	59.1	66.3	65.3	64.9	65.2	63.7	67.0	69.8	64.5	53.4	53.5	53.3	49.3
Louisiana	51.2	46.6	52.8	53.2	57.8	57.6	61.3	59.0	56.9	50.8	51.2	52.0	46.9
Maine	48.5	48.1	55.4	56.7	50.4	54.6	56.0	53.5	49.8	51.3	50.9	52.9	50.2
Maryland	59.8	65.9	71.6	73.5	71.2	70.0	72.8	71.8	66.9	63.5	59.8	68.3	64.3
Massachusetts	65.5	67.4	71.3	67.1	66.7	63.1	61.0	68.2	57.8	56.8	53.8	55.2	55.5
Michigan	57.1	57.3	59.7	57.5	57.3	57.7	61.0	63.3	59.8	56.3	55.3	55.9	53.4
Minnesota	69.4	76.3	81.9	80.2	73.1	73.5	69.1	73.7	69.6	63.4	56.7	60.3	58.8
Mississippi	53.7	54.0	60.3	62.3	57.2	51.7	56.5	56.0	54.2	52.3	47.2	51.7	54.7
Missouri	49.4	49.7	52.7	54.5	54.0	52.2	57.1	57.6	55.2	51.5	46.9	50.8	46.2
Montana	51.0	52.5	48.7	49.2	45.1	46.1	41.8	45.7	40.7	39.1	39.3	38.2	35.6
Nebraska	51.4	54.2	57.1	57.8	54.3	51.8	54.3	57.0	49.1	51.5	43.1	52.8	49.2

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Nevada	43.6	50.8	49.5	55.4	56.5	57.4	59.4	57.7	61.2	53.6	51.1	55.2	48.3
New Hampshire	44.3	43.6	51.6	53.2	61.6	51.2	53.9	45.2	41.1	42.7	41.3	46.9	36.7
New Jersey	54.3	57.9	57.9	59.9	58.8	60.4	60.3	58.7	56.1	52.4	50.7	53.8	52.9
New Mexico	47.0	48.1	50.4	51.1	51.9	49.0	51.3	52.1	47.0	45.7	42.4	44.8	42.1
New York	63.3	63.5	64.5	66.2	66.1	63.2	66.0	65.4	61.7	54.7	53.5	55.9	53.9
North Carolina	51.1	52.0	53.5	56.8	56.3	55.2	56.2	58.5	55.1	51.1	51.5	53.8	51.3
North Dakota	62.7	65.6	62.1	56.5	62.4	53.2	48.4	75.4	47.4	39.7	47.1	50.1	51.4
Ohio	55.7	59.4	61.5	65.2	61.9	57.2	58.9	59.4	54.0	50.2	47.7	51.3	46.8
Oklahoma	55.5	55.5	55.8	60.0	62.9	59.3	60.6	60.7	52.3	53.1	48.8	55.0	48.9
Oregon	62.6	63.2	67.4	65.0	65.8	65.6	63.6	65.0	63.1	53.0	53.5	56.3	52.4
Pennsylvania	54.4	54.8	57.0	56.9	58.2	55.8	58.0	55.8	55.2	51.9	49.9	51.6	48.4
Puerto Rico	70.5	73.1	76.1	78.0	77.7	78.7	84.6	86.7	85.5	83.1	85.0	84.1	79.9
Rhode Island	62.5	63.3	69.3	77.6	64.5	71.1	66.1	69.5	61.3	53.6	55.2	62.2	58.2
South Carolina	52.2	52.9	55.7	57.6	56.7	54.8	56.5	58.7	51.9	47.8	49.2	46.4	43.2
South Dakota	49.6	65.9	59.9	63.3	51.8	56.5	63.0	60.8	49.3	45.0	48.6	48.7	47.2
Tennessee	53.3	51.7	54.3	54.3	55.4	52.2	54.3	56.8	50.3	45.8	43.3	43.0	42.9
Texas	57.3	57.1	58.2	61.2	65.9	66.4	66.5	64.3	62.1	58.9	55.4	57.5	52.7
Utah	43.9	39.3	43.0	46.2	48.4	45.4	47.2	45.5	43.3	40.2	37.1	39.4	38.1
Vermont	64.0	71.3	73.9	82.1	80.1	66.8	84.7	69.4	60.3	64.6	64.5	55.0	51.3
Virginia	52.4	58.5	59.3	61.4	59.4	54.5	59.7	59.1	55.4	47.7	45.1	47.8	42.2
Washington	56.4	57.9	60.6	65.9	64.4	60.7	64.4	64.4	62.2	56.9	53.5	55.0	49.3
West Virginia	57.8	55.9	58.9	66.4	62.9	65.3	66.0	73.6	54.8	51.9	48.7	50.3	48.7
Wisconsin	54.2	56.9	61.3	61.4	60.8	54.6	53.2	59.7	55.4	47.2	48.5	48.5	49.2
Wyoming	53.6	56.8	54.2	55.4	51.1	52.1	53.5	52.6	52.3	44.1	45.2	53.9	42.6

Note
Estimates for 2016 should be interpreted with caution given the single-year anomaly that resulted from the small sample sizes in the CPS-ASEC data. See chapter 3 of volume I for more information.
Sources: IPUMS-USA, n.d.; NBER, n.d.b; U.S. Census Bureau, n.d.c; unpublished internal WIC administrative data

Table B.10. WIC Coverage Rates by State and Participant Category With Margins of Error for 95-Percent Confidence Intervals: CY 2017

State	Infants		Children Aged 1		Children Aged 2		Children Aged 3		Children Aged 4		All Children Aged 1-4		Pregnant Women		Postpartum Women		Total	
	Rate	MOE	Rate	MOE	Rate	MOE	Rate	MOE	Rate	MOE	Rate	MOE	Rate	MOE	Rate	MOE	Rate	MOE
Alabama	89.4	13.4	53.6	7.0	41.4	6.2	36.0	5.0	26.6	3.7	39.6	2.2	58.5	8.8	69.3	10.4	52.6	2.9
Alaska	56.0	19.2	41.5	12.6	35.7	17.2	33.2	11.8	22.5	8.1	33.9	5.9	35.7	12.3	45.5	15.5	39.0	6.4
Arizona	74.4	8.8	54.2	6.6	39.5	4.7	35.4	4.1	20.0	2.3	37.4	1.8	35.0	4.2	65.1	7.7	45.9	2.3
Arkansas	87.6	14.4	54.1	8.5	36.1	6.4	28.2	4.2	19.7	3.4	34.7	2.5	52.9	8.7	68.3	11.2	48.7	3.4
California	81.6	6.5	67.2	4.4	55.4	3.7	54.1	3.6	43.7	2.9	55.1	1.9	49.8	4.0	74.7	5.9	61.1	2.1
Colorado	62.5	8.6	48.9	6.7	33.0	4.3	31.1	3.9	19.4	3.0	33.1	2.2	35.4	4.9	57.7	7.9	40.7	2.7
Connecticut	91.0	22.3	59.7	12.5	37.3	7.5	31.9	6.6	21.7	3.9	37.0	3.3	59.1	14.5	55.3	13.6	48.6	4.8
Delaware	71.0	25.0	51.6	20.6	39.4	11.6	31.3	13.1	16.1	5.3	34.8	5.2	40.7	14.3	49.8	17.5	43.4	6.5
District of Columbia	89.0	38.2	55.1	23.2	30.8	14.8	30.7	16.7	11.7	4.1	31.3	4.7	37.0	15.9	75.7	32.5	45.7	6.9
Florida	81.8	7.2	59.0	5.1	42.9	3.5	37.4	3.1	21.5	1.9	40.5	1.6	47.9	4.2	71.1	6.3	50.9	1.9
Georgia	70.2	7.5	50.8	5.3	40.4	4.1	35.6	3.5	21.4	2.1	37.3	1.8	35.7	3.8	76.6	8.2	46.5	2.1
Hawaii	65.5	20.5	49.9	13.9	41.8	10.1	31.3	8.9	25.9	6.0	36.2	3.6	35.9	11.2	53.5	16.7	43.1	6.0
Idaho	59.0	12.6	58.4	14.0	37.5	8.0	34.8	7.3	15.9	3.6	36.6	3.7	32.7	7.0	51.6	11.0	41.8	4.4
Illinois	80.4	8.5	39.6	4.3	32.1	3.4	28.2	2.6	20.1	2.3	30.2	1.4	40.2	4.3	63.9	6.8	41.8	2.0
Indiana	77.9	11.4	54.5	6.1	46.6	5.4	35.1	4.4	16.0	1.9	38.7	2.0	40.3	5.9	69.6	10.2	48.3	2.8
Iowa	82.3	15.4	55.7	9.7	45.7	7.7	36.8	6.8	21.2	3.7	40.5	3.5	44.5	8.3	79.2	14.9	50.8	4.1
Kansas	62.7	10.4	50.5	10.0	37.5	6.2	35.2	5.9	16.2	2.7	34.7	2.7	37.8	6.3	49.9	8.3	41.2	3.3
Kentucky	78.9	13.8	54.3	7.1	40.6	5.2	38.1	5.5	26.1	3.6	39.8	2.4	48.5	8.5	60.5	10.6	49.3	3.3
Louisiana	85.7	14.5	46.7	7.5	35.5	4.5	28.6	3.4	19.6	2.4	33.1	2.0	48.0	8.1	70.6	11.9	46.9	2.9
Maine	67.0	24.2	60.2	22.9	47.5	13.9	52.1	13.6	28.2	7.4	46.7	6.0	37.6	13.6	55.2	19.9	50.2	7.0
Maryland	100.0	16.4	70.9	10.5	53.4	8.3	54.2	8.8	27.7	3.6	51.6	3.7	66.7	10.4	84.2	13.2	64.3	4.3
Massachusetts	74.8	11.5	68.3	11.6	53.9	8.6	46.9	6.5	29.2	5.0	49.9	4.0	45.3	7.0	68.1	10.5	55.5	4.3

State	Infants		Children Aged 1		Children Aged 2		Children Aged 3		Children Aged 4		All Children Aged 1-4		Pregnant Women		Postpartum Women		Total	
	Rate	MOE	Rate	MOE	Rate	MOE	Rate	MOE	Rate	MOE	Rate	MOE	Rate	MOE	Rate	MOE	Rate	MOE
Michigan	90.8	11.3	59.3	6.7	44.8	4.8	47.8	5.3	19.3	2.2	43.3	2.3	54.7	6.8	63.4	7.8	53.4	2.8
Minnesota	85.6	16.7	65.0	11.8	54.6	10.3	53.5	9.6	30.7	5.1	50.7	4.9	48.1	9.4	77.8	15.2	58.8	4.9
Mississippi	100.0	19.1	56.0	9.1	39.9	5.7	33.5	5.3	24.1	4.1	38.7	2.3	55.7	10.0	86.9	15.6	54.7	3.7
Missouri	80.3	10.9	53.0	7.6	35.5	4.9	30.9	4.1	18.3	2.5	34.4	2.2	46.8	6.3	65.3	8.8	46.2	2.8
Montana	56.7	16.4	45.7	14.3	30.0	8.7	31.4	8.3	15.0	3.6	29.8	3.6	31.4	9.1	42.4	12.3	35.6	4.8
Nebraska	75.7	18.3	51.8	10.8	42.7	12.1	43.3	11.2	27.8	6.0	41.5	4.5	37.6	9.1	66.8	16.2	49.2	5.4
Nevada	73.0	13.4	53.4	9.5	44.4	8.0	34.8	6.0	31.6	4.8	41.0	3.3	34.2	6.3	64.0	11.7	48.3	3.7
New Hampshire	44.6	17.2	56.1	24.0	49.4	20.9	31.2	12.4	16.4	6.3	36.7	7.4	25.9	10.0	35.4	13.7	36.7	7.2
New Jersey	79.4	11.0	56.4	7.0	44.1	6.0	43.2	5.4	31.5	4.0	44.2	2.6	45.1	6.2	74.6	10.3	52.9	3.0
New Mexico	63.7	13.9	48.6	9.9	33.7	6.7	37.9	7.3	18.0	4.2	34.7	3.6	36.1	7.9	56.1	12.3	42.1	3.6
New York	78.2	7.4	64.9	4.8	47.4	3.9	44.1	3.5	27.4	2.2	46.0	1.7	44.0	4.2	71.7	6.8	53.9	2.2
North Carolina	81.6	9.6	55.7	6.4	46.7	4.9	38.0	4.5	22.2	2.5	40.7	2.1	48.2	5.7	72.7	8.6	51.3	2.4
North Dakota	68.7	28.0	86.8	48.3	38.3	11.9	54.0	26.5	24.7	10.7	47.4	10.2	36.3	14.8	59.7	24.3	51.4	10.4
Ohio	91.5	8.8	44.1	4.6	33.2	3.6	31.4	2.9	23.0	2.3	33.1	1.5	44.6	4.3	59.3	5.7	46.8	2.0
Oklahoma	79.6	10.3	53.0	10.0	42.7	5.9	36.0	6.2	23.6	3.4	38.7	2.6	52.1	6.7	61.2	7.9	48.9	2.9
Oregon	69.8	12.0	64.2	12.2	49.6	7.6	44.3	8.0	33.7	4.8	47.6	3.3	42.5	7.3	63.5	10.8	52.4	3.9
Pennsylvania	84.4	10.0	55.2	5.2	41.9	4.8	35.0	4.0	21.4	2.4	38.5	2.2	46.2	5.5	61.0	7.2	48.4	2.6
Rhode Island	96.4	31.1	53.0	18.6	54.2	15.8	44.2	15.0	35.3	11.9	47.5	7.2	54.4	17.5	75.8	24.4	58.2	7.3
South Carolina	80.1	11.2	51.5	7.3	31.2	4.0	26.4	3.8	10.3	1.4	30.1	1.5	45.2	6.3	67.9	9.5	43.2	2.4
South Dakota	70.1	27.5	58.2	19.8	62.2	25.0	31.6	9.4	21.1	9.6	41.4	6.7	35.8	14.0	55.9	21.8	47.2	6.3
Tennessee	80.2	10.2	41.3	5.4	30.2	4.0	31.1	3.7	14.4	2.0	29.5	1.7	49.8	6.3	63.4	8.1	42.9	2.1
Texas	79.8	5.8	63.0	4.4	43.1	3.0	39.0	2.8	19.3	1.3	41.6	1.5	43.6	3.2	81.4	5.9	52.7	1.7
Utah	54.5	9.7	42.3	6.8	32.9	6.1	29.6	5.3	23.7	4.0	32.9	2.8	29.7	5.3	49.8	8.8	38.1	3.4
Vermont	80.1	51.2	52.0	21.3	41.5	15.0	45.5	16.3	32.4	15.7	42.9	7.6	51.0	32.6	75.0	47.9	51.3	9.9
Virginia	73.8	11.1	39.6	5.8	35.2	4.5	33.6	4.2	18.4	2.3	31.9	2.0	41.6	6.3	57.7	8.7	42.2	2.7
Washington	62.0	7.5	56.9	6.6	47.1	6.1	47.0	5.1	35.4	4.6	46.7	2.6	39.5	4.8	53.3	6.4	49.3	3.0

State	Infants		Children Aged 1		Children Aged 2		Children Aged 3		Children Aged 4		All Children Aged 1-4		Pregnant Women		Postpartum Women		Total	
	Rate	MOE	Rate	MOE	Rate	MOE	Rate	MOE	Rate	MOE	Rate	MOE	Rate	MOE	Rate	MOE	Rate	MOE
West Virginia	73.9	14.4	57.1	13.0	40.8	11.5	39.9	9.9	24.2	4.4	39.9	4.4	42.0	8.2	65.0	12.7	48.7	4.7
Wisconsin	74.1	13.6	60.8	9.9	43.8	6.4	38.5	6.5	25.5	4.3	42.6	3.2	37.9	7.0	61.0	11.2	49.2	3.9
Wyoming	68.4	32.9	59.3	24.5	34.8	12.4	25.4	8.1	23.4	8.1	34.4	6.2	38.2	18.4	60.7	29.3	42.6	9.8
Total	79.3	4.6	57.5	2.8	43.8	2.1	40.0	1.9	25.0	1.3	41.8	1.1	45.3	2.6	68.9	3.9	51.1	1.4

Notes

The estimated coverage rates exceeded 100 percent for infants in Maryland and Mississippi. This is likely a result of sampling variability in the CPS-ASEC survey data used to estimate the number of eligible individuals in those States (denominator of the rate). The lower-bound range of the 95-percent confidence interval surrounding these rates is below 100 percent. See chapter 6 in volume I for more information on measures of statistical uncertainty for the eligibility estimates.

MOE = margin of error

The MOE is a measure of the estimate's variability. The larger the MOE in relation to the size of the estimate, the less reliable the estimate. This number, when added to and subtracted from the estimate, forms the 95-percent confidence interval. MOEs for the Total row are for the 50 States and the District of Columbia. MOEs for a 95-percent confidence interval can be interpreted to mean there is a 95-percent chance that the true value—that is, the true coverage rate—falls within the estimated bounds determined by the MOE. For example, although the best estimate of New York's coverage rate for infants was 78.2 percent in 2017, the true rate may have been higher or lower. The chances are 95 in 100 that the true coverage rate was within 7.4 percentage points higher or 7.4 percentage points lower than 78.2 percent, or between 70.8 percent and 85.6 percent.

Sources: IPUMS-USA, n.d.; NBER, n.d.a, n.d.b; Thorn et al., 2018; unpublished internal WIC administrative data

Table B.11. State-Level WIC Coverage Rates by Race and Ethnicity With Margins of Error for 95-Percent Confidence Intervals: CY 2017

State	All Races		White-Only Non-Hispanic		Black-Only and Other Non-Hispanic ^a		Hispanic	
	Rate	MOE	Rate	MOE	Rate	MOE	Rate	MOE
Alabama	52.6	2.9	43.0	4.3	57.9	4.9	81.7	17.4
Alaska	39.0	6.4	28.0	7.3	48.6	10.0	41.3	26.5
Arizona	45.9	2.3	38.1	4.0	50.5	6.1	48.1	3.2
Arkansas	48.7	3.4	49.6	5.0	46.3	5.7	50.0	9.4
California	61.1	2.1	35.0	2.8	58.0	4.1	68.1	3.1
Colorado	40.7	2.7	31.2	3.6	40.2	7.0	50.0	4.7
Connecticut	48.6	4.8	31.9	5.8	53.1	10.7	59.1	7.7
Delaware	43.4	6.5	34.7	11.3	46.2	9.0	51.1	12.7
District of Columbia	45.7	6.9	16.5	13.1	44.3	7.3	58.2	23.7
Florida	50.9	1.9	38.8	3.0	56.3	3.7	56.9	3.2
Georgia	46.5	2.1	41.9	3.6	49.6	3.4	46.4	4.0
Hawaii	43.1	6.0	36.3	15.5	45.6	6.7	39.5	8.8
Idaho	41.8	4.4	38.0	5.0	51.3	21.3	48.7	9.1
Illinois	41.8	2.0	33.5	2.9	41.8	3.5	51.9	4.0
Indiana	48.3	2.8	42.6	3.7	55.9	6.0	62.4	9.3
Iowa	50.8	4.1	45.9	5.0	50.1	8.1	74.6	16.4
Kansas	41.2	3.3	36.5	4.6	41.3	7.9	49.8	7.8
Kentucky	49.3	3.3	51.4	4.2	41.8	6.2	51.4	8.8
Louisiana	46.9	2.9	42.1	5.5	49.4	3.8	53.4	9.9
Maine	50.2	7.0	52.2	8.7	48.5	13.9	29.9	15.8
Maryland	64.3	4.3	47.0	7.3	69.4	6.7	70.7	8.2
Massachusetts	55.5	4.3	47.2	6.1	53.5	7.9	65.8	6.5
Michigan	53.4	2.8	46.0	3.5	63.4	5.0	65.2	8.1
Minnesota	58.8	4.9	45.2	5.0	72.4	10.2	77.0	15.4
Mississippi	54.7	3.7	49.7	6.6	57.0	4.6	61.8	21.7
Missouri	46.2	2.8	45.6	3.8	46.3	5.1	50.9	11.0
Montana	35.6	4.8	32.2	6.0	48.5	8.6	29.9	16.8
Nebraska	49.2	5.4	40.1	6.7	48.7	10.6	66.7	11.4
Nevada	48.3	3.7	49.4	8.1	43.9	5.8	50.1	5.1

State	All Races		White-Only Non-Hispanic		Black-Only and Other Non-Hispanic ^a		Hispanic	
	Rate	MOE	Rate	MOE	Rate	MOE	Rate	MOE
New Hampshire	36.7	7.2	35.2	7.5	40.9	23.6	43.0	26.0
New Jersey	52.9	3.0	36.8	4.1	51.2	5.7	65.0	5.8
New Mexico	42.1	3.6	30.4	6.8	34.0	7.9	47.7	4.8
New York	53.9	2.2	41.9	3.1	63.4	4.8	57.7	3.9
North Carolina	51.3	2.4	45.1	3.8	50.7	3.8	62.0	5.2
North Dakota	51.4	10.4	37.8	10.3	74.5	18.2	63.5	76.3
Ohio	46.8	2.0	42.7	3.1	55.9	4.3	43.1	6.5
Oklahoma	48.9	2.9	42.8	4.5	53.1	4.7	55.0	5.6
Oregon	52.4	3.9	50.6	5.7	42.9	8.4	59.7	6.4
Pennsylvania	48.4	2.6	41.1	3.2	55.9	5.5	58.6	7.9
Rhode Island	58.2	7.3	54.2	13.6	67.4	20.3	57.2	12.1
South Carolina	43.2	2.4	38.0	3.9	47.5	3.9	44.9	7.6
South Dakota	47.2	6.3	34.8	7.1	73.3	19.7	35.4	12.8
Tennessee	42.9	2.1	41.5	3.1	43.1	3.8	48.4	7.7
Texas	52.7	1.7	34.1	2.6	50.4	3.7	59.1	2.7
Utah	38.1	3.4	32.3	3.7	31.3	8.9	54.1	9.0
Vermont	51.3	9.9	50.3	10.6	64.7	31.9	39.8	34.0
Virginia	42.2	2.7	36.6	3.8	43.4	4.1	50.4	6.6
Washington	49.3	3.0	37.8	3.5	51.4	6.5	67.4	6.2
West Virginia	48.7	4.7	47.9	5.4	50.7	20.6	71.1	44.0
Wisconsin	49.2	3.9	38.1	4.3	63.4	9.7	60.9	11.0
Wyoming	42.6	9.8	37.3	10.8	45.0	21.9	65.1	24.5
Total	51.1	1.4	40.9	2.2	53.2	2.7	60.4	2.4

Notes

Coverage rate estimates for Puerto Rico and the other U.S. territories are included in the totals but are not shown separately.

^a The Black-Only Non-Hispanic and Other Non-Hispanic categories were combined because of sample size concerns.

MOE = margin of error

The MOE is a measure of the estimate's variability. The larger the MOE in relation to the size of the estimate, the less reliable the estimate. This number, when added to and subtracted from the estimate, forms the 95-percent confidence interval. MOEs for the Total row are for the 50 States and the District of Columbia. MOEs for a 95-percent confidence interval can be interpreted to mean there is a 95-percent chance that the true value—that is, the true coverage rate—falls within the estimated bounds determined by the MOE. For example, although the best estimate generated for this study was that New York's coverage rate for Hispanic individuals was 57.7 percent in 2017, the true rate may have been higher or lower. The chances are 95 in 100 that the true coverage rate was within 3.9 percentage points higher or lower than 57.7 percent, or between 53.8 percent and 61.6 percent.

Sources: IPUMS-USA, n.d.; NBER, n.d.a, n.d.b; Thorn et al., 2018; unpublished internal WIC administrative data

Appendix C. Coverage Rate Maps: CY 2017

This appendix provides maps of WIC coverage rates at the State and regional 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: White-Only Non-Hispanic, Black-Only and Other Non-Hispanic, and Hispanic. A list of the maps by number and participant or race and ethnicity category follows:

FNS Region-Level Coverage Rates

- ▶ C.1. Total
- ▶ C.2. Infants
- ▶ C.3. Children aged 1–4
- ▶ C.4. Pregnant women
- ▶ C.5. Postpartum women

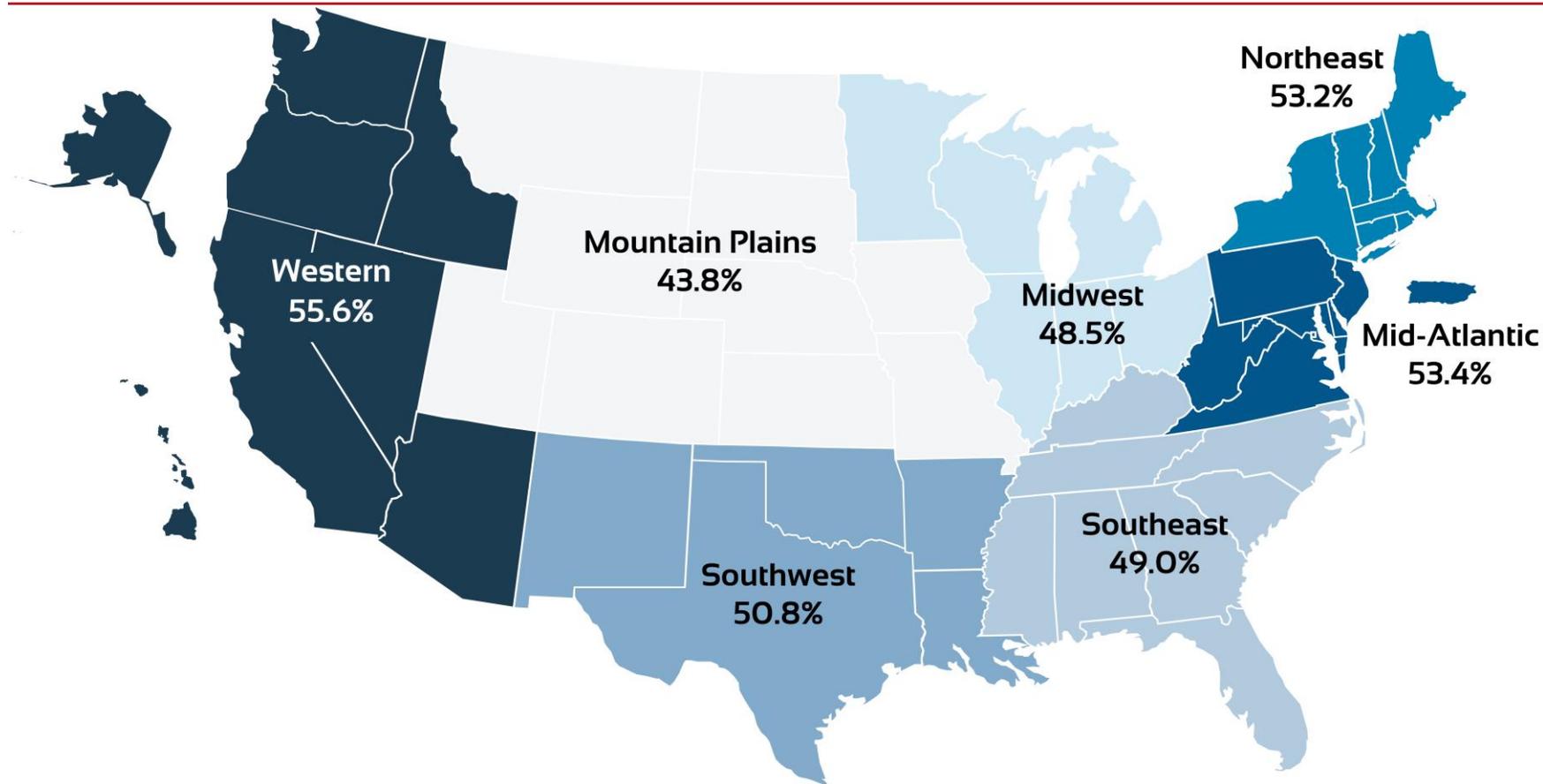
State-Level Coverage Rates by Participant Category

- ▶ C.6. Total
- ▶ C.7. Infants
- ▶ C.8. Children aged 1–4
- ▶ C.9. Pregnant women
- ▶ C.10. Postpartum women

State-Level Coverage Rates by Race and Ethnicity

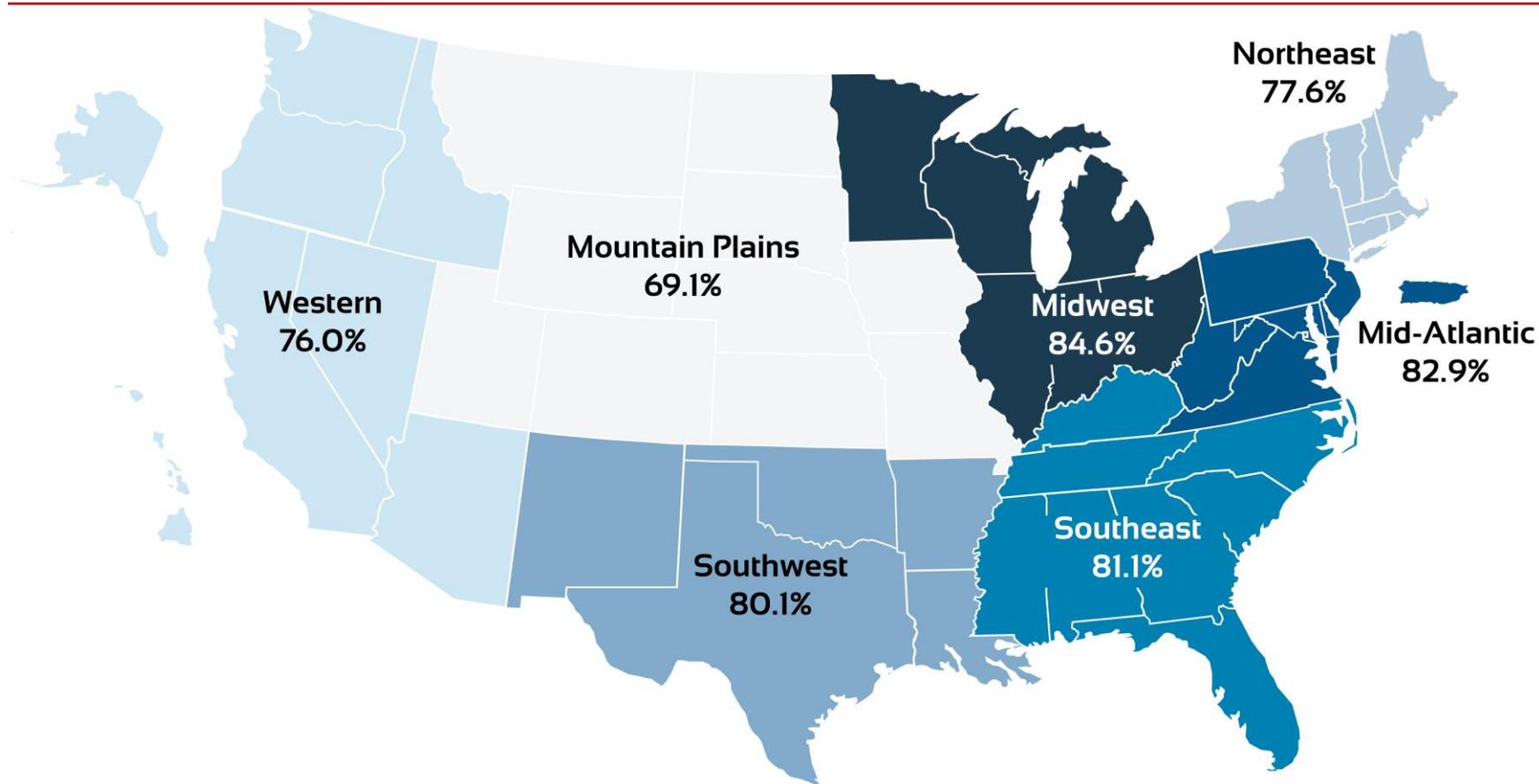
- ▶ C.11. White-Only Non-Hispanic
- ▶ C.12. Black-Only and Other Non-Hispanic
- ▶ C.13. Hispanic

Figure C.1. WIC Coverage Rate for Total Eligible Individuals by FNS Region: CY 2017
National Coverage Rate: 51.1 Percent



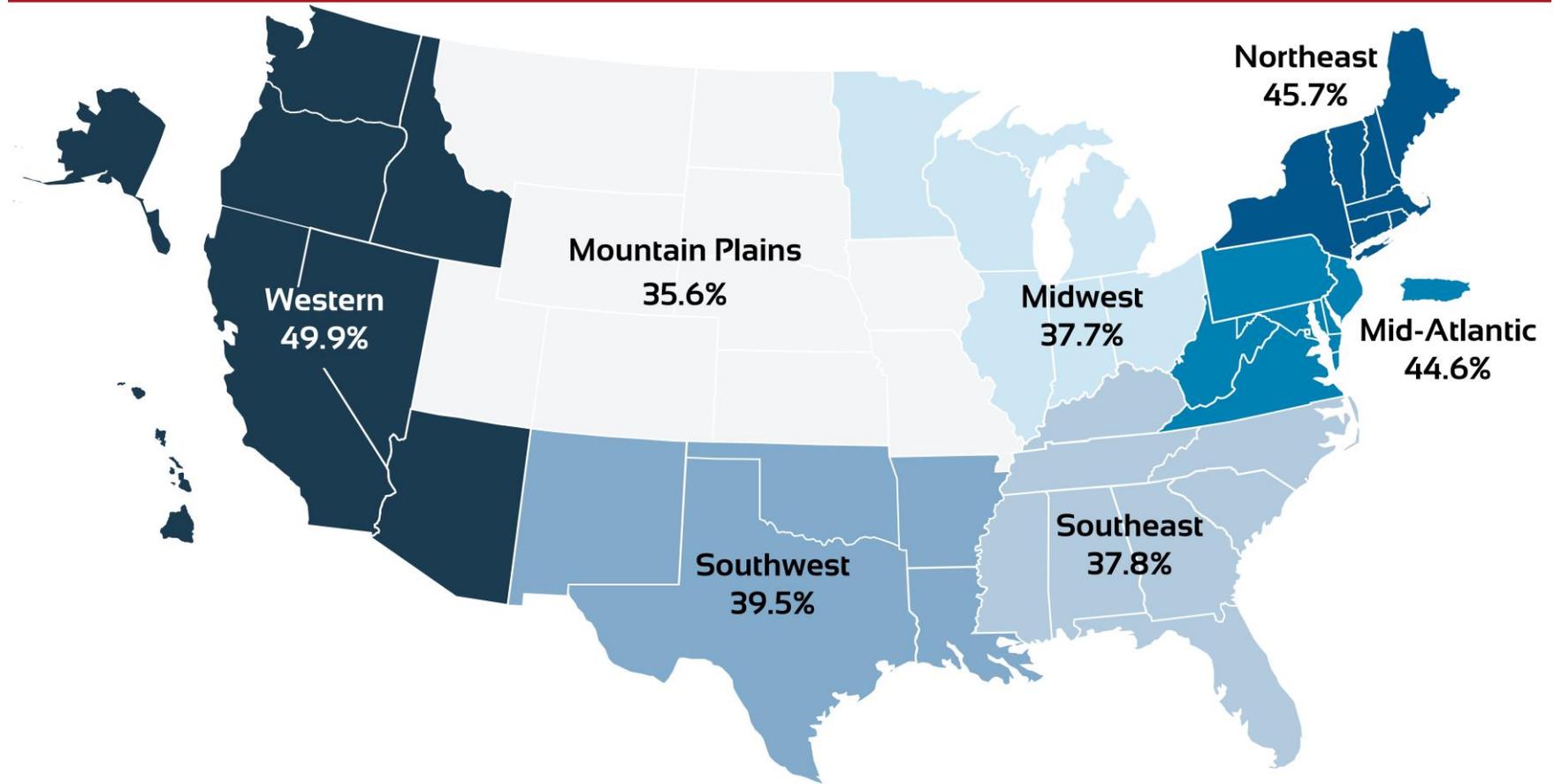
Sources: IPUMS-USA, n.d.; NBER, n.d.b; unpublished internal WIC administrative data

Figure C.2. WIC Coverage Rate for Infants by FNS Region: CY 2017
National Coverage Rate for Infants: 79.3 Percent



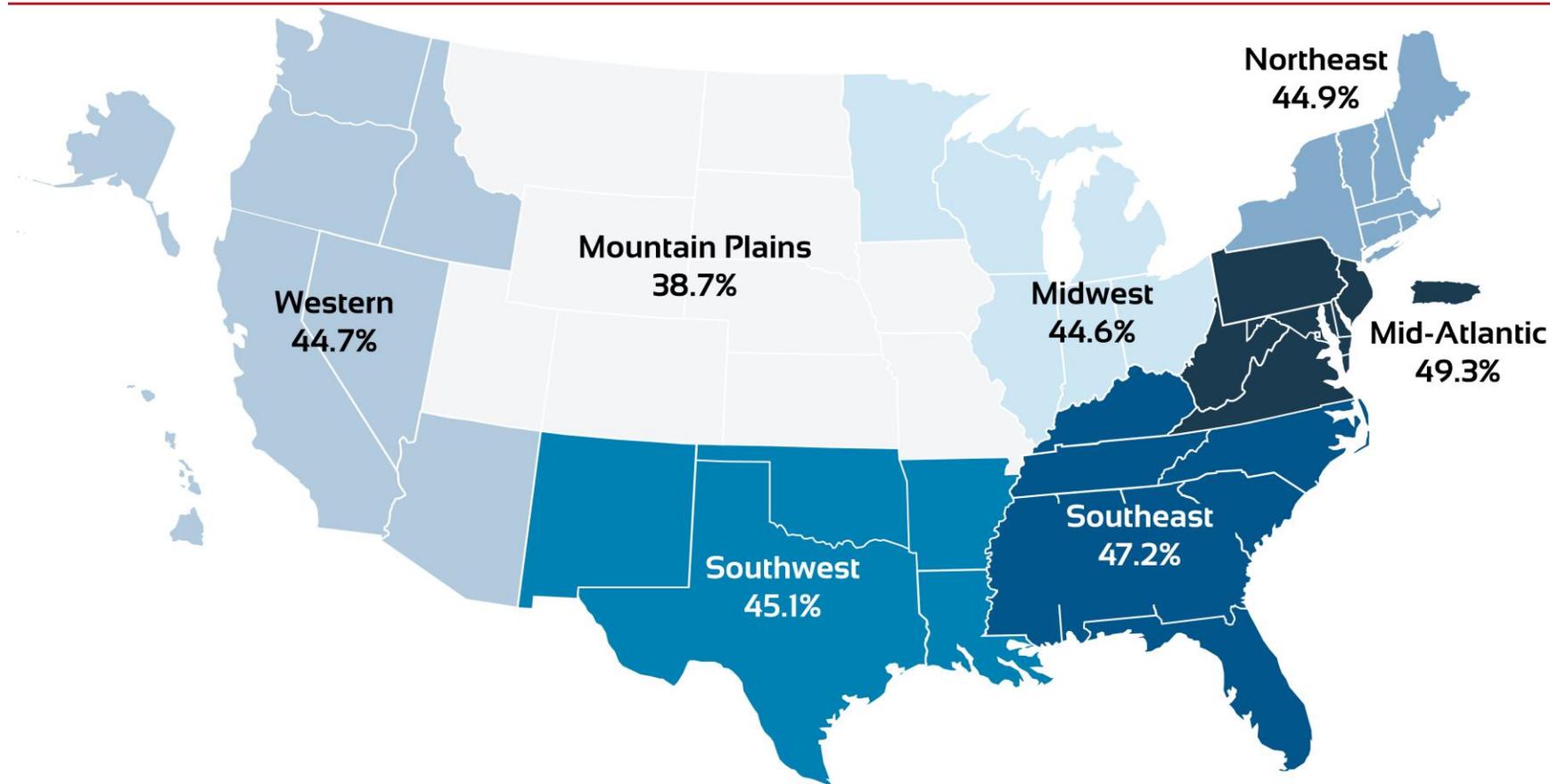
Sources: IPUMS-USA, n.d.; NBER, n.d.b; unpublished internal WIC administrative data

Figure C.3. WIC Coverage Rate for Children Aged 1–4 by FNS Region: CY 2017
National Coverage Rate for Children: 41.8 Percent



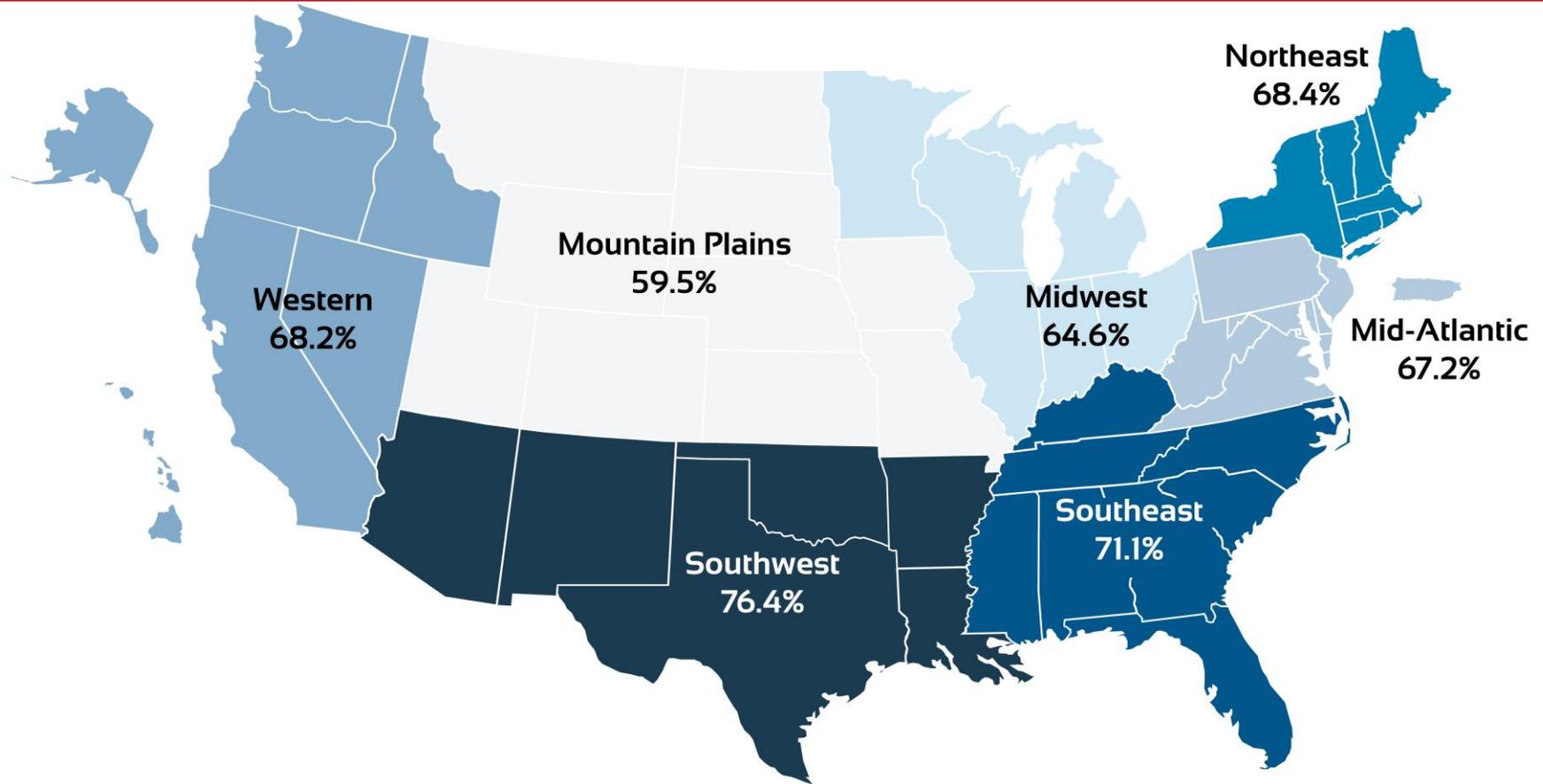
Sources: IPUMS-USA, n.d.; NBER, n.d.b; unpublished internal WIC administrative data

Figure C.4. WIC Coverage Rate for Pregnant Women by FNS Region: CY 2017
National Coverage Rate for Pregnant Women: 45.3 Percent



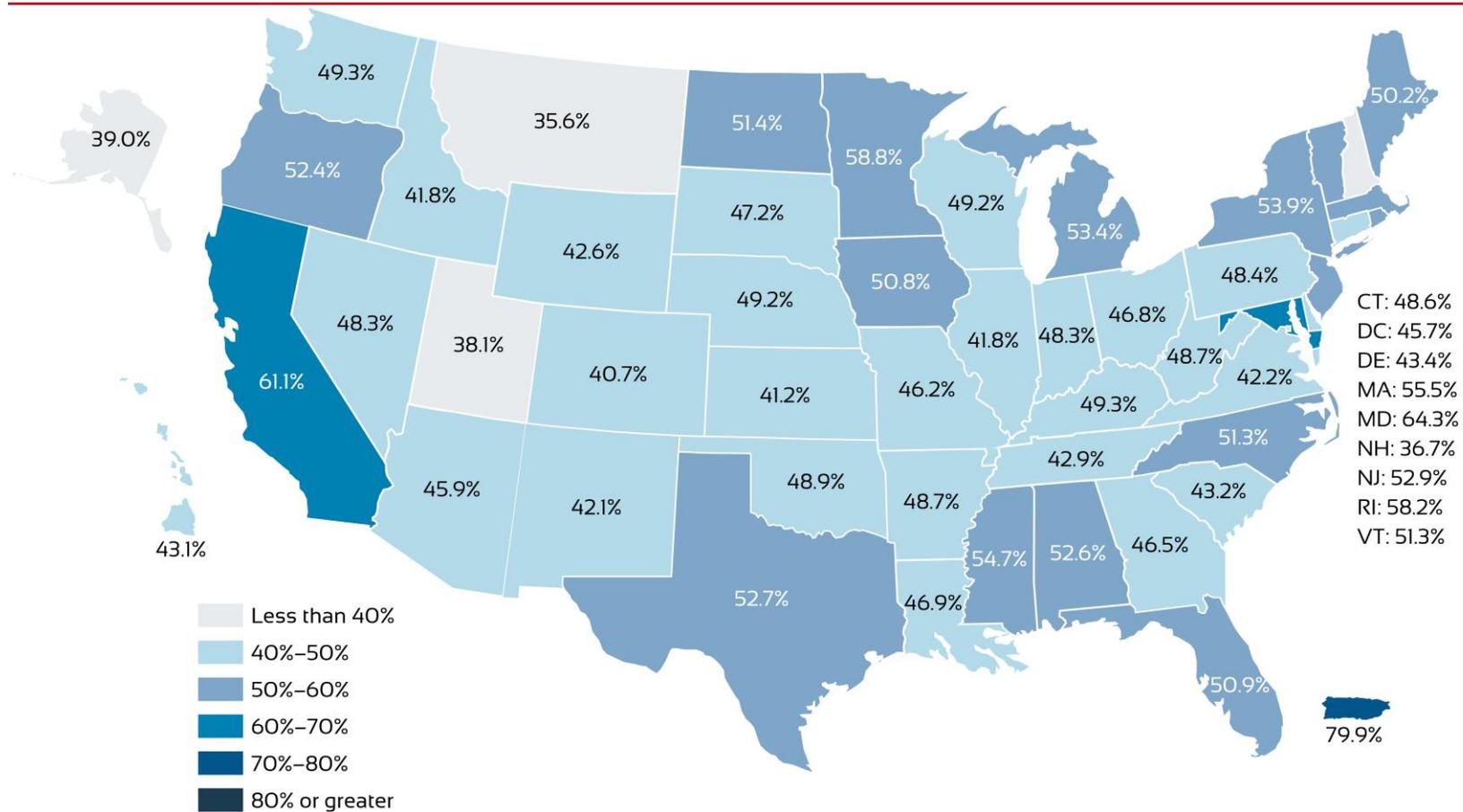
Sources: IPUMS-USA, n.d.; NBER, n.d.b; unpublished internal WIC administrative data

Figure C.5. WIC Coverage Rate for Postpartum Women by FNS Region: CY 2017
National Coverage Rate for Postpartum Women: 68.9 Percent



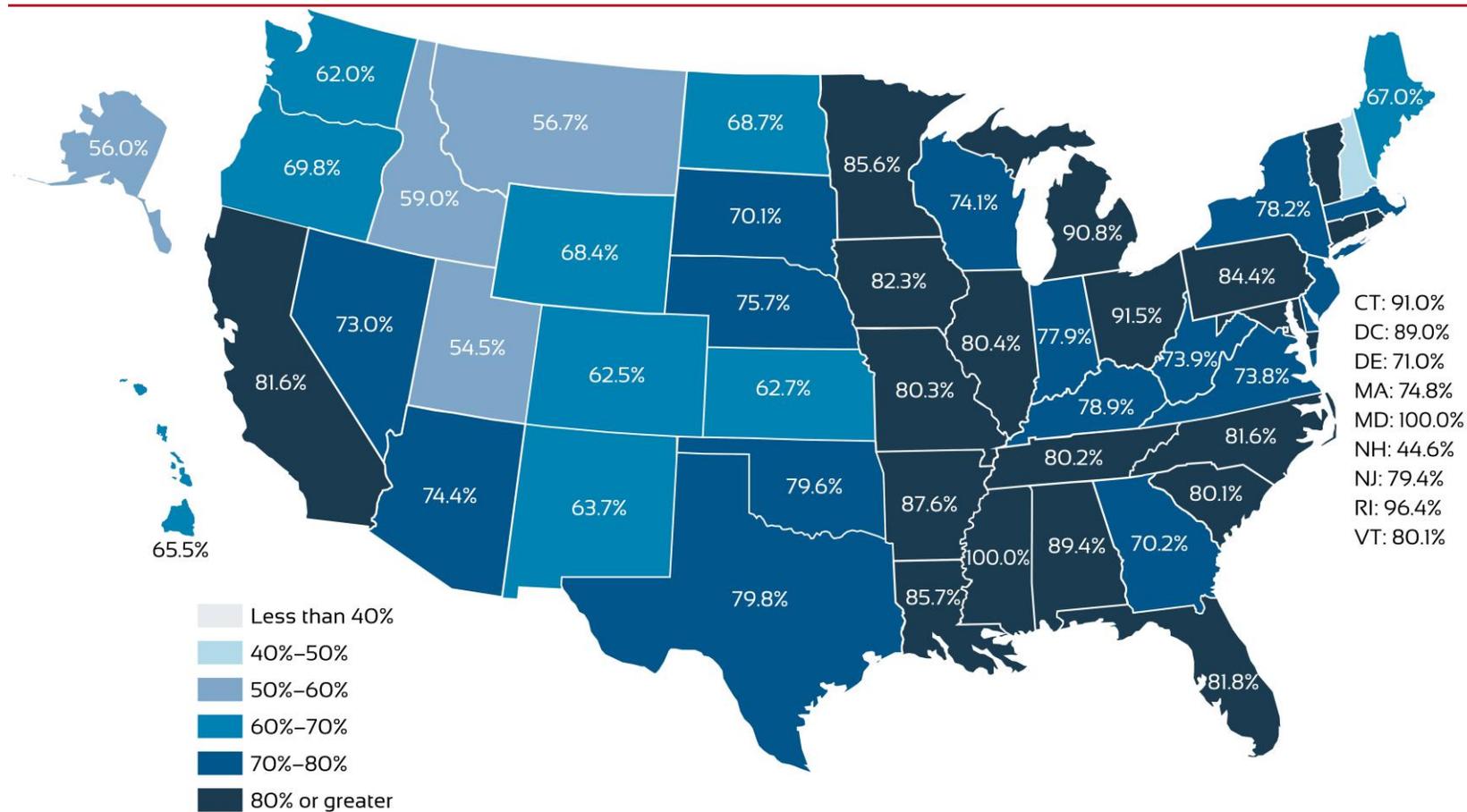
Sources: IPUMS-USA, n.d.; NBER, n.d.b; unpublished internal WIC administrative data

Figure C.6. WIC Coverage Rate for Total Eligible Individuals by State: CY 2017
National Coverage Rate: 51.1 Percent



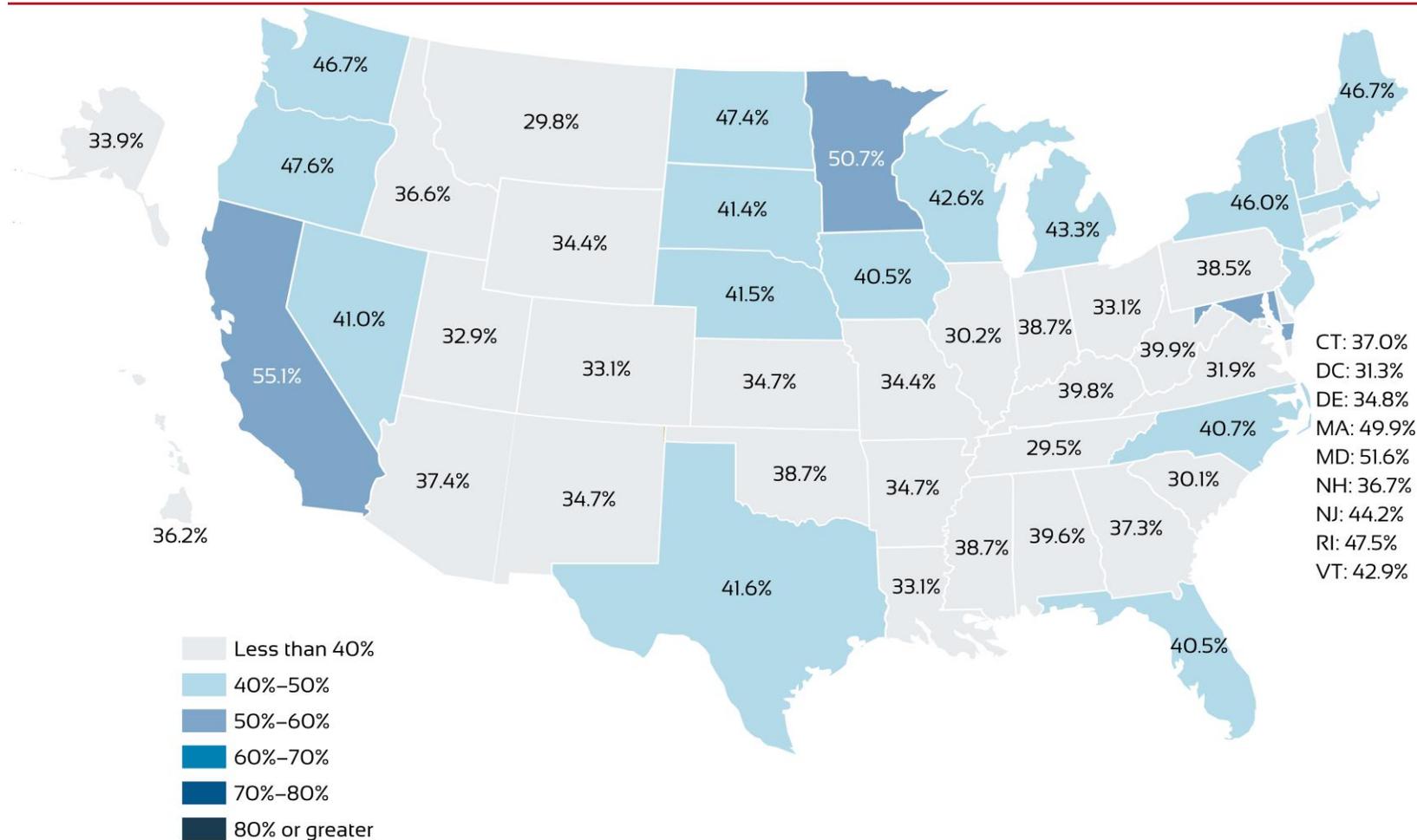
Sources: IPUMS-USA, n.d.; NBER, n.d.b; unpublished internal WIC administrative data

Figure C.7. WIC Coverage Rate for Infants by State: CY 2017
National Coverage Rate for Infants: 79.3 Percent



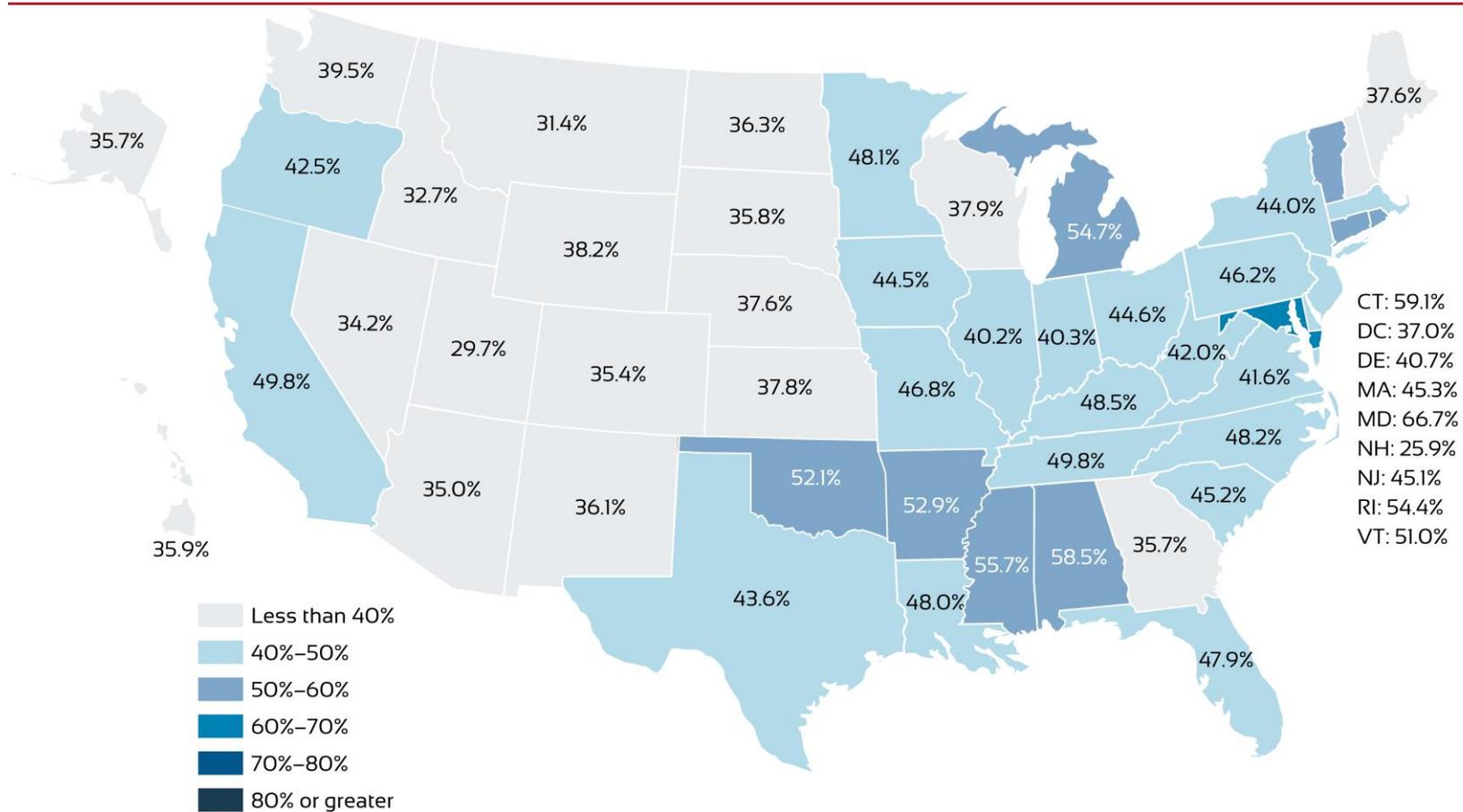
Note
 The estimated coverage rates exceeded 100 percent for infants in Maryland and Mississippi. This is likely a result of sampling variability in the CPS-ASEC survey data used to estimate the number of eligible individuals in those States (denominator of the rate). The lower-bound range of the 95-percent confidence interval surrounding these rates is below 100 percent. See chapter 6 in volume I for more information on measures of statistical uncertainty for the eligibility estimates.
 Sources: IPUMS-USA, n.d.; NBER, n.d.b; unpublished internal WIC administrative data

Figure C.8. WIC Coverage Rate for Children by State: CY 2017
National Coverage Rate for Children: 41.8 Percent



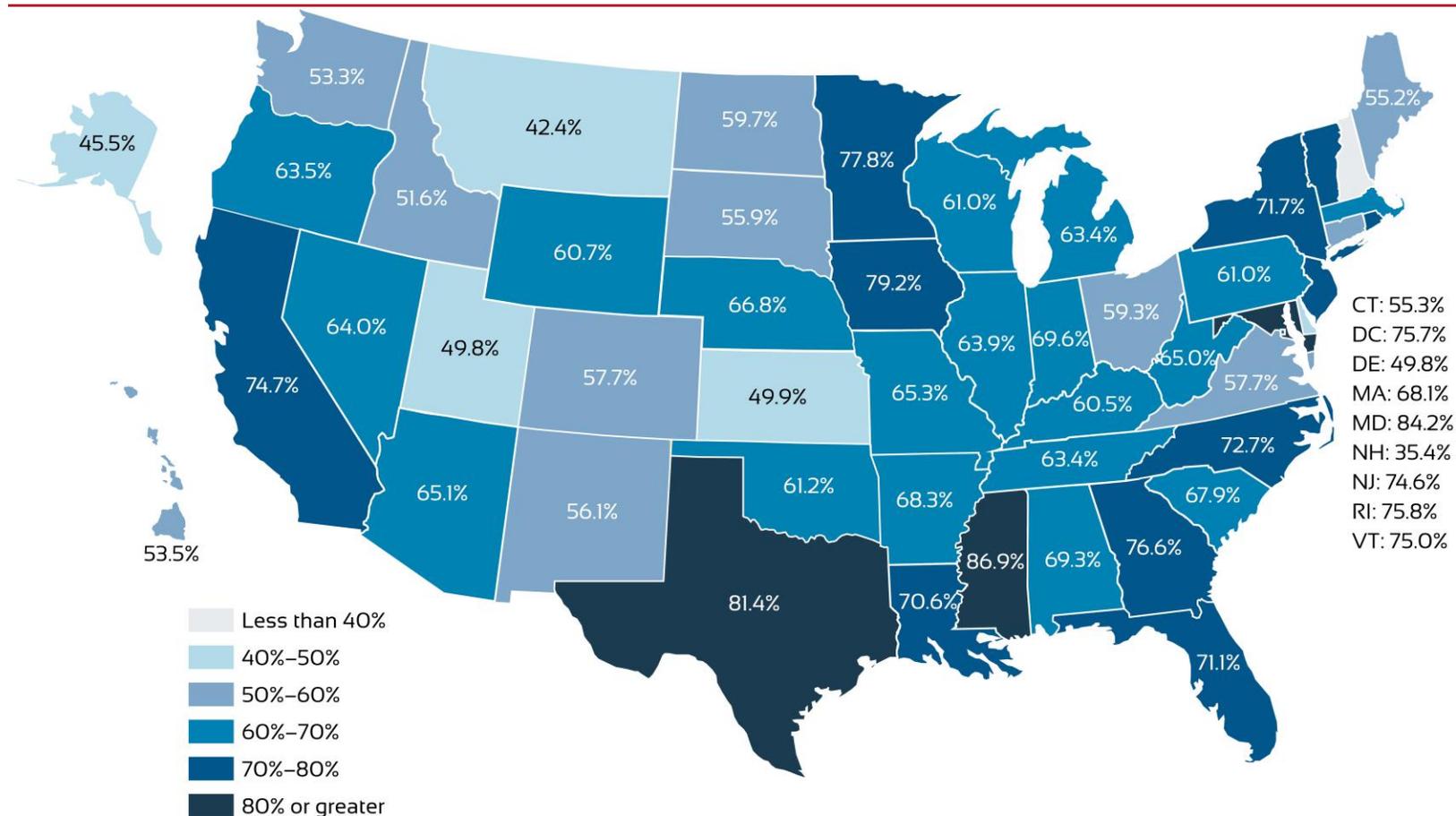
Sources: IPUMS-USA, n.d.b; NBER, n.d.; unpublished internal WIC administrative data

Figure C.9. WIC Coverage Rate for Pregnant Women by State: CY 2017
National Coverage Rate for Pregnant Women: 45.3 Percent



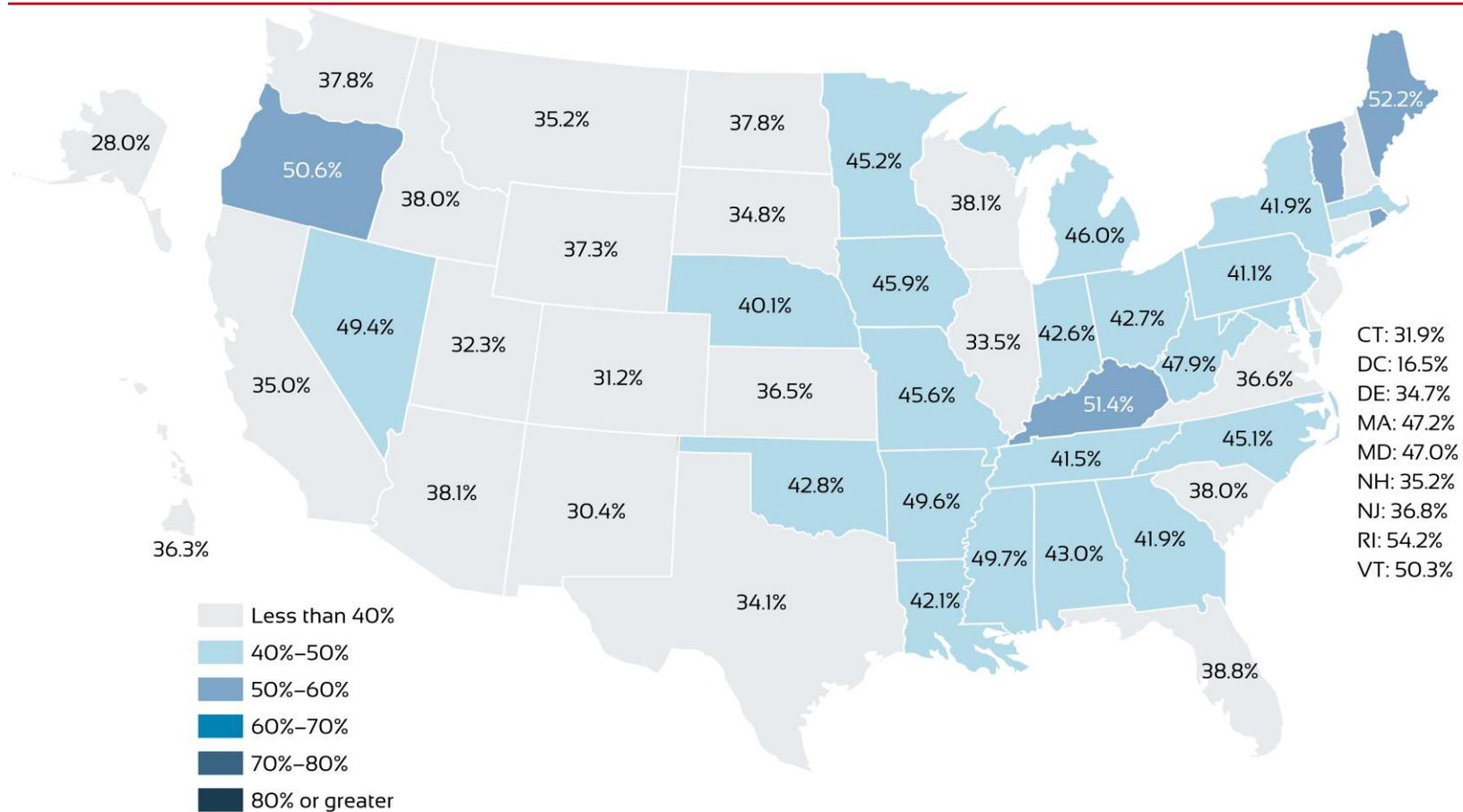
Sources: IPUMS-USA, n.d.; NBER, n.d.b; unpublished internal WIC administrative data

Figure C.10. WIC Coverage Rate for Postpartum Women by State: CY 2017
National Coverage Rate for Postpartum Women: 68.9 Percent



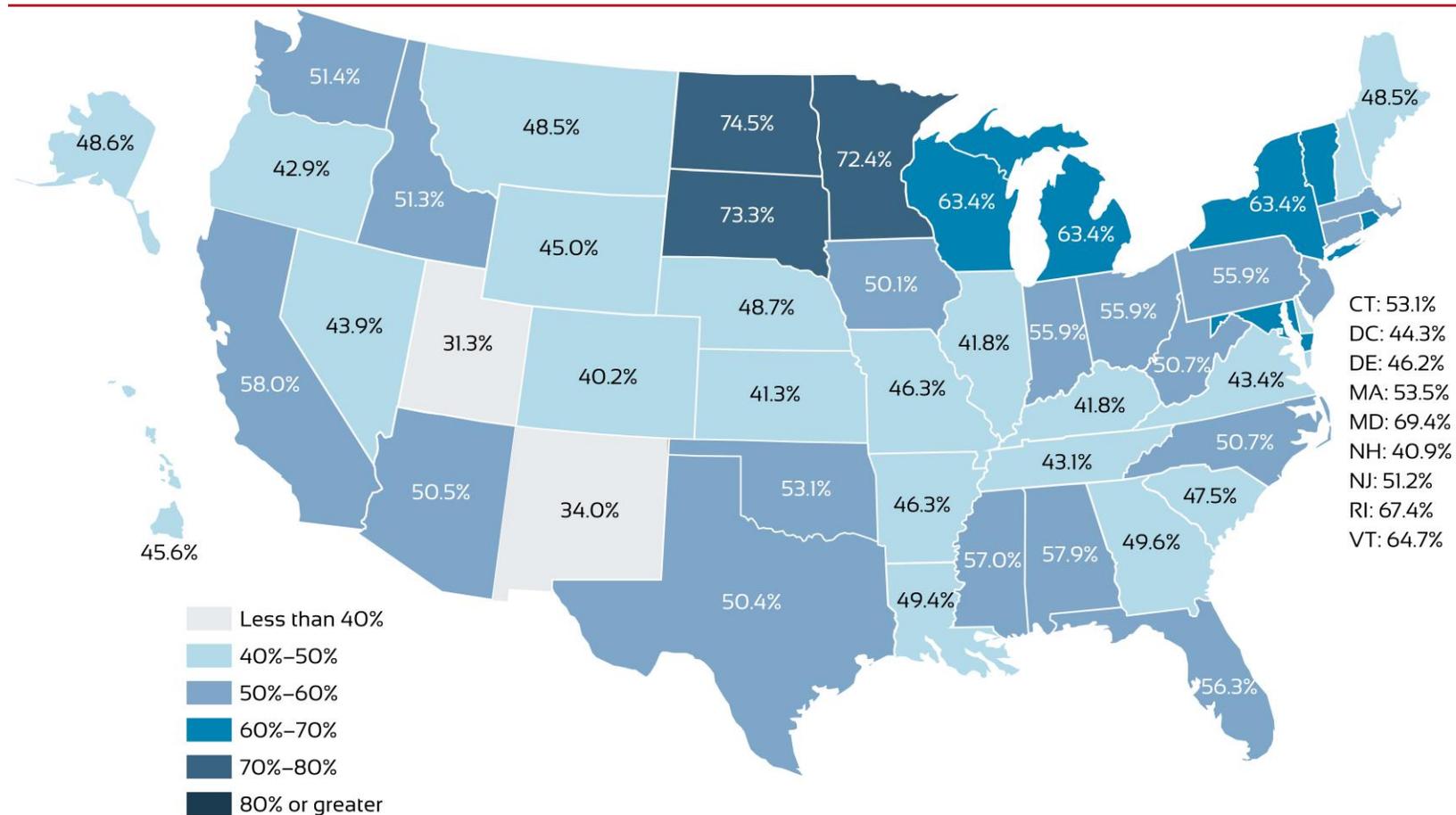
Sources: IPUMS-USA, n.d.; NBER, n.d.b; unpublished internal WIC administrative data

Figure C.11. WIC Coverage Rate for White-Only Non-Hispanic Individuals by State: CY 2017
National Coverage Rate for White-Only Non-Hispanic Individuals: 40.9 Percent



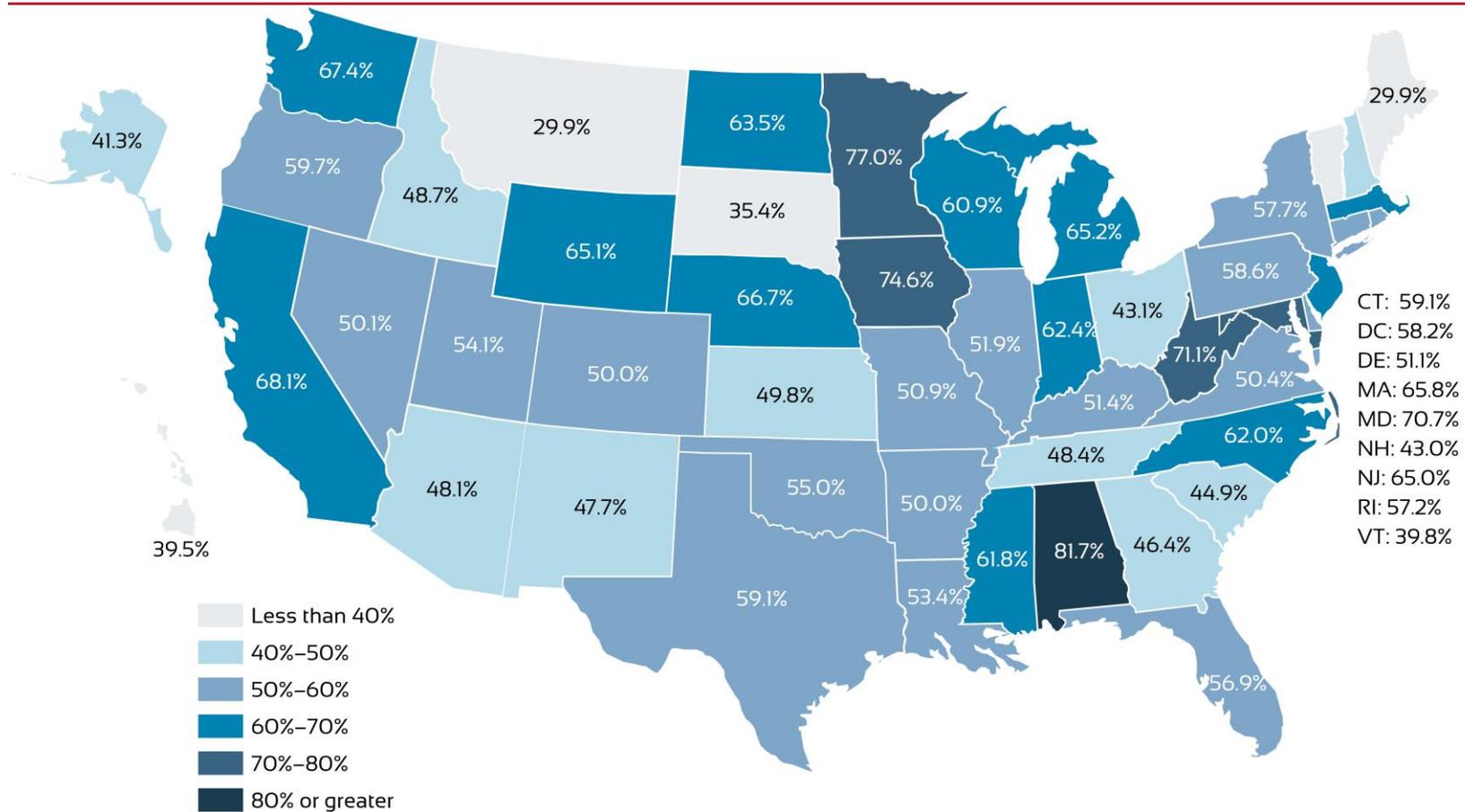
Sources: IPUMS-USA, n.d.; NBER, n.d.b; Thorn et al., 2018; unpublished internal WIC administrative data

Figure C.12. WIC Coverage Rate for Black-Only and Other Non-Hispanic Individuals by State: CY 2017
National Coverage Rate for Black-Only and Other Non-Hispanic Individuals: 53.2 Percent



Sources: IPUMS-USA, n.d.; NBER, n.d.b; Thorn et al., 2018; unpublished internal WIC administrative data

Figure C.13. WIC Coverage Rate for Hispanic Individuals by State: CY 2017
National Coverage Rate for Hispanic Individuals: 60.4 Percent



Sources: IPUMS-USA, n.d.; NBER, n.d.b; Thorn et al., 2018; unpublished internal WIC administrative data

Appendix D. Method for Calculating the Annual-to-Monthly Adjustment Factors Applied to Children for CY 2017

The Healthy, Hunger-Free Kids Act of 2010 (Pub. L. 111–296) gave States the option of adopting a 12-month certification period for children eligible for WIC rather than recertifying children every 6 months. Whether and when a State has adopted this option affects WIC eligibility for children. This consideration was accounted for not only the 2017 estimates but also the estimates for prior years when the policy was in effect.

Procedures for the CY 2017 Estimates

To incorporate the impact of 12-month certification on children’s WIC eligibility, State-specific annual-to-monthly factors were created—which varied by whether and when the State had adopted the 12-month certification option—and then a type of weighted average was created across the State-level estimates. Separate factors were created for race and ethnicity, both for each State and for the 50 States and the District of Columbia: one for White-Only Non-Hispanic children and one for children who were either non-White or Hispanic.

For States with a 6-month certification length, annual-to-monthly adjustment factors were 1.03 for White-Only Non-Hispanic children and 1.0 for all other children. In contrast, for States with a 12-month certification, the annual-to-monthly factors were 1.10 for White-Only Non-Hispanic children and 1.03 for non-White or Hispanic children. However, depending on when a State adopted the longer certification period, a prorated adjustment factor was calculated. The State-specific factors used for the 2017 estimates are shown in table D.1.

Implementation of the 12-month certification option affected eligibility in a nonretroactive manner. When a State adopts the longer certification period, the certification period shifts from 6 months to 12 months only for those children who first became eligible after the extension’s adoption. For 2017, this meant 12-month certification affected WIC eligibility in 2017 only if it was adopted before July 2017. If the policy was adopted after that date, any child covered by the new policy (i.e., a child who first became eligible for WIC in July 2017 or later) would have been certified eligible for the remainder of the year regardless of whether 6-month or 12-month certification was in place at the time he/she became eligible.

The fact that the new policy is not applied retroactively also means that even if the policy was adopted before July 2017, not all months of the year may have been affected by the longer certification period. Eligibility in all months of the year would have been affected only if the policy was adopted by February of the prior year. Although adoption of the policy as late as July of the prior year would increase eligibility in each month of the following year (versus what eligibility would be if certification was only for 6 months), the increase would not be as great as if 12-month certification had been in place in February of the prior year.

Therefore, if a State adopted 12-month certification in February 2016 or earlier, adjustment factors assuming 12-month certification length for all States were used (1.10 for White-Only Non-Hispanic, 1.03 for all other children). If a State did not adopt 12-month certification by January 2018, or did not adopt the policy before July 2017, adjustment factors assuming 6-month certification length for all States were used (1.03 for White-Only Non-Hispanic, 1.0 for all other children). Any State that adopted 12-month certification between March 2016 and June 2017 used adjustment factors that varied linearly between the 12- and 6-month bounds as described in table D.1.

Table D.1. Annual-to-Monthly Adjustment Factors Based on Month of Adoption of 12-Month Certification

Implementation Month		White-Only Non-Hispanic	Other
2016	March	1.096	1.028
	April	1.092	1.026
	May	1.088	1.025
	June	1.084	1.023
	July	1.079	1.021
	August	1.075	1.019
	September	1.071	1.018
	October	1.067	1.016
	November	1.063	1.014
	December	1.059	1.012
	2017	January	1.055
February		1.051	1.009
March		1.046	1.007
April		1.042	1.005
May		1.038	1.004
June		1.034	1.002

A summary of the assignment of various adjustment factors by State as shown in table D.2 follows:

1. Seven States had not adopted the 12-month certification policy by the end of 2017. For these States, the factors used for 2017 were the national 6-month factors (1.03 for White-Only Non-Hispanic children, 1.0 for all other children).
2. One State that adopted the policy in 2017 had not implemented it early enough (i.e., in July 2017 or later) to affect eligibility in 2017. For this State, the national 6-month factors were also used.
3. Thirty-nine States (and the District of Columbia) had adopted the policy early enough (i.e., in February 2016 or earlier) to affect eligibility for all months of 2017. For these States, the factors used for 2017 were the national 12-month factors (1.10 for White-Only Non-Hispanic children, 1.03 for all other children).
4. The remaining three States adopted the policy early enough (i.e., between March 2016 and June 2017) to affect eligibility in only some months of 2017. For these States, adjustment factors between 1.03 and 1.10 for White-Only Non-Hispanic children and between 1.0 and 1.03 for all other children were used based on the implementation month.

Table D.2. State-Level Annual-to-Monthly Adjustment Factors Used for the 2017 Estimates of Children Eligible for WIC

State	Implementation Date (as of February 7, 2019)	Annual-to-Monthly Factors Used for 2017 Estimates	
		White-Only Non-Hispanic	Other
Alabama	October 1, 2017	1.030	1.000
Alaska	January 19, 2014	1.100	1.030
Arizona	December 14, 2014	1.100	1.030
Arkansas	N/A	1.030	1.000
California	March 1, 2012	1.100	1.030
Colorado	September 1, 2013	1.100	1.030
Connecticut	October 1, 2012	1.100	1.030
Delaware	January 14, 2013	1.100	1.030
District of Columbia	March 1, 2014	1.100	1.030
Florida	October 1, 2011	1.100	1.030
Georgia	October 1, 2012	1.100	1.030
Hawaii	May 26, 2017	1.038	1.004
Idaho	January 5, 2015	1.100	1.030
Illinois	July 1, 2012	1.100	1.030
Indiana	January 20, 2014	1.100	1.030
Iowa	July 1, 2012	1.100	1.030
Kansas	June 1, 2014	1.100	1.030
Kentucky	N/A	1.030	1.000
Louisiana	October 1, 2019	1.030	1.000
Maine	January 1, 2012	1.100	1.030
Maryland	October 1, 2012	1.100	1.030
Massachusetts	January 1, 2012	1.100	1.030
Michigan	April 1, 2013	1.100	1.030
Minnesota	November 1, 2012	1.100	1.030
Mississippi	March 1, 2014	1.100	1.030
Missouri	December 1, 2013	1.100	1.030
Montana	October 1, 2011	1.100	1.030
Nebraska	N/A	1.030	1.000
Nevada	July 1, 2012	1.100	1.030
New Hampshire	July 1, 2014	1.100	1.030
New Jersey	September 1, 2018	1.030	1.000
New Mexico	October 1, 2012	1.100	1.030
New York	January 1, 2012	1.100	1.030
North Carolina	October 1, 2011	1.100	1.030
North Dakota	January 1, 2011	1.100	1.030
Ohio	N/A	1.030	1.000
Oklahoma	October 1, 2012	1.100	1.030

State	Implementation Date (as of February 7, 2019)	Annual-to-Monthly Factors Used for 2017 Estimates	
		White-Only Non-Hispanic	Other
Oregon	October 1, 2016	1.067	1.016
Pennsylvania	September 1, 2013	1.100	1.030
Rhode Island	January 1, 2015	1.100	1.030
South Carolina	October 1, 2015	1.100	1.030
South Dakota	April 1, 2011	1.100	1.030
Tennessee	October 1, 2013	1.100	1.030
Texas	March 1, 2012	1.100	1.030
Utah	October 1, 2013	1.100	1.030
Vermont	October 1, 2015	1.100	1.030
Virginia	January 1, 2013	1.100	1.030
Washington	November 1, 2011	1.100	1.030
West Virginia	N/A	1.030	1.000
Wisconsin	October 1, 2013	1.100	1.030
Wyoming	March 1, 2016	1.096	1.028

Notes

Implementation dates were provided by FNS as of February 7, 2019. If no date is listed, the State does not plan to adopt 12-month certification.

N/A = not applicable

After calculating appropriate factors for each State, it was also necessary to estimate a national-level factor. As described in volume I of this report, the State-level eligibility estimates were not calculated directly from the CPS-ASEC data. Instead, the national estimates were calculated using CPS-ASEC data that was apportioned to States based on State shares calculated using ACS data. Whereas the State-specific factors described earlier in this section were applied to each State when processing the ACS data, a national-level factor was required when processing the CPS-ASEC data. To do this, a weighted average of the State-specific factors was developed that weighted each State’s factor by its share of eligible individuals before applying any annual-to-monthly adjustment factor. This resulted in a national annual-to-monthly adjustment factor of 1.087 for White-Only Non-Hispanic children and 1.027 for all other children (see table D.3).

The new certification policy option was also considered for the purposes of estimating children’s WIC eligibility in Puerto Rico and the other U.S. territories. However, neither Puerto Rico nor any of the other territories implemented 12-month certification any earlier than January 2016. Therefore, a single factor (1.01 for children with 6-month certifications) rather than separate factors for race and ethnicity was applied for all children in the territories.

Table D.3. Calculation of the National-Level Annual-to-Monthly Adjustment Factor Used for the National 2017 Estimates of Children Eligible for WIC

State	State-Specific Annual-to-Monthly Factor		State Share of National Estimate of Children Eligible for WIC		State-Specific Factor Weighted by Share	
	White-Only Non-Hispanic	Other	White-Only Non-Hispanic	Other	White-Only Non-Hispanic	Other
Alabama	1.030	1.000	0.021	0.015	0.022	0.015
Alaska	1.100	1.030	0.004	0.003	0.004	0.003
Arizona	1.100	1.030	0.017	0.028	0.019	0.029
Arkansas	1.030	1.000	0.018	0.008	0.018	0.008
California	1.100	1.030	0.050	0.168	0.055	0.173
Colorado	1.100	1.030	0.017	0.014	0.019	0.014
Connecticut	1.100	1.030	0.006	0.008	0.007	0.009
Delaware	1.100	1.030	0.003	0.003	0.003	0.003
District of Columbia	1.100	1.030	0.000	0.003	0.000	0.003
Florida	1.100	1.030	0.055	0.072	0.061	0.075
Georgia	1.100	1.030	0.030	0.040	0.033	0.041
Hawaii	1.038	1.004	0.001	0.006	0.001	0.006
Idaho	1.100	1.030	0.010	0.003	0.011	0.003
Illinois	1.100	1.030	0.037	0.038	0.041	0.039
Indiana	1.100	1.030	0.036	0.013	0.039	0.013
Iowa	1.100	1.030	0.016	0.005	0.017	0.005
Kansas	1.100	1.030	0.013	0.007	0.014	0.007
Kentucky	1.030	1.000	0.031	0.007	0.032	0.007
Louisiana	1.030	1.000	0.018	0.020	0.018	0.020
Maine	1.100	1.030	0.005	0.001	0.006	0.001
Maryland	1.100	1.030	0.009	0.019	0.010	0.019
Massachusetts	1.100	1.030	0.013	0.015	0.014	0.015
Michigan	1.100	1.030	0.047	0.021	0.052	0.022
Minnesota	1.100	1.030	0.018	0.010	0.020	0.011
Mississippi	1.100	1.030	0.010	0.012	0.012	0.013
Missouri	1.100	1.030	0.030	0.011	0.033	0.011
Montana	1.100	1.030	0.006	0.002	0.007	0.002
Nebraska	1.030	1.000	0.008	0.004	0.008	0.004
Nevada	1.100	1.030	0.006	0.011	0.006	0.012
New Hampshire	1.100	1.030	0.005	0.001	0.005	0.001
New Jersey	1.030	1.000	0.016	0.024	0.016	0.024
New Mexico	1.100	1.030	0.004	0.011	0.004	0.011
New York	1.100	1.030	0.049	0.061	0.054	0.063
North Carolina	1.100	1.030	0.033	0.032	0.036	0.033
North Dakota	1.100	1.030	0.003	0.001	0.003	0.001
Ohio	1.030	1.000	0.054	0.022	0.056	0.022
Oklahoma	1.100	1.030	0.018	0.013	0.020	0.014

State	State-Specific Annual-to-Monthly Factor		State Share of National Estimate of Children Eligible for WIC		State-Specific Factor Weighted by Share	
	White-Only Non-Hispanic	Other	White-Only Non-Hispanic	Other	White-Only Non-Hispanic	Other
Oregon	1.067	1.016	0.018	0.009	0.019	0.009
Pennsylvania	1.100	1.030	0.050	0.025	0.055	0.026
Rhode Island	1.100	1.030	0.003	0.002	0.003	0.002
South Carolina	1.100	1.030	0.019	0.015	0.021	0.016
South Dakota	1.100	1.030	0.004	0.002	0.004	0.002
Tennessee	1.100	1.030	0.033	0.016	0.037	0.017
Texas	1.100	1.030	0.054	0.141	0.060	0.145
Utah	1.100	1.030	0.015	0.006	0.016	0.007
Vermont	1.100	1.030	0.004	0.000	0.004	0.000
Virginia	1.100	1.030	0.021	0.020	0.023	0.021
Washington	1.100	1.030	0.027	0.018	0.029	0.018
West Virginia	1.030	1.000	0.013	0.001	0.013	0.001
Wisconsin	1.100	1.030	0.019	0.011	0.021	0.011
Wyoming	1.096	1.028	0.003	0.001	0.003	0.001
U.S. Total	–	–	–	–	1.087	1.027

Notes

State shares are based on State eligibility before applying the annual-to-monthly adjustment factors.

“–” denotes blank cells.

Appendix E. Method for Calculating Multiple Births and Infant Deaths Factor for CY 2017

This purpose of this appendix is to describe the methodology used for updating and expanding the multiple births and infant deaths factor for estimating the number of pregnant and postpartum women eligible for WIC in 2017.

The number of pregnant and postpartum women eligible for WIC is estimated by applying an adjustment factor to the number of infants eligible for WIC in the CPS-ASEC data. The adjustment factor is important because the number of pregnant and postpartum women can differ from the number of infants. There are two reasons for this discrepancy: (1) the number of pregnant or postpartum women can be smaller than the number of infants because of multiple births; and (2) the number of pregnant or postpartum women can be greater than the number of infants because of fetal and infant deaths. As multiple births are more common than infant deaths, the adjustment factor results in an estimate of fewer pregnant and postpartum women than infants.

The adjustment factors used for estimates of pregnant and postpartum women eligible for WIC from 2000 through 2016 are shown in table E.1 along with the years of application and source data for the factor estimation.

Table E.1. Adjustment Factors for Estimates of Pregnant and Postpartum Women Eligible for WIC

Factor	Years of Application for WIC Estimates	Source Data for Adjustment Factor
0.9966	2000 through 2003	2002 National Vital Statistics data for multiple births and infant deaths March 2002 census estimates for count of infants
0.9961	2004 through 2016	2004 National Vital Statistics data for multiple births and infant deaths March 2004 census estimates for count of infants

Calculating the Updated and Expanded Adjustment Factor

The adjustment factors were updated and expanded using National Vital Statistics data (National Center for Health Statistics, n.d.). The following sources of information were used to produce the factor for the 2017 estimates:

- ▶ Births: Final Data for 2015–2017
- ▶ Period Linked Birth – Infant Death Data Files for 2014–2016
- ▶ Fetal Death Data Files for 2014–2016

To estimate the number of births, a 3-year average was calculated using data from 2015 to 2017. Because the Period Linked Birth – Infant Death Data Files and the Fetal Death Data Files were available only for 2016 and earlier, data from 2014 through 2016 were used to update the factor and calculate a 3-year average. To account for differences by race and ethnicity, individual factors were calculated for the following four groups: White-Only Non-Hispanic, Black-Only Non-Hispanic, Other Non-Hispanic, and Hispanic. Table E.2 shows the estimated factor adjustments since 2013.

Table E.2. Multiple Births and Infant Deaths Factor Adjustments for CY 2013–CY 2017

Year	All Races	White-Only Non-Hispanic	Black-Only Non-Hispanic	Hispanic	Other Non-Hispanic
2013	0.9945	0.9905	1.0031	0.9985	0.9948
2014	0.9943	0.9905	1.0024	0.9983	0.9943
2015	0.9943	0.9906	1.0021	0.9979	0.9942
2016	0.9943	0.9908	1.0020	0.9977	0.9940
2017	0.9945	0.9911	1.0019	0.9977	0.9944

Table E.3 shows the effect of the original factor (0.9961) on the 2017 estimates compared with the updated and expanded factors used to produce the 2017 estimates. The overall effect on the estimates of women eligible for WIC was less than 1 percent.

Table E.3. Change in Estimates of Pregnant and Postpartum Women Eligible for WIC Based on Updated and Expanded Multiple Births and Infant Deaths Factor by Race and Ethnicity: CY 2017

Race and Ethnicity	Multiple Births and Infant Deaths Factor		Difference in Factors	Estimates of Women Eligible for WIC		Percent Change in Estimates of Women Eligible for WIC
	Original	Revised		Original	Revised	
Total Women Eligible for WIC	0.9961	0.9945	-0.0016	2,979,479	2,977,551	-0.065
White-Only Non-Hispanic	0.9961	0.9911	-0.0050	1,149,818	1,144,046	-0.502
Black-Only Non-Hispanic	0.9961	1.0019	0.0058	447,815	450,422	0.582
Hispanic	0.9961	0.9977	0.0016	1,085,021	1,086,764	0.161
Other Non-Hispanic	0.9961	0.9944	-0.0017	296,826	296,319	-0.171

Note

This table does not include estimates for Puerto Rico or the other U.S. territories.

Appendix F. Data for Figures in Volumes I and II

This section includes additional data used for figures or maps of this report.

Table F.1. Trends in WIC Eligibility by Participant Category: CY 2005–CY 2017

Participant Category	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Infants	2,558,198	2,547,352	2,469,895	2,444,907	2,450,486	2,492,692	2,369,335	2,293,360	2,383,446	2,451,750	2,506,686	2,159,041	2,227,965
Children aged 1–4	8,438,790	8,199,817	8,189,922	8,565,160	9,025,534	9,100,231	8,675,794	8,752,082	8,929,389	9,347,672	9,268,848	8,907,712	8,859,001
Children aged 1	2,254,002	2,153,096	2,132,181	2,243,777	2,317,085	2,203,653	2,251,413	2,160,352	2,246,216	2,312,140	2,274,986	2,317,916	2,250,293
Children aged 2	2,115,499	2,047,789	2,052,056	2,087,040	2,267,648	2,275,554	2,097,521	2,176,383	2,210,997	2,318,334	2,321,950	2,222,568	2,268,129
Children aged 3	2,021,426	1,999,006	2,032,293	2,119,326	2,264,937	2,358,306	2,142,043	2,223,216	2,189,298	2,357,342	2,340,558	2,215,120	2,194,926
Children aged 4	2,047,864	1,999,926	1,973,393	2,115,017	2,175,865	2,262,718	2,184,818	2,192,131	2,282,879	2,359,857	2,331,355	2,152,108	2,145,654
Pregnant women	1,668,448	1,661,374	1,610,857	1,594,559	1,598,198	1,625,725	1,545,272	1,495,721	1,554,475	1,599,023	1,634,852	1,408,119	1,452,144
Postpartum women	1,555,282	1,571,818	1,544,977	1,537,912	1,535,907	1,570,531	1,515,309	1,475,700	1,544,490	1,606,863	1,652,116	1,458,923	1,533,038
Postpartum breastfeeding women	822,301	853,615	870,455	867,826	860,220	879,159	886,444	876,592	938,157	998,025	1,034,333	949,592	1,028,863
Postpartum non-breastfeeding women	732,981	718,203	674,522	670,086	675,687	691,372	628,865	599,108	606,333	608,838	617,783	509,331	504,175
Total	14,220,718	13,980,361	13,815,651	14,142,538	14,610,125	14,789,179	14,105,710	14,016,863	14,411,800	15,005,308	15,062,503	13,933,795	14,072,148

Note
 Estimates for 2016 should be interpreted with caution given the single-year anomaly that resulted from the small sample sizes in the CPS-ASEC data. See chapter 3 of volume I for more information.

Table F.2. Regional-Level WIC Eligibility by Participant Category: CY 2005–CY 2017

FNS Region	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Infants													
Northeast	206,365	206,379	199,728	199,727	201,618	212,157	209,890	196,252	211,248	218,523	216,978	193,078	195,412
Mid-Atlantic	283,563	280,232	267,317	261,435	278,918	276,393	263,384	261,129	270,095	272,098	281,006	234,319	239,600
Southeast	516,939	533,067	513,546	510,633	520,664	525,034	497,781	482,812	493,328	526,362	539,363	469,018	470,069
Midwest	379,646	371,990	359,711	366,835	373,180	380,165	367,236	339,373	350,952	368,281	370,624	316,849	319,036
Southwest	431,129	425,727	423,067	404,434	396,202	402,943	381,018	364,505	380,903	381,902	399,527	346,977	369,969
Mountain Plains	196,868	195,657	187,271	184,598	188,713	188,501	176,474	168,178	182,119	193,883	197,829	165,844	167,976
Western	543,689	534,299	519,254	517,245	491,190	507,500	473,552	481,110	494,800	490,700	501,360	432,957	465,904
Total	2,558,198	2,547,352	2,469,895	2,444,907	2,450,486	2,492,692	2,369,335	2,293,360	2,383,446	2,451,750	2,506,686	2,159,041	2,227,965
Children Aged 1-4													
Northeast	714,354	704,637	695,870	722,369	760,385	771,076	733,634	773,993	797,138	837,926	818,395	785,648	767,502
Mid-Atlantic	966,344	918,016	924,422	969,897	1,003,801	1,023,130	962,006	976,797	1,004,838	1,053,757	1,049,675	993,438	991,365
Southeast	1,692,528	1,661,879	1,653,911	1,780,460	1,894,699	1,894,494	1,820,166	1,830,151	1,896,838	1,992,652	1,951,240	1,923,067	1,910,663
Midwest	1,257,607	1,212,287	1,208,928	1,269,807	1,383,542	1,411,935	1,335,646	1,279,045	1,314,508	1,392,932	1,384,142	1,306,013	1,319,286
Southwest	1,389,898	1,386,648	1,367,724	1,414,712	1,425,242	1,433,611	1,356,633	1,396,436	1,405,210	1,452,577	1,457,684	1,402,260	1,406,725
Mountain Plains	650,739	625,462	632,189	628,839	681,760	694,702	675,421	661,621	660,008	700,741	698,992	644,758	670,005
Western	1,767,321	1,690,888	1,706,880	1,779,075	1,876,103	1,871,283	1,792,286	1,834,037	1,850,849	1,917,087	1,908,721	1,852,529	1,793,454
Total	8,438,791	8,199,817	8,189,923	8,565,160	9,025,535	9,100,231	8,675,795	8,752,082	8,929,390	9,347,672	9,268,848	8,907,712	8,859,001
Pregnant Women													
Northeast	134,590	134,600	130,262	130,261	131,495	138,368	136,889	127,995	137,775	142,520	141,512	125,925	127,332
Mid-Atlantic	184,939	182,766	174,343	170,507	181,909	180,263	171,778	170,307	176,155	177,461	183,271	152,822	156,193
Southeast	337,146	347,664	334,933	333,033	339,575	342,425	324,651	314,889	321,747	343,292	351,77	305,892	306,490
Midwest	247,604	242,611	234,603	239,248	243,387	247,943	239,510	221,338	228,890	240,192	241,719	206,648	207,727
Southwest	281,181	277,657	275,923	263,770	258,401	262,798	248,498	237,729	248,424	249,075	260,570	226,297	241,338
Mountain Plains	128,396	127,607	122,138	120,394	123,078	122,940	115,096	109,685	118,778	126,450	129,023	108,163	109,322
Western	354,592	348,468	338,656	337,345	320,352	330,990	308,849	313,778	322,707	320,033	326,985	282,373	303,742
Total	1,668,448	1,661,374	1,610,857	1,594,559	1,598,198	1,625,725	1,545,272	1,495,721	1,554,475	1,599,023	1,634,852	1,408,119	1,452,144

FNS Region	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Postpartum Breastfeeding Women													
Northeast	70,293	70,678	72,681	77,266	76,480	81,879	83,151	78,465	88,338	91,014	105,604	95,268	95,816
Mid-Atlantic	81,178	81,195	75,852	71,147	76,440	79,267	84,612	88,259	93,957	98,000	112,923	100,775	109,681
Southeast	122,844	136,106	141,397	144,392	146,087	144,819	147,675	146,471	156,611	179,626	188,515	180,210	195,089
Midwest	104,109	101,991	106,315	109,024	119,252	117,730	121,204	118,923	128,764	143,764	136,173	126,885	135,068
Southwest	125,150	132,844	142,511	133,905	121,533	126,259	125,602	125,880	130,375	139,157	149,931	135,292	168,654
Mountain Plains	73,575	80,137	84,457	83,357	85,457	79,430	78,011	69,076	76,076	84,196	86,719	78,428	79,489
Western	245,152	250,664	247,243	248,735	234,970	249,775	246,191	249,519	264,037	262,268	254,467	232,734	245,065
Total	822,301	853,615	870,455	867,826	860,220	879,159	886,444	876,592	938,157	998,025	1,034,333	949,592	1,028,863
Postpartum Non-Breastfeeding Women													
Northeast	58,369	58,200	54,251	53,559	54,233	57,068	54,595	50,502	52,542	54,248	48,905	40,926	41,497
Mid-Atlantic	86,592	85,060	80,243	79,088	84,391	83,668	75,566	73,141	74,234	72,953	71,414	57,241	54,943
Southeast	168,296	169,633	157,207	156,456	159,068	161,775	147,511	141,982	142,929	146,004	145,581	123,381	117,459
Midwest	116,944	114,162	105,929	108,426	107,456	111,315	102,786	92,661	92,612	93,732	97,430	80,822	78,077
Southwest	126,047	120,511	114,584	110,745	111,313	113,839	103,895	98,794	102,438	100,313	100,966	88,114	84,442
Mountain Plains	51,952	50,048	46,110	45,956	46,780	48,281	42,800	41,215	43,400	45,114	47,166	36,439	36,786
Western	124,780	120,587	116,197	115,856	112,446	115,426	101,711	100,814	98,180	96,475	106,322	82,408	90,973
Total	732,981	718,203	674,522	670,086	675,687	691,372	628,865	599,108	606,333	608,838	617,783	509,331	504,175

Note
Estimates for 2016 should be interpreted with caution given the single-year anomaly that resulted from the small sample sizes in the CPS-ASEC data. See chapter 3 of volume I for more information.

Table F.3. WIC Coverage Rates by State and Participant Category: CY 2017

State	Infants	Children Aged 1	Children Aged 2	Children Aged 3	Children Aged 4	All Children Aged 1-4	Pregnant Women	Postpartum Women	Total
Alabama	89.4	53.6	41.4	36.0	26.6	39.6	58.5	69.3	52.6
Alaska	56.0	41.5	35.7	33.2	22.5	33.9	35.7	45.5	39.0
Arizona	74.4	54.2	39.5	35.4	20.0	37.4	35.0	65.1	45.9
Arkansas	87.6	54.1	36.1	28.2	19.7	34.7	52.9	68.3	48.7
California	81.6	67.2	55.4	54.1	43.7	55.1	49.8	74.7	61.1
Colorado	62.5	48.9	33.0	31.1	19.4	33.1	35.4	57.7	40.7
Connecticut	91.0	59.7	37.3	31.9	21.7	37.0	59.1	55.3	48.6
Delaware	71.0	51.6	39.4	31.3	16.1	34.8	40.7	49.8	43.4
District of Columbia	89.0	55.1	30.8	30.7	11.7	31.3	37.0	75.7	45.7
Florida	81.8	59.0	42.9	37.4	21.5	40.5	47.9	71.1	50.9
Georgia	70.2	50.8	40.4	35.6	21.4	37.3	35.7	76.6	46.5
Hawaii	65.5	49.9	41.8	31.3	25.9	36.2	35.9	53.5	43.1
Idaho	59.0	58.4	37.5	34.8	15.9	36.6	32.7	51.6	41.8
Illinois	80.4	39.6	32.1	28.2	20.1	30.2	40.2	63.9	41.8
Indiana	77.9	54.5	46.6	35.1	16.0	38.7	40.3	69.6	48.3
Iowa	82.3	55.7	45.7	36.8	21.2	40.5	44.5	79.2	50.8
Kansas	62.7	50.5	37.5	35.2	16.2	34.7	37.8	49.9	41.2
Kentucky	78.9	54.3	40.6	38.1	26.1	39.8	48.5	60.5	49.3
Louisiana	85.7	46.7	35.5	28.6	19.6	33.1	48.0	70.6	46.9
Maine	67.0	60.2	47.5	52.1	28.2	46.7	37.6	55.2	50.2
Maryland	100.0	70.9	53.4	54.2	27.7	51.6	66.7	84.2	64.3
Massachusetts	74.8	68.3	53.9	46.9	29.2	49.9	45.3	68.1	55.5
Michigan	90.8	59.3	44.8	47.8	19.3	43.3	54.7	63.4	53.4
Minnesota	85.6	65.0	54.6	53.5	30.7	50.7	48.1	77.8	58.8
Mississippi	100.0	56.0	39.9	33.5	24.1	38.7	55.7	86.9	54.7
Missouri	80.3	53.0	35.5	30.9	18.3	34.4	46.8	65.3	46.2
Montana	56.7	45.7	30.0	31.4	15.0	29.8	31.4	42.4	35.6
Nebraska	75.7	51.8	42.7	43.3	27.8	41.5	37.6	66.8	49.2

State	Infants	Children Aged 1	Children Aged 2	Children Aged 3	Children Aged 4	All Children Aged 1-4	Pregnant Women	Postpartum Women	Total
Nevada	73.0	53.4	44.4	34.8	31.6	41.0	34.2	64.0	48.3
New Hampshire	44.6	56.1	49.4	31.2	16.4	36.7	25.9	35.4	36.7
New Jersey	79.4	56.4	44.1	43.2	31.5	44.2	45.1	74.6	52.9
New Mexico	63.7	48.6	33.7	37.9	18.0	34.7	36.1	56.1	42.1
New York	78.2	64.9	47.4	44.1	27.4	46.0	44.0	71.7	53.9
North Carolina	81.6	55.7	46.7	38.0	22.2	40.7	48.2	72.7	51.3
North Dakota	68.7	86.8	38.3	54.0	24.7	47.4	36.3	59.7	51.4
Ohio	91.5	44.1	33.2	31.4	23.0	33.1	44.6	59.3	46.8
Oklahoma	79.6	53.0	42.7	36.0	23.6	38.7	52.1	61.2	48.9
Oregon	69.8	64.2	49.6	44.3	33.7	47.6	42.5	63.5	52.4
Pennsylvania	84.4	55.2	41.9	35.0	21.4	38.5	46.2	61.0	48.4
Rhode Island	96.4	53.0	54.2	44.2	35.3	47.5	54.4	75.8	58.2
South Carolina	80.1	51.5	31.2	26.4	10.3	30.1	45.2	67.9	43.2
South Dakota	70.1	58.2	62.2	31.6	21.1	41.4	35.8	55.9	47.2
Tennessee	80.2	41.3	30.2	31.1	14.4	29.5	49.8	63.4	42.9
Texas	79.8	63.0	43.1	39.0	19.3	41.6	43.6	81.4	52.7
Utah	54.5	42.3	32.9	29.6	23.7	32.9	29.7	49.8	38.1
Vermont	80.1	52.0	41.5	45.5	32.4	42.9	51.0	75.0	51.3
Virginia	73.8	39.6	35.2	33.6	18.4	31.9	41.6	57.7	42.2
Washington	62.0	56.9	47.1	47.0	35.4	46.7	39.5	53.3	49.3
West Virginia	73.9	57.1	40.8	39.9	24.2	39.9	42.0	65.0	48.7
Wisconsin	74.1	60.8	43.8	38.5	25.5	42.6	37.9	61.0	49.2
Wyoming	68.4	59.3	34.8	25.4	23.4	34.4	38.2	60.7	42.6

State	Infants	Children Aged 1	Children Aged 2	Children Aged 3	Children Aged 4	All Children Aged 1–4	Pregnant Women	Postpartum Women	Total
FNS Region									
Northeast	77.6	64.0	47.7	43.3	27.2	45.7	44.9	68.4	53.2
Mid-Atlantic	82.9	61.6	47.8	44.1	24.2	44.6	49.3	67.2	53.4
Southeast	81.1	53.8	40.3	35.4	20.9	37.8	47.2	71.1	49.0
Midwest	84.6	51.0	40.1	37.2	21.5	37.7	44.6	64.6	48.5
Southwest	80.1	58.8	41.2	36.8	19.7	39.5	45.1	76.4	50.8
Mountain Plains	69.1	51.3	37.0	33.0	20.1	35.6	38.7	59.5	43.8
Western	76.0	62.8	50.8	48.3	37.3	49.9	44.7	68.2	55.6
Total	79.3	57.5	43.8	40.0	25.0	41.8	45.3	68.9	51.1

Notes

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 chapter 6 in volume I for more details on statistical uncertainty for these estimates.

State and regional eligibility estimates and participant data include individuals in Indian Tribal Organizations who were eligible for WIC.

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

The estimated coverage rates exceeded 100 percent for infants in Maryland and Mississippi. This is likely a result of sampling variability in the CPS-ASEC survey data used to estimate the number of eligible individuals in those States (denominator of the rate). The lower-bound range of the 95-percent confidence interval surrounding these rates is below 100 percent. See chapter 6 in volume I for more information on measures of statistical uncertainty for the eligibility estimates.

Sources: IPUMS-USA, n.d.; NBER, n.d.b; U.S. Census Bureau, n.d.c; Thorn et al., 2018; unpublished internal WIC administrative data

Table F.4. WIC Coverage Rates by Participant Category: CY 2005–CY 2017

Participant Category	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
All Participants	56.5	58.1	60.6	62.4	62.9	61.6	63.5	63.2	59.3	54.8	52.7	54.5	51.1
Infants	80.3	82.2	88.5	91.1	90.5	86.3	88.5	89.8	84.6	80.0	76.9	85.9	79.3
Children aged 1–4	47.4	48.6	49.8	51.7	53.1	53.2	54.8	53.9	50.5	46.0	44.4	44.1	41.8
Children aged 1	62.0	65.8	67.9	72.0	75.4	76.5	73.6	76.1	70.0	68.2	62.8	59.2	57.5
Children aged 2	49.0	50.2	51.3	54.2	54.0	55.7	59.5	54.9	51.6	48.1	47.0	47.4	43.8
Children aged 3	45.1	44.5	44.7	46.0	46.5	46.8	50.7	49.5	48.0	42.2	41.8	42.1	40.0
Children aged 4	32.0	32.7	33.9	33.4	35.2	34.5	35.1	35.5	32.6	25.9	26.3	26.5	25.0
Pregnant women	52.4	54.1	56.5	58.1	59.0	56.8	57.9	59.0	54.0	50.2	46.4	50.3	45.3
Postpartum women	70.8	72.9	77.7	80.3	80.5	76.3	79.3	81.6	76.6	72.6	69.2	75.8	68.9
Postpartum breastfeeding women	61.4	62.1	64.1	67.2	68.4	64.4	65.1	67.5	63.3	59.5	57.4	62.2	55.5
Postpartum non-breastfeeding women	81.3	85.8	95.3	97.4	95.8	91.4	99.4	100.0	97.2	94.1	88.9	100.0	96.3

Notes
 Estimates for 2016 should be interpreted with caution given the single-year anomaly that resulted from the small sample sizes in the CPS-ASEC data. See chapter 3 of volume I for more information. The estimated coverage rates for postpartum non-breastfeeding women exceeded 100 percent in 2012 and 2016. This is likely a result of sampling variability in the CPS survey data used to estimate the number of postpartum women in those States (denominator of the rate). The lower-bound range of the 95-percent confidence interval surrounding these rates is below 100 percent. See chapter 6 in volume I for more information on measures of statistical uncertainty for the eligibility estimates.

Table F.5. Coverage Rates by FNS Region and Participant Category: CY 2005–CY 2017

FNS Region	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
All Participants													
Total	56.5	58.1	60.6	62.4	62.9	61.6	63.5	63.2	59.3	54.8	52.7	54.5	51.1
Northeast	61.4	62.1	64.3	65.4	65.0	61.7	63.4	63.9	58.9	53.7	52.8	55.1	53.2
Mid-Atlantic	58.1	60.8	62.9	64.8	64.0	62.5	65.4	64.4	61.1	56.6	54.6	57.4	53.4
Southeast	51.9	53.3	57.4	59.6	59.2	57.6	59.2	59.0	55.0	50.4	50.0	51.2	49.0
Midwest	54.4	57.2	59.4	60.1	58.7	56.7	57.5	59.6	55.9	51.5	49.2	51.3	48.5
Southwest	55.3	54.7	56.4	58.9	63.2	63.1	64.1	62.5	59.3	55.9	53.1	55.4	50.8
Mountain Plains	48.1	49.4	50.7	54.2	53.8	52.8	53.5	54.1	49.8	45.5	43.5	47.0	43.8
Western	63.3	66.3	68.9	69.8	71.2	70.8	74.4	72.7	68.5	64.0	60.1	60.5	55.6
Infants													
Total	80.3	82.2	88.5	91.1	90.5	86.3	88.5	89.8	84.6	80.0	76.9	85.9	79.3
Northeast	88.0	88.7	94.4	96.4	93.4	86.1	86.2	91.0	82.3	75.8	74.9	81.6	77.6
Mid-Atlantic	82.8	85.5	91.6	94.4	88.3	87.5	90.2	90.6	86.1	82.1	79.0	90.3	82.9
Southeast	78.0	79.0	88.0	91.2	88.4	84.1	87.6	88.4	84.4	77.7	76.2	83.4	81.1
Midwest	83.0	86.7	92.5	91.7	88.3	84.8	84.3	89.5	85.2	79.1	77.0	89.0	84.6
Southwest	77.6	78.2	81.7	87.1	91.8	88.6	89.5	91.8	86.7	85.2	80.3	90.1	80.1
Mountain Plains	69.7	70.0	75.6	79.6	80.6	79.1	79.9	80.9	72.6	67.6	64.5	73.7	69.1
Western	82.1	85.7	92.4	94.2	97.0	89.9	95.0	92.1	87.2	84.8	79.5	87.0	76.0
Children Aged 1–4													
Total	47.4	48.6	49.8	51.7	53.1	53.2	54.8	53.9	50.5	46.0	44.4	44.1	41.8
Northeast	51.3	51.5	52.5	53.7	54.8	53.3	55.6	54.6	51.4	46.3	46.1	46.9	45.7
Mid-Atlantic	49.3	51.9	52.0	53.7	55.4	54.2	57.1	55.6	53.0	48.5	47.2	47.4	44.6
Southeast	41.1	42.3	44.5	47.2	48.4	48.0	48.9	48.2	44.2	40.0	40.1	39.7	37.8
Midwest	44.0	45.9	47.2	48.9	48.8	47.6	48.7	49.6	46.3	42.5	40.3	40.0	37.7
Southwest	46.6	45.1	46.2	48.0	51.9	52.7	53.4	50.3	47.5	43.7	41.5	41.7	39.5
Mountain Plains	39.9	41.4	41.7	45.6	45.2	44.5	45.1	44.9	41.7	37.8	36.4	38.2	35.6
Western	56.8	59.5	60.4	61.4	62.8	65.5	68.6	67.3	63.6	57.9	54.4	52.3	49.9

FNS Region	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Pregnant Women													
Total	52.4	54.1	56.5	58.1	59.0	56.8	57.9	59.0	54.0	50.2	46.4	50.3	45.3
Northeast	57.4	58.7	60.8	61.2	60.7	56.1	55.4	58.8	50.7	47.0	45.1	48.5	44.9
Mid-Atlantic	52.0	54.3	56.9	59.6	56.9	55.8	56.5	56.0	53.2	49.8	49.4	54.5	49.3
Southeast	49.8	50.7	53.8	55.8	55.3	54.6	55.7	56.8	53.1	47.9	45.0	48.9	47.2
Midwest	52.0	55.0	57.3	57.1	57.8	55.3	54.7	58.5	53.7	49.0	44.2	48.3	44.6
Southwest	51.2	51.9	52.7	57.1	61.0	58.8	59.5	61.6	56.3	53.6	48.1	52.1	45.1
Mountain Plains	46.0	43.7	45.7	48.0	50.2	47.8	49.8	50.9	44.2	41.0	37.3	41.5	38.7
Western	56.7	60.3	63.7	63.6	66.1	62.8	66.5	64.3	59.0	56.3	50.5	53.5	44.7
Postpartum Women													
Total	70.8	72.9	77.7	80.3	80.5	76.3	79.3	81.6	76.6	72.6	69.2	75.8	68.9
Northeast	79.0	80.6	85.5	86.3	85.3	76.6	78.1	83.2	74.6	69.7	64.6	71.0	68.4
Mid-Atlantic	73.7	75.9	85.2	90.5	83.8	79.6	84.0	83.8	77.6	73.8	65.0	73.7	67.2
Southeast	71.0	72.0	79.6	83.4	81.0	74.7	78.8	81.0	77.5	72.0	70.8	76.1	71.1
Midwest	67.6	72.2	75.7	75.6	71.6	67.8	68.9	73.2	69.2	63.7	63.1	68.0	64.6
Southwest	70.1	70.8	72.6	77.4	86.9	86.5	89.6	92.3	88.9	86.0	81.9	90.4	76.4
Mountain Plains	58.9	62.2	63.4	66.0	63.5	64.4	65.6	71.8	64.8	58.8	55.6	62.8	59.5
Western	72.9	75.2	80.1	81.5	84.5	78.7	82.8	81.6	76.8	75.6	71.9	78.3	68.2

Note
Estimates for 2016 should be interpreted with caution given the single-year anomaly that resulted from the small sample sizes in the CPS-ASEC data. See chapter 3 of volume I for more information.

Table F.6. WIC Eligibility, Participants, and Coverage Rates by Participant Category and by Race and Ethnicity: CY 2017

Participant Category	White-Only Non-Hispanic	Black-Only Non-Hispanic	Other Non-Hispanic	Hispanic	All Races
Number Eligible					
Infants	859,604	342,802	221,035	798,819	2,222,259
Children aged 1–4	3,300,038	1,616,097	898,459	3,023,851	8,838,444
Pregnant women	557,816	224,876	143,912	521,824	1,448,428
Postpartum women	586,230	225,546	152,407	564,940	1,529,122
Total	5,303,688	2,409,321	1,415,812	4,909,433	14,038,254
Number Participating					
Infants	549,650	383,071	158,979	672,064	1,763,764
Children aged 1–4	1,041,946	684,719	336,241	1,628,069	3,690,976
Pregnant women	230,443	129,619	46,258	250,460	656,780
Postpartum women	346,258	217,752	77,050	412,612	1,053,671
Total	2,168,297	1,415,160	618,528	2,963,205	7,165,190
Coverage Rate					
Infants	63.9	100.0	71.9	84.1	79.4
Children aged 1–4	31.6	42.4	37.4	53.8	41.8
Pregnant women	41.3	57.6	32.1	48.0	45.3
Postpartum women	59.1	96.5	50.6	73.0	68.9
Total	40.9	58.7	43.7	60.4	51.0

Notes

Estimates for U.S. territories other than Puerto Rico are not included in totals because the IDB data did not include information on race and ethnicity.

Estimates for Puerto Rico are included in totals.

The estimated coverage rate exceeds 100 percent for Black-Only Non-Hispanic infants. This is likely a result of sampling variability in the CPS-ASEC survey data used to estimate the number of infants eligible for WIC (denominator of the rate). The lower-bound range of the 95-percent confidence intervals surrounding the rate is below 100 percent. See chapter 6 in volume I for more information on measures of statistical uncertainty for the eligibility estimates.

Sources: IPUMS-USA, n.d.; NBER, n.d.b; Thorn et al., 2018; unpublished internal WIC administrative data

Table F.7. State-Level WIC Coverage Rates by Race and Ethnicity: CY 2017

State	All Races	White-Only Non-Hispanic	Black-Only and Other Non-Hispanic ^a	Hispanic
Alabama	52.6	43.0	57.9	81.7
Alaska	39.0	28.0	48.6	41.3
Arizona	45.9	38.1	50.5	48.1
Arkansas	48.7	49.6	46.3	50.0
California	61.1	35.0	58.0	68.1
Colorado	40.7	31.2	40.2	50.0
Connecticut	48.6	31.9	53.1	59.1
Delaware	43.4	34.7	46.2	51.1
District of Columbia	45.7	16.5	44.3	58.2
Florida	50.9	38.8	56.3	56.9
Georgia	46.5	41.9	49.6	46.4
Hawaii	43.1	36.3	45.6	39.5
Idaho	41.8	38.0	51.3	48.7
Illinois	41.8	33.5	41.8	51.9
Indiana	48.3	42.6	55.9	62.4
Iowa	50.8	45.9	50.1	74.6
Kansas	41.2	36.5	41.3	49.8
Kentucky	49.3	51.4	41.8	51.4
Louisiana	46.9	42.1	49.4	53.4
Maine	50.2	52.2	48.5	29.9
Maryland	64.3	47.0	69.4	70.7
Massachusetts	55.5	47.2	53.5	65.8
Michigan	53.4	46.0	63.4	65.2
Minnesota	58.8	45.2	72.4	77.0
Mississippi	54.7	49.7	57.0	61.8
Missouri	46.2	45.6	46.3	50.9
Montana	35.6	32.2	48.5	29.9
Nebraska	49.2	40.1	48.7	66.7
Nevada	48.3	49.4	43.9	50.1
New Hampshire	36.7	35.2	40.9	43.0
New Jersey	52.9	36.8	51.2	65.0
New Mexico	42.1	30.4	34.0	47.7
New York	53.9	41.9	63.4	57.7
North Carolina	51.3	45.1	50.7	62.0
North Dakota	51.4	37.8	74.5	63.5
Ohio	46.8	42.7	55.9	43.1
Oklahoma	48.9	42.8	53.1	55.0
Oregon	52.4	50.6	42.9	59.7
Pennsylvania	48.4	41.1	55.9	58.6

State	All Races	White-Only Non-Hispanic	Black-Only and Other Non-Hispanic ^a	Hispanic
Rhode Island	58.2	54.2	67.4	57.2
South Carolina	43.2	38.0	47.5	44.9
South Dakota	47.2	34.8	73.3	35.4
Tennessee	42.9	41.5	43.1	48.4
Texas	52.7	34.1	50.4	59.1
Utah	38.1	32.3	31.3	54.1
Vermont	51.3	50.3	64.7	39.8
Virginia	42.2	36.6	43.4	50.4
Washington	49.3	37.8	51.4	67.4
West Virginia	48.7	47.9	50.7	71.1
Wisconsin	49.2	38.1	63.4	60.9
Wyoming	42.6	37.3	45.0	65.1
Total	51.0	40.9	53.2	60.4

Notes

^a The Black-Only Non-Hispanic and Other Non-Hispanic categories were combined because of sample size concerns.

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 totals because the IDB data did not include information on race and ethnicity.

Sources: IPUMS-USA, n.d.; NBER, n.d.b; Thorn et al., 2018; unpublished internal WIC administrative data

Table F.8. WIC Eligibility, Participants, and Coverage Rates by FNS Region and Participant Category: CY 2017

FNS Region	Infants	Children Aged 1-4	Pregnant Women	Postpartum Women	Total
Number Eligible					
Northeast	195,412	767,502	127,332	137,313	1,227,558
Mid-Atlantic	239,600	991,365	156,193	164,624	1,551,782
Southeast	470,069	1,910,663	306,490	312,548	2,999,772
Midwest	319,036	1,319,286	207,727	213,145	2,059,194
Southwest	369,969	1,406,725	241,338	253,095	2,271,127
Mountain Plains	167,976	670,005	109,322	116,275	1,063,577
Western	465,904	1,793,454	303,742	336,038	2,899,138
Total	2,227,965	8,859,001	1,452,144	1,533,038	14,072,148
Number Participating					
Northeast	151,551	350,419	57,132	93,859	652,961
Mid-Atlantic	198,603	442,318	77,066	110,627	828,615
Southeast	381,247	722,830	144,636	222,066	1,470,778
Midwest	269,866	497,899	92,546	137,704	998,015
Southwest	296,378	556,276	108,789	193,338	1,154,780
Mountain Plains	116,081	238,193	42,343	69,229	465,845
Western	353,889	894,257	135,620	229,318	1,613,084
Total	1,767,615	3,702,190	658,131	1,056,141	7,184,078
Coverage Rate					
Northeast	77.6	45.7	44.9	68.4	53.2
Mid-Atlantic	82.9	44.6	49.3	67.2	53.4
Southeast	81.1	37.8	47.2	71.1	49.0
Midwest	84.6	37.7	44.6	64.6	48.5
Southwest	80.1	39.5	45.1	76.4	50.8
Mountain Plains	69.1	35.6	38.7	59.5	43.8
Western	76.0	49.9	44.7	68.2	55.6
Total	79.3	41.8	45.3	68.9	51.1

Sources: IPUMS-USA, n.d.; NBER, n.d.b; U.S. Census Bureau, n.d.c; unpublished internal WIC administrative data