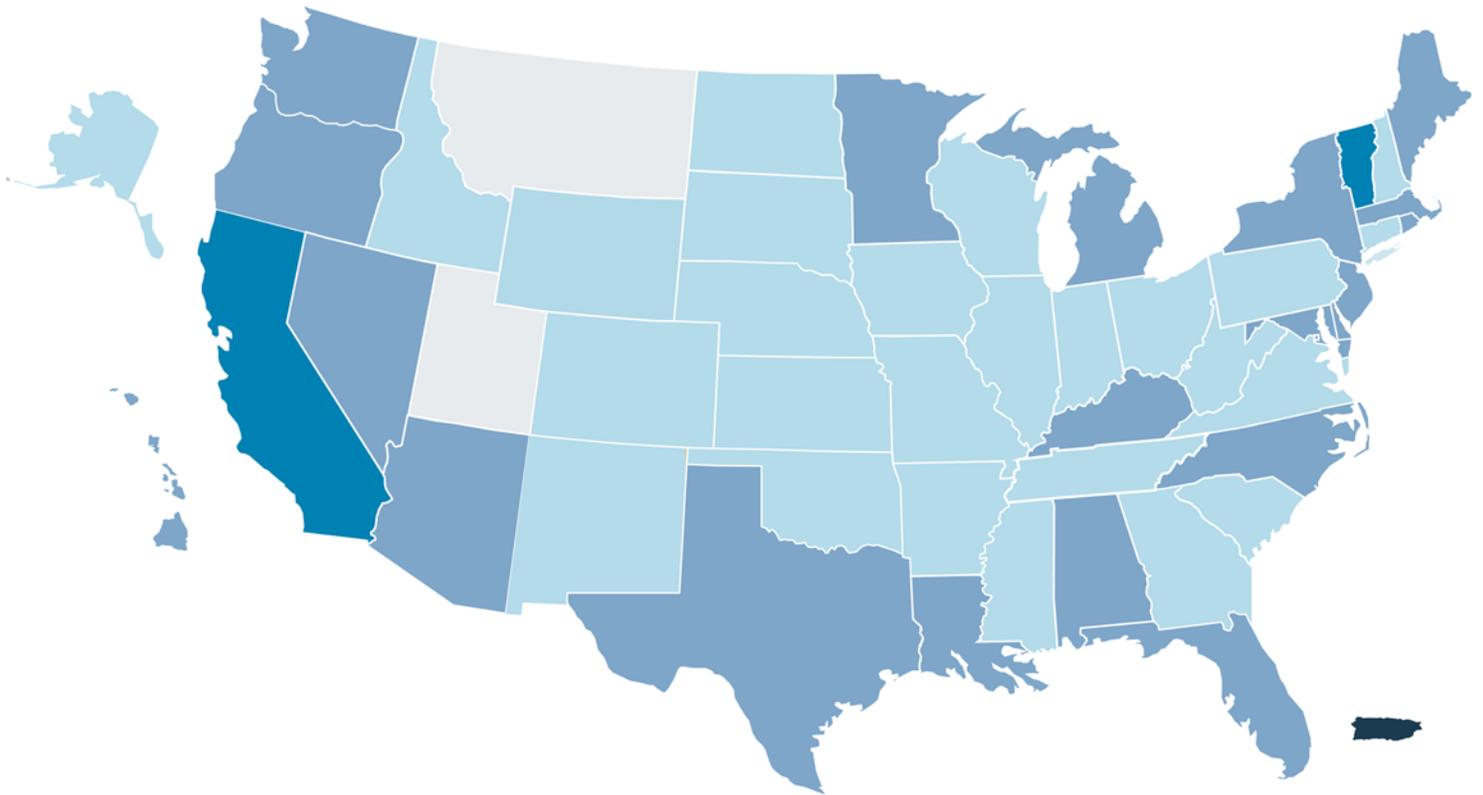




U.S. Department of Agriculture

Volume II

National- and State-Level Estimates of WIC Eligibles and WIC Program Reach in 2015



February 2018



Nutrition Assistance Program Report Series, Food and Nutrition Service,
Office of Policy Support

Appendices: National- and State-Level Estimates of WIC Eligibles and WIC Program Reach in 2015 Final Report: Volume II

Contract: GS-10F-0136X
Order: AG-3198-D-16-0095



February 2018

Authors

Carole Trippe and Chrystine Tadler (Insight Policy Research)
Paul Johnson and Linda Giannarelli (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

Acknowledgements

The authors gratefully acknowledge the guidance provided by numerous individuals at the Food and Nutrition Service (FNS) and other organizations. Grant Lovellette, the FNS Project Officer, provided leadership and guidance throughout the project. We also thank FNS and WIC staff who provided insight and review over the course of the project. Staff members of the Centers for Disease Control and Prevention (CDC) supplied tabulations of national- and State-level breastfeeding rates from the National Immunization Survey; we owe particular thanks to CDC staff member Jian Chen.

Many Insight colleagues also made key contributions to this report. In particular, we thank Jordan Stangle, whose work preparing and reviewing figures and tables was invaluable. We also thank Betsy Thorn for her careful review and comments on the report. Dar Haddix edited the report, and Kim Kerson provided graphics and final production.

USDA is an equal opportunity provider, employer, and lender.

Contents

Appendix A. Detailed Tables for National WIC Estimates: CY 2015.....	A-1
Table A.1. Steps, Data Sources, Methods, and Adjustment Factors Used for 2015 Estimates of WIC Eligibility.....	A-4
Table A.2. Estimated Average Monthly Number of WIC-Eligible Individuals by Participant Category: CY 2015	A-7
Table A.3a. Four-Year Accumulations of U.S. Census Bureau Estimates and CPS Estimates by Single-Year Age Groups, Race, and Gender: March 2013–March 2016	A-8
Table A.3b. U.S. Census Bureau Estimates and CPS Estimates by Single-Year Age Groups, Race, and Gender: CY 2015.....	A-11
Table A.3c. Effects of Applying Population Adjustment Factors on Population Counts in the 2016 CPS-ASEC by Race and Gender	A-14
Table A.4. 2015 Breastfeeding Adjustment Factor Calculations for WIC-Eligible Postpartum Women: 2005–2015	A-17
Table A.5. Step-by-Step Adjustments Applied to CPS-ASEC Data To Derive the Average Monthly Number of WIC-Eligible Individuals by Participant Category: CY 2015	A-19
Table A.6a1. Estimated Average Monthly Numbers of Infants, Children by Age, and Infants and Children Eligible for WIC (Percentages) by Demographic and Income Characteristics and Adjunctive Eligibility: CY 2015 (Unadjusted Weights, Counts)	A-21
Table A.6a1 (continued). Estimated Average Monthly Numbers of Infants, Children by Age, and Infants and Children Eligible for WIC (Percentages) by Demographic and Income Characteristics and Adjunctive Eligibility: CY 2015 (Unadjusted Weights, Counts)	A-23
Table A.6a2. Estimated Average Monthly Numbers of WIC-Eligible Infants and Children (Aged 1–4) by Income and Adjunctive Eligibility in the 2016 CPS-ASEC by Demographic Characteristics: CY 2015 (Unadjusted Weights, Percentages)	A-25
Table A.6a2 (continued). Estimated Average Monthly Numbers of WIC-Eligible Infants and Children (Aged 1–4) by Income and Adjunctive Eligibility in the 2016 CPS-ASEC by Demographic Characteristics: CY 2015 (Unadjusted Weights, Percentages).....	A-27
Table A.6b1. Estimated Average Monthly Numbers of Infants and Children (Aged 1–4) Eligible for WIC by Income and Adjunctive Eligibility in the 2016 CPS-ASEC by Demographic Characteristics: CY 2015 (Fully Adjusted Weights, Counts).....	A-29
Table A.6b1 (continued). Estimated Average Monthly Numbers of Infants and Children (Aged 1–4) Eligible for WIC by Income and Adjunctive Eligibility in the 2016 CPS-ASEC by Demographic Characteristics: CY 2015 (Fully Adjusted Weights, Counts)	A-31
Table A.6b2. Estimated Average Monthly Numbers of Infants and Children (Aged 1–4) Eligible for WIC by Income and Adjunctive Eligibility in the 2016 CPS-ASEC by Demographic Characteristics: CY 2015 (Fully Adjusted Weights, Percentages)	A-33
Table A.6b2 (continued). Estimated Average Monthly Numbers of Infants and Children (Aged 1–4) Eligible for WIC by Income and Adjunctive Eligibility in the 2016 CPS-ASEC by Demographic Characteristics: CY 2015 (Fully Adjusted Weights, Percentages).....	A-35
Table A.7. Changes in the Total Population, Total WIC Eligibles, and WIC Eligibility Rates by Participant Category: CY 2014–CY 2015	A-37

Table A.8. Stepwise Comparison of the Changes in Average Monthly Numbers of WIC-Eligible Infants and Children (Aged 1–4) as Estimated by the March CPS: CY 2014–CY 2015.....	A-38
Table A.9. 2015 Standard Error and Coefficient of Variation for National Estimates From the 2016 CPS-ASEC by Participant Group	A-39
Appendix B. Detailed Tables for State and Regional WIC Estimates: CY 2015	B-1
FNS Regions and States Within Each Region.....	B-1
Table B.1. WIC Eligibles and Coverage Rates by State and FNS Region: CY 2015	B-3
Table B.2. WIC Eligibles and Coverage Rates by FNS Region and States in Each Region: CY 2015	B-5
Table B.3. WIC Eligibles, Participants, and Coverage Rates by FNS Region and Participant Group: CY 2015	B-7
Table B.4. WIC Eligibles Standard Errors by State and FNS Region: CY 2015.....	B-8
Table B.5. WIC Eligibles Standard Errors by FNS Region and State: CY 2015.....	B-10
Table B.6. Standard Errors for WIC Eligibles by FNS Region and Participant Category: CY 2015.....	B-12
Table B.7a. Adjustments for Calculating the Average Monthly Number of WIC-Eligible Individuals in Puerto Rico by Participant Group: CY 2015	B-13
Table B.7b. Adjustments for Calculating the Average Monthly Number of WIC-Eligible Individuals in the Other U.S. Territories by Participant Group: CY 2015	B-14
Table B.8a. Regional Estimates of the Average Monthly Numbers of WIC-Eligible Infants and Children (Aged 1–4) by Demographic and Income Characteristics: CY 2015 (Fully Adjusted Weights, Percentages) ...	B-15
Table B.8a (continued). Regional Estimates of the Average Monthly Numbers of WIC-Eligible Infants and Children (Aged 1–4) by Demographic and Income Characteristics: CY 2015 (Fully Adjusted Weights, Percentages).....	B-17
Table B.9. Coverage Rates by State: CY 2005–CY 2015	B-19
Table B.10. WIC Coverage Rates (Percentages) by State and Participant Category With Margins of Error for 90-Percent Confidence Intervals: CY 2015	B-21
Table B.11. State-Level WIC Coverage Rates (Percentages) by Race and Ethnicity With Margins of Error for 90-Percent Confidence Intervals: CY 2015	B-24
Appendix C. Coverage Rate Maps.....	C-1
Figure C.1. WIC Coverage Rate for Total Eligible Individuals by FNS Region: CY 2015.....	C-2
Figure C.2. WIC Coverage Rate for Infants by FNS Region: CY 2015	C-3
Figure C.3. WIC Coverage Rate for Children (Aged 1–4) by FNS Region: CY 2015	C-4
Figure C.4. WIC Coverage Rate for Pregnant Women by FNS Region: CY 2015.....	C-5
Figure C.5. WIC Coverage Rate for Postpartum Women by FNS Region: CY 2015.....	C-6
Figure C.6. WIC Coverage Rate for Total Eligible Individuals by State: CY 2015	C-7
Figure C.7. WIC Coverage Rate for Infants by State: CY 2015.....	C-8
Figure C.9. WIC Coverage Rate for Pregnant Women by State: CY 2015	C-10
Figure C.10. WIC Coverage Rate for Postpartum Women by State: CY 2015	C-11
Figure C.11. WIC Coverage Rates for White-Only Non-Hispanic Individuals by State: CY 2015	C-12
Figure C.12. WIC Coverage Rates for Black-Only and Other Non-Hispanic Individuals by State: CY 2015	C-13

Figure C.13. WIC Coverage Rates for Hispanic Individuals by State: CY 2015.....	C-14
Appendix D. Method for Calculating the Annual-to-Monthly Adjustment Factors Applied to Children for CY 2015.....	D-1
Procedures for the 2015 Estimates	D-1
Table D.1. Annual-to-Monthly Adjustment Factors Based on Month of Adoption of 12-Month Certification.....	D-2
Table D.2. State-Level Annual-to-Monthly Adjustment Factors Used for the 2015 Estimates of WIC-Eligible Children	D-3
Table D.3. Calculation of the National-Level Annual-to-Monthly Adjustment Factor Used for the National 2015 Estimates of WIC-Eligible Children.....	D-5
Appendix E. Effects of New Data Source for State-Level Breastfeeding Rates on Postpartum Eligibility Estimates	E-1
Table E.1a. Comparison of WIC Eligibles by State for Postpartum Women Using State Breastfeeding Rates From IFS Data Versus CDC NIS Data: CY 2015	E-3
Table E.1b. Comparison of WIC Coverage Rates by State for Postpartum Women Using State Breastfeeding Rates From IFS Data Versus CDC NIS Data: CY 2015	E-5
Appendix F. Data for Figures in Volumes I and II.....	F-1
Table F.1. Trends in WIC Eligibility by Participant Category: CY 2005–CY 2015.....	F-2
Table F.2. Regional-Level WIC Eligibility by Participant Category: CY 2005–CY 2015	F-3
Table F.3. WIC Coverage Rates by State and Participant Category: CY 2015.....	F-5
Table F.4. WIC Coverage Rates by Participant Category: CY 2005–2015.....	F-7
Table F.5. Coverage Rates by Region and Participant Group: CY 2005–2015.....	F-8
Table F.6. WIC Eligibles, Participants, and Coverage Rates by Participant Category and by Race and Ethnicity: CY 2015	F-10
Table F.7. State-Level WIC Coverage Rates (Percentages) by Race and Ethnicity	F-11
Table F.8. WIC Eligibles, Participants, and Coverage Rates by Region and Participant Category: CY 2015.....	F-13

Appendix A. Detailed Tables for National WIC Estimates: CY 2015

The tables in appendix A present detailed information on the 2015 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. Some of the tables include the same information as in volume I; they are repeated here to provide a comprehensive record of all methods and estimates for 2015. Note that except where specified, all of 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, and Methods and Adjustment Factors Used for 2015 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.

Table A.2. Estimated Average Monthly Number of WIC-Eligible Individuals by Participant Category: CY 2015

This table shows the estimated average monthly number of WIC-eligible individuals by participant category in calendar year (CY) 2015 and each group as a percentage of the total number of eligibles. 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 Estimates by Single-Year Age Groups, Race, and Gender: March 2013–March 2016

This table provides more detail on the adjustment of sampling weights for infants and children in the Current Population Survey Annual Social and Economic Supplement (CPS-ASEC) data (as referenced in the second row of table A.1; NBER, n.d.). For each year of age (ages 0, 1, 2, 3, and 4) and each of four racial/ethnic 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, the 4-year accumulation of the March CPS (U.S. Census Bureau, n.d.a.; NBER, n.d.) total weighted population, and the ratio of those two figures. That ratio was used as the weight adjustment when the direction of the difference between the March 2016 Census Bureau population estimate and 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 higher or lower in both cases). If the direction of the difference was not the same for a particular group, no weight adjustment was performed (i.e., the weight adjustment factor was 1.0).

Table A.3b. U.S. Census Bureau Estimates and CPS Estimates by Single-Year Age Groups, Race, and Gender: March 2016

This table shows the Census Bureau population estimates and CPS weighted population figures by single-year age groups, race, and gender, and the ratio of U.S. Census Bureau estimates to CPS figures, for March 2016 (U.S. Census Bureau, n.d.a.; NBER, n.d.; 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 on Population Counts in the 2016 CPS-ASEC by 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 of infants and children in the March CPS data.

Table A.4. Breastfeeding Adjustment Factor Calculations for WIC-Eligible Postpartum Women: 2005–2015

This table shows information on the computation of postpartum eligibility for breastfeeding and nonbreastfeeding mothers. The first three sections of the table show three breastfeeding rates from the NIS—the percentage of new mothers breastfeeding their infants in the hospital after giving birth (ever-breastfed), at 6 months postpartum, and at 12 months postpartum—with variations by race and ethnicity.

The next section shows three adjustment factors. The first factor adjusted for the fact that the number of mothers was slightly below the number of infants because of the combined impact of multiple births and infant deaths; it was constant across the period. 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 and 2015. 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 lower portion of the table shows the final postpartum adjustment factors produced using the information in the earlier portion of the table. For each year, the factors are shown for estimating breastfeeding and nonbreastfeeding eligibility for each racial/ethnic group. For example, for Hispanic women in 2015, the estimated average monthly number of women eligible for WIC as breastfeeding mothers was computed as 0.438 times the estimated number of WIC-eligible Hispanic infants.

Table A.5. Step-by-Step Adjustments Applied to CPS-ASEC Data To Derive the Average Monthly Number of WIC-Eligible Individuals by Participant Category: CY 2015

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 are fully eligible for WIC in the United States; it also shows the total number eligible in Puerto Rico and the other U.S. territories. See tables B.7a and B.7b for the step-by-step adjustments made to derive the total number of WIC eligibles in Puerto Rico and the other territories, respectively.

Tables A.6a and A.6b. Estimated Average Monthly Numbers of WIC-Eligible Infants and Children (Aged 1–4) by Income and Adjunctive Eligibility in the 2016 CPS-ASEC by Demographic Characteristics: CY 2015

These two tables show the estimates of WIC-eligible infants and children (total and by year of age) by demographic and income characteristics in the March CPS. Note that these tables do not include infants and children from the U.S. territories. Tables A.6a1 and A.6a2 show the characteristics of WIC-eligible infants and children in the March CPS using unadjusted person weights, and tables A.6b1 and A.6b2 show 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. A comparison of table A.6a and table A.6b shows the impact of the CPS weight adjustments on the national estimates of WIC-eligible infants and children.

Results are also shown in terms of counts (see tables A.6a1 and A.6b1) and percentage terms (see tables A.6a2 and A.6b2). For example, A.6b1 shows that with the adjusted weights, 1.226 million male infants and 1.243 female infants were eligible for WIC in March 2016; A.6b2 shows that among WIC-eligible infants, 49.7 percent were male and 50.3 percent were female.

Table A.7. Changes in the Total Population, Total WIC Eligibles, and WIC Eligibility Rates by Participant Category, CY 2014–CY 2015

This table shows the change in the number of individuals in the total population and the WIC-eligible population by participant category, and the WIC eligibility rate between 2014 and 2015.

Table A.8. Stepwise Comparison of the Changes in Average Monthly Numbers of WIC-Eligible Infants and Children (Aged 1–4) as Estimated by the March CPS: CY 2014–CY 2015

This table shows the step-by-step percentage change in the number of infants and children from CY 2014 to CY 2015 (excluding the U.S. territories). For example, it shows that the number of infants and children eligible for WIC through adjunctive eligibility increased by 5.7 percent between CY 2014 and CY 2015.

Table A.9. Standard Error and Coefficient of Variation for National Estimates From the 2016 CPS-ASEC by Participant Group

This table presents the standard errors of the estimates and coefficients of variance for the national estimates for the total population and the number eligible for WIC by participant category.

Table A.1. Steps, Data Sources, Methods, and Adjustment Factors Used for 2015 Estimates of WIC Eligibility

Step	Data Sources	Methods and Adjustment Factors	
Infants and Children			
Demographic eligibility	<ul style="list-style-type: none"> ● 2016 CPS-ASEC (National estimates) ● 2015 ACS (State estimates) ● 2015 PRCS (Puerto Rico estimates) ● 2015 IDB (Other U.S. territories estimates) 	Identify individuals aged 0, 1, 2, 3, or 4 in the survey.	
Weight adjustment	<ul style="list-style-type: none"> ● National estimates <ul style="list-style-type: none"> – 2015 “vintage” postcensal population estimates from the U.S. Census Bureau; March CPS-ASEC data for 2013, 2014, 2015, and 2016 ● State and Puerto Rico estimates <ul style="list-style-type: none"> – 2015 “vintage” postcensal population estimates from the U.S. Census Bureau for July 2015 	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: 1.014 – Black-Only Non-Hispanic: 1.099 – Other Non-Hispanic: 1.073 – Hispanic: 0.999 ● Children aged 1 <ul style="list-style-type: none"> – White-Only Non-Hispanic: 1.002 – Black-Only Non-Hispanic: 0.942 – Other Non-Hispanic: 0.911 – Hispanic: 0.977 ● Children aged 2 <ul style="list-style-type: none"> – White-Only Non-Hispanic: 1.006 – Black-Only Non-Hispanic: 1.018 – Other Non-Hispanic: 0.958 – Hispanic: 1.000 ● Children aged 3 <ul style="list-style-type: none"> – White-Only Non-Hispanic: 1.007 – Black-Only Non-Hispanic: 1.000 – Other Non-Hispanic: 0.995 – Hispanic: 1.004 ● Children aged 4 <ul style="list-style-type: none"> – White-Only Non-Hispanic: 1.008 – Black-Only Non-Hispanic: 0.969 – Other Non-Hispanic: 1.000 – Hispanic: 1.023 	<ul style="list-style-type: none"> ● Infants <ul style="list-style-type: none"> – White-Only Non-Hispanic: 1.006 – Black-Only Non-Hispanic: 1.122 – Other Non-Hispanic: 1.001 – Hispanic: 0.994 ● Children aged 1 <ul style="list-style-type: none"> – White-Only Non-Hispanic: 1.001 – Black-Only Non-Hispanic: 0.868 – Other Non-Hispanic: 1.003 – Hispanic: 1.000 ● Children aged 2 <ul style="list-style-type: none"> – White-Only Non-Hispanic: 1.000 – Black-Only Non-Hispanic: 1.075 – Other Non-Hispanic: 1.016 – Hispanic: 1.000 ● Children aged 3 <ul style="list-style-type: none"> – White-Only Non-Hispanic: 1.000 – Black-Only Non-Hispanic: 1.007 – Other Non-Hispanic: 1.000 – Hispanic: 1.001 ● Children aged 4 <ul style="list-style-type: none"> – White-Only Non-Hispanic: 1.000 – Black-Only Non-Hispanic: 0.965 – Other Non-Hispanic: 0.953 – Hispanic: 1.005

Step	Data Sources	Methods and Adjustment Factors
Income eligibility	<ul style="list-style-type: none"> • 2016 CPS-ASEC (National estimates) • 2015 ACS (State estimates) • 2015 PRCS (Puerto Rico estimates) • 2015 IDB (Other U.S. territories estimates) • Blended FY 2014 and FY 2015 Federal Poverty Guidelines 	Count as eligible if prior year's annual income was \leq 185 percent of the applicable Federal Poverty Guidelines.
Adjunctive eligibility	<ul style="list-style-type: none"> • 2016 CPS-ASEC • 2015 ACS • 2015 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 (SIPP) 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. <ul style="list-style-type: none"> • Infants adjustment factors <ul style="list-style-type: none"> – White-Only Non-Hispanic: 1.20 – All others: 1.07 • Children adjustment factors <ul style="list-style-type: none"> – White-Only Non-Hispanic: 1.08 – All others: 1.03
Adjust for nutritional risk	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	Data on multiple births and infant and fetal deaths from 2004 vital statistics data; March 2004 U.S. Census Bureau estimates for count of infants	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). Adjustment factor. 0.9961
For pregnant women: Adjust for length of pregnancy and income during pregnancy	2001, 2004, and 2008 panels of SIPP 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). Adjustment factor. 0.675

Step	Data Sources	Methods and Adjustment Factors
For postpartum mothers: Adjust for breastfeeding status	CDC NIS breastfeeding rates computed for 2013 birth cohort (NIS survey years 2014 and 2015)	<ul style="list-style-type: none"> ● Breastfeeding. Multiply by factors to estimate average monthly women eligible for WIC as breastfeeding mothers (0 < 12 months postpartum). ● Nonbreastfeeding. Multiply by factors to estimate average monthly women eligible for WIC as nonbreastfeeding women < 6 months postpartum. ● Breastfeeding <ul style="list-style-type: none"> – White-Only Non-Hispanic: 0.424 – Black-Only Non-Hispanic: 0.349 – Other Non-Hispanic: 0.416 – Hispanic: 0.438 ● Nonbreastfeeding <ul style="list-style-type: none"> – White-Only Non-Hispanic: 0.246 – Black-Only Non-Hispanic: 0.284 – Other Non-Hispanic: 0.252 – Hispanic: 0.228
Adjust for nutritional risk	CNSTAT panel	<p>Multiply pregnant and postpartum women estimates by factor to account for some otherwise eligible women who might not be found to be at nutritional risk.</p> <p>Adjustment factor. 0.97</p>

Note

The data sources listed in this table are as follows, in order of mention: for 2016 CPS-ASEC data, see NBER, n.d.; for 2015 ACS and PRCS data, see IPUMS-USA, n.d.; for 2015 IDB data, see U.S. Census Bureau, n.d.d; for March 2013, 2014, 2015, 2016 CPS-ASEC data, see NBER, n.d.; for July 2015 postcensal population estimate data, see U.S. Census Bureau, n.d.b, n.d.e; for 2014 and 2015 Federal Poverty Guidelines data, see USDA FNS, 2014, 2015; for 2001, 2004, 2008 SIPP panel data, see U.S. Census Bureau, n.d.f; for CNSTAT panel data, see Ver Ploeg & Betson, 2003. CDC NIS breastfeeding rates are based on unpublished internal CDC data.

Table A.2. Estimated Average Monthly Number of WIC-Eligible Individuals by Participant Category: CY 2015

Participant Category	Number Eligible	Percent of Total Eligible	Total Population ^a	Eligibility Rate ^b (Percent)
Infants	2,506,686	16.6	3,998,800	62.7
Total children aged 1–4	9,268,848	61.5	16,142,707	57.4
Children aged 1	2,274,986	15.1	4,044,481	56.2
Children aged 2	2,321,950	15.4	4,034,206	57.6
Children aged 3	2,340,558	15.5	4,031,844	58.1
Children aged 4	2,331,355	15.5	4,032,176	57.8
Total women	3,286,968	21.8	6,970,608	47.2
Pregnant women	1,634,852	10.9	2,987,403	54.7
Total postpartum women	1,652,116	11.0	3,983,205	41.5
Breastfeeding women	1,034,333	6.9	2,147,025	48.2
Nonbreastfeeding women	617,783	4.1	1,836,179	33.6
Total	15,062,503	100.0	27,112,115	55.6

Notes

^a The total population consists of individuals in the Nation and the U.S. territories served by WIC in each participant category.

^b The eligibility rate is the ratio of total individuals eligible for WIC to the total population in each participant category.

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

Table A.3a. Four-Year Accumulations of U.S. Census Bureau Estimates and CPS Estimates by Single-Year Age Groups, Race, and Gender: March 2013–March 2016

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	3,847,037	1,072,840	817,715	1,993,136	7,730,728	4,046,013	1,109,762	859,513	2,078,799	8,094,087	7,893,050	2,182,602	1,677,228	4,071,935	15,824,815
CPS estimate	3,794,861	975,875	761,842	2,011,626	7,544,206	3,995,543	945,950	845,304	2,091,412	7,878,207	7,790,404	1,921,825	1,607,146	4,103,038	15,422,413
Ratio of Census estimate to CPS estimate	1.014	1.099	1.073	0.991	1.025	1.013	1.173	1.017	0.994	1.027	1.013	1.136	1.044	0.992	1.026
Children aged 1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
U.S. Census Bureau estimates	3,854,379	1,075,530	820,153	1,999,604	7,749,666	4,058,641	1,107,453	860,618	2,082,111	8,108,823	7,913,020	2,182,983	1,680,771	4,081,715	15,858,489
CPS estimate	3,844,992	1,141,668	900,414	2,047,357	7,934,429	4,045,643	1,318,797	858,278	2,096,378	8,319,095	7,890,635	2,460,465	1,758,692	4,143,735	16,253,524
Ratio of Census estimate to CPS estimate	1.002	0.942	0.911	0.977	0.977	1.003	0.840	1.003	0.993	0.975	1.003	0.887	0.956	0.985	0.976
Children aged 2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
U.S. Census Bureau estimates	3,862,975	1,078,224	823,008	2,018,583	7,782,790	4,068,759	1,110,659	861,791	2,098,446	8,139,655	7,931,734	2,188,883	1,684,799	4,117,029	15,922,445
CPS estimate	3,841,138	1,059,070	859,167	2,000,157	7,759,532	4,060,667	1,033,585	848,262	2,090,451	8,032,963	7,901,805	2,092,655	1,707,429	4,090,608	15,792,495
Ratio of Census estimate to CPS estimate	1.006	1.018	0.958	1.009	1.003	1.002	1.075	1.016	1.004	1.013	1.004	1.046	0.987	1.006	1.008

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	3,877,971	1,080,850	828,270	2,026,974	7,814,065	4,081,941	1,112,978	862,958	2,103,304	8,161,181	7,959,912	2,193,828	1,691,228	4,130,278	15,975,246
CPS estimate	3,852,628	1,080,267	876,275	2,018,480	7,827,651	4,061,133	1,078,865	933,064	2,100,415	8,173,477	7,913,761	2,159,132	1,809,339	4,118,895	16,001,128
Ratio of Census estimate to CPS estimate	1.007	1.001	0.945	1.004	0.998	1.005	1.032	0.925	1.001	0.998	1.006	1.016	0.935	1.003	0.998
Children aged 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
U.S. Census Bureau estimates	3,910,818	1,089,600	823,966	2,034,056	7,858,440	4,113,465	1,121,677	855,902	2,111,440	8,202,484	8,024,283	2,211,277	1,679,868	4,145,496	16,060,924
CPS estimate	3,880,291	1,149,144	836,031	1,988,309	7,853,775	4,111,653	1,172,520	898,073	2,100,463	8,282,711	7,991,944	2,321,664	1,734,104	4,088,772	16,136,486
Ratio of Census estimate to CPS estimate	1.008	0.948	0.986	1.023	1.001	1.000	0.957	0.953	1.005	0.990	1.004	0.952	0.969	1.014	0.995
Total Children aged 1-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
U.S. Census Bureau estimates	15,506,143	4,324,204	3,295,397	8,079,217	31,204,961	16,322,806	4,452,767	3,441,269	8,395,301	32,612,143	31,828,949	8,776,971	6,736,666	16,474,518	63,817,104
CPS estimate	15,419,049	4,430,149	3,471,887	8,054,303	31,375,387	16,279,096	4,603,767	3,537,677	8,387,707	32,808,246	31,698,145	9,033,916	7,009,564	16,442,010	64,183,633
Ratio of Census estimate to CPS estimate	1.006	0.976	0.949	1.003	0.995	1.003	0.967	0.973	1.001	0.994	1.004	0.972	0.961	1.002	0.994

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	19,353,180	5,397,044	4,113,112	10,072,353	38,935,689	20,368,819	5,562,529	4,300,782	10,474,100	40,706,230	39,721,999	10,959,573	8,413,894	20,546,453	79,641,919
CPS estimate	19,213,910	5,406,024	4,233,729	10,065,929	38,919,593	20,274,639	5,549,717	4,382,981	10,479,119	40,686,453	39,488,549	10,955,741	8,616,710	20,545,048	79,606,046
Ratio of Census estimate to CPS estimate	1.007	0.998	0.972	1.001	1.000	1.005	1.002	0.981	1.000	1.000	1.006	1.000	0.976	1.000	1.000

Notes
 To calculate WIC eligibles in the CPS, 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 the U.S. territories.
 “–” denotes blank cells.
 Sources: NBER, n.d.; U.S. Census Bureau, n.d.a

Table A.3b. U.S. Census Bureau Estimates and CPS Estimates by Single-Year Age Groups, Race, and Gender: CY 2015

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	961,921	267,917	210,570	502,563	1,942,971	1,007,642	280,507	220,243	526,824	2,035,216	1,969,563	548,424	430,813	1,029,387	3,978,187
CPS estimate	948,747	236,637	179,250	502,911	1,867,545	1,001,970	249,943	220,098	537,219	2,009,229	1,950,717	486,580	399,348	1,040,130	3,876,774
Ratio of Census estimate to CPS estimate	1.014	1.132	1.175	0.999	1.040	1.006	1.122	1.001	0.981	1.013	1.010	1.127	1.079	0.990	1.026
Children aged 1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
U.S. Census Bureau estimates	969,397	271,561	208,733	502,944	1,952,635	1,020,318	280,052	218,763	524,846	2,043,979	1,989,715	551,613	427,496	1,027,790	3,996,614
CPS estimate	958,927	312,706	236,381	518,645	2,026,658	1,019,376	322,808	211,054	515,339	2,068,577	1,978,303	635,514	447,435	1,033,984	4,095,235
Ratio of Census estimate to CPS estimate	1.011	0.868	0.883	0.970	0.963	1.001	0.868	1.037	1.018	0.988	1.006	0.868	0.955	0.994	0.976
Children aged 2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
U.S. Census Bureau estimates	960,330	269,109	209,223	499,808	1,938,470	1,012,095	276,942	218,955	520,989	2,028,981	1,972,425	546,051	428,178	1,020,797	3,967,451
CPS estimate	949,027	254,224	235,717	512,950	1,951,918	1,016,127	241,862	212,363	549,833	2,020,185	1,965,154	496,086	448,080	1,062,783	3,972,103
Ratio of Census estimate to CPS estimate	1.012	1.059	0.888	0.974	0.993	0.996	1.145	1.031	0.948	1.004	1.004	1.101	0.956	0.960	0.999

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	963,075	269,658	214,983	502,555	1,950,271	1,012,858	277,185	224,743	520,947	2,035,733	1,975,933	546,843	439,726	1,023,502	3,986,004
CPS estimate	951,446	300,776	216,128	493,808	1,962,158	1,013,253	275,226	220,651	508,451	2,017,581	1,964,699	576,002	436,779	1,002,259	3,979,739
Ratio of Census estimate to CPS estimate	1.012	0.897	0.995	1.018	0.994	1.000	1.007	1.019	1.025	1.009	1.006	0.949	1.007	1.021	1.002
Children aged 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
U.S. Census Bureau estimates	968,843	270,528	208,166	507,675	1,955,212	1,020,584	278,750	217,468	527,937	2,044,739	1,989,427	549,278	425,634	1,035,612	3,999,951
CPS estimate	957,707	279,288	204,952	486,602	1,928,549	1,024,893	288,848	246,534	510,082	2,070,357	1,982,600	568,136	451,486	996,684	3,998,906
Ratio of Census estimate to CPS estimate	1.012	0.969	1.016	1.043	1.014	0.996	0.965	0.882	1.035	0.988	1.003	0.967	0.943	1.039	1.000
Total children aged 1-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
U.S. Census Bureau estimates	3,861,645	1,080,856	841,105	2,012,982	7,796,588	4,065,855	1,112,929	879,929	2,094,719	8,153,432	7,927,500	2,193,785	1,721,034	4,107,701	15,950,020
CPS estimate	3,817,107	1,146,994	893,178	2,012,005	7,869,283	4,073,649	1,128,744	890,602	2,083,705	8,176,700	7,890,756	2,275,738	1,783,780	4,095,710	16,045,983
Ratio of Census estimate to CPS estimate	1.012	0.942	0.942	1.000	0.991	0.998	0.986	0.988	1.005	0.997	1.005	0.964	0.965	1.003	0.994

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	4,823,566	1,348,773	1,051,675	2,515,545	9,739,559	5,073,497	1,393,436	1,100,172	2,621,543	10,188,648	9,897,063	2,742,209	2,151,847	5,137,088	19,928,207
CPS estimate	4,765,854	1,383,631	1,072,428	2,514,916	9,736,828	5,075,619	1,378,687	1,110,700	2,620,924	10,185,929	9,841,473	2,762,318	2,183,128	5,135,840	19,922,757
Ratio of Census estimate to CPS estimate	1.012	0.975	0.981	1.000	1.000	1.000	1.011	0.991	1.000	1.000	1.006	0.993	0.986	1.000	1.000

Notes
 To calculate WIC eligibles in the CPS, 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 the U.S. territories.
 “–” denotes blank cells.
 Sources: NBER, n.d.; U.S. Census Bureau, n.d.a

Table A.3c. Effects of Applying Population Adjustment Factors on Population Counts in the 2016 CPS-ASEC by Race and Gender

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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Population adjustment factor	1.014	1.099	1.073	0.999	N/A	1.006	1.122	1.001	0.994	N/A	N/A	N/A	N/A	N/A	N/A
Revised CPS estimate	961,745	260,158	192,389	502,559	1,916,852	1,007,681	280,511	220,252	533,996	2,042,439	1,969,426	540,669	412,641	1,036,555	3,959,291
Original CPS estimate	948,747	236,637	179,250	502,911	1,867,545	1,001,970	249,943	220,098	537,219	2,009,229	1,950,717	486,579	399,348	1,040,130	3,876,774
Percent relative change	1.4%	9.9%	7.3%	-0.1%	2.6%	0.6%	12.2%	0.1%	-0.6%	1.7%	1.0%	11.1%	3.3%	-0.3%	2.1%
Children aged 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Population adjustment factor	1.002	0.942	0.911	0.977	N/A	1.001	0.868	1.003	1.000	N/A	N/A	N/A	N/A	N/A	N/A
Revised CPS estimate	961,228	294,600	215,319	506,560	1,977,708	1,020,294	280,036	211,623	515,339	2,027,292	1,981,522	574,636	426,943	1,021,899	4,005,000
Original CPS estimate	958,927	312,706	236,381	518,645	2,026,658	1,019,376	322,808	211,054	515,339	2,068,577	1,978,303	635,513	447,434	1,033,983	4,095,235
Percent relative change	0.2%	-5.8%	-8.9%	-2.3%	-2.4%	0.1%	-13.3%	0.3%	0.0%	-2.0%	0.2%	-9.6%	-4.6%	-1.2%	-2.2%
Children aged 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Population adjustment factor	1.006	1.018	0.958	1.000	N/A	1.000	1.075	1.016	1.000	N/A	N/A	N/A	N/A	N/A	N/A
Revised CPS estimate	954,436	258,826	225,793	512,950	1,952,005	1,016,127	259,905	215,740	549,833	2,041,605	1,970,564	518,731	441,533	1,062,783	3,993,610
Original CPS estimate	949,027	254,224	235,717	512,950	1,951,918	1,016,127	241,862	212,363	549,833	2,020,185	1,965,154	496,086	448,080	1,062,783	3,972,103
Percent relative change	0.6%	1.8%	-4.2%	0.0%	0.0%	0.0%	7.5%	1.6%	0.0%	1.1%	0.3%	4.6%	-1.5%	0.0%	0.5%

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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Population adjustment factor	1.007	1.000	0.995	1.004	N/A	1.000	1.007	1.000	1.001	N/A	N/A	N/A	N/A	N/A	N/A
Revised CPS estimate	957,726	300,776	214,983	495,882	1,969,366	1,013,253	277,180	220,651	509,163	2,020,247	1,970,979	577,955	435,633	1,005,045	3,989,613
Original CPS estimate	951,446	300,776	216,128	493,808	1,962,158	1,013,253	275,226	220,651	508,451	2,017,581	1,964,700	576,001	436,779	1,002,259	3,979,739
Percent relative change	0.7%	0.0%	-0.5%	0.4%	0.4%	0.0%	0.7%	0.0%	0.1%	0.1%	0.3%	0.3%	-0.3%	0.3%	0.2%
Children aged 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Population adjustment factor	1.008	0.969	1.000	1.023	N/A	1.000	0.965	0.953	1.005	N/A	N/A	N/A	N/A	N/A	N/A
Revised CPS estimate	965,273	270,518	204,952	497,794	1,938,537	1,024,893	278,738	234,947	512,735	2,051,313	1,990,166	549,256	439,899	1,010,529	3,989,850
Original CPS estimate	957,707	279,288	204,952	486,602	1,928,549	1,024,893	288,848	246,534	510,082	2,070,357	1,982,600	568,136	451,486	996,684	3,998,906
Percent relative change	0.8%	-3.1%	0.0%	2.3%	0.5%	0.0%	-3.5%	-4.7%	0.5%	-0.9%	0.4%	-3.3%	-2.6%	1.4%	-0.2%
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	3,838,664	1,124,719	861,047	2,013,186	7,837,616	4,074,568	1,095,859	882,961	2,087,069	8,140,456	7,913,232	2,220,578	1,744,008	4,100,255	15,978,073
Original CPS estimate	3,817,107	1,146,993	893,178	2,012,005	7,869,283	4,073,650	1,128,744	890,601	2,083,705	8,176,700	7,890,758	2,275,737	1,783,779	4,095,710	16,045,983
Percent relative change	0.6%	-1.9%	-3.6%	0.1%	-0.4%	0.0%	-2.9%	-0.9%	0.2%	-0.4%	0.3%	-2.4%	-2.2%	0.1%	-0.4%

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)	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
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	4,800,409	1,384,878	1,053,436	2,515,745	9,754,468	5,082,249	1,376,369	1,103,213	2,621,065	10,182,896	9,882,657	2,761,247	2,156,649	5,136,810	19,937,363
Original CPS estimate	4,765,855	1,383,630	1,072,428	2,514,916	9,736,828	5,075,620	1,378,686	1,110,699	2,620,924	10,185,929	9,841,475	2,762,316	2,183,127	5,135,840	19,922,757
Percent relative change	0.7%	0.1%	-1.8%	0.0%	0.2%	0.1%	-0.2%	-0.7%	0.0%	0.0%	0.4%	0.0%	-1.2%	0.0%	0.1%

Notes
 To calculate WIC eligibles in the CPS, 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 the U.S. territories.
 “–” denotes blank cells.
 Sources: NBER, n.d.; U.S. Census Bureau, n.d.a

Table A.4. 2015 Breastfeeding Adjustment Factor Calculations for WIC-Eligible Postpartum Women: 2005–2015

Adjustments	Breastfeeding Rates Among WIC-Eligible Postpartum Women by Race and Ethnicity										
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
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
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
Other Non-Hispanic	0.633	0.663	0.678	0.709	0.657	0.674	0.694	0.698	0.689	0.660	0.818
Hispanic	0.801	0.804	0.804	0.816	0.796	0.785	0.791	0.778	0.832	0.810	0.716
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
Black-Only Non-Hispanic	0.204	0.213	0.240	0.221	0.229	0.238	0.304	0.324	0.297	0.311	.0358
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
Hispanic	0.400	0.441	0.474	0.472	0.439	0.443	0.458	0.458	0.460	0.487	0.414
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
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
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
Hispanic	0.216	0.234	0.256	0.270	0.241	0.272	0.251	0.255	0.241	0.256	0.246
Other Adjustment Factors											
Multiple births/infant deaths	0.996	0.996	0.996	0.996	0.996	0.996	0.996	0.996	0.996	0.996	0.996
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
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
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
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
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
Hispanic	0.406	0.431	0.452	0.458	0.433	0.441	0.445	0.445	0.455	0.468	0.438

Breastfeeding Rates Among WIC-Eligible Postpartum Women by Race and Ethnicity

Adjustments	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Nonbreastfeeding 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
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
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
Hispanic	0.239	0.229	0.222	0.220	0.232	0.233	0.228	0.231	0.219	0.218	0.228

Notes
 “-” denotes blank cells.
 Sources: Unpublished internal CDC data

Table A.5. Step-by-Step Adjustments Applied to CPS-ASEC Data To Derive the Average Monthly Number of WIC-Eligible Individuals by Participant Category: CY 2015

Step	Infants	Children Aged 1	Children Aged 2	Children Aged 3	Children Aged 4	Total Children Aged 1-4	Pregnant Women	Postpartum Breastfeeding Women	Postpartum Nonbreastfeeding Women	Total
Total number of infants/ children in CPS-ASEC data	3,876,774	4,095,235	3,972,103	3,979,739	3,998,906	16,045,983	–	–	–	19,922,757
Number after adjustment for CPS undercount/overcount	3,959,291	4,005,000	3,993,610	3,989,613	3,989,850	15,978,073	–	–	–	19,937,364
Number with annual income ≤ 185 percent of the Federal Poverty Guidelines ^a	1,654,704	1,558,345	1,539,215	1,617,637	1,600,639	6,315,836	–	–	–	7,970,540
Number adjunctively eligible and with annual income > 185 percent of the Federal Poverty Guidelines	621,483	600,284	664,258	603,704	610,161	2,478,408	–	–	–	3,099,891
Through Medicaid	504,382	460,457	501,861	435,605	470,697	1,868,619	–	–	–	2,373,001
Through SNAP	110,205	137,327	157,209	166,246	139,261	600,043	–	–	–	710,248
Through TANF	6,897	2,501	5,188	1,852	203	9,745	–	–	–	16,642
Total number income and adjunctively eligible	2,276,187	2,158,629	2,203,473	2,221,341	2,210,800	8,794,243	–	–	–	11,070,431
Number after adjustment for monthly income and certification periods	2,545,826	2,263,820	2,310,980	2,330,240	2,319,571	9,224,611	–	–	–	11,770,437
Total number eligible: Number after adjustment for nutritional risk (infants and children)	2,469,451	2,241,182	2,287,870	2,306,938	2,296,376	9,132,365	–	–	–	11,601,816
Starting point for estimates of women is number of fully eligible infants	–	–	–	–	–	–	2,469,451	2,469,451	2,469,451	7,408,353
Number after adjustment for length of pregnancy and income of woman during pregnancy	–	–	–	–	–	–	1,666,879	–	–	1,666,879

Step	Infants	Children Aged 1	Children Aged 2	Children Aged 3	Children Aged 4	Total Children Aged 1-4	Pregnant Women	Postpartum Breastfeeding Women	Postpartum Nonbreastfeeding Women	Total
Number after adjustment for multiple births and infant deaths	–	–	–	–	–	–	1,660,379	2,459,820	2,459,820	6,580,019
Number after adjustment for breastfeeding	–	–	–	–	–	–	–	1,018,940	608,622	1,627,562
Total number eligible: Number after adjustment for nutritional risk (pregnant and postpartum women)	–	–	–	–	–	–	1,610,567	1,018,940	608,622	3,238,130
Total number eligible in the Nation, excluding U.S. territories served by WIC	2,469,451	2,241,182	2,287,870	2,306,938	2,296,376	9,132,365	1,610,567	1,018,940	608,622	14,839,946
Total number eligible in all U.S. territories served by WIC ^b	37,235	33,804	34,080	33,620	34,979	136,483	24,285	15,392	9,161	222,557
Total number eligible for the Nation, including U.S. territories served by WIC	2,506,686	2,274,986	2,321,950	2,340,558	2,331,355	9,268,848	1,634,852	1,034,333	617,783	15,062,503

Notes

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

^b See appendix B for the derivation of WIC eligibles in Puerto Rico and the other U.S. territories.

“–” denotes blank cells.

Sources: IPUMS-USA, n.d.; NBER, n.d.; Thorn et al., 2015; U.S. Census Bureau, n.d.d

Table A.6a1. Estimated Average Monthly Numbers of Infants, Children by Age, and Infants and Children Eligible for WIC (Percentages) by Demographic and Income Characteristics and Adjunctive Eligibility: CY 2015 (Unadjusted Weights, Counts)

Characteristics	WIC-Eligible Infants			WIC-Eligible Children Aged 1			WIC-Eligible Children Aged 2		
	Family Income < 185% FPG ^a	Adjunctively Eligible ^b	Total	Family Income < 185% FPG ^a	Adjunctively Eligible ^b	Total	Family Income < 185% FPG ^a	Adjunctively Eligible ^b	Total
Total	1,611,030	608,816	2,219,847	1,608,009	612,604	2,220,613	1,526,722	660,360	2,187,082
Gender	–	–	–	–	–	–	–	–	–
Male	791,671	306,124	1,097,795	814,091	301,044	1,115,135	750,821	342,285	1,093,106
Female	819,359	302,692	1,122,051	793,917	311,561	1,105,478	775,902	318,075	1,093,976
Race	–	–	–	–	–	–	–	–	–
White	1,044,968	458,823	1,503,791	992,780	437,986	1,430,766	1,023,945	441,117	1,465,063
Black	373,071	74,033	447,104	410,464	90,784	501,248	324,181	132,604	456,785
Other	192,991	75,961	268,952	204,765	83,835	288,599	178,596	86,638	265,235
Ethnicity	–	–	–	–	–	–	–	–	–
Hispanic	634,437	170,091	804,528	534,921	208,656	743,577	574,472	215,898	790,370
Non-Hispanic	976,594	438,726	1,415,319	1,073,087	403,949	1,477,036	952,250	444,462	1,396,712
Living arrangement	–	–	–	–	–	–	–	–	–
Two-parent family	932,752	470,489	1,403,241	827,065	439,076	1,266,141	826,181	420,731	1,246,912
Single-parent family	605,032	121,487	726,519	698,078	154,725	852,803	611,546	202,178	813,725
No-parent family	73,246	16,841	90,086	82,866	18,804	101,669	88,995	37,451	126,446
Related nonparent caretaker	39,612	16,841	56,453	52,231	18,804	71,034	49,177	37,451	86,628
Unrelated nonparent caretaker	33,633	0	33,633	30,635	0	30,635	39,818	0	39,818
Number of people in household	–	–	–	–	–	–	–	–	–
2	60,463	0	60,463	100,956	12,488	113,444	103,968	39,147	143,115
3	332,930	210,309	543,240	376,431	177,015	553,446	291,585	139,256	430,841
4	443,689	195,522	639,211	415,632	190,275	605,907	421,977	216,730	638,707
5	357,306	97,005	454,310	345,119	125,319	470,438	327,861	124,294	452,155
6 or more	416,642	105,981	522,623	369,871	107,507	477,378	381,331	140,933	522,264
Mean	4.8	4.3	4.6	4.5	4.4	4.5	4.6	4.5	4.6
Number with working parent(s)	1,049,392	471,132	1,520,523	1,064,699	531,852	1,596,551	1,078,109	568,013	1,646,122

Characteristics	WIC-Eligible Infants			WIC-Eligible Children Aged 1			WIC-Eligible Children Aged 2		
	Family Income < 185% FPG ^a	Adjunctively Eligible ^b	Total	Family Income < 185% FPG ^a	Adjunctively Eligible ^b	Total	Family Income < 185% FPG ^a	Adjunctively Eligible ^b	Total
Annual family income relative to FPG	–	–	–	–	–	–	–	–	–
No income	72,858	0	72,858	102,110	0	102,110	90,929	0	90,929
Up to 50% FPG	254,126	0	254,126	281,787	0	281,787	244,181	0	244,181
More than 50% up to 100% FPG	413,065	0	413,065	417,036	0	417,036	417,531	0	417,531
More than 100% up to 130% FPG	334,013	0	334,013	286,988	0	286,988	294,785	0	294,785
More than 130% up to 150% FPG	201,889	0	201,889	191,605	0	191,605	167,129	0	167,129
More than 150% up to 185% FPG	335,079	0	335,079	328,483	0	328,483	312,167	0	312,167
More than 185% up to 200% FPG	0	64,509	64,509	0	75,794	75,794	0	68,800	68,800
More than 200% FPG	0	544,308	544,308	0	536,811	536,811	0	591,560	591,560
Receipt of other benefits	–	–	–	–	–	–	–	–	–
No benefit receipt	369,652	0	369,652	406,486	0	406,486	337,715	0	337,715
Medicaid, SNAP, and TANF	97,844	9,508	107,352	83,457	18,719	102,175	69,563	19,405	88,968
SNAP and TANF only	0	0	0	0	0	0	0	0	0
Medicaid and SNAP only	589,448	80,084	669,533	589,575	103,874	693,448	609,072	102,051	711,122
Medicaid and TANF only	8,736	6,337	15,073	2,692	2,547	5,239	3,197	5,185	8,382
SNAP only	96,305	17,599	113,904	98,512	18,261	116,772	80,453	34,723	115,176
TANF only	0	0	0	0	0	0	0	0	0
Medicaid only	449,046	495,287	944,333	427,287	469,205	896,492	426,722	498,997	925,719

Notes

^a The WIC economic unit is defined as all persons 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.

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 the U.S. territories.

FPG = Federal Poverty Guidelines

“–” denotes blank cells.

Source: NBER, n.d.

Table A.6a1 (continued). Estimated Average Monthly Numbers of Infants, Children by Age, and Infants and Children Eligible for WIC (Percentages) by Demographic and Income Characteristics and Adjunctive Eligibility: CY 2015 (Unadjusted Weights, Counts)

Demographic Characteristics	WIC-Eligible Children Aged 3			WIC-Eligible Children Aged 4			WIC-Eligible Children Aged 1-4		
	Family Income < 185% FPG ^a	Adjunctively Eligible ^b	Total	Family Income < 185% FPG ^a	Adjunctively Eligible ^b	Total	Family Income < 185% FPG ^a	Adjunctively Eligible ^b	Total
Total	1,613,440	602,089	2,215,529	1,605,209	612,091	2,217,300	6,353,380	2,487,144	8,840,524
Gender	–	–	–	–	–	–	–	–	–
Male	846,602	304,272	1,150,873	790,666	276,397	1,067,063	3,202,180	1,223,997	4,426,177
Female	766,839	297,817	1,064,656	814,543	335,694	1,150,237	3,151,200	1,263,147	4,414,347
Race	–	–	–	–	–	–	–	–	–
White	1,046,456	449,662	1,496,118	1,067,732	425,971	1,493,704	4,130,914	1,754,736	5,885,650
Black	364,790	91,348	456,138	338,813	104,297	443,110	1,438,249	419,032	1,857,281
Other	202,194	61,079	263,273	198,663	81,823	280,486	784,218	313,375	1,097,593
Ethnicity	–	–	–	–	–	–	–	–	–
Hispanic	564,773	181,548	746,321	564,034	167,270	731,304	2,238,200	773,371	3,011,572
Non-Hispanic	1,048,668	420,540	1,469,208	1,041,175	444,821	1,485,996	4,115,180	1,713,772	5,828,952
Living arrangement	–	–	–	–	–	–	–	–	–
Two-parent family	789,222	397,904	1,187,125	839,377	388,560	1,227,937	3,281,844	1,646,270	4,928,115
Single-parent family	718,224	176,006	894,229	663,370	195,471	858,841	2,691,218	728,380	3,419,598
No-parent family	105,995	28,179	134,175	102,462	28,059	130,521	380,318	112,493	492,811
Related nonparent caretaker	58,230	28,179	86,409	66,123	28,059	94,182	225,761	112,493	338,254
Unrelated nonparent caretaker	47,765	0	47,765	36,339	0	36,339	154,557	0	154,557
Number of people in household	–	–	–	–	–	–	–	–	–
2	111,067	18,993	130,060	75,117	35,103	110,220	391,108	105,731	496,839
3	307,663	124,380	432,044	257,493	121,577	379,070	1,233,172	562,229	1,795,401
4	429,914	206,597	636,512	500,207	214,701	714,908	1,767,731	828,303	2,596,034
5	376,030	126,926	502,956	377,999	116,319	494,318	1,427,009	492,859	1,919,867
6 or more	388,766	125,191	513,957	394,393	124,391	518,784	1,534,360	498,022	2,032,383
Mean	4.6	4.5	4.6	4.8	4.4	4.7	4.6	4.5	4.6
Number with working parent(s)	1,098,154	508,130	1,606,284	1,120,002	548,094	1,668,095	4,360,963	2,156,090	6,517,052

Demographic Characteristics	WIC-Eligible Children Aged 3			WIC-Eligible Children Aged 4			WIC-Eligible Children Aged 1-4		
	Family Income < 185% FPG ^a	Adjunctively Eligible ^b	Total	Family Income < 185% FPG ^a	Adjunctively Eligible ^b	Total	Family Income < 185% FPG ^a	Adjunctively Eligible ^b	Total
Annual family income relative to poverty	–	–	–	–	–	–	–	–	–
No income	119,271	0	119,271	78,546	0	78,546	390,856	0	390,856
Up to 50% FPG	302,192	0	302,192	308,219	0	308,219	1,136,379	0	1,136,379
More than 50% up to 100% FPG	423,055	0	423,055	423,751	0	423,751	1,681,373	0	1,681,373
More than 100% up to 130% FPG	303,042	0	303,042	293,873	0	293,873	1,178,689	0	1,178,689
More than 130% up to 150% FPG	171,671	0	171,671	162,761	0	162,761	693,166	0	693,166
More than 150% up to 185% FPG	294,208	0	294,208	338,059	0	338,059	1,272,917	0	1,272,917
More than 185% up to 200% FPG	0	75,399	75,399	0	74,245	74,245	0	294,238	294,238
More than 200% FPG	0	526,689	526,689	0	537,846	537,846	0	2,192,906	2,192,906
Receipt of other benefits	–	–	–	–	–	–	–	–	–
No benefit receipt	342,747	0	342,747	357,055	0	357,055	1,444,002	0	1,444,002
Medicaid, SNAP, and TANF	81,410	9,779	91,189	88,198	14,942	103,140	322,629	62,844	385,473
SNAP and TANF only	487	0	487	0	0	0	487	0	487
Medicaid and SNAP only	636,641	116,116	752,756	630,237	100,004	730,241	2,465,524	422,045	2,887,568
Medicaid and TANF only	4,137	1,852	5,989	2,129	203	2,333	12,156	9,787	21,943
SNAP only	107,142	39,972	147,113	105,772	25,263	131,035	391,878	118,218	510,097
TANF only	0	0	0	0	0	0	0	0	0
Medicaid only	440,877	434,370	875,247	421,818	471,678	893,496	1,716,704	1,874,249	3,590,954

Notes

^a The WIC economic unit is defined as all persons 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.

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 the U.S. territories.

FPG = Federal Poverty Guidelines

“–” denotes blank cells.

Source: NBER, n.d.

Table A.6a2. Estimated Average Monthly Numbers of WIC-Eligible Infants and Children (Aged 1–4) by Income and Adjunctive Eligibility in the 2016 CPS-ASEC by Demographic Characteristics: CY 2015 (Unadjusted Weights, Percentages)

Demographic Characteristics	WIC-Eligible Infants			WIC-Eligible Children Aged 1			WIC-Eligible Children Aged 2		
	Family Income < 185% FPG ^a	Adjunctively Eligible ^b	Total	Family Income < 185% FPG ^a	Adjunctively Eligible ^b	Total	Family Income < 185% FPG ^a	Adjunctively Eligible ^b	Total
Total	1,611,030	608,816	2,219,847	1,608,009	612,604	2,220,613	1,526,722	660,360	2,187,082
Gender	–	–	–	–	–	–	–	–	–
Male	49.1	50.3	49.5	50.6	49.1	50.2	49.2	51.8	50.0
Female	50.9	49.7	50.5	49.4	50.9	49.8	50.8	48.2	50.0
Race	–	–	–	–	–	–	–	–	–
White	64.9	75.4	67.7	61.7	71.5	64.4	67.1	66.8	67.0
Black	23.2	12.2	20.1	25.5	14.8	22.6	21.2	20.1	20.9
Other	12.0	12.5	12.1	12.7	13.7	13.0	11.7	13.1	12.1
Ethnicity	–	–	–	–	–	–	–	–	–
Hispanic	39.4	27.9	36.2	33.3	34.1	33.5	37.6	32.7	36.1
Non-Hispanic	60.6	72.1	63.8	66.7	65.9	66.5	62.4	67.3	63.9
Living arrangement	–	–	–	–	–	–	–	–	–
Two-parent family	57.9	77.3	63.2	51.4	71.7	57.0	54.1	63.7	57.0
Single-parent family	37.6	20.0	32.7	43.4	25.3	38.4	40.1	30.6	37.2
No-parent family	4.5	2.8	4.1	5.2	3.1	4.6	5.8	5.7	5.8
Related nonparent caretaker	2.5	2.8	2.5	3.2	3.1	3.2	3.2	5.7	4.0
Unrelated nonparent caretaker	2.1	0.0	1.5	1.9	0.0	1.4	2.6	0.0	1.8
Number of people in household	–	–	–	–	–	–	–	–	–
2	3.8	0.0	2.7	6.3	2.0	5.1	6.8	5.9	6.5
3	20.7	34.5	24.5	23.4	28.9	24.9	19.1	21.1	19.7
4	27.5	32.1	28.8	25.8	31.1	27.3	27.6	32.8	29.2
5	22.2	15.9	20.5	21.5	20.5	21.2	21.5	18.8	20.7
6 or more	25.9	17.4	23.5	23.0	17.5	21.5	25.0	21.3	23.9
Percent with working parent(s)	65.1	77.4	68.5	66.2	86.8	71.9	70.6	86.0	75.3

Demographic Characteristics	WIC-Eligible Infants			WIC-Eligible Children Aged 1			WIC-Eligible Children Aged 2		
	Family Income < 185% FPG ^a	Adjunctively Eligible ^b	Total	Family Income < 185% FPG ^a	Adjunctively Eligible ^b	Total	Family Income < 185% FPG ^a	Adjunctively Eligible ^b	Total
Annual family income relative to FPG	–	–	–	–	–	–	–	–	–
No income	4.5	0.0	3.3	6.4	0.0	4.6	6.0	0.0	4.2
Up to 50% FPG	15.8	0.0	11.4	17.5	0.0	12.7	16.0	0.0	11.2
More than 50% up to 100% FPG	25.6	0.0	18.6	25.9	0.0	18.8	27.3	0.0	19.1
More than 100% up to 130% FPG	20.7	0.0	15.0	17.8	0.0	12.9	19.3	0.0	13.5
More than 130% up to 150% FPG	12.5	0.0	9.1	11.9	0.0	8.6	10.9	0.0	7.6
More than 150% up to 185% FPG	20.8	0.0	15.1	20.4	0.0	14.8	20.4	0.0	14.3
More than 185% up to 200% FPG	0.0	10.6	2.9	0.0	12.4	3.4	0.0	10.4	3.1
More than 200% FPG	0.0	89.4	24.5	0.0	87.6	24.2	0.0	89.6	27.0
Receipt of other benefits	–	–	–	–	–	–	–	–	–
No benefit receipt	22.9	0.0	16.7	25.3	0.0	18.3	22.1	0.0	15.4
SNAP, TANF, and Medicaid	6.1	1.6	4.8	5.2	3.1	4.6	4.6	2.9	4.1
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	36.6	13.2	30.2	36.7	17.0	31.2	39.9	15.5	32.5
TANF and Medicaid only	0.5	1.0	0.7	0.2	0.4	0.2	0.2	0.8	0.4
SNAP only	6.0	2.9	5.1	6.1	3.0	5.3	5.3	5.3	5.3
TANF only	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Medicaid only	27.9	81.4	42.5	26.6	76.6	40.4	28.0	75.6	42.3

Notes

^a The WIC economic unit is defined as all persons 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.

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 the U.S. territories.

FPG = Federal Poverty Guidelines

“–” denotes blank cells.

Source: NBER, n.d.

Table A.6a2 (continued). Estimated Average Monthly Numbers of WIC-Eligible Infants and Children (Aged 1–4) by Income and Adjunctive Eligibility in the 2016 CPS-ASEC by Demographic Characteristics: CY 2015 (Unadjusted Weights, Percentages)

Demographic Characteristics	WIC-Eligible Children Aged 3			WIC-Eligible Children Aged 4			WIC-Eligible Children Aged 1–4		
	Family Income < 185% FPG ^a	Adjunctively Eligible ^b	Total	Family Income < 185% FPG ^a	Adjunctively Eligible ^b	Total	Family Income < 185% FPG ^a	Adjunctively Eligible ^b	Total
Total	1,613,440	602,089	2,215,529	1,605,209	612,091	2,217,300	6,353,380	2,487,144	8,840,524
Gender	–	–	–	–	–	–	–	–	–
Male	52.5	50.5	51.9	49.3	45.2	48.1	50.4	49.2	50.1
Female	47.5	49.5	48.1	50.7	54.8	51.9	49.6	50.8	49.9
Race	–	–	–	–	–	–	–	–	–
White	64.9	74.7	67.5	66.5	69.6	67.4	65.0	70.6	66.6
Black	22.6	15.2	20.6	21.1	17.0	20.0	22.6	16.8	21.0
Other	12.5	10.1	11.9	12.4	13.4	12.6	12.3	12.6	12.4
Ethnicity	–	–	–	–	–	–	–	–	–
Hispanic	35.0	30.2	33.7	35.1	27.3	33.0	35.2	31.1	34.1
Non-Hispanic	65.0	69.8	66.3	64.9	72.7	67.0	64.8	68.9	65.9
Living arrangement									
Two-parent family	48.9	66.1	53.6	52.3	63.5	55.4	51.7	66.2	55.7
Single-parent family	44.5	29.2	40.4	41.3	31.9	38.7	42.4	29.3	38.7
No-parent family	6.6	4.7	6.1	6.4	4.6	5.9	6.0	4.5	5.6
Related nonparent caretaker	3.6	4.7	3.9	4.1	4.6	4.2	3.6	4.5	3.8
Unrelated nonparent caretaker	3.0	0.0	2.2	2.3	0.0	1.6	2.4	0.0	1.7
Number of people in household	–	–	–	–	–	–	–	–	–
2	6.9	3.2	5.9	4.7	5.7	5.0	6.2	4.3	5.6
3	19.1	20.7	19.5	16.0	19.9	17.1	19.4	22.6	20.3
4	26.6	34.3	28.7	31.2	35.1	32.2	27.8	33.3	29.4
5	23.3	21.1	22.7	23.5	19.0	22.3	22.5	19.8	21.7
6 or more	24.1	20.8	23.2	24.6	20.3	23.4	24.2	20.0	23.0
Percent with working parent(s)	68.1	84.4	72.5	69.8	89.5	75.2	68.6	86.7	73.7

Demographic Characteristics	WIC-Eligible Children Aged 3			WIC-Eligible Children Aged 4			WIC-Eligible Children Aged 1-4		
	Family Income < 185% FPG ^a	Adjunctively Eligible ^b	Total	Family Income < 185% FPG ^a	Adjunctively Eligible ^b	Total	Family Income < 185% FPG ^a	Adjunctively Eligible ^b	Total
Annual family income relative to poverty	–	–	–	–	–	–	–	–	–
No income	7.4	0.0	5.4	4.9	0.0	3.5	6.2	0.0	4.4
Up to 50% FPG	18.7	0.0	13.6	19.2	0.0	13.9	17.9	0.0	12.9
More than 50% up to 100% FPG	26.2	0.0	19.1	26.4	0.0	19.1	26.5	0.0	19.0
More than 100% up to 130% FPG	18.8	0.0	13.7	18.3	0.0	13.3	18.6	0.0	13.3
More than 130% up to 150% FPG	10.6	0.0	7.7	10.1	0.0	7.3	10.9	0.0	7.8
More than 150% up to 185% FPG	18.2	0.0	13.3	21.1	0.0	15.2	20.0	0.0	14.4
More than 185% up to 200% FPG	0.0	12.5	3.4	0.0	12.1	3.3	0.0	11.8	3.3
More than 200% FPG	0.0	87.5	23.8	0.0	87.9	24.3	0.0	88.2	24.8
Benefit receipt (percent distribution)	–	–	–	–	–	–	–	–	–
No benefit receipt	21.2	0.0	15.5	22.2	0.0	16.1	22.7	0.0	16.3
Medicaid, SNAP, and TANF	5.0	1.6	4.1	5.5	2.4	4.7	5.1	2.5	4.4
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	39.5	19.3	34.0	39.3	16.3	32.9	38.8	17.0	32.7
Medicaid and TANF only	0.3	0.3	0.3	0.1	0.0	0.1	0.2	0.4	0.2
SNAP only	6.6	6.6	6.6	6.6	4.1	5.9	6.2	4.8	5.8
TANF only	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Medicaid only	27.3	72.1	39.5	26.3	77.1	40.3	27.0	75.4	40.6

Notes

^a The WIC economic unit is defined as all persons 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.

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 the U.S. territories.

FPG = Federal Poverty Guidelines

“–” denotes blank cells.

Source: NBER, n.d.

Table A.6b1. Estimated Average Monthly Numbers of Infants and Children (Aged 1–4) Eligible for WIC by Income and Adjunctive Eligibility in the 2016 CPS-ASEC by Demographic Characteristics: CY 2015 (Fully Adjusted Weights, Counts)

Demographic Characteristics	WIC-Eligible Infants			WIC-Eligible Children Aged 1			WIC-Eligible Children Aged 2		
	Family Income < 185% FPG ^a	Adjunctively Eligible ^b	Total	Family Income < 185% FPG ^a	Adjunctively Eligible ^b	Total	Family Income < 185% FPG ^a	Adjunctively Eligible ^b	Total
Total	1,784,223	685,228	2,469,451	1,615,675	625,507	2,241,182	1,596,632	691,238	2,287,870
Gender	–	–	–	–	–	–	–	–	–
Male	880,349	345,880	1,226,229	817,605	305,640	1,123,246	779,788	356,683	1,136,470
Female	903,874	339,348	1,243,222	798,069	319,867	1,117,937	816,845	334,555	1,151,400
Race	–	–	–	–	–	–	–	–	–
White	1,154,930	519,075	1,674,006	1,034,303	458,570	1,492,873	1,072,754	464,527	1,537,281
Black	424,808	84,799	509,607	380,945	84,616	465,560	343,680	139,220	482,899
Other	204,485	81,353	285,838	200,427	82,321	282,748	180,198	87,491	267,690
Ethnicity	–	–	–	–	–	–	–	–	–
Hispanic	656,224	175,930	832,154	538,699	210,408	749,107	585,789	220,151	805,940
Non-Hispanic	1,127,999	509,298	1,637,297	1,076,976	415,099	1,492,075	1,010,843	471,087	1,481,930
Living arrangement									
Two-parent family	1,030,197	530,647	1,560,844	847,217	450,040	1,297,257	861,920	440,241	1,302,161
Single-parent family	671,341	135,268	806,609	684,288	156,082	840,370	640,861	211,635	852,496
No-parent family	82,686	19,313	101,998	84,169	19,385	103,554	93,852	39,362	133,213
Related nonparent caretaker	44,928	19,313	64,241	53,167	19,385	72,552	52,269	39,362	91,631
Unrelated nonparent caretaker	37,758	0	37,758	31,002	0	31,002	41,583	0	41,583
Household size (number of persons)	–	–	–	–	–	–	–	–	–
2	69,088	0	69,088	99,901	12,391	112,292	109,816	41,262	151,078
3	372,016	238,633	610,649	377,501	181,655	559,156	306,854	146,790	453,644
4	493,332	222,132	715,464	416,876	194,608	611,484	441,011	226,746	667,757
5	395,282	108,840	504,123	348,722	128,455	477,177	341,658	130,605	472,264
6 or more	454,505	115,623	570,127	372,674	108,399	481,074	397,293	145,835	543,128
Mean	4.7	4.3	4.6	4.5	4.4	4.5	4.6	4.5	4.6
Number with working parent(s)	1,160,387	532,672	1,693,058	1,072,794	543,977	1,616,771	1,127,593	595,491	1,723,084

Demographic Characteristics	WIC-Eligible Infants			WIC-Eligible Children Aged 1			WIC-Eligible Children Aged 2		
	Family Income < 185% FPG ^a	Adjunctively Eligible ^b	Total	Family Income < 185% FPG ^a	Adjunctively Eligible ^b	Total	Family Income < 185% FPG ^a	Adjunctively Eligible ^b	Total
Annual family income relative to poverty	–	–	–	–	–	–	–	–	–
No income	82,046	0	82,046	103,785	0	103,785	94,853	0	94,853
Up to 50% FPG	283,897	0	283,897	278,742	0	278,742	255,761	0	255,761
More than 50% up to 100% FPG	454,812	0	454,812	418,721	0	418,721	436,093	0	436,093
More than 100% up to 130% FPG	366,650	0	366,650	289,072	0	289,072	307,349	0	307,349
More than 130% up to 150% FPG	226,091	0	226,091	190,370	0	190,370	175,528	0	175,528
More than 150% up to 185% FPG	370,727	0	370,727	334,985	0	334,985	327,048	0	327,048
More than 185% up to 200% FPG	0	72,282	72,282	0	76,938	76,938	0	71,567	71,567
More than 200% FPG	0	612,946	612,946	0	548,569	548,569	0	619,671	619,671
Benefit receipt	–	–	–	–	–	–	–	–	–
No benefit receipt	412,660	0	412,660	412,649	0	412,649	353,653	0	353,653
Medicaid, SNAP, and TANF	107,121	9,956	117,077	81,188	19,390	100,577	72,249	20,533	92,782
SNAP and TANF only	0	0	0	0	0	0	0	0	0
Medicaid and SNAP only	657,359	90,432	747,790	589,288	105,133	694,421	638,321	106,298	744,619
Medicaid and TANF only	9,163	7,158	16,321	2,802	2,550	5,352	3,453	5,426	8,879
SNAP only	107,539	19,316	126,855	98,214	18,017	116,231	84,719	35,854	120,573
TANF only	0	0	0	0	0	0	0	0	0
Medicaid only	490,382	558,367	1,048,749	431,535	480,418	911,952	444,238	523,126	967,364

Notes

^a The WIC economic unit is defined as all persons 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.

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 the U.S. territories.

FPG = Federal Poverty Guidelines

“–” denotes blank cells.

Source: NBER, n.d.

Table A.6b1 (continued). Estimated Average Monthly Numbers of Infants and Children (Aged 1–4) Eligible for WIC by Income and Adjunctive Eligibility in the 2016 CPS-ASEC by Demographic Characteristics: CY 2015 (Fully Adjusted Weights, Counts)

Demographic Characteristics	WIC-Eligible Children Aged 3			WIC-Eligible Children Aged 4			WIC-Eligible Children Aged 1–4		
	Family Income < 185% FPG ^a	Adjunctively Eligible ^b	Total	Family Income < 185% FPG ^a	Adjunctively Eligible ^b	Total	Family Income < 185% FPG ^a	Adjunctively Eligible ^b	Total
Total	1,676,480	630,458	2,306,938	1,660,025	636,350	2,296,376	6,548,812	2,583,553	9,132,365
Gender	–	–	–	–	–	–	–	–	–
Male	880,203	318,653	1,198,856	822,628	290,057	1,112,685	3,300,224	1,271,034	4,571,257
Female	796,277	311,804	1,108,081	837,397	346,293	1,183,690	3,248,588	1,312,520	4,561,108
Race	–	–	–	–	–	–	–	–	–
White	1,097,437	474,799	1,572,236	1,125,925	451,482	1,577,407	4,330,418	1,849,379	6,179,797
Black	373,252	93,420	466,671	334,723	103,106	437,829	1,432,599	420,360	1,852,960
Other	205,791	62,239	268,030	199,378	81,763	281,140	785,794	313,814	1,099,608
Ethnicity	–	–	–	–	–	–	–	–	–
Hispanic	577,533	185,658	763,191	583,153	172,640	755,793	2,285,175	788,857	3,074,032
Non-Hispanic	1,098,947	444,800	1,543,747	1,076,872	463,710	1,540,582	4,263,637	1,794,696	6,058,334
Living arrangement	–	–	–	–	–	–	–	–	–
Two-parent family	821,197	416,636	1,237,834	873,578	405,465	1,279,043	3,403,913	1,712,383	5,116,295
Single-parent family	744,939	183,991	928,930	680,761	201,477	882,237	2,750,849	753,185	3,504,033
No-parent family	110,344	29,830	140,174	105,686	29,409	135,095	394,051	117,986	512,037
Related nonparent caretaker	60,325	29,830	90,155	68,302	29,409	97,710	234,062	117,986	352,048
Unrelated nonparent caretaker	50,019	0	50,019	37,384	0	37,384	159,989	0	159,989
Household size (number of persons)	–	–	–	–	–	–	–	–	–
2	115,598	19,633	135,230	77,487	35,872	113,359	402,801	109,158	511,959
3	320,577	130,922	451,499	266,048	125,768	391,816	1,270,980	585,134	1,856,115
4	447,122	216,990	664,112	516,621	225,302	741,922	1,821,630	863,645	2,685,275
5	390,000	133,034	523,035	392,047	121,778	513,824	1,472,427	513,872	1,986,299
6 or more	403,183	129,879	533,062	407,823	127,631	535,454	1,580,973	511,744	2,092,718
Mean	4.6	4.5	4.6	4.8	4.4	4.7	4.6	4.5	4.6

Demographic Characteristics	WIC-Eligible Children Aged 3			WIC-Eligible Children Aged 4			WIC-Eligible Children Aged 1-4		
	Family Income < 185% FPG ^a	Adjunctively Eligible ^b	Total	Family Income < 185% FPG ^a	Adjunctively Eligible ^b	Total	Family Income < 185% FPG ^a	Adjunctively Eligible ^b	Total
Number with working parent(s)	1,140,983	531,591	1,672,574	1,161,184	569,528	1,730,712	4,502,554	2,240,587	6,743,141
Annual family income relative to poverty	–	–	–	–	–	–	–	–	–
No income	124,264	0	124,264	80,390	0	80,390	403,293	0	403,293
Up to 50% FPG	313,559	0	313,559	316,492	0	316,492	1,164,554	0	1,164,554
More than 50% up to 100% FPG	438,827	0	438,827	436,086	0	436,086	1,729,727	0	1,729,727
More than 100% up to 130% FPG	315,372	0	315,372	304,805	0	304,805	1,216,597	0	1,216,597
More than 130% up to 150% FPG	178,280	0	178,280	170,368	0	170,368	714,546	0	714,546
More than 150% up to 185% FPG	306,178	0	306,178	351,884	0	351,884	1,320,096	0	1,320,096
More than 185% up to 200% FPG	0	78,726	78,726	0	77,049	77,049	0	304,280	304,280
More than 200% FPG	0	551,732	551,732	0	559,301	559,301	0	2,279,273	2,279,273
Benefit receipt	–	–	–	–	–	–	–	–	–
No benefit receipt	357,688	0	357,688	372,555	0	372,555	1,496,545	0	1,496,545
Medicaid, SNAP, and TANF	84,490	10,225	94,714	89,501	15,548	105,049	327,427	65,696	393,123
SNAP and TANF only	497	0	497	0	0	0	497	0	497
Medicaid and SNAP only	660,291	121,174	781,465	649,893	103,330	753,223	2,537,792	435,935	2,973,727
Medicaid and TANF only	4,284	1,956	6,241	2,286	207	2,494	12,825	10,140	22,965
SNAP only	111,384	41,492	152,876	109,076	25,891	134,966	403,393	121,253	524,646
TANF only	0	0	0	0	0	0	0	0	0
Medicaid only	457,846	455,611	913,457	436,715	491,374	928,089	1,770,334	1,950,529	3,720,863

Notes

^a The WIC economic unit is defined as all persons 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.

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 the U.S. territories.

FPG = Federal Poverty Guidelines

“–” denotes blank cells.

Source: NBER, n.d.

Table A.6b2. Estimated Average Monthly Numbers of Infants and Children (Aged 1–4) Eligible for WIC by Income and Adjunctive Eligibility in the 2016 CPS-ASEC by Demographic Characteristics: CY 2015 (Fully Adjusted Weights, Percentages)

Demographic Characteristics	WIC-Eligible Infants			WIC-Eligible Children Aged 1			WIC-Eligible Children Aged 2		
	Family Income < 185% FPG ^a	Adjunctively Eligible ^b	Total	Family Income < 185% FPG ^a	Adjunctively Eligible ^b	Total	Family Income < 185% FPG ^a	Adjunctively Eligible ^b	Total
Total	1,784,223	685,228	2,469,451	1,615,675	625,507	2,241,182	1,596,632	691,238	2,287,870
Gender	–	–	–	–	–	–	–	–	–
Male	49.3	50.5	49.7	50.6	48.9	50.1	48.8	51.6	49.7
Female	50.7	49.5	50.3	49.4	51.1	49.9	51.2	48.4	50.3
Race	–	–	–	–	–	–	–	–	–
White	64.7	75.8	67.8	64.0	73.3	66.6	67.2	67.2	67.2
Black	23.8	12.4	20.6	23.6	13.5	20.8	21.5	20.1	21.1
Other	11.5	11.9	11.6	12.4	13.2	12.6	11.3	12.7	11.7
Ethnicity	–	–	–	–	–	–	–	–	–
Hispanic	36.8	25.7	33.7	33.3	33.6	33.4	36.7	31.8	35.2
Non-Hispanic	63.2	74.3	66.3	66.7	66.4	66.6	63.3	68.2	64.8
Living arrangement									
Two-parent family	57.7	77.4	63.2	52.4	71.9	57.9	54.0	63.7	56.9
Single-parent family	37.6	19.7	32.7	42.4	25.0	37.5	40.1	30.6	37.3
No-parent family	4.6	2.8	4.1	5.2	3.1	4.6	5.9	5.7	5.8
Related nonparent caretaker	2.5	2.8	2.6	3.3	3.1	3.2	3.3	5.7	4.0
Unrelated nonparent caretaker	2.1	0.0	1.5	1.9	0.0	1.4	2.6	0.0	1.8
Number of people in household	–	–	–	–	–	–	–	–	–
2	3.9	0.0	2.8	6.2	2.0	5.0	6.9	6.0	6.6
3	20.9	34.8	24.7	23.4	29.0	24.9	19.2	21.2	19.8
4	27.6	32.4	29.0	25.8	31.1	27.3	27.6	32.8	29.2
5	22.2	15.9	20.4	21.6	20.5	21.3	21.4	18.9	20.6
6 or more	25.5	16.9	23.1	23.1	17.3	21.5	24.9	21.1	23.7
Percent with working parent(s)	65.0	77.7	68.6	66.4	87.0	72.1	70.6	86.1	75.3

Demographic Characteristics	WIC-Eligible Infants			WIC-Eligible Children Aged 1			WIC-Eligible Children Aged 2		
	Family Income < 185% FPG ^a	Adjunctively Eligible ^b	Total	Family Income < 185% FPG ^a	Adjunctively Eligible ^b	Total	Family Income < 185% FPG ^a	Adjunctively Eligible ^b	Total
Annual family income relative to poverty	–	–	–	–	–	–	–	–	–
No income	4.6	0.0	3.3	6.4	0.0	4.6	5.9	0.0	4.1
Up to 50% FPG	15.9	0.0	11.5	17.3	0.0	12.4	16.0	0.0	11.2
More than 50% up to 100% FPG	25.5	0.0	18.4	25.9	0.0	18.7	27.3	0.0	19.1
More than 100% up to 130% FPG	20.5	0.0	14.8	17.9	0.0	12.9	19.2	0.0	13.4
More than 130% up to 150% FPG	12.7	0.0	9.2	11.8	0.0	8.5	11.0	0.0	7.7
More than 150% up to 185% FPG	20.8	0.0	15.0	20.7	0.0	14.9	20.5	0.0	14.3
More than 185% up to 200% FPG	0.0	10.5	2.9	0.0	12.3	3.4	0.0	10.4	3.1
More than 200% FPG	0.0	89.5	24.8	0.0	87.7	24.5	0.0	89.6	27.1
Benefit receipt	–	–	–	–	–	–	–	–	–
No benefit receipt	23.1	0.0	16.7	25.5	0.0	18.4	22.1	0.0	15.5
Medicaid, SNAP, and TANF	6.0	1.5	4.7	5.0	3.1	4.5	4.5	3.0	4.1
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	36.8	13.2	30.3	36.5	16.8	31.0	40.0	15.4	32.5
Medicaid and TANF only	0.5	1.0	0.7	0.2	0.4	0.2	0.2	0.8	0.4
SNAP only	6.0	2.8	5.1	6.1	2.9	5.2	5.3	5.2	5.3
TANF only	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Medicaid only	27.5	81.5	42.5	26.7	76.8	40.7	27.8	75.7	42.3

Notes

^a The WIC economic unit is defined as all persons 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.

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 the U.S. territories.

FPG = Federal Poverty Guidelines

“–” denotes blank cells.

Source: NBER, n.d.

Table A.6b2 (continued). Estimated Average Monthly Numbers of Infants and Children (Aged 1–4) Eligible for WIC by Income and Adjunctive Eligibility in the 2016 CPS-ASEC by Demographic Characteristics: CY 2015 (Fully Adjusted Weights, Percentages)

Demographic Characteristics	WIC-Eligible Children Aged 3			WIC-Eligible Children Aged 4			WIC-Eligible Children Aged 1–4		
	Family Income < 185% FPG ^a	Adjunctively Eligible ^b	Total	Family Income < 185% FPG ^a	Adjunctively Eligible ^b	Total	Family Income < 185% FPG ^a	Adjunctively Eligible ^b	Total
Total	1,676,480	630,458	2,306,938	1,660,025	636,350	2,296,376	6,548,812	2,583,553	9,132,365
Gender	–	–	–	–	–	–	–	–	–
Male	52.5	50.5	52.0	49.6	45.6	48.5	50.4	49.2	50.1
Female	47.5	49.5	48.0	50.4	54.4	51.5	49.6	50.8	49.9
Race	–	–	–	–	–	–	–	–	–
White	65.5	75.3	68.2	67.8	70.9	68.7	66.1	71.6	67.7
Black	22.3	14.8	20.2	20.2	16.2	19.1	21.9	16.3	20.3
Other	12.3	9.9	11.6	12.0	12.8	12.2	12.0	12.1	12.0
Ethnicity	–	–	–	–	–	–	–	–	–
Hispanic	34.4	29.4	33.1	35.1	27.1	32.9	34.9	30.5	33.7
Non-Hispanic	65.6	70.6	66.9	64.9	72.9	67.1	65.1	69.5	66.3
Living arrangement	–	–	–	–	–	–	–	–	–
Two-parent family	49.0	66.1	53.7	52.6	63.7	55.7	52.0	66.3	56.0
Single-parent family	44.4	29.2	40.3	41.0	31.7	38.4	42.0	29.2	38.4
No-parent family	6.6	4.7	6.1	6.4	4.6	5.9	6.0	4.6	5.6
Related nonparent caretaker	3.6	4.7	3.9	4.1	4.6	4.3	3.6	4.6	3.9
Unrelated nonparent caretaker	3.0	0.0	2.2	2.3	0.0	1.6	2.4	0.0	1.8
Number of people in household	–	–	–	–	–	–	–	–	–
2	6.9	3.1	5.9	4.7	5.6	4.9	6.2	4.2	5.6
3	19.1	20.8	19.6	16.0	19.8	17.1	19.4	22.6	20.3
4	26.7	34.4	28.8	31.1	35.4	32.3	27.8	33.4	29.4
5	23.3	21.1	22.7	23.6	19.1	22.4	22.5	19.9	21.8
6 or more	24.0	20.6	23.1	24.6	20.1	23.3	24.1	19.8	22.9
Percent with working parent(s)	68.1	84.3	72.5	69.9	89.5	75.4	68.8	86.7	73.8

Demographic Characteristics	WIC-Eligible Children Aged 3			WIC-Eligible Children Aged 4			WIC-Eligible Children Aged 1-4		
	Family Income < 185% FPG ^a	Adjunctively Eligible ^b	Total	Family Income < 185% FPG ^a	Adjunctively Eligible ^b	Total	Family Income < 185% FPG ^a	Adjunctively Eligible ^b	Total
Annual family income relative to poverty	–	–	–	–	–	–	–	–	–
No income	7.4	0.0	5.4	4.8	0.0	3.5	6.2	0.0	4.4
Up to 50% FPG	18.7	0.0	13.6	19.1	0.0	13.8	17.8	0.0	12.8
More than 50% up to 100% FPG	26.2	0.0	19.0	26.3	0.0	19.0	26.4	0.0	18.9
More than 100% up to 130% FPG	18.8	0.0	13.7	18.4	0.0	13.3	18.6	0.0	13.3
More than 130% up to 150% FPG	10.6	0.0	7.7	10.3	0.0	7.4	10.9	0.0	7.8
More than 150% up to 185% FPG	18.3	0.0	13.3	21.2	0.0	15.3	20.2	0.0	14.5
More than 185% up to 200% FPG	0.0	12.5	3.4	0.0	12.1	3.4	0.0	11.8	3.3
More than 200% FPG	0.0	87.5	23.9	0.0	87.9	24.4	0.0	88.2	25.0
Benefit receipt (percent distribution)	–	–	–	–	–	–	–	–	–
No benefit receipt	21.3	0.0	15.5	22.4	0.0	16.2	22.9	0.0	16.4
Medicaid, SNAP, and TANF	5.0	1.6	4.1	5.4	2.4	4.6	5.0	2.5	4.3
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	39.4	19.2	33.9	39.1	16.2	32.8	38.8	16.9	32.6
Medicaid and TANF only	0.3	0.3	0.3	0.1	0.0	0.1	0.2	0.4	0.3
SNAP only	6.6	6.6	6.6	6.6	4.1	5.9	6.2	4.7	5.7
TANF only	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Medicaid only	27.3	72.3	39.6	26.3	77.2	40.4	27.0	75.5	40.7

Notes

^a The WIC economic unit is defined as all persons 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.

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 the U.S. territories.

FPG = Federal Poverty Guidelines

“–” denotes blank cells.

Source: NBER, n.d.

Table A.7. Changes in the Total Population, Total WIC Eligibles, and WIC Eligibility Rates by Participant Category: CY 2014–CY 2015

Participant Category	Total Population		Percent Change	Total WIC Eligibles		Percent Change	WIC Eligibility Rate		Percent Change
	2014	2015		2014	2015		2014	2015	
Infants	3,958,480	3,998,800	1.0	2,451,750	2,506,686	2.2	61.9	62.7	1.2
Total children aged 1–4	16,141,207	16,142,707	0.0	9,347,672	9,268,848	-0.8	57.9	57.4	-0.9
Children aged 1	4,030,564	4,044,481	0.3	2,312,140	2,274,986	-1.6	57.4	56.2	-1.9
Children aged 2	4,005,410	4,034,206	0.7	2,318,334	2,321,950	0.2	57.9	57.6	-0.6
Children aged 3	4,065,415	4,031,844	-0.8	2,357,342	2,340,558	-0.7	58.0	58.1	0.1
Children aged 4	4,039,819	4,032,176	-0.2	2,359,857	2,331,355	-1.2	58.4	57.8	-1.0
Pregnant women	2,957,281	2,987,403	1.0	1,599,023	1,634,852	2.2	54.1	54.7	1.2
All postpartum women	3,943,041	3,983,205	1.0	1,606,863	1,652,116	2.8	40.8	41.5	1.8
Breastfeeding women	2,087,752	2,147,025	2.8	998,025	1,034,333	3.6	47.8	48.2	0.8
Nonbreastfeeding women	1,855,289	1,836,179	-1.0	608,838	617,783	1.5	32.8	33.6	2.5
Total WIC Eligibles	27,000,009	27,112,115	0.4	15,005,308	15,062,503	0.4	55.6	55.6	0.0

Source: IPUMS-USA, n.d.; NBER, n.d.; U.S. Census Bureau, n.d.d

Table A.8. Stepwise Comparison of the Changes in Average Monthly Numbers of WIC-Eligible Infants and Children (Aged 1–4) as Estimated by the March CPS: CY 2014–CY 2015

Step	2014			2015			Percent Change		
	Infants	Children Aged 1–4	Total	Infants	Children Aged 1–4	Total	Infants	Children Aged 1–4	Total
Total number of infants/children in the March CPS	3,872,501	16,028,562	19,901,063	3,876,774	16,045,983	19,922,757	0.1%	0.1%	0.1%
Number (non-U.S. territory) after adjustment for CPS undercount/overcount	3,916,636	15,966,079	19,882,715	3,959,291	15,978,073	19,937,364	1.1%	0.1%	0.3%
Number with annual income < 185% FPG	1,648,315	6,595,368	8,243,683	1,654,704	6,315,836	7,970,540	0.4%	-4.2%	-3.3%
Number with adjunctive eligibility	575,937	2,355,589	2,931,526	621,483	2,478,408	3,099,891	7.9%	5.2%	5.7%
Through SNAP	145,173	494,668	639,841	110,205	600,043	710,248	-24.1%	21.3%	11.0%
Through TANF	0	14,151	14,151	6,897	9,745	16,642	N/A	-31.1%	17.6%
Through Medicaid	430,764	1,846,770	2,277,534	504,382	1,868,619	2,373,001	17.1%	1.2%	4.2%
Number before monthly income adjustment	2,224,253	8,950,956	11,175,209	2,276,187	8,794,243	11,070,431	2.3%	-1.8%	-0.9%
Number after monthly income adjustment	2,485,987	9,297,393	11,783,380	2,545,826	9,224,611	11,770,437	2.4%	-0.8%	-0.1%
Total eligibles: Number after adjustment for nutritional risk (infants and children)	2,411,407	9,204,419	11,615,826	2,469,451	9,132,365	11,601,816	2.4%	-0.8%	-0.1%

Notes

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

Source: IPUMS-USA, n.d.; NBER, n.d.; U.S. Census Bureau, n.d.

Table A.9. 2015 Standard Error and Coefficient of Variation for National Estimates From the 2016 CPS-ASEC by Participant Group

Participant Group	2015					
	Estimate		Standard Error		Coefficient of Variation (Percent)	
	Total	Eligibles	Total	Eligibles	Total	Eligibles
Infants	3,959,291	2,469,451	77,224	131,010	2.0	5.3
Total children aged 1–4	15,978,073	9,132,365	155,124	246,517	1.0	2.7
Children aged 1	4,005,000	2,241,182	77,662	122,117	1.9	5.4
Children aged 2	3,993,610	2,287,870	77,553	123,378	1.9	5.4
Children aged 3	3,989,613	2,306,938	77,515	123,901	1.9	5.4
Children aged 4	3,989,850	2,296,376	77,517	123,630	1.9	5.4
Pregnant women	2,957,887	1,610,567	57,692	85,445	2.0	5.3
Postpartum breastfeeding women	2,125,813	1,018,940	41,463	54,057	2.0	5.3
Postpartum nonbreastfeeding women	1,818,037	608,622	35,460	32,289	2.0	5.3
Total	26,839,101	14,839,946	262,562	390,460	1.0	2.6

Note

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

Source: NBER, n.d.

Appendix B. Detailed Tables for State and Regional WIC Estimates: CY 2015

The tables in this appendix present detailed estimates of WIC-eligible individuals and coverage rates by State, District of Columbia, U.S. territory, and FNS region for CY 2015. A list of the seven FNS regions and the States, District of Columbia, and territories included in each FNS region follows. Note that the term “States” includes the District of Columbia and U.S. territories unless otherwise stated.

FNS Regions and 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 Eligibles and Coverage Rates by State and FNS Region: CY 2015

This table shows the estimated number of WIC eligibles, participants, and the resulting coverage rates by State and FNS region.

Table B.2. WIC Eligibles and Coverage Rates by FNS Region and States in Each Region: CY 2015

This table shows the estimated number of WIC eligibles, participants, and the resulting coverage rates by FNS region and the States within each region.

Table B.3. WIC Eligibles, Participants, and Coverage Rates by FNS Region and Participant Group: CY 2015

This table shows the estimated number of WIC eligibles, participants, and the resulting coverage rates by FNS region and participant category.

Table B.4. WIC Eligibles Standard Errors by State and FNS Region: CY 2015

This table shows the estimated number of WIC eligibles and the associated standard errors and coefficients of variation by State and FNS region.

Table B.5. WIC Eligibles Standard Errors by FNS Region and States in Each Region: CY 2015

This table shows the estimated number of WIC eligibles 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 Eligibles by FNS Region and Participant Category: CY 2015

This table shows the estimated number of WIC eligibles and the associated standard errors and coefficients of variance by FNS region and participant category.

Table B.7. Adjustments for Calculating the Average Monthly Number of WIC-Eligible Individuals in Puerto Rico and the Other U.S. Territories by Participant Group: CY 2015

Analogous to table A.5 of the national estimates, this table shows the step-by-step adjustments made from the total numbers of infants and children to the final numbers of infants, children, and pregnant and postpartum women who were fully eligible for WIC in the U.S. territories 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.d).

Table B.8. Regional Estimates of the Average Monthly Numbers of WIC-Eligible Infants and Children (Aged 1–4) by Demographic and Income Characteristics: CY 2015

This tables presents estimates of the total number of WIC-eligible infants and children by demographic and income characteristics in the CPS-ASEC data by FNS region (NBER n.d.). It is similar to table A.6a but shows the data by region instead of age categories. Note that this table does not include infants and children from the U.S. territories. This table shows these characteristics using weights that have been fully adjusted, including adjustments for the undercount/overcount in the CPS (population adjustment), monthly income and certification periods (annual-to-monthly adjustment), and nutritional risk.

Table B.9. WIC Coverage Rates by State: CY 2005–2015

This table shows WIC coverage rates by State and year. This is a new table; it did not appear in earlier reports.

Table B.10. WIC Coverage Rates (Percentages) by State and Participant Category With Margins of Error for 90-Percent Confidence Intervals: CY 2015

This table shows the coverage rates by State and participant category and the associated margins 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 90-percent confidence interval. This is a new table; it did not appear in earlier reports.

Table B.11. State-Level WIC Coverage Rates (Percentages) by Race and Ethnicity With Margins of Error for 90-Percent Confidence Intervals: CY 2015

This table shows the coverage rates by State and race and ethnicity and the associated margins 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 90-percent confidence interval. This is a new table; it did not appear in earlier reports.

Table B.1. WIC Eligibles and Coverage Rates by State and FNS Region: CY 2015

State ^a	Eligibles	Participants	Coverage Rate (Percent)
Alabama	242,502	131,294	54.1
Alaska	39,888	19,584	49.1
Arizona	329,219	167,106	50.8
Arkansas	174,843	84,180	48.1
California	1,911,706	1,243,411	65.0
Colorado	220,959	90,174	40.8
Connecticut	107,811	50,716	47.0
Delaware	36,272	18,728	51.6
District of Columbia	28,486	14,462	50.8
Florida	945,960	484,409	51.2
Georgia	535,291	260,836	48.7
Hawaii	55,255	31,027	56.2
Idaho	88,337	40,143	45.4
Illinois	549,968	238,977	43.5
Indiana	311,910	152,046	48.7
Iowa	142,283	62,790	44.1
Kansas	132,535	61,877	46.7
Kentucky	215,143	115,039	53.5
Louisiana	250,681	128,432	51.2
Maine	42,262	21,512	50.9
Maryland	237,998	142,381	59.8
Massachusetts	210,874	113,509	53.8
Michigan	437,390	242,002	55.3
Minnesota	208,727	118,281	56.7
Mississippi	187,174	88,260	47.2
Missouri	283,174	132,948	46.9
Montana	46,828	18,387	39.3
Nebraska	86,645	37,306	43.1

State ^a	Eligibles	Participants	Coverage Rate (Percent)
Nevada	141,662	72,415	51.1
New Hampshire	35,416	14,627	41.3
New Jersey	316,238	160,382	50.7
New Mexico	127,906	54,291	42.4
New York	876,817	468,973	53.5
North Carolina	480,251	247,384	51.5
North Dakota	26,373	12,433	47.1
Ohio	507,598	242,104	47.7
Oklahoma	228,713	111,670	48.8
Oregon	181,220	96,979	53.5
Pennsylvania	489,575	244,071	49.9
Puerto Rico	192,583	163,785	85.0
Rhode Island	37,248	20,543	55.2
South Carolina	228,293	112,347	49.2
South Dakota	39,846	19,385	48.6
Tennessee	341,855	147,922	43.3
Texas	1,586,534	878,398	55.4
Utah	156,990	58,237	37.1
Vermont	20,966	13,520	64.5
Virginia	306,759	138,478	45.1
Washington	326,252	174,526	53.5
West Virginia	84,718	41,261	48.7
Wisconsin	214,494	104,116	48.5
Wyoming	24,095	10,894	45.2
FNS Region			
Northeast	1,331,395	703,399	52.8
Mid-Atlantic	1,698,288	927,895	54.6
Southeast	3,176,471	1,587,489	50.0
Midwest	2,230,087	1,097,525	49.2
Southwest	2,368,678	1,256,972	53.1
Mountain Plains	1,159,729	504,430	43.5
Western	3,097,855	1,862,049	60.1
Total	15,062,503	7,939,758	52.7

Notes

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

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

Table B.2. WIC Eligibles and Coverage Rates by FNS Region and States in Each Region: CY 2015

Region and State	Eligibles	Participants	Coverage Rate
Northeast	1,331,395	703,399	52.8
Connecticut	107,811	50,716	47.0
Maine	42,262	21,512	50.9
Massachusetts	210,874	113,509	53.8
New Hampshire	35,416	14,627	41.3
New York	876,817	468,973	53.5
Rhode Island	37,248	20,543	55.2
Vermont	20,966	13,520	64.5
Mid-Atlantic	1,698,288	927,895	54.6
Delaware	36,272	18,728	51.6
District of Columbia	28,486	14,462	50.8
Maryland	237,998	142,381	59.8
New Jersey	316,238	160,382	50.7
Pennsylvania	489,575	244,071	49.9
Puerto Rico	192,583	163,785	85.0
Virginia	306,759	138,478	45.1
West Virginia	84,718	41,261	48.7
Southeast	3,176,471	1,587,489	50.0
Alabama	242,502	131,294	54.1
Florida	945,960	484,409	51.2
Georgia	535,291	260,836	48.7
Kentucky	215,143	115,039	53.5
Mississippi	187,174	88,260	47.2
North Carolina	480,251	247,384	51.5
South Carolina	228,293	112,347	49.2
Tennessee	341,855	147,922	43.3
Midwest	2,230,087	1,097,525	49.2
Illinois	549,968	238,977	43.5
Indiana	311,910	152,046	48.7
Michigan	437,390	242,002	55.3
Minnesota	208,727	118,281	56.7
Ohio	507,598	242,104	47.7
Wisconsin	214,494	104,116	48.5
Southwest	2,368,678	1,256,972	53.1
Arkansas	174,843	84,180	48.1
Louisiana	250,681	128,432	51.2
New Mexico	127,906	54,291	42.4
Oklahoma	228,713	111,670	48.8
Texas	1,586,534	878,398	55.4

Region and State	Eligibles	Participants	Coverage Rate
Mountain Plains	1,159,729	504,430	43.5
Colorado	220,959	90,174	40.8
Iowa	142,283	62,790	44.1
Kansas	132,535	61,877	46.7
Missouri	283,174	132,948	46.9
Montana	46,828	18,387	39.3
Nebraska	86,645	37,306	43.1
North Dakota	26,373	12,433	47.1
South Dakota	39,846	19,385	48.6
Utah	156,990	58,237	37.1
Wyoming	24,095	10,894	45.2
Western	3,097,855	1,862,049	60.1
Alaska	39,888	19,584	49.1
Arizona	329,219	167,106	50.8
California	1,911,706	1,243,411	65.0
Hawaii	55,255	31,027	56.2
Idaho	88,337	40,143	45.4
Nevada	141,662	72,415	51.1
Oregon	181,220	96,979	53.5
Washington	326,252	174,526	53.5
Total	15,062,503	7,939,758	52.7

Notes

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.

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

Table B.3. WIC Eligibles, Participants, and Coverage Rates by FNS Region and Participant Group: CY 2015

Region	Infants	Children (Aged 1–4)	Pregnant Women	All Postpartum Women	Total
Eligibles					
Northeast	216,978	818,395	141,512	154,510	1,331,395
Mid-Atlantic	281,006	1,049,675	183,271	184,337	1,698,288
Southeast	539,363	1,951,240	351,771	334,096	3,176,471
Midwest	370,624	1,384,142	241,719	233,602	2,230,087
Southwest	399,527	1,457,684	260,570	250,896	2,368,678
Mountain Plains	197,829	698,992	129,023	133,885	1,159,729
Western	501,360	1,908,721	326,985	360,789	3,097,855
Total	2,506,686	9,268,848	1,634,852	1,652,116	15,062,503
Participants					
Northeast	162,520	377,248	63,874	99,756	703,399
Mid-Atlantic	221,915	495,536	90,603	119,841	927,895
Southeast	411,097	781,657	158,204	236,532	1,587,489
Midwest	285,261	558,064	106,851	147,349	1,097,525
Southwest	320,797	605,405	125,326	205,443	1,256,972
Mountain Plains	127,647	254,229	48,164	74,390	504,430
Western	398,433	1,039,015	165,227	259,373	1,862,049
Total	1,927,670	4,111,154	758,250	1,142,685	7,939,758
Coverage Rates (Percents)					
Northeast	74.9	46.1	45.1	64.6	52.8
Mid-Atlantic	79.0	47.2	49.4	65.0	54.6
Southeast	76.2	40.1	45.0	70.8	50.0
Midwest	77.0	40.3	44.2	63.1	49.2
Southwest	80.3	41.5	48.1	81.9	53.1
Mountain Plains	64.5	36.4	37.3	55.6	43.5
Western	79.5	54.4	50.5	71.9	60.1
Total	76.9	44.4	46.4	69.2	52.7

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

Table B.4. WIC Eligibles Standard Errors by State and FNS Region: CY 2015

State ^a	Eligibles	Standard Error	Coefficient of Variation ^b (Percent)
Alabama	242,502	14,224	5.9
Alaska	39,888	4,683	11.7
Arizona	329,219	17,626	5.4
Arkansas	174,843	11,368	6.5
California	1,911,706	61,277	3.2
Colorado	220,959	13,444	6.1
Connecticut	107,811	8,942	8.3
Delaware	36,272	5,014	13.8
District of Columbia	28,486	4,265	15.0
Florida	945,960	35,717	3.8
Georgia	535,291	24,020	4.5
Hawaii	55,255	6,487	11.7
Idaho	88,337	7,746	8.8
Illinois	549,968	24,292	4.4
Indiana	311,910	16,010	5.1
Iowa	142,283	8,768	6.2
Kansas	132,535	9,361	7.1
Kentucky	215,143	12,397	5.8
Louisiana	250,681	14,890	5.9
Maine	42,262	4,651	11.0
Maryland	237,998	14,563	6.1
Massachusetts	210,874	13,068	6.2
Michigan	437,390	18,904	4.3
Minnesota	208,727	11,384	5.5
Mississippi	187,174	12,592	6.7
Missouri	283,174	15,133	5.3
Montana	46,828	4,890	10.4
Nebraska	86,645	6,877	7.9
Nevada	141,662	10,766	7.6
New Hampshire	35,416	4,585	12.9
New Jersey	316,238	17,243	5.5
New Mexico	127,906	10,125	7.9
New York	876,817	33,736	3.8
North Carolina	480,251	21,765	4.5
North Dakota	26,373	3,306	12.5
Ohio	507,598	22,111	4.4
Oklahoma	228,713	11,631	5.1
Oregon	181,220	12,428	6.9
Pennsylvania	489,575	20,814	4.3
Puerto Rico	192,583	11,648	6.0
Rhode Island	37,248	4,909	13.2

State ^a	Eligibles	Standard Error	Coefficient of Variation ^b (Percent)
South Carolina	228,293	14,115	6.2
South Dakota	39,846	4,304	10.8
Tennessee	341,855	17,983	5.3
Texas	1,586,534	53,065	3.3
Utah	156,990	11,426	7.3
Vermont	20,966	2,801	13.4
Virginia	306,759	16,323	5.3
Washington	326,252	17,466	5.4
West Virginia	84,718	7,286	8.6
Wisconsin	214,494	11,556	5.4
Wyoming	24,095	3,766	15.6
FNS Region^c			
Northeast	1,331,395	47,590	3.6
Mid-Atlantic	1,500,048	52,017	3.5
Southeast	3,176,471	96,038	3.0
Midwest	2,230,087	71,121	3.2
Southwest	2,368,678	74,985	3.2
Mountain Plains	1,159,729	43,189	3.7
Western	3,073,539	93,228	3.0
Total	14,839,946	390,460	2.6

Notes

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

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

^c Estimates for the U.S. territories are not included in regional totals or standard errors.

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

Table B.5. WIC Eligibles Standard Errors by FNS Region and State: CY 2015

Region and State	Eligibles	Standard Error	Coefficient of Variation
Northeast	1,331,395	47,590	3.6
Connecticut	107,811	8,942	8.3
Maine	42,262	4,651	11.0
Massachusetts	210,874	13,068	6.2
New Hampshire	35,416	4,585	12.9
New York	876,817	33,736	3.8
Rhode Island	37,248	4,909	13.2
Vermont	20,966	2,801	13.4
Mid-Atlantic	1,500,048	52,017	3.5
Delaware	36,272	5,014	13.8
District of Columbia	28,486	4,265	15.0
Maryland	237,998	14,563	6.1
New Jersey	316,238	17,243	5.5
Pennsylvania	489,575	20,814	4.3
Virginia	306,759	16,323	6.0
West Virginia	84,718	7,286	5.3
Southeast	3,176,471	96,038	3.0
Alabama	242,502	14,224	5.9
Florida	945,960	35,717	3.8
Georgia	535,291	24,020	4.5
Kentucky	215,143	12,397	5.8
Mississippi	187,174	12,592	6.7
North Carolina	480,251	21,765	4.5
South Carolina	228,293	14,115	6.2
Tennessee	341,855	17,983	5.3
Midwest	2,230,087	71,121	3.2
Illinois	549,968	24,292	4.4
Indiana	311,910	16,010	5.1
Michigan	437,390	18,904	4.3
Minnesota	208,727	11,384	5.5
Ohio	507,598	22,111	4.4
Wisconsin	214,494	11,556	5.4
Southwest	2,368,678	74,985	3.2
Arkansas	174,843	11,368	6.5
Louisiana	250,681	14,890	5.9
New Mexico	127,906	10,125	7.9
Oklahoma	228,713	11,631	5.1
Texas	1,586,534	53,065	3.3

Region and State	Eligibles	Standard Error	Coefficient of Variation
Mountain Plains	1,159,729	43,189	3.7
Colorado	220,959	13,444	6.1
Iowa	142,283	8,768	6.2
Kansas	132,535	9,361	7.1
Missouri	283,174	15,133	5.3
Montana	46,828	4,890	10.4
Nebraska	86,645	6,877	7.9
North Dakota	26,373	3,306	12.5
South Dakota	39,846	4,304	10.8
Utah	156,990	11,426	7.3
Wyoming	24,095	3,766	15.6
Western	3,073,539	93,228	3.0
Alaska	39,888	4,683	11.7
Arizona	329,219	17,626	5.4
California	1,911,706	61,277	3.2
Hawaii	55,255	6,487	11.7
Idaho	88,337	7,746	8.8
Nevada	141,662	10,766	7.6
Oregon	181,220	12,428	6.9
Washington	326,252	17,466	5.4
Total	14,839,946	390,460	2.6

Notes

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

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

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

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

Table B.6. Standard Errors for WIC Eligibles by FNS Region and Participant Category: CY 2015

Region	Infants	Children (Aged 1-4)	Pregnant Women	All Postpartum Women	Total
Eligibles^a					
Northeast	216,978	818,395	141,512	154,510	1,331,395
Mid-Atlantic	248,116	927,463	161,820	162,649	1,500,048
Southeast	539,363	1,951,240	351,771	334,096	3,176,471
Midwest	370,624	1,384,142	241,719	233,602	2,230,087
Southwest	399,527	1,457,684	260,570	250,896	2,368,678
Mountain Plains	197,829	698,992	129,023	133,885	1,159,729
Western	497,015	1,894,449	324,151	357,924	3,073,539
Total	2,469,451	9,132,365	1,610,567	1,627,562	14,839,946
Standard Error^a					
Northeast	17,325	33,345	12,872	13,471	47,590
Mid-Atlantic	19,035	36,396	14,036	13,940	52,017
Southeast	34,291	63,709	24,107	23,267	96,038
Midwest	25,562	48,773	18,397	17,895	71,121
Southwest	27,073	50,732	19,393	18,834	74,985
Mountain Plains	16,257	29,938	12,140	12,263	43,189
Western	32,117	62,224	22,695	24,518	93,228
Total	131,010	246,517	85,445	86,346	390,460
Coefficient of Variation^b (Percents)					
Northeast	8.0	4.1	9.1	8.7	3.6
Mid-Atlantic	7.7	3.9	8.7	8.6	3.5
Southeast	6.4	3.3	6.9	7.0	3.0
Midwest	6.9	3.5	7.6	7.7	3.2
Southwest	6.8	3.5	7.4	7.5	3.2
Mountain Plains	8.2	4.3	9.4	9.2	3.7
Western	6.5	3.3	7.0	6.9	3.0
Total	5.3	2.7	5.3	5.3	2.6

Notes

^a Estimates for the U.S. territories are not included in regional totals or standard errors.

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

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

Table B.7a. Adjustments for Calculating the Average Monthly Number of WIC-Eligible Individuals in Puerto Rico by Participant Group: CY 2015

Puerto Rico	Infants	Children Aged 1	Children Aged 2	Children Aged 3	Children Aged 4	Total Children Aged 1–4	Pregnant Women	Postpartum Breastfeeding Women	Postpartum Nonbreastfeeding Women	Total
Total number of infants/children in the PRCS	30,958	30,554	31,977	38,091	41,318	141,940	–	–	–	172,898
Number after adjustment for PRCS undercount/overcount	33,548	33,560	34,736	36,431	36,600	141,327	–	–	–	174,875
Number with annual income < 185 percent of the Federal Poverty Guidelines	26,872	28,126	27,432	28,350	29,796	113,704	–	–	–	140,576
Number adjunctively eligible and with annual income > 185 percent of the Federal Poverty Guidelines ^a	2,008	1,179	2,195	863	833	5,069	–	–	–	7,077
Through Medicaid	1,057	289	1,617	360	293	2,559	–	–	–	3,616
Through SNAP	713	815	578	503	372	2,268	–	–	–	2,981
Through TANF	238	75	0	0	167	242	–	–	–	481
Total number income and adjunctively eligible	28,880	29,305	29,627	29,213	30,629	118,774	–	–	–	147,653
Number after adjustment for monthly income and certification periods	32,923	32,923	32,923	32,923	32,923	131,691	–	–	–	164,614
Total number eligible: Number after adjustment for nutritional risk (infants and children)	31,935	29,302	29,624	29,210	30,626	118,762	–	–	–	150,697
Starting point for estimates of women is fully eligible infants	–	–	–	–	–	–	31,935	31,935	31,935	95,805
Number after adjustment for length of pregnancy and income of woman during pregnancy	–	–	–	–	–	–	21,556	–	–	21,556
Number after adjustment for multiple births and infant deaths	–	–	–	–	–	–	21,472	31,811	31,811	85,093
Number after adjustment for breastfeeding	–	–	–	–	–	–	–	13,201	7,857	21,059
Total number eligible: Number after adjustment for nutritional risk (pregnant and postpartum women)	–	–	–	–	–	–	20,828	13,201	7,857	41,886

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 WIC-Eligible Individuals in the Other U.S. Territories by Participant Group: CY 2015

Other U.S. Territories	Infants	Children Aged 1	Children Aged 2	Children Aged 3	Children Aged 4	Total Children Aged 1-4	Pregnant Women	Postpartum Breastfeeding Women	Postpartum Nonbreastfeeding Women	Total
Total number of infants and children aged 0-4 in the other U.S. territories	5,961	5,921	5,860	5,800	5,726	23,307	-	-	-	29,268
Number after the other territories' full-eligibility factor	4,793	4,502	4,456	4,410	4,354	17,723	-	-	-	22,516
Number after monthly income adjustment	5,464	4,547	4,501	4,455	4,398	17,900	-	-	-	23,365
Total number eligible: Number after adjustment for nutritional risk (infants and children)	5,300	4,502	4,456	4,410	4,354	17,721	-	-	-	23,022
Starting point for estimates of women is fully eligible infants	-	-	-	-	-	-	5,300	5,300	5,300	15,901
Number after adjustment for length of pregnancy and income of woman during pregnancy	-	-	-	-	-	-	3,578	-	-	3,578
Number after adjustment for multiple births and infant deaths	-	-	-	-	-	-	3,564	5,280	5,280	14,123
Number after adjustment for breastfeeding	-	-	-	-	-	-	-	2,191	1,304	3,495
Total number eligible: Number after adjustment for nutritional risk (pregnant and postpartum women)	-	-	-	-	-	-	3,457	2,191	1,304	6,952
Total eligibles for other U.S. territories	37,235	33,804	34,080	33,620	34,979	136,483	24,285	15,392	9,161	222,557

Notes
 “-” denotes blank cells.
 Source: U.S. Census Bureau, n.d.d

Table B.8a. Regional Estimates of the Average Monthly Numbers of WIC-Eligible Infants and Children (Aged 1–4) by Demographic and Income Characteristics: CY 2015 (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	217,756	779,411	997,168	251,721	843,444	1,095,166	500,772	2,133,116	2,633,888	378,325	1,440,073	1,818,398
Gender	–	–	–	–	–	–	–	–	–	–	–	–
Male	49.6	48.3	48.6	48.1	52.8	51.7	45.8	50.2	49.3	49.3	46.7	47.2
Female	50.4	51.7	51.4	51.9	47.2	48.3	54.2	49.8	50.7	50.7	53.3	52.8
Race	–	–	–	–	–	–	–	–	–	–	–	–
White	61.8	67.2	66.0	55.7	68.5	65.6	63.5	59.2	60.0	65.3	68.1	67.5
Black	23.7	18.2	19.4	31.2	23.3	25.2	26.7	32.4	31.3	28.4	21.1	22.6
Other	14.5	14.7	14.6	13.1	8.1	9.3	9.9	8.5	8.7	6.3	10.9	9.9
Ethnicity	–	–	–	–	–	–	–	–	–	–	–	–
Hispanic	29.7	30.9	30.6	28.5	28.6	28.5	22.8	20.9	21.3	21.3	21.8	21.7
Non-Hispanic	70.3	69.1	69.4	71.5	71.4	71.5	77.2	79.1	78.7	78.7	78.2	78.3
Living arrangement	–	–	–	–	–	–	–	–	–	–	–	–
Two-parent family	55.6	56.1	56.0	59.5	58.3	58.6	59.6	48.6	50.7	54.9	56.7	56.3
Single parent family	35.9	39.7	38.9	35.4	33.2	33.7	38.2	44.3	43.1	40.9	39.0	39.4
No parent family	2.5	1.8	1.9	4.4	4.9	4.7	1.4	5.1	4.4	3.0	2.8	2.9
Related nonparent caretaker	6.1	2.4	3.2	0.8	3.6	3.0	0.8	2.0	1.8	1.2	1.5	1.4
Unrelated nonparent caretaker	3.1	6.5	5.7	0.6	6.6	5.3	5.1	6.7	6.4	4.1	5.8	5.4
Household size (number of persons)	–	–	–	–	–	–	–	–	–	–	–	–
2	3.1	6.5	5.7	0.6	6.6	5.3	5.1	6.7	6.4	4.1	5.8	5.4
3	29.1	25.6	26.3	21.9	19.6	20.1	27.1	20.8	22.0	25.9	18.9	20.3
4	29.1	29.3	29.3	34.9	29.9	31.0	22.3	31.1	29.4	35.2	29.0	30.3
5	17.6	22.1	21.1	17.8	21.5	20.6	20.4	19.7	19.8	22.1	23.2	23.0
6 or more	21.1	16.5	17.5	24.8	22.4	23.0	25.1	21.8	22.4	12.8	23.1	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
Percent with working parent(s)	61.3	77.9	74.3	62.5	68.3	66.9	68.8	74.1	73.1	63.7	73.4	71.4
Annual family income relative to FPG	–	–	–	–	–	–	–	–	–	–	–	–
No income	6.1	5.0	5.2	4.0	4.7	4.5	3.6	5.1	4.8	4.4	4.4	4.4
Up to 50% FPG	9.3	12.7	12.0	12.3	13.6	13.3	11.3	13.6	13.1	19.3	12.4	13.9
More than 50% up to 100% FPG	18.5	16.3	16.8	14.2	18.3	17.4	20.1	22.1	21.7	13.3	17.5	16.6
More than 100% up to 130% FPG	10.0	12.3	11.8	21.5	11.2	13.6	16.6	13.5	14.1	8.7	12.4	11.6
More than 130% up to 150% FPG	9.8	5.4	6.3	8.8	6.6	7.1	8.5	8.4	8.4	9.2	8.0	8.3
More than 150% up to 185% FPG	11.2	10.4	10.6	17.6	11.9	13.2	14.0	13.6	13.7	17.9	17.9	17.9
More than 185% up to 200% FPG	6.5	2.7	3.5	2.0	5.7	4.8	1.0	2.4	2.1	2.9	3.0	3.0
More than 200% FPG	28.7	35.2	33.8	19.6	28.0	26.1	25.0	21.3	22.0	24.3	24.3	24.3
Benefit receipt	–	–	–	–	–	–	–	–	–	–	–	–
No benefit receipt	12.0	12.4	12.3	13.4	14.6	14.3	19.8	18.1	18.4	18.5	14.9	15.7
Medicaid, SNAP and TANF	10.4	7.1	7.8	5.7	6.2	6.1	0.0	3.5	2.8	6.4	2.9	3.7
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	24.4	27.2	26.6	36.8	28.6	30.5	31.1	35.8	34.9	29.3	36.7	35.1
Medicaid and TANF only	1.9	0.3	0.7	0.4	0.3	0.3	0.0	0.1	0.1	0.0	0.4	0.3
SNAP only	4.3	8.4	7.5	6.9	5.6	5.9	7.8	6.1	6.4	4.0	3.9	3.9
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	47.0	44.6	45.1	36.7	44.7	42.9	41.3	36.4	37.3	41.8	41.2	41.3

Notes
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 the U.S. territories.
FPG = Federal Poverty Guidelines
“–” denotes blank cells.
Sources: IPUMS-USA, n.d.; NBER, n.d.

Table B.8a (continued). Regional Estimates of the Average Monthly Numbers of WIC-Eligible Infants and Children (Aged 1–4) by Demographic and Income Characteristics: CY 2015 (Fully Adjusted Weights, Percentages)

Demographic 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	425,116	1,442,640	1,867,756	217,547	696,886	914,433	478,214	1,796,794	2,275,008	2,469,451	9,132,365	11,601,816
Gender	–	–	–	–	–	–	–	–	–	–	–	–
Male	48.7	51.7	51.0	52.9	48.8	49.7	54.2	51.3	51.9	49.7	50.1	50.0
Female	51.3	48.3	49.0	47.1	51.2	50.3	45.8	48.7	48.1	50.3	49.9	50.0
Race	–	–	–	–	–	–	–	–	–	–	–	–
White	70.7	68.3	68.8	73.1	77.4	76.4	78.4	73.0	74.1	67.8	67.7	67.7
Black	21.2	21.1	21.1	14.4	9.9	11.0	3.5	8.2	7.2	20.6	20.3	20.4
Other	8.1	10.6	10.1	12.5	12.7	12.6	18.1	18.8	18.6	11.6	12.0	11.9
Ethnicity	–	–	–	–	–	–	–	–	–	–	–	–
Hispanic	41.7	44.9	44.2	18.0	25.3	23.5	59.5	56.1	56.8	33.7	33.7	33.7
Non-Hispanic	58.3	55.1	55.8	82.0	74.7	76.5	40.5	43.9	43.2	66.3	66.3	66.3
Living arrangement	–	–	–	–	–	–	–	–	–	–	–	–
Two-parent family	64.5	53.5	56.0	71.1	59.8	62.5	74.3	63.8	66.0	63.2	56.0	57.6
Single-parent family	30.9	40.9	38.6	26.0	36.4	33.9	22.1	31.5	29.5	32.7	38.4	37.2
No-parent family	3.3	3.8	3.7	2.1	3.3	3.0	2.3	3.9	3.5	2.6	3.9	3.6
Related nonparent caretaker	1.3	1.8	1.7	0.9	0.6	0.7	1.3	0.9	1.0	1.5	1.8	1.7
Unrelated nonparent caretaker	2.0	5.0	4.3	2.8	7.3	6.2	1.1	3.1	2.7	2.8	5.6	5.0
Number of people in household	–	–	–	–	–	–	–	–	–	–	–	–
2	2.0	5.0	4.3	2.8	7.3	6.2	1.1	3.1	2.7	2.8	5.6	5.0
3	29.6	21.4	23.3	19.6	22.2	21.6	18.9	17.4	17.7	24.7	20.3	21.3
4	20.6	31.0	28.7	36.7	27.0	29.3	31.7	27.2	28.2	29.0	29.4	29.3
5	22.5	20.9	21.2	17.2	20.3	19.5	21.4	24.3	23.7	20.4	21.8	21.5
6 or more	25.2	21.7	22.5	23.7	23.3	23.4	26.9	28.0	27.8	23.1	22.9	23.0

Demographic 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
Number with working parent(s)	72.0	73.9	73.4	75.5	76.7	76.4	72.4	73.7	73.4	68.6	73.8	72.7
Annual family income relative to FPG	–	–	–	–	–	–	–	–	–	–	–	–
No income	3.2	5.5	5.0	0.9	1.8	1.6	1.8	3.3	3.0	3.3	4.4	4.2
Up to 50% FPG	9.6	12.6	11.9	7.2	12.1	11.0	9.8	12	11.6	11.5	12.8	12.5
More than 50% up to 100% FPG	18.2	19.0	18.8	13.0	16.1	15.4	25.6	18.9	20.3	18.4	18.9	18.8
More than 100% up to 130% FPG	17.2	15.4	15.8	22.1	13.2	15.4	11.2	13.7	13.1	14.8	13.3	13.6
More than 130% up to 150% FPG	5.4	6.5	6.3	14.3	9.6	10.7	10.7	8.9	9.3	9.2	7.8	8.1
More than 150% up to 185% FPG	12.8	15.3	14.7	17.4	13.8	14.7	15.0	15.2	15.2	15	14.5	14.6
More than 185% up to 200% FPG	3.5	3.3	3.4	5.3	4.6	4.8	2.2	3.4	3.1	2.9	3.3	3.2
More than 200% FPG	30.0	22.4	24.2	19.8	28.6	26.5	23.7	24.5	24.4	24.8	25.0	24.9
Benefit receipt	–	–	–	–	–	–	–	–	–	–	–	–
No benefit receipt	15.1	19.2	18.3	21.1	17.5	18.4	15.4	15.4	15.4	16.7	16.4	16.5
Medicaid, SNAP and TANF	0.8	1.5	1.4	5.6	5.2	5.3	8.5	6.1	6.6	4.7	4.3	4.4
SNAP and TANF only	–	–	–	–	–	–	–	–	–	–	–	–
Medicaid and SNAP only	27.8	33.8	32.4	34.2	29.0	30.2	29.8	30.1	30.0	30.3	32.6	32.1
Medicaid and TANF only	0.8	–	0.2	–	0.2	0.1	1.6	0.5	0.7	0.7	0.3	0.3
SNAP only	2.6	4.0	3.7	8.2	5.4	6.1	3.7	7.2	6.4	5.1	5.7	5.6
TANF only	–	–	–	–	–	–	–	–	–	–	–	–
Medicaid only	53.0	41.4	44.1	31.0	42.6	39.8	41.0	40.8	40.8	42.5	40.7	41.1

Notes
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 the U.S. territories.
FPG = Federal Poverty Guidelines
“–” denotes blank cells.
Sources: IPUMS-USA, n.d.; NBER, n.d.

Table B.9. Coverage Rates by State: CY 2005–CY 2015

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

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

Table B.10. WIC Coverage Rates (Percentages) by State and Participant Category With Margins of Error (MOE) for 90-Percent Confidence Intervals: CY 2015

State	Infants		Children Aged 1		Children Aged 2		Children Aged 3		Children Aged 4		Pregnant Women		Postpartum Women		Total	
	Rate	MOE	Rate	MOE	Rate	MOE	Rate	MOE	Rate	MOE	Rate	MOE	Rate	MOE	Rate	MOE
Alabama	79.9	17.7	60.2	14.2	48.4	11.8	38.2	9.1	28.1	6.6	56.0	15.0	70.5	19.8	54.1	5.2
Alaska	80.8	41.7	60.4	30.2	37.0	16.7	36.6	17.4	26.4	12.2	54.5	34.6	64.7	37.2	49.1	9.5
Arizona	77.1	15.9	58.5	12.8	41.0	8.8	36.6	7.8	34.1	7.3	38.9	9.6	68.1	16.2	50.8	4.5
Arkansas	76.9	19.2	58.7	16.0	34.8	9.0	29.8	7.8	23.6	6.5	49.0	14.8	66.7	20.5	48.1	5.2
California	84.1	9.7	73.2	8.6	61.6	7.2	60.7	7.1	42.8	5.0	55.1	7.1	77.2	9.4	65.0	3.4
Colorado	59.2	14.1	51.1	12.8	32.7	7.8	30.4	7.4	22.6	5.8	34.6	10.0	55.9	15.3	40.8	4.1
Connecticut	72.8	24.3	60.6	21.1	49.0	17.7	33.0	10.8	22.0	7.3	45.1	18.4	49.7	19.4	47.0	6.4
Delaware	91.0	53.1	67.3	37.7	37.4	20.2	39.4	23.0	14.7	8.2	56.0	40.3	69.0	50.1	51.6	11.7
District of Columbia	93.3	57.9	54.3	33.0	41.9	28.0	33.6	21.60	17.1	9.5	45.5	35.0	86.3	64.5	50.8	12.5
Florida	75.7	10.5	60.4	8.6	47.9	6.9	39.0	5.6	21.8	3.1	46.6	7.5	67.8	10.6	51.2	3.2
Georgia	71.4	12.1	51.3	9.1	45.4	8.0	40.4	7.2	22.7	3.9	31.0	6.1	82.9	16.4	48.7	3.6
Hawaii	76.3	35.5	67.3	34.7	51.8	25.7	39.4	18.7	44.6	22.7	45.4	26.0	66.3	34.8	56.2	10.9
Idaho	66.6	23.6	50.1	17.7	40.0	14.8	35.7	13.0	27.3	10.0	40.0	17.4	57.2	22.5	45.4	6.6
Illinois	74.9	12.8	46.3	8.0	41.1	7.1	28.9	4.9	16.6	2.9	42.6	8.6	58.9	11.8	43.5	3.2
Indiana	75.9	15.2	53.9	10.8	40.9	8.4	36.0	7.4	26.8	5.5	41.1	9.9	70.8	17.0	48.7	4.1
Iowa	63.3	14.7	61.2	16.0	38.6	9.4	35.9	9.3	18.5	4.7	33.0	9.3	55.1	14.9	44.1	4.5
Kansas	69.1	19.1	60.8	18.9	37.2	10.3	36.6	10.6	27.2	7.8	42.5	14.3	56.7	18.8	46.7	5.4
Kentucky	82.0	18.3	56.6	12.8	50.1	12.2	37.0	8.4	30.5	7.2	53.2	14.3	67.1	18.3	53.5	5.1
Louisiana	88.6	20.5	57.3	14.0	37.6	8.9	31.0	7.3	22.5	5.4	52.4	14.7	79.7	23.3	51.2	5.0
Maine	65.1	27.3	65.5	31.5	53.7	26.2	47.4	22.2	32.7	15.3	36.9	19.0	50.2	24.1	50.9	9.2
Maryland	80.7	18.7	87.8	23.4	55.1	13.6	49.8	12.7	27.8	6.7	52.8	14.8	66.8	17.7	59.8	6.0
Massachusetts	74.6	18.3	68.7	17.2	51.2	13.0	49.6	12.4	21.8	5.5	46.3	13.8	63.7	17.8	53.8	5.5

State	Infants		Children Aged 1		Children Aged 2		Children Aged 3		Children Aged 4		Pregnant Women		Postpartum Women		Total	
	Rate	MOE	Rate	MOE	Rate	MOE	Rate	MOE	Rate	MOE	Rate	MOE	Rate	MOE	Rate	MOE
Michigan	82.3	13.5	53.6	8.9	51.8	8.8	43.1	7.2	41.5	7.0	52.8	10.1	61.0	11.6	55.3	3.9
Minnesota	78.9	16.9	66.9	14.7	48.2	10.2	50.2	11.1	35.5	7.9	46.9	12.1	68.8	16.5	56.7	5.1
Mississippi	78.2	20.3	51.3	14.2	38.1	10.7	31.9	8.7	23.5	6.3	42.0	13.2	68.4	22.6	47.2	5.2
Missouri	75.8	15.6	52.8	11.1	37.8	8.3	30.9	6.6	23.4	5.0	45.8	11.3	64.1	15.6	46.9	4.1
Montana	64.5	28.3	48.4	21.3	29.8	12.2	34.3	15.9	16.8	6.7	39.8	21.5	50.7	25.4	39.3	6.7
Nebraska	56.4	16.7	50.2	16.8	44.0	15.5	41.6	14.8	27.7	8.8	29.7	10.7	48.4	16.7	43.1	5.6
Nevada	73.4	21.9	60.5	19.5	42.7	13.0	42.0	13.4	32.7	10.2	39.0	14.2	67.2	23.6	51.1	6.4
New Hampshire	72.9	41.6	51.7	29.0	33.8	17.2	26.2	12.8	22.6	11.7	41.9	29.5	56.3	37.2	41.3	8.8
New Jersey	66.7	13.9	69.2	15.5	44.9	9.7	42.1	9.4	30.3	6.7	39.6	9.9	59.8	14.1	50.7	4.6
New Mexico	69.4	23.1	46.8	14.3	35.4	11.3	32.5	10.7	18.4	5.8	40.0	16.3	63.5	24.7	42.4	5.5
New York	76.0	11.0	65.3	9.6	51.2	7.6	44.7	6.5	24.1	3.54	45.6	7.62	67.8	10.6	53.5	3.4
North Carolina	76.5	13.2	60.3	10.7	48.8	8.9	44.3	7.8	17.9	3.17	45.3	9.3	70.4	14.1	51.5	3.8
North Dakota	72.7	37.0	48.5	23.4	43.0	21.6	38.8	21.5	23.3	13.1	37.7	23.6	61.3	36.6	47.1	9.7
Ohio	75.9	12.3	49.3	8.3	40.1	6.9	37.4	6.5	25.7	4.3	41.3	7.8	63.8	12.3	47.7	3.4
Oklahoma	73.7	14.5	61.2	12.7	46.9	9.3	36.9	7.5	16.7	3.3	50.1	11.8	60.8	14.1	48.8	4.1
Oregon	67.1	17.7	61.9	17.5	52.0	14.9	53.7	16.1	35.0	9.7	46.0	14.7	56.2	16.3	53.5	6.0
Pennsylvania	83.4	13.7	61.6	10.4	45.7	7.6	35.5	5.8	20.3	3.3	47.7	9.3	62.1	11.9	49.9	3.5
Rhode Island	76.1	38.6	69.6	41.6	52.1	29.3	43.6	23.4	38.2	21.7	44.9	28.0	58.0	35.3	55.2	12.0
South Carolina	82.1	19.8	53.7	13.5	38.8	9.9	30.1	7.5	21.9	5.5	49.8	14.5	74.4	22.0	49.2	5.0
South Dakota	69.6	30.2	76.6	36.6	40.2	17.3	35.2	15.1	24.0	11.2	36.5	19.5	60.8	31.1	48.6	8.6
Tennessee	73.3	14.9	53.9	11.4	32.6	6.8	28.9	6.1	11.0	2.3	47.0	11.5	62.0	15.1	43.3	3.7
Texas	81.1	9.7	75.1	9.2	43.9	5.4	39.7	4.9	15.8	2.0	47.6	6.3	88.1	11.6	55.4	3.1
Utah	52.0	14.9	43.7	12.5	33.8	10.3	33.7	10.8	17.5	5.3	29.9	10.5	45.2	14.0	37.1	4.4
Vermont	65.6	33.4	78.4	44.2	85.6	53.1	58.5	31.7	59.1	37.3	39.7	24.9	62.9	35.6	64.5	14.2
Virginia	74.5	15.7	62.3	13.4	34.1	7.2	26.5	5.4	17.6	3.9	45.0	11.4	61.7	15.0	45.1	4.0
Washington	69.8	14.9	58.1	12.3	53.8	11.5	47.2	10.2	34.6	7.5	48.5	12.4	62.2	14.6	53.5	4.7

State	Infants		Children Aged 1		Children Aged 2		Children Aged 3		Children Aged 4		Pregnant Women		Postpartum Women		Total	
	Rate	MOE	Rate	MOE	Rate	MOE	Rate	MOE	Rate	MOE	Rate	MOE	Rate	MOE	Rate	MOE
West Virginia	75.9	26.1	50.4	17.7	39.9	13.7	38.1	13.5	26.7	9.6	46.3	19.5	68.4	29.4	48.7	6.9
Wisconsin	73.4	15.6	58.6	12.8	42.0	8.9	39.4	8.5	27.9	6.0	39.8	10.2	59.2	14.3	48.5	4.3
Wyoming	59.9	36.5	50.4	33.0	42.7	28.5	43.0	31.4	25.3	16.5	36.9	27.7	55.6	38.7	45.2	11.6
Total	76.9	6.7	62.8	5.5	47.0	4.1	41.8	3.6	26.3	2.3	46.4	4.0	69.2	6.0	52.7	2.3

Notes

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 90-percent confidence interval. MOEs for the Total row are for the 50 States and the District of Columbia. MOEs for a 90-percent confidence interval can be interpreted to mean there is a 90-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 Ohio's coverage rate for infants was 75.9 percent in CY 2015, the true rate may have been higher or lower. The chances are 90 in 100 that the true coverage rate was within 12.3 percentage points higher or 12.3 percentage points lower than 75.9 percent, or between 63.6 percent and 88.2 percent.

Sources: IPUMS-USA, n.d.; NBER, n.d.; Thorn et al., 2015; U.S. Census Bureau, n.d.d; unpublished internal WIC administrative data

Table B.11. State-Level WIC Coverage Rates (Percentages) by Race and Ethnicity With Margins of Error (MOE) for 90-Percent Confidence Intervals: CY 2015

State	All Races		White-Only Non-Hispanic		Black-Only and Other Non-Hispanic ^a		Hispanic	
	Rate	MOE	Rate	MOE	Rate	MOE	Rate	MOE
Alabama	54.1	5.2	52.7	7.6	52.6	7.7	67.2	19.0
Alaska	49.1	9.5	38.4	11.2	61.4	17.6	41.4	24.0
Arizona	50.8	4.5	40.5	6.5	62.4	12.6	52.4	6.5
Arkansas	48.1	5.2	47.9	7.0	48.6	9.5	48.4	12.2
California	65.0	3.4	36.5	3.6	65.1	7.0	72.3	5.4
Colorado	40.8	4.1	31.2	4.7	44.6	11.8	49.1	7.4
Connecticut	47.0	6.4	33.1	7.7	52.0	14.2	55.6	11.7
Delaware	51.6	11.7	50.9	21.0	48.7	16.4	58.0	26.5
District of Columbia	50.8	12.5	38.8	55.1	46.3	12.9	72.3	41.5
Florida	51.2	3.2	39.3	4.0	57.1	6.2	57.8	5.8
Georgia	48.7	3.6	42.5	5.1	52.6	6.0	50.7	7.7
Hawaii	56.2	10.8	40.0	18.3	71.9	18.9	36.2	13.0
Idaho	45.4	6.6	38.8	6.8	50.4	28.0	66.0	19.9
Illinois	43.5	3.2	39.3	4.6	41.4	5.3	49.7	6.0
Indiana	48.7	4.1	45.5	5.1	50.8	8.4	59.3	12.2
Iowa	44.1	4.5	38.6	4.9	52.9	12.7	62.2	15.7
Kansas	46.7	5.4	40.0	6.4	48.0	12.4	59.6	13.1
Kentucky	53.5	5.1	53.7	6.2	46.5	9.9	72.4	26.1
Louisiana	51.2	5.0	45.6	7.1	55.3	7.7	51.4	15.9
Maine	50.9	9.2	46.0	9.1	93.4	56.6	92.0	114.1
Maryland	59.8	6.0	42.3	7.7	63.8	9.4	72.7	14.4
Massachusetts	53.8	5.5	47.7	7.7	52.9	10.1	61.5	10.5
Michigan	55.3	4.0	48.7	4.8	62.8	7.7	69.5	13.3
Minnesota	56.7	5.1	42.8	5.3	75.5	12.0	70.7	15.8
Mississippi	47.2	5.2	33.5	5.8	58.1	9.1	43.7	19.1

State	All Races		White-Only Non-Hispanic		Black-Only and Other Non-Hispanic ^a		Hispanic	
	Rate	MOE	Rate	MOE	Rate	MOE	Rate	MOE
Missouri	46.9	4.1	43.7	5.0	52.8	8.9	55.2	15.2
Montana	39.3	6.7	33.4	6.8	53.8	19.6	82.5	78.8
Nebraska	43.1	5.6	36.9	6.9	43.2	11.5	53.8	12.9
Nevada	51.1	6.4	43.6	10.0	51.1	13.5	55.3	9.8
New Hampshire	41.3	8.8	37.1	8.7	60.5	48.9	78.7	65.8
New Jersey	50.7	4.6	43.3	7.3	49.4	8.1	55.6	7.4
New Mexico	42.4	5.5	26.6	7.2	35.7	11.4	49.9	8.5
New York	53.5	3.4	42.7	4.3	62.5	7.0	56.5	5.8
North Carolina	51.5	3.8	49.6	5.8	51.8	6.3	54.4	7.9
North Dakota	47.1	9.7	34.5	8.9	75.3	29.7	60.3	45.3
Ohio	47.7	3.4	42.8	4.1	56.4	7.1	53.6	11.6
Oklahoma	48.8	4.1	39.7	4.8	56.8	8.6	60.0	10.4
Oregon	53.5	6.0	49.1	7.4	46.7	14.2	65.0	13.1
Pennsylvania	49.9	3.5	44.5	4.4	53.4	6.8	60.1	8.9
Rhode Island	55.2	12.0	47.7	16.2	72.8	37.8	55.4	18.4
South Carolina	49.2	5.0	44.8	7.1	49.9	7.5	62.8	18.3
South Dakota	48.6	8.6	38.4	9.1	64.8	19.4	52.7	32.6
Tennessee	43.3	3.7	43.1	5.1	41.9	6.4	47.4	10.5
Texas	55.4	3.1	36.0	3.6	50.8	5.6	63.0	4.9
Utah	37.1	4.4	29.9	4.5	35.3	13.1	56.7	13.3
Vermont	64.5	14.2	61.2	14.6	110.4	82.7	34.6	45.2
Virginia	45.1	4.0	42.5	5.8	45.8	6.4	49.3	9.2
Washington	53.5	4.7	42.8	5.5	56.9	10.5	68.3	10.5
West Virginia	48.7	6.9	46.3	7.2	84.6	45.9	47.3	36.5

State	All Races		White-Only Non-Hispanic		Black-Only and Other Non-Hispanic ^a		Hispanic	
	Rate	MOE	Rate	MOE	Rate	MOE	Rate	MOE
Wisconsin	48.5	4.3	37.8	4.6	60.5	10.2	64.1	12.3
Wyoming	45.2	11.6	44.0	14.2	38.4	25.3	54.0	30.8
Total	52.7	2.3	42.2	2.7	55.0	4.1	62.7	4.2

Notes

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

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

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 90-percent confidence interval. MOEs for the Total row are for the 50 States and the District of Columbia. MOEs for a 90-percent confidence interval can be interpreted to mean there is a 90-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 Ohio's coverage rate for White Non-Hispanic individuals was 53.6 percent in CY 2015, the true rate may have been higher or lower. The chances are 90 in 100 that the true coverage rate was within 11.61 percentage points higher or lower than 53.6 percent, or between 42.0 percent and 65.2 percent.

Sources: IPUMS-USA, n.d.; NBER, n.d.; Thorn et al., 2015; U.S. Census Bureau, n.d.d; unpublished internal WIC administrative data

Appendix C. Coverage Rate Maps

This appendix provides maps of WIC coverage rates at the State and regional levels. The coverage rate is defined as the number of individuals participating in WIC divided by the number estimated to be eligible. Maps are provided that show coverage rates at the FNS regional and State levels for all eligible individuals and for each of four participant categories—infants, children, pregnant women, and postpartum women. This appendix also includes maps that show coverage rates at the State level for each of three race and ethnicity categories—White-Only Non-Hispanic, 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

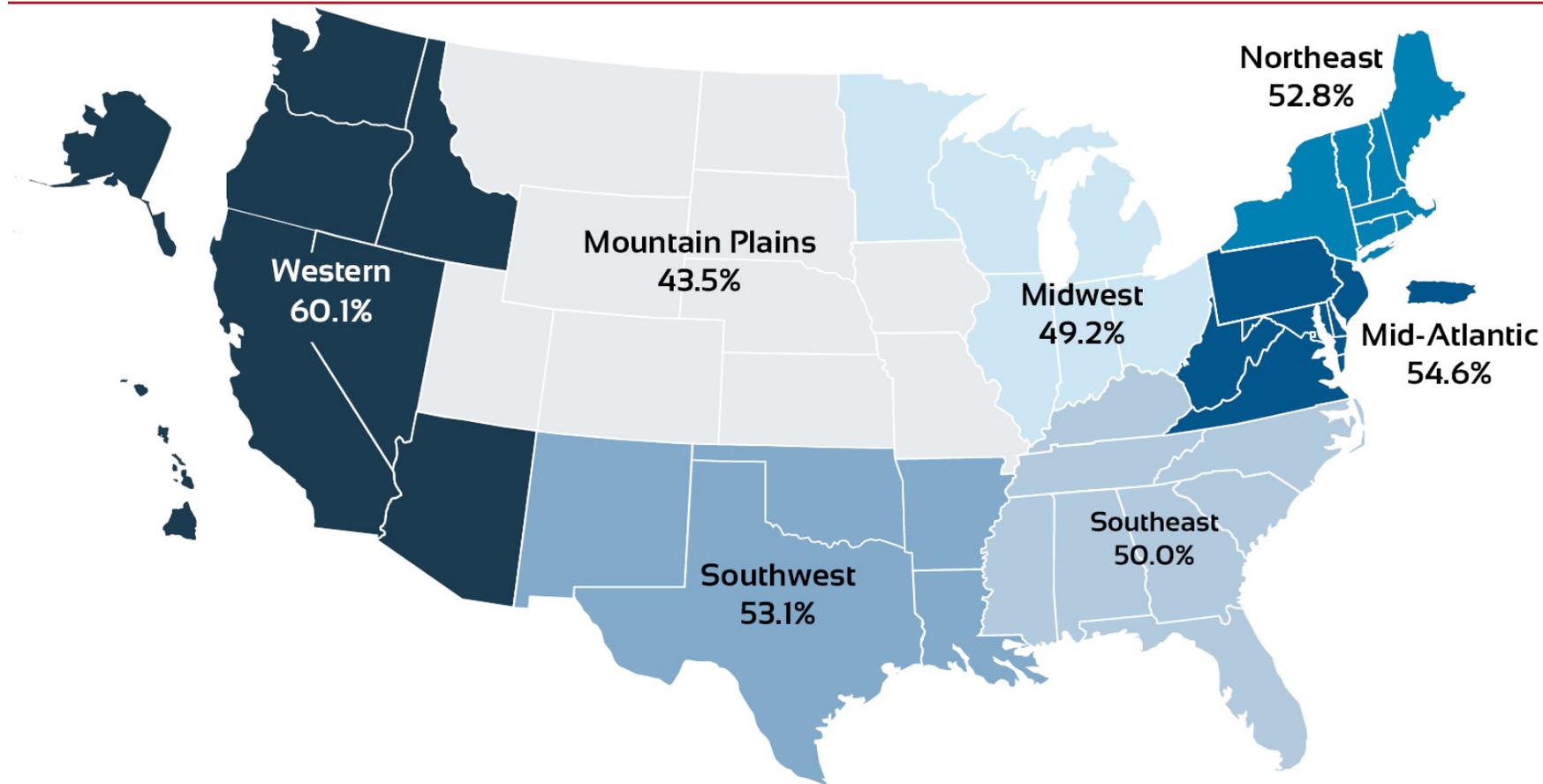
State-Level Coverage Rates by Participant Category

- ▶ 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

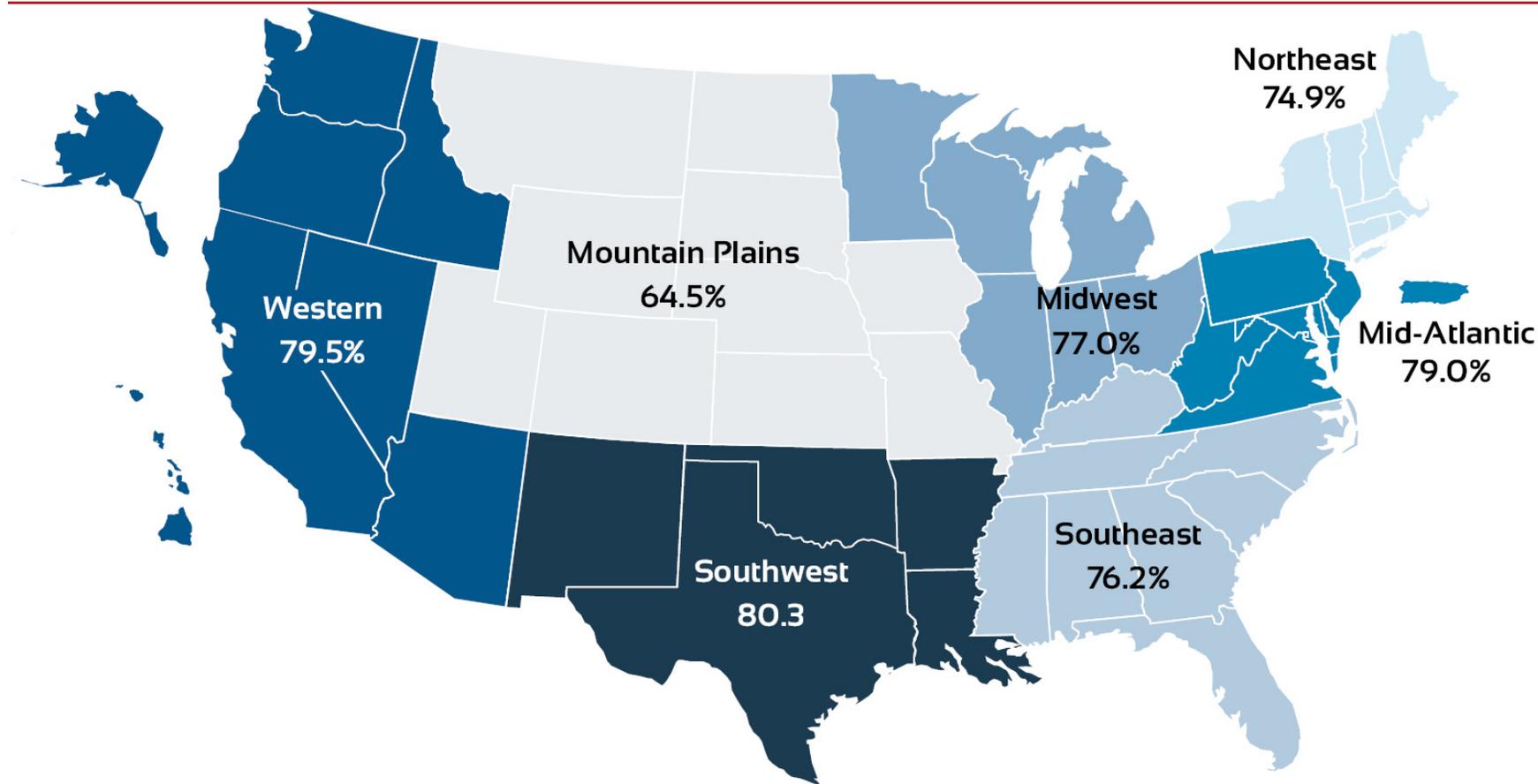
- ▶ C.11. White-Only Non-Hispanic
- ▶ C.12. Black-Only and Other Non-Hispanic
- ▶ C.13. Hispanic

Figure C.1. WIC Coverage Rate for Total Eligible Individuals by FNS Region: CY 2015
National Coverage Rate: 52.7 Percent



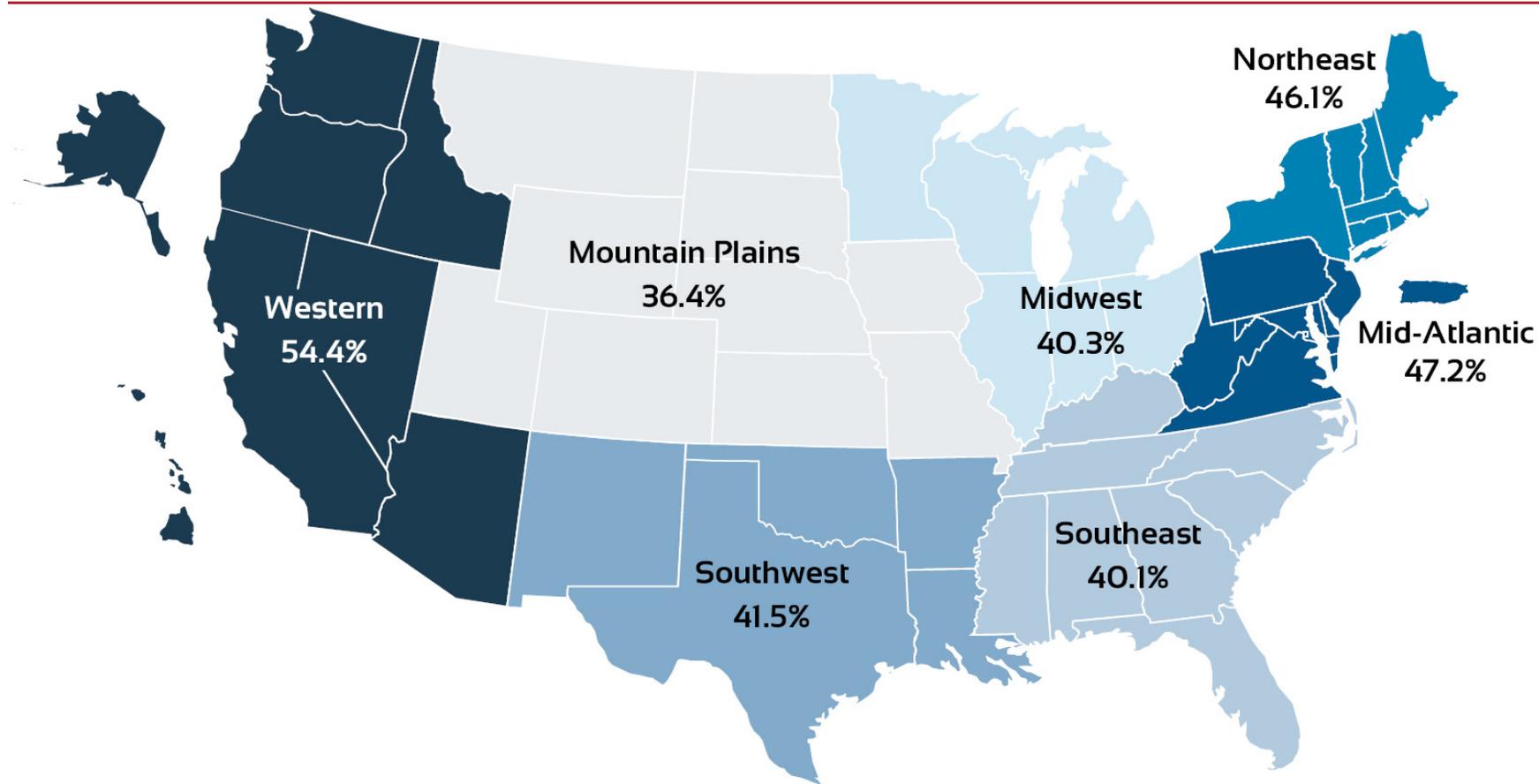
Sources: IPUMS-USA, n.d.; NBER, n.d.; unpublished internal WIC administrative data

Figure C.2. WIC Coverage Rate for Infants by FNS Region: CY 2015
National Coverage Rate for Infants: 76.9 Percent



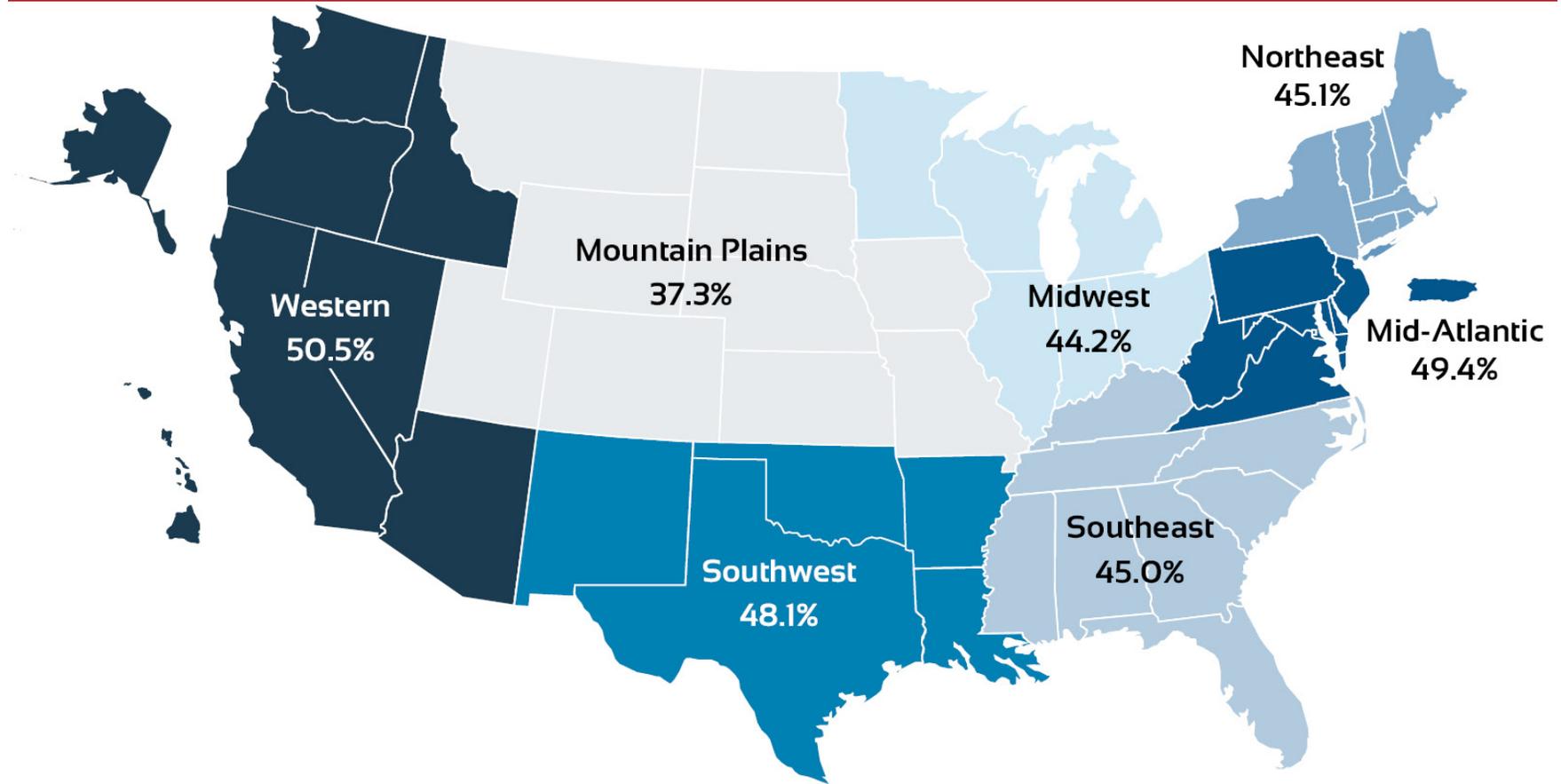
Sources: IPUMS-USA, n.d.; NBER, n.d.; unpublished internal WIC administrative data

Figure C.3. WIC Coverage Rate for Children (Aged 1–4) by FNS Region: CY 2015
National Coverage Rate for Children: 44.4 Percent



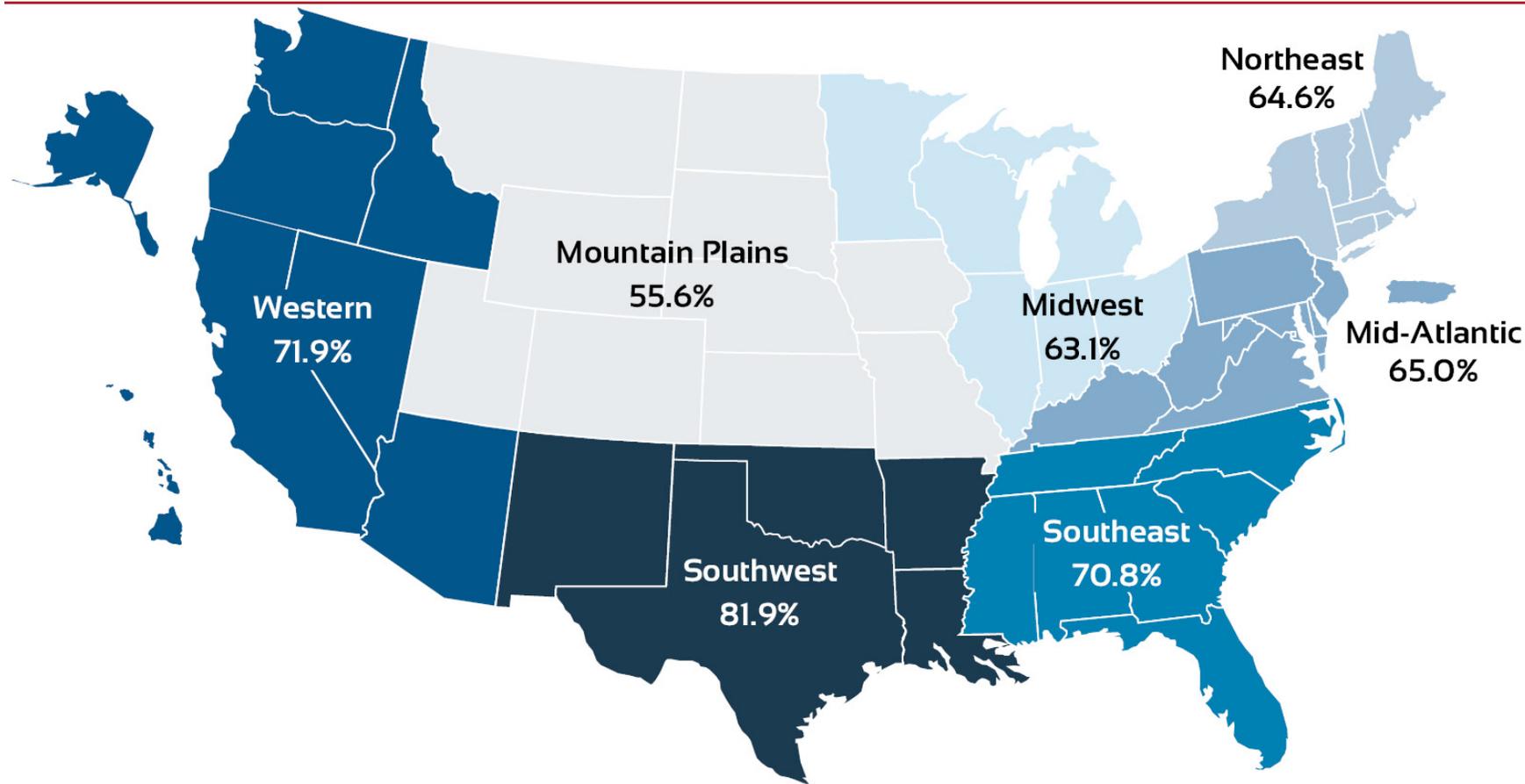
Sources: IPUMS-USA, n.d.; NBER, n.d.; unpublished internal WIC administrative data

Figure C.4. WIC Coverage Rate for Pregnant Women by FNS Region: CY 2015
National Coverage Rate for Pregnant Women: 46.4 Percent



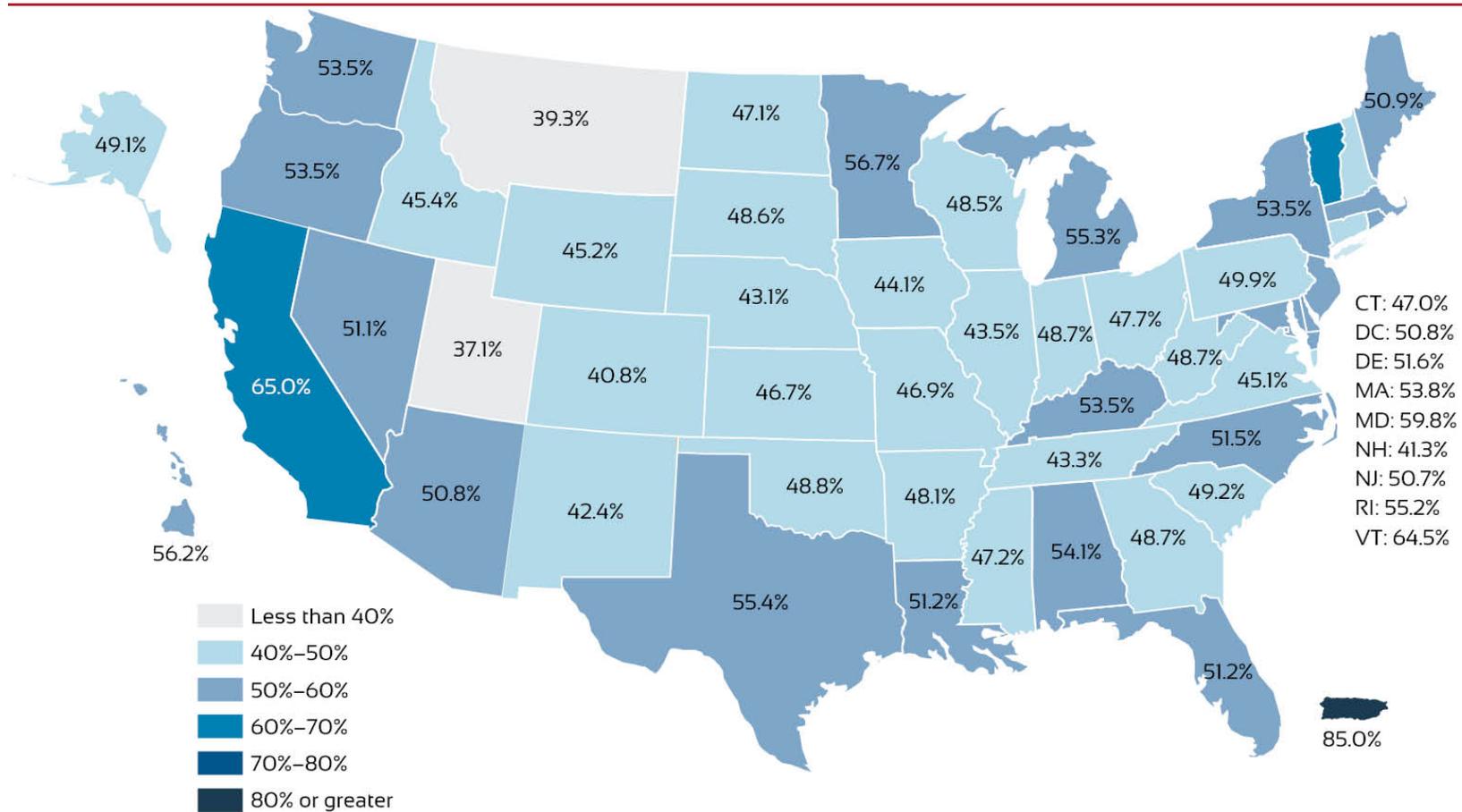
Sources: IPUMS-USA, n.d.; NBER, n.d.; unpublished internal WIC administrative data

Figure C.5. WIC Coverage Rate for Postpartum Women by FNS Region: CY 2015
National Coverage Rate for Postpartum Women: 69.2 Percent



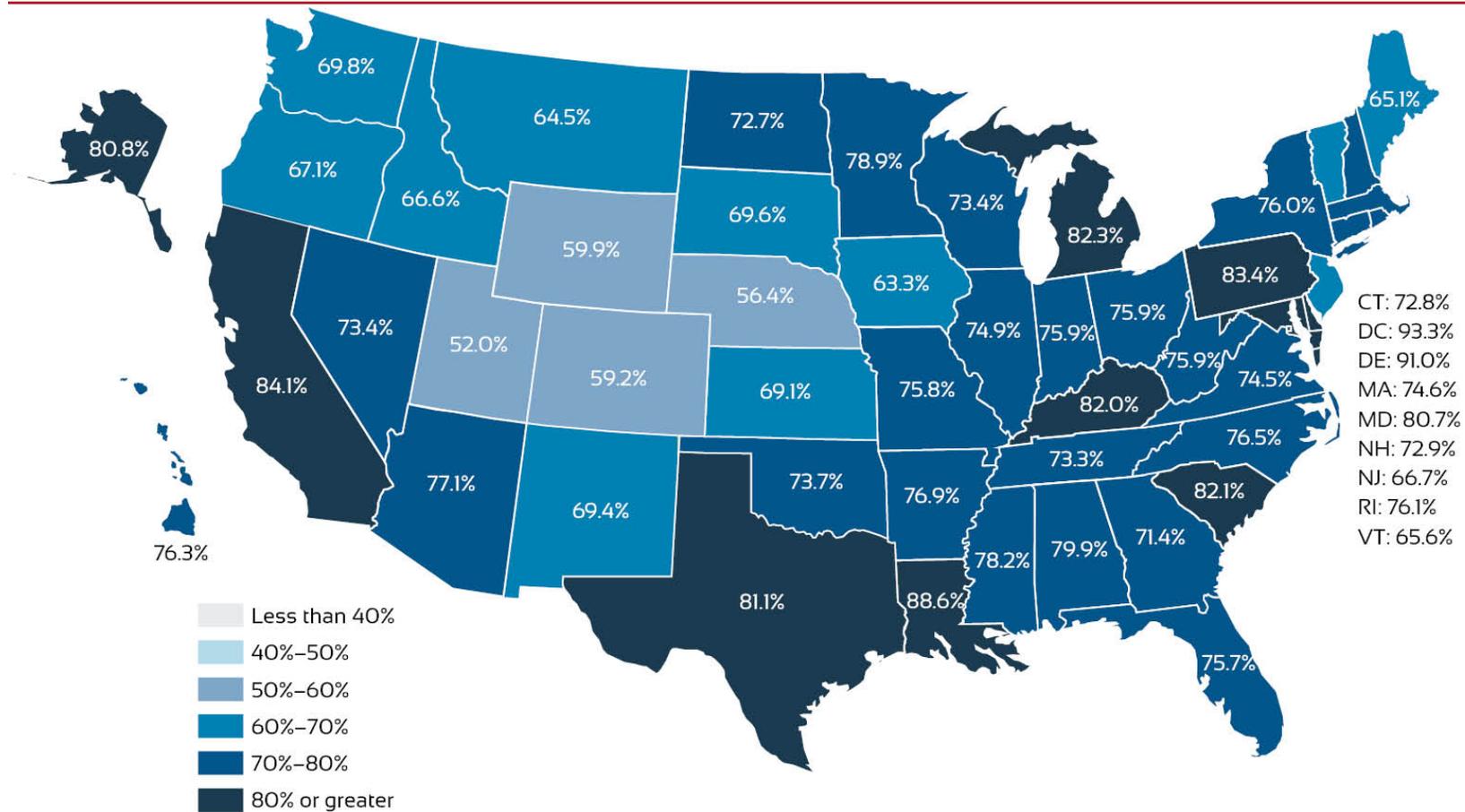
Sources: IPUMS-USA, n.d.; NBER, n.d.; unpublished internal WIC administrative data

Figure C.6. WIC Coverage Rate for Total Eligible Individuals by State: CY 2015
National Coverage Rate: 52.7 Percent



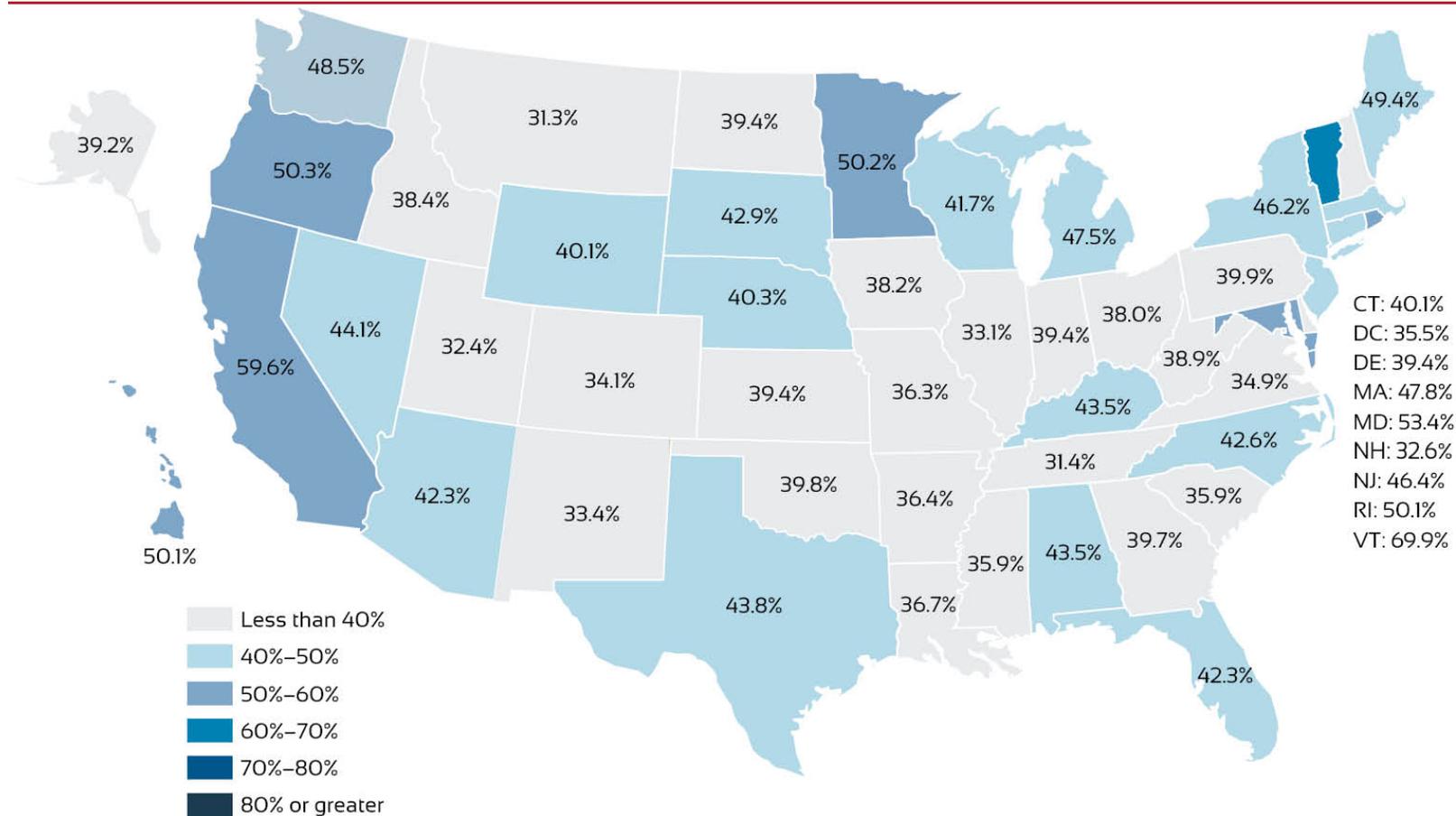
Sources: IPUMS-USA, n.d.; NBER, n.d.; unpublished internal WIC administrative data

Figure C.7. WIC Coverage Rate for Infants by State: CY 2015
National Coverage Rate for Infants: 76.9 Percent



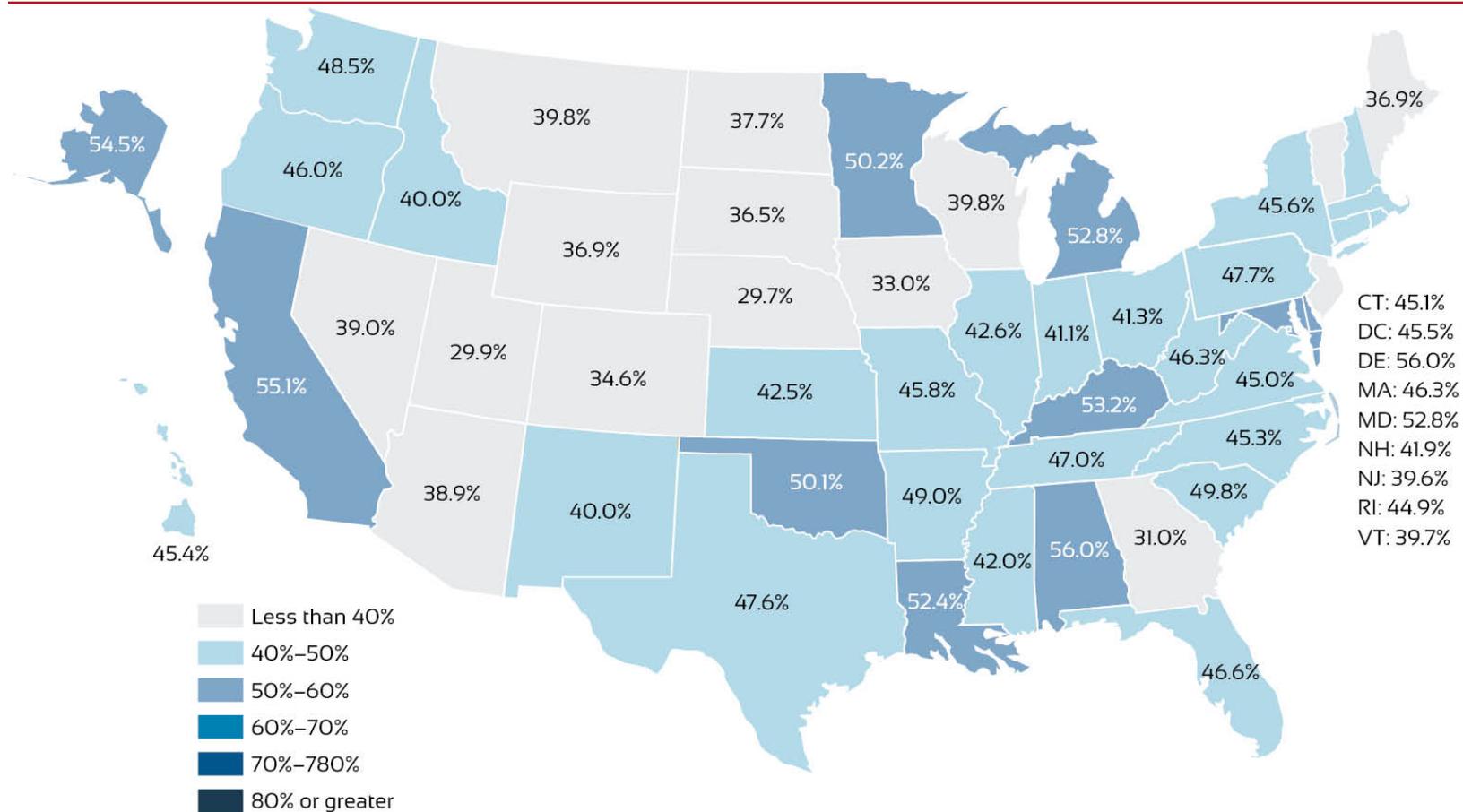
Sources: IPUMS-USA, n.d.; NBER, n.d.; unpublished internal WIC administrative data

Figure C.8. WIC Coverage Rate for Children by State: CY 2015
National Coverage Rate for Children: 44.4 Percent



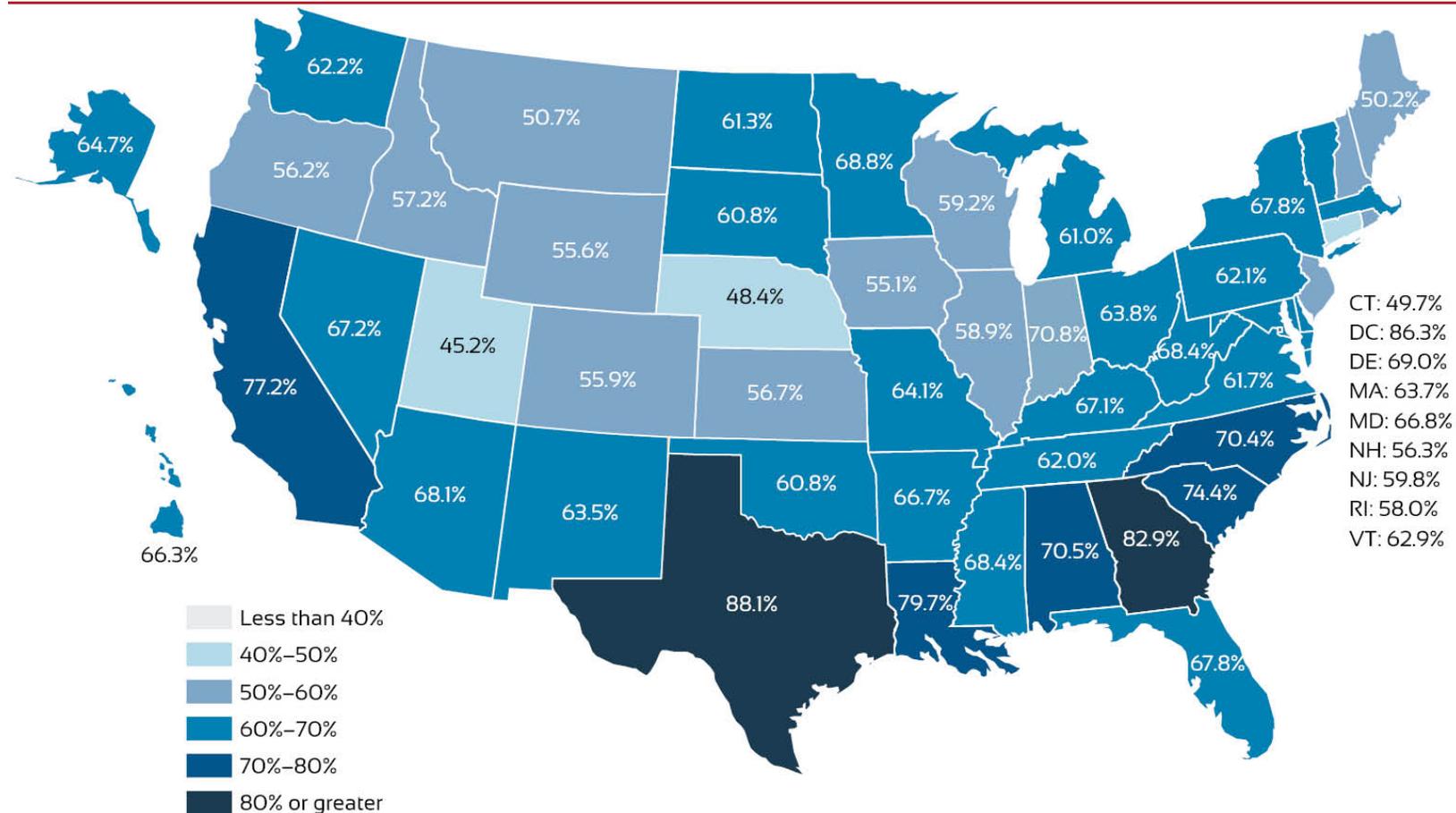
Sources: IPUMS-USA, n.d.; NBER, n.d.; unpublished internal WIC administrative data

Figure C.9. WIC Coverage Rate for Pregnant Women by State: CY 2015
National Coverage Rate for Pregnant Women: 46.4 Percent



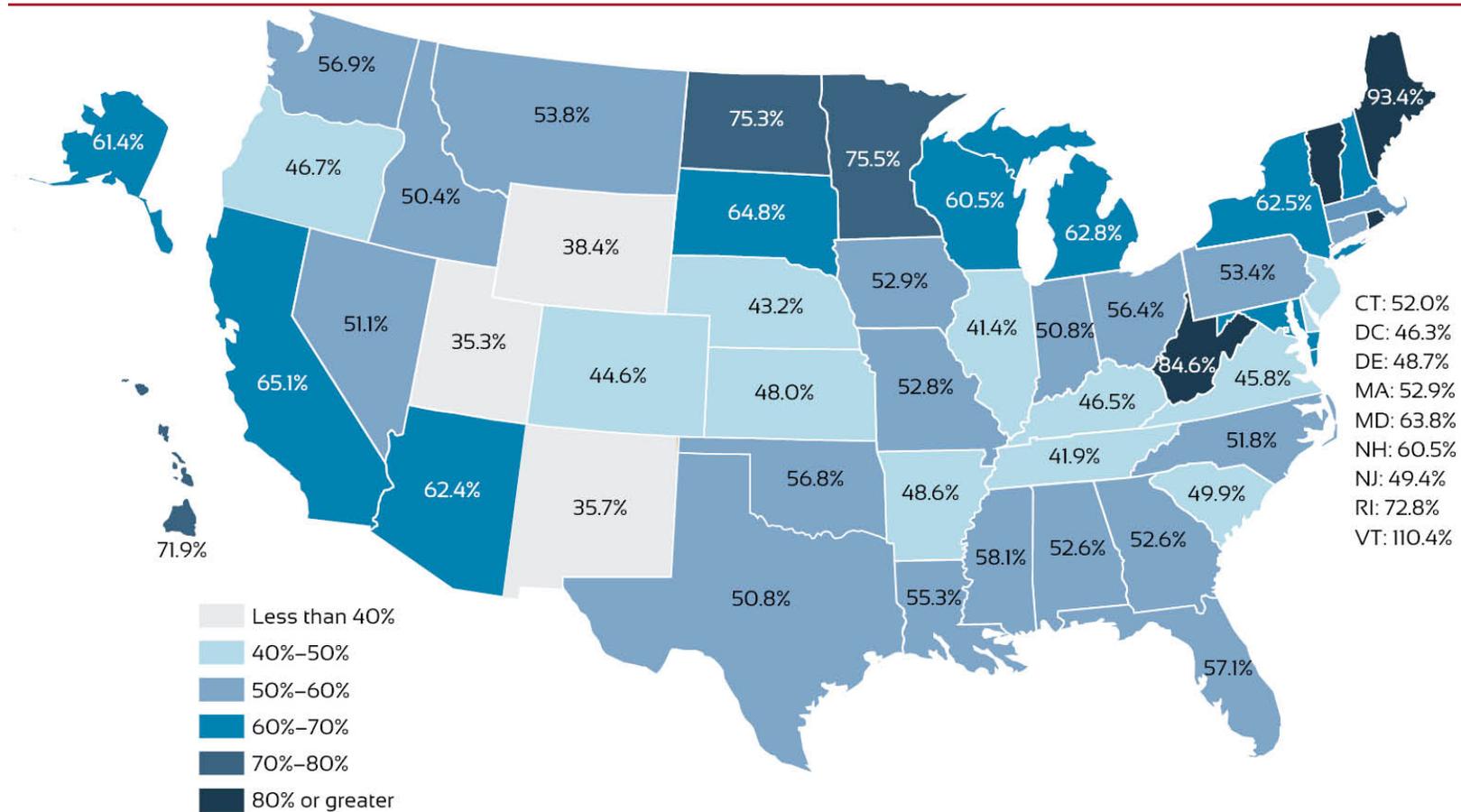
Sources: IPUMS-USA, n.d.; NBER, n.d.; unpublished internal WIC administrative data

Figure C.10. WIC Coverage Rate for Postpartum Women by State: CY 2015
National Coverage Rate for Postpartum Women: 69.2 Percent



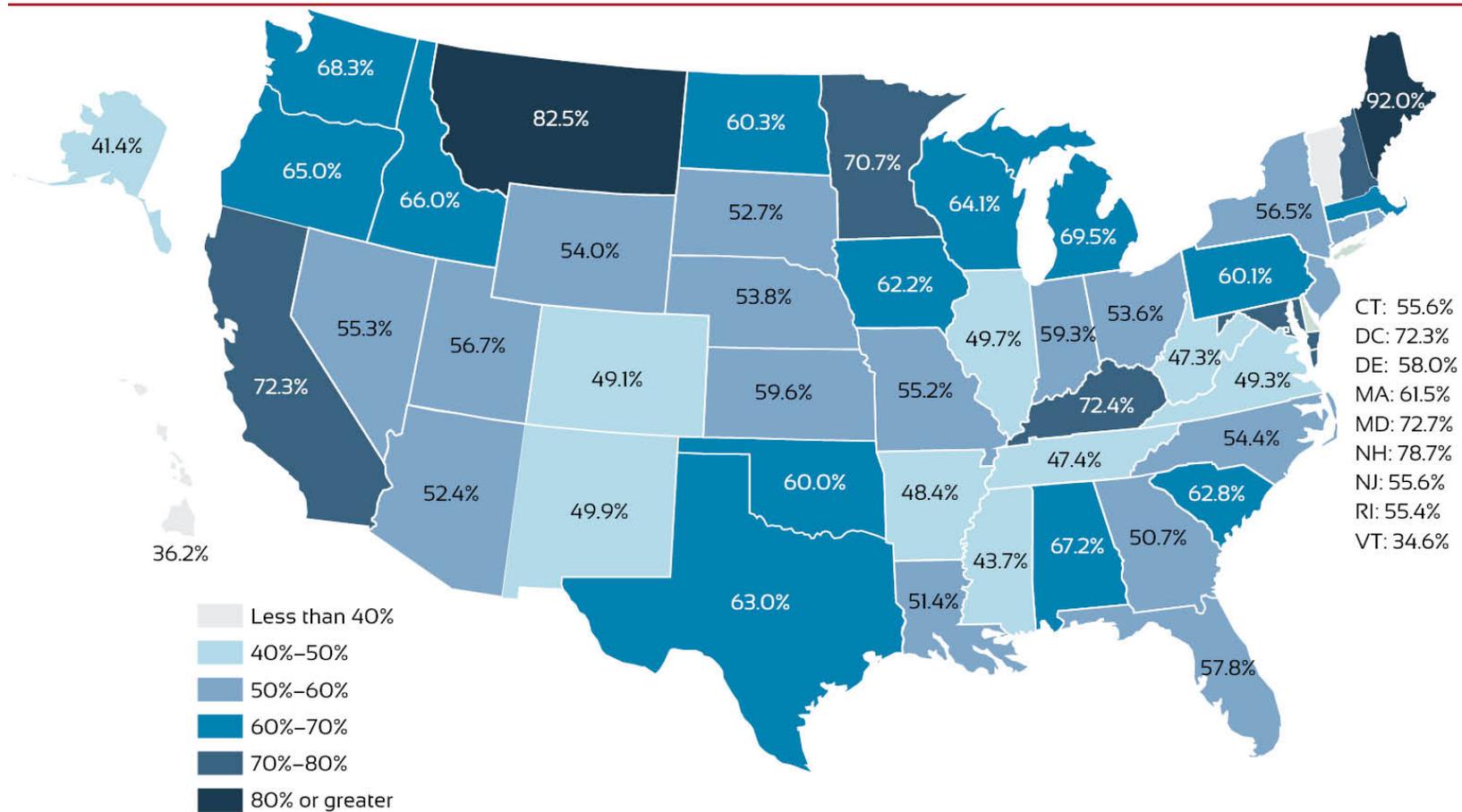
Sources: IPUMS-USA, n.d.; NBER, n.d.; unpublished internal WIC administrative data

Figure C.12. WIC Coverage Rates for Black-Only and Other Non-Hispanic Individuals by State: CY 2015
National Coverage Rate for Black-Only and Other Non-Hispanic Individuals: 55.0 Percent



Note
 The Black-Only Non-Hispanic and Other Non-Hispanic categories were combined because of sample size concerns.
 Sources: IPUMS-USA, n.d.; NBER, n.d.; Thorn et al., 2015; unpublished internal WIC administrative data

Figure C.13. WIC Coverage Rates for Hispanic Individuals by State: CY 2015
National Coverage Rate for Hispanic Individuals: 62.7 Percent



Sources: IPUMS-USA, n.d.; NBER, n.d.; Thorn et al., 2015; unpublished internal WIC administrative data

Appendix D. Method for Calculating the Annual-to-Monthly Adjustment Factors Applied to Children for CY 2015

The Healthy, Hunger-Free Kids Act of 2010 (Pub. L. 111–296) gave States the option of adopting a 12-month certification period for WIC-eligible children rather than recertifying children every 6 months. Whether and when a State has adopted this option affects WIC eligibility for children. This is taken into account for not only the 2015 estimates but also for estimates for prior years when the policy was in effect.

Procedures for the 2015 Estimates

To incorporate the impact of 12-month certification on children’s WIC eligibility, the study team first created State-specific annual-to-monthly factors—which vary by whether and when the State implemented this policy—and then created a type of weighted average across the State-level estimates. The factors—both for the States and for the national level—varied for two racial/ethnic groups: White-Only Non-Hispanics and children who are either non-White or Hispanic.

Two sets of factors were used based on certification length used by the State; 6-month certification and 12-month certification. When a 6-month certification length for children was assumed in all States, annual-to-monthly adjustment factors for children (for 2015) were 1.03 for White-Only Non-Hispanic children and 1.0 for all other children. However, imposing the assumption of 12-month certification for children in all States produced annual-to-monthly estimates of 1.10 for White-Only Non-Hispanic children and 1.03 for non-White or Hispanic children.

The State-specific factors used for the 2015 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 2015, this means that 12-month certification affected WIC eligibility in 2015 only if it was adopted before July 2015. If the policy was adopted after that date, any child covered by the new 12-month period (i.e., a child who first became eligible for WIC in July 2015 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 2015, not all months of the year may have been fully affected by the longer certification period. Eligibility in all months of the year would be fully affected only 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 the number of eligibles 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 high 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 2014 or earlier, adjustment factors assuming 12-month certification length in 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 2016, or did not adopt the policy before July 2015, adjustment factors assuming 6-month certification length in 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 2014 and June 2015 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
2014	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
2015	January	1.055	1.011
	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. Eleven States had not adopted the 12-month certification policy by the end of 2015. For these States, the factors used for 2015 were the national 6-month factors (1.03 for White-Only Non-Hispanic children, 1.0 for all other children).
2. Two States that adopted the policy in 2015 had not implemented it early enough (i.e., in July 2015 or later) to affect eligibility in 2015. For these States, the national 6-month factors were also used.
3. Thirty-one States had adopted the policy early enough (i.e., in February 2014 or earlier) to affect eligibility for all months of 2015. For these States, the factors used for 2015 were the national 12-month factors (1.10 for White-Only Non-Hispanic children, 1.03 for all other children).
4. The remaining seven States (and the District of Columbia) adopted the policy early enough (i.e., between March 2014 and June 2015) to affect eligibility in only some months of 2015. 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 2015 Estimates of WIC-Eligible Children

State	Implementation Date (as of February 1, 2017)	Factors for White-Only Non-Hispanic	Factors for Other
Alabama	N/A	1.030	1.000
Alaska	January 19, 2014	1.100	1.030
Arizona	December 14, 2014	1.059	1.012
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	1.096	1.028
Florida	October 1, 2011	1.100	1.030
Georgia	October 1, 2012	1.100	1.030
Hawaii	Expected June 2017	1.030	1.000
Idaho	January 5, 2015	1.055	1.011
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	1.084	1.023
Kentucky	N/A	1.030	1.000
Louisiana	N/A	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	1.096	1.028
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	1.079	1.021
New Jersey	N/A	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 1, 2017)	Factors for White-Only Non-Hispanic	Factors for Other
Oregon	October 1, 2016	1.030	1.000
Pennsylvania	September 1, 2013	1.100	1.030
Rhode Island	January 1, 2015	1.055	1.011
South Carolina	October 1, 2015	1.030	1.000
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	1.030	1.000
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	1.030	1.000

Note

Implementation dates were provided by FNS as of February 1, 2017. If no date is listed, the State does not plan to adopt 12-month certification.

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 eligibles before applying any annual-to-monthly adjustment factor. This resulted in a national annual-to-monthly adjustment factor of 1.083 for White-Only Non-Hispanic children and 1.025 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 2015. Therefore, a single factor (1.01 for children with 6-month certifications) rather than separate factors for race and ethnicity was applied to all children in the territories.

Table D.3. Calculation of the National-Level Annual-to-Monthly Adjustment Factor Used for the National 2015 Estimates of WIC-Eligible Children

State	State-Specific Annual-to-Monthly Factor		State Share of National Estimate of WIC-Eligible Children		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	0.020	0.015	0.021	0.015
Alaska	1.100	1.030	0.003	0.003	0.003	0.003
Arizona	1.059	1.012	0.016	0.026	0.017	0.026
Arkansas	1.030	1.000	0.017	0.009	0.018	0.009
California	1.100	1.030	0.054	0.177	0.059	0.182
Colorado	1.100	1.030	0.016	0.014	0.017	0.014
Connecticut	1.100	1.030	0.007	0.008	0.007	0.008
Delaware	1.100	1.030	0.003	0.003	0.003	0.003
District of Columbia	1.096	1.028	0.000	0.003	0.000	0.003
Florida	1.100	1.030	0.055	0.068	0.060	0.070
Georgia	1.100	1.030	0.031	0.039	0.034	0.040
Hawaii	1.030	1.000	0.002	0.005	0.002	0.005
Idaho	1.055	1.011	0.011	0.003	0.011	0.003
Illinois	1.100	1.030	0.035	0.039	0.039	0.040
Indiana	1.100	1.030	0.033	0.014	0.037	0.014
Iowa	1.100	1.030	0.016	0.005	0.017	0.005
Kansas	1.084	1.023	0.013	0.006	0.014	0.007
Kentucky	1.030	1.000	0.030	0.006	0.031	0.006
Louisiana	1.030	1.000	0.017	0.019	0.017	0.019
Maine	1.100	1.030	0.006	0.000	0.006	0.001
Maryland	1.100	1.030	0.010	0.018	0.011	0.019
Massachusetts	1.100	1.030	0.013	0.015	0.015	0.015
Michigan	1.100	1.030	0.043	0.021	0.047	0.021
Minnesota	1.100	1.030	0.020	0.010	0.022	0.010
Mississippi	1.096	1.028	0.013	0.012	0.014	0.013
Missouri	1.100	1.030	0.032	0.011	0.035	0.011
Montana	1.100	1.030	0.006	0.001	0.007	0.001
Nebraska	1.030	1.000	0.008	0.004	0.008	0.004
Nevada	1.100	1.030	0.006	0.011	0.007	0.011
New Hampshire	1.079	1.021	0.006	0.001	0.006	0.001
New Jersey	1.030	1.000	0.015	0.025	0.016	0.025
New Mexico	1.100	1.030	0.005	0.011	0.006	0.012
New York	1.100	1.030	0.053	0.062	0.058	0.064
North Carolina	1.100	1.030	0.031	0.033	0.035	0.034
North Dakota	1.100	1.030	0.003	0.001	0.003	0.001
Ohio	1.030	1.000	0.055	0.022	0.057	0.022
Oklahoma	1.100	1.030	0.018	0.013	0.020	0.014
Oregon	1.030	1.000	0.018	0.008	0.018	0.008

State	State-Specific Annual-to-Monthly Factor		State Share of National Estimate of WIC-Eligible Children		State-Specific Factor Weighted by Share	
	White-Only Non-Hispanic	Other	White-Only Non-Hispanic	Other	White-Only Non-Hispanic	Other
Pennsylvania	1.100	1.030	0.046	0.026	0.050	0.027
Rhode Island	1.055	1.011	0.003	0.002	0.003	0.002
South Carolina	1.030	1.000	0.017	0.015	0.018	0.015
South Dakota	1.100	1.030	0.004	0.002	0.004	0.002
Tennessee	1.100	1.030	0.032	0.017	0.035	0.018
Texas	1.100	1.030	0.054	0.138	0.060	0.142
Utah	1.100	1.030	0.016	0.006	0.018	0.006
Vermont	1.030	1.000	0.003	0.000	0.003	0.000
Virginia	1.100	1.030	0.022	0.021	0.024	0.021
Washington	1.100	1.030	0.028	0.018	0.031	0.018
West Virginia	1.030	1.000	0.014	0.001	0.014	0.001
Wisconsin	1.100	1.030	0.019	0.012	0.021	0.012
Wyoming	1.030	1.000	0.003	0.001	0.003	0.001
U.S. Total	–	–	–	–	1.083	1.025

Notes

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

“–” denotes blank cells.

Appendix E. Effects of New Data Source for State-Level Breastfeeding Rates on Postpartum Eligibility Estimates

The 2015 State-level estimates of breastfeeding rates for WIC-eligible postpartum women were calculated with data from a new data source, the Centers for Disease Control and Prevention (CDC) National Immunization Survey (NIS).¹ Previous State-level estimates (for 2005–2014) used breastfeeding rate data from Abbott Laboratories’ Infant Feeding Survey (IFS).² This appendix examines the effects on the 2015 State-level estimates of changing from the IFS to the NIS-based breastfeeding rates. For the 2015 estimates, the CDC provided breastfeeding rates from the three most recent birth cohorts in the NIS data (i.e., 2011–2013) which were pooled to produce a 3-year average rate. These NIS-based State-level breastfeeding rates had three key advantages compared with the prior IFS rates for estimating WIC-eligible postpartum women.

- ▶ **NIS-based breastfeeding rates provided all the information needed to estimate breastfeeding status for WIC-eligible postpartum women without having to impute missing information.** Breastfeeding rates are needed to estimate eligibility because a new mother is eligible for WIC for 6 months if she is not breastfeeding and up to 12 months if she is breastfeeding. Therefore, information is needed on breastfeeding rates among WIC-eligible mothers during the first 6 months and second 6 months after giving birth, and the rate at which breastfeeding mothers ceased breastfeeding during these two periods. The IFS-based rates were available only for WIC-participating mothers (not for WIC-eligible mothers) and only at two points in time (during the mother’s hospital stay after giving birth and at 6 months postpartum). Therefore, when IFS-based rates were used, it was necessary to impute the missing information on rates for WIC-eligible mothers and at 12 months postpartum. The new State-level NIS data provided breastfeeding rates for WIC-eligible women at three points in time: during the mother’s hospital stay after giving birth, at 6 months postpartum, and at 12 months postpartum. Because the NIS-based rates provided all the information needed, it was possible to use them to estimate the number of postpartum women without having to impute any missing information.
- ▶ **Using NIS State-level breastfeeding rates ensured the measurement of breastfeeding and its duration were consistent between the State-level and national estimates of WIC-eligible postpartum women.** The NIS-based State-level estimates of WIC eligibility used the same source of data for breastfeeding rates and use the same methodology to measure breastfeeding and its duration as are used for the national-level estimates, which results in consistent measures. Previous IFS-based rates resulted in State-level estimates that were based on a different data source for breastfeeding rates and a different methodology from the national-level estimates.
- ▶ **The sample sizes and weighting method used for the NIS-based breastfeeding rates were known and reliable.** Abbott Laboratories did not provide information on the sample design, response rate, sample size, or standard errors of the breastfeeding rates in its data. Two resulting areas of concern with this data were whether the sample sizes for State-level estimates are sufficiently large and whether Abbott adequately weighted its samples to reflect potential differential responses to its survey that might bias its estimates of breastfeeding. All of these concerns have been addressed by the CDC with the NIS-based rates.

Tables E.1a and E.1b show the difference in the 2015 State-level estimates of WIC-eligible postpartum women and their coverage rates using the NIS-based versus IFS-based breastfeeding rates (for the 50 States and the District of

¹ Unpublished internal CDC data

² Unpublished special tabulations of IFS data provided by FNS

Columbia only). National-level estimates of postpartum women were not affected by the change in data, but State-level estimates were; therefore, State-level estimates for 2015 should not be directly compared with those for 2014. It is important to note that changes in State-level breastfeeding rates between the IFS and NIS data did not directly translate to changes in the number of WIC-eligible postpartum women. This is because State-level estimates based on the ACS data must sum to the CPS-ASEC-based national estimates. To do this, the ACS-based counts are summed across the States, and each State's share of the ACS-based total is then applied to the CPS-based national total. Therefore, a higher breastfeeding rate in the NIS data did not necessarily mean a larger number of postpartum breastfeeding women. Only if the breastfeeding rate in the NIS data was higher than the average rate would it have affected the estimated number of WIC eligibles.

Table E.1a shows there was no clear pattern in the direction of the change in WIC-eligible postpartum women by State; in 22 States, the number of WIC-eligible postpartum women was larger based on the NIS data versus the IFS data, and in 29 States, the number was smaller based on the NIS data versus the IFS data. Among States with a larger number of eligible postpartum women according to the NIS data, the number was higher by a range of 14 percent for Nevada to less than half of 1 percent for Colorado and Tennessee. Among States with a lower number of eligible postpartum women according to the NIS data, the number was lower by a range of 15 percent for Rhode Island to less than half of 1 percent for California, Georgia, Missouri, and West Virginia. Because the change in the data source for State-level breastfeeding rates had no effect on the other participant categories (i.e., infants, children, and pregnant women were not affected), the effect on the number of total WIC eligibles was very small; the largest change, 2.1 percent, was for Rhode Island.

Table E.1b shows there was also no clear pattern in the direction of the change in coverage rates by State; in 29 States, the coverage rates were higher based on the NIS data versus the IFS data, and in 22 States, the coverage rates were lower based on the NIS data versus the IFS data. Among States with higher coverage rates according to the NIS data, rates were higher by a range of 9 percentage points for Rhode Island to less than half of 1 percentage point for California, Georgia, Missouri, and West Virginia. Among States with lower coverage rates according to the NIS data, rates were lower by a range of 9 percentage points for Nevada to less than half of 1 percentage point for Colorado, Montana, and Tennessee. Because the change in the data source for State-level breastfeeding rates had no effect on the other participant categories (i.e., infants, children, and pregnant women were not affected), the effect on State-level coverage rates for total WIC eligibles was very small; coverage rates changed by less than 1 percentage point for all States except Rhode Island, for which the change was 1.1 percentage points.

Changes in the State-level estimates of eligible postpartum women and coverage rates resulted from differences in the data and methodology used for the NIS data versus the IFS data. Because the NIS data included information on breastfeeding rates for all WIC-eligible women at 6-months and 12-months postpartum, it provided all the information needed to estimate eligibility for postpartum women directly without having to impute missing information. The same methodology is now used to calculate the revised estimates of State-level postpartum women as well as the national estimates, but ACS data rather than CPS-ASEC data is used to create the State estimates.

Table E.1a. Comparison of WIC Eligibles by State for Postpartum Women Using State Breastfeeding Rates From IFS Data Versus CDC NIS Data: CY 2015

State	Postpartum Women			Total WIC Eligibles		
	IFS Data	CDC NIS Data	Percent Difference	IFS Data	CDC NIS Data	Percent Difference
Alabama	25,726	23,822	-7.4	244,406	242,502	-0.8
Alaska	4,658	4,167	-10.5	40,379	39,888	-1.2
Arizona	37,666	37,003	-1.8	329,883	329,219	-0.2
Arkansas	18,649	18,184	-2.5	175,309	174,843	-0.3
California	222,556	220,804	-0.8	1,913,458	1,911,706	-0.1
Colorado	25,249	25,230	-0.1	220,979	220,959	0.0
Connecticut	13,277	11,796	-11.2	109,292	107,811	-1.4
Delaware	3,036	3,304	8.8	36,004	36,272	0.7
District of Columbia	2,817	2,880	2.2	28,423	28,486	0.2
Florida	106,518	104,352	-2.0	948,125	945,960	-0.2
Georgia	56,842	56,843	0.0	535,290	535,291	0.0
Hawaii	7,154	6,917	-3.3	55,492	55,255	-0.4
Idaho	11,497	10,749	-6.5	89,085	88,337	-0.8
Illinois	57,440	55,270	-3.8	552,138	549,968	-0.4
Indiana	32,311	31,255	-3.3	312,967	311,910	-0.3
Iowa	15,899	17,007	7.0	141,175	142,283	0.8
Kansas	13,954	14,263	2.2	132,225	132,535	0.2
Kentucky	23,308	21,573	-7.4	216,878	215,143	-0.8
Louisiana	24,102	23,523	-2.4	251,260	250,681	-0.2
Maine	5,298	5,519	4.2	42,041	42,262	0.5
Maryland	27,249	29,089	6.8	236,158	237,998	0.8
Massachusetts	21,425	24,040	12.2	208,259	210,874	1.3
Michigan	48,531	46,266	-4.7	439,654	437,390	-0.5
Minnesota	24,051	24,440	1.6	208,338	208,727	0.2
Mississippi	19,185	18,101	-5.6	188,258	187,174	-0.6
Missouri	30,317	30,407	0.3	283,085	283,174	0.0
Montana	4,981	5,034	1.1	46,776	46,828	0.1
Nebraska	10,283	10,949	6.5	85,980	86,645	0.8
Nevada	13,926	15,895	14.1	139,693	141,662	1.4
New Hampshire	3,590	3,406	-5.1	35,600	35,416	-0.5
New Jersey	35,147	37,878	7.8	313,507	316,238	0.9
New Mexico	13,317	12,822	-3.7	128,402	127,906	-0.4
New York	94,108	102,448	8.9	868,477	876,817	1.0
North Carolina	50,263	51,084	1.6	479,431	480,251	0.2
North Dakota	2,975	2,909	-2.2	26,440	26,373	-0.3
Ohio	53,604	52,366	-2.3	508,835	507,598	-0.2
Oklahoma	24,835	24,130	-2.8	229,418	228,713	-0.3
Oregon	23,705	24,005	1.3	180,920	181,220	0.2
Pennsylvania	49,488	48,577	-1.8	490,486	489,575	-0.2
Rhode Island	5,166	4,378	-15.3	38,037	37,248	-2.1
South Carolina	25,351	22,993	-9.3	230,652	228,293	-1.0
South Dakota	4,939	4,413	-10.6	40,371	39,846	-1.3

State	Postpartum Women			Total WIC Eligibles		
	IFS Data	CDC NIS Data	Percent Difference	IFS Data	CDC NIS Data	Percent Difference
Tennessee	35,111	35,329	0.6	341,638	341,855	0.1
Texas	170,361	172,239	1.1	1,584,657	1,586,534	0.1
Utah	19,177	20,614	7.5	155,553	156,990	0.9
Vermont	2,820	2,923	3.7	20,862	20,966	0.5
Virginia	33,449	32,700	-2.2	307,508	306,759	-0.2
Washington	37,628	38,385	2.0	325,496	326,252	0.2
West Virginia	8,213	8,220	0.1	84,712	84,718	0.0
Wisconsin	23,194	24,005	3.5	213,683	214,494	0.4
Wyoming	3,217	3,059	-4.9	24,253	24,095	-0.7
Total^a	1,627,562	1,627,562	0.0	14,839,946	14,839,946	0.0

Notes

^a Totals are for the 50 States and the District of Columbia only.

WIC eligibility for infants, children, and pregnant women were not affected by breastfeeding rates, so there were no changes for these groups, and they are not shown in the table.

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

Table E.1b. Comparison of WIC Coverage Rates by State for Postpartum Women Using State Breastfeeding Rates From IFS Data Versus CDC NIS Data: CY 2015

State	Postpartum Women			Total WIC Eligibles		
	IFS Data	CDC NIS Data	Difference	IFS Data	CDC NIS Data	Difference
Alabama	65.2	70.5	5.2	53.7	54.1	0.4
Alaska	57.9	64.7	6.8	48.5	49.1	0.6
Arizona	66.9	68.1	1.2	50.7	50.8	0.1
Arkansas	65.0	66.7	1.7	48.0	48.1	0.1
California	76.6	77.2	0.6	65.0	65.0	0.1
Colorado	55.9	55.9	0.0	40.8	40.8	0.0
Connecticut	44.2	49.7	5.5	46.4	47.0	0.6
Delaware	75.1	69.0	-6.1	52.0	51.6	-0.4
District of Columbia	88.2	86.3	-1.9	50.9	50.8	-0.1
Florida	66.5	67.8	1.4	51.1	51.2	0.1
Georgia	82.9	82.9	0.0	48.7	48.7	0.0
Hawaii	64.2	66.3	2.2	55.9	56.2	0.2
Idaho	53.5	57.2	3.7	45.1	45.4	0.4
Illinois	56.7	58.9	2.2	43.3	43.5	0.2
Indiana	68.5	70.8	2.3	48.6	48.7	0.2
Iowa	58.9	55.1	-3.8	44.5	44.1	-0.3
Kansas	57.9	56.7	-1.3	46.8	46.7	-0.1
Kentucky	62.1	67.1	5.0	53.0	53.5	0.4
Louisiana	77.8	79.7	1.9	51.1	51.2	0.1
Maine	52.3	50.2	-2.1	51.2	50.9	-0.3
Maryland	71.3	66.8	-4.5	60.3	59.8	-0.5
Massachusetts	71.5	63.7	-7.8	54.5	53.8	-0.7
Michigan	58.1	61.0	2.8	55.0	55.3	0.3
Minnesota	69.9	68.8	-1.1	56.8	56.7	-0.1
Mississippi	64.5	68.4	3.9	46.9	47.2	0.3
Missouri	64.3	64.1	-0.2	47.0	46.9	0.0
Montana	51.2	50.7	-0.5	39.3	39.3	0.0
Nebraska	51.5	48.4	-3.1	43.4	43.1	-0.3
Nevada	76.7	67.2	-9.5	51.8	51.1	-0.7
New Hampshire	53.4	56.3	2.9	41.1	41.3	0.2
New Jersey	64.5	59.8	-4.6	51.2	50.7	-0.4
New Mexico	61.2	63.5	2.4	42.3	42.4	0.2
New York	73.9	67.8	-6.0	54.0	53.5	-0.5
North Carolina	71.5	70.4	-1.1	51.6	51.5	-0.1
North Dakota	60.0	61.3	1.4	47.0	47.1	0.1
Ohio	62.3	63.8	1.5	47.6	47.7	0.1
Oklahoma	59.1	60.8	1.7	48.7	48.8	0.2
Oregon	56.9	56.2	-0.7	53.6	53.5	-0.1
Pennsylvania	61.0	62.1	1.1	49.8	49.9	0.1

State	Postpartum Women			Total WIC Eligibles		
	IFS Data	CDC NIS Data	Difference	IFS Data	CDC NIS Data	Difference
Rhode Island	49.1	58.0	8.8	54.0	55.2	1.1
South Carolina	67.5	74.4	6.9	48.7	49.2	0.5
South Dakota	54.3	60.8	6.5	48.0	48.6	0.6
Tennessee	62.4	62.0	-0.4	43.3	43.3	0.0
Texas	89.1	88.1	-1.0	55.4	55.4	-0.1
Utah	48.6	45.2	-3.4	37.4	37.1	-0.3
Vermont	65.2	62.9	-2.3	64.8	64.5	-0.3
Virginia	60.3	61.7	1.4	45.0	45.1	0.1
Washington	63.4	62.2	-1.3	53.6	53.5	-0.1
West Virginia	68.4	68.4	-0.1	48.7	48.7	0.0
Wisconsin	61.3	59.2	-2.1	48.7	48.5	-0.2
Wyoming	52.8	55.6	2.7	44.9	45.2	0.3
Total^a	69.2	69.2	0.0	52.7	52.7	0.0

Notes

^a Coverage rates are for the 50 States and the District of Columbia only.

WIC coverage rates for infants, children, and pregnant women were not affected by breastfeeding rates, so there were no changes for these groups, and they are not shown in the table.

Sources: IPUMS-USA, n.d.; NBER, n.d.; Thorn et al., 2015; unpublished internal WIC administrative data

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 2015

Participant Category	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
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
Total 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
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
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
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
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
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
Total 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
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
Postpartum nonbreastfeeding women	732,981	718,203	674,522	670,086	675,687	691,372	628,865	599,108	606,333	608,838	617,783
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

Table F.2. Regional-Level WIC Eligibility by Participant Category: CY 2005–CY 2015

Region	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Infants											
Northeast	206,365	206,379	199,728	199,727	201,618	212,157	209,890	196,252	211,248	218,523	216,978
Mid-Atlantic	283,563	280,232	267,317	261,435	278,918	276,393	263,384	261,129	270,095	272,098	281,006
Southeast	516,939	533,067	513,546	510,633	520,664	525,034	497,781	482,812	493,328	526,362	539,363
Midwest	379,646	371,990	359,711	366,835	373,180	380,165	367,236	339,373	350,952	368,281	370,624
Southwest	431,129	425,727	423,067	404,434	396,202	402,943	381,018	364,505	380,903	381,902	399,527
Mountain Plains	196,868	195,657	187,271	184,598	188,713	188,501	176,474	168,178	182,119	193,883	197,829
Western	543,689	534,299	519,254	517,245	491,190	507,500	473,552	481,110	494,800	490,700	501,360
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
Children											
Northeast	714,354	704,637	695,870	722,369	760,385	771,076	733,634	773,993	797,138	837,926	818,395
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
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
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
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
Mountain Plains	650,739	625,462	632,189	628,839	681,760	694,702	675,421	661,621	660,008	700,741	698,992
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
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
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
Mid-Atlantic	184,939	182,766	174,343	170,507	181,909	180,263	171,778	170,307	176,155	177,461	183,271
Southeast	337,146	347,664	334,933	333,033	339,575	342,425	324,651	314,889	321,747	343,292	351,771
Midwest	247,604	242,611	234,603	239,248	243,387	247,943	239,510	221,338	228,890	240,192	241,719
Southwest	281,181	277,657	275,923	263,770	258,401	262,798	248,498	237,729	248,424	249,075	260,570
Mountain Plains	128,396	127,607	122,138	120,394	123,078	122,940	115,096	109,685	118,778	126,450	129,023
Western	354,592	348,468	338,656	337,345	320,352	330,990	308,849	313,778	322,707	320,033	326,985
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

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

Table F.3. WIC Coverage Rates by State and Participant Category: CY 2015

State ^a	Infants	Children Aged 1	Children Aged 2	Children Aged 3	Children Aged 4	All Children Aged 1–4	Pregnant Women	Postpartum Women	All Participants
Alabama	79.9	60.2	48.4	38.2	28.1	43.5	56.0	70.5	54.1
Alaska	80.8	60.4	37.0	36.6	26.4	39.2	54.5	64.7	49.1
Arizona	77.1	58.5	41.0	36.6	34.1	42.3	38.9	68.1	50.8
Arkansas	76.9	58.7	34.8	29.8	23.6	36.4	49.0	66.7	48.1
California	84.1	73.2	61.6	60.7	42.8	59.6	55.1	77.2	65.0
Colorado	59.2	51.1	32.7	30.4	22.6	34.1	34.6	55.9	40.8
Connecticut	72.8	60.6	49.0	33.0	22.0	40.1	45.1	49.7	47.0
Delaware	91.0	67.3	37.4	39.4	14.7	39.4	56.0	69.0	51.6
District of Columbia	93.3	54.3	41.9	33.6	17.1	35.5	45.5	86.3	50.8
Florida	75.7	60.4	47.9	39.0	21.8	42.3	46.6	67.8	51.2
Georgia	71.4	51.3	45.4	40.4	22.7	39.7	31.0	82.9	48.7
Hawaii	76.3	67.3	51.8	39.4	44.6	50.1	45.4	66.3	56.2
Idaho	66.6	50.1	40.0	35.7	27.3	38.4	40.0	57.2	45.4
Illinois	74.9	46.3	41.1	28.9	16.6	33.1	42.6	58.9	43.5
Indiana	75.9	53.9	40.9	36.0	26.8	39.4	41.1	70.8	48.7
Iowa	63.3	61.2	38.6	35.9	18.5	38.2	33.0	55.1	44.1
Kansas	69.1	60.8	37.2	36.6	27.2	39.4	42.5	56.7	46.7
Kentucky	82.0	56.6	50.1	37.0	30.5	43.5	53.2	67.1	53.5
Louisiana	88.6	57.3	37.6	31.0	22.5	36.7	52.4	79.7	51.2
Maine	65.1	65.5	53.7	47.4	32.7	49.4	36.9	50.2	50.9
Maryland	80.7	87.8	55.1	49.8	27.8	53.4	52.8	66.8	59.8
Massachusetts	74.6	68.7	51.2	49.6	21.8	47.8	46.3	63.7	53.8
Michigan	82.3	53.6	51.8	43.1	41.5	47.5	52.8	61.0	55.3
Minnesota	78.9	66.9	48.2	50.2	35.5	50.2	46.9	68.8	56.7
Mississippi	78.2	51.3	38.1	31.9	23.5	35.9	42.0	68.4	47.2
Missouri	75.8	52.8	37.8	30.9	23.4	36.3	45.8	64.1	46.9
Montana	64.5	48.4	29.8	34.3	16.8	31.3	39.8	50.7	39.3
Nebraska	56.4	50.2	44.0	41.6	27.7	40.3	29.7	48.4	43.1
Nevada	73.4	60.5	42.7	42.0	32.7	44.1	39.0	67.2	51.1

State ^a	Infants	Children Aged 1	Children Aged 2	Children Aged 3	Children Aged 4	All Children Aged 1–4	Pregnant Women	Postpartum Women	All Participants
New Hampshire	72.9	51.7	33.8	26.2	22.6	32.6	41.9	56.3	41.3
New Jersey	66.7	69.2	44.9	42.1	30.3	46.4	39.6	59.8	50.7
New Mexico	69.4	46.8	35.4	32.5	18.4	33.4	40.0	63.5	42.4
New York	76.0	65.3	51.2	44.7	24.1	46.2	45.6	67.8	53.5
North Carolina	76.5	60.3	48.8	44.3	17.9	42.6	45.3	70.4	51.5
North Dakota	72.7	48.5	43.0	38.8	23.3	39.4	37.7	61.3	47.1
Ohio	75.9	49.3	40.1	37.4	25.7	38.0	41.3	63.8	47.7
Oklahoma	73.7	61.2	46.9	36.9	16.7	39.8	50.1	60.8	48.8
Oregon	67.1	61.9	52.0	53.7	35.0	50.3	46.0	56.2	53.5
Pennsylvania	83.4	61.6	45.7	35.5	20.3	39.9	47.7	62.1	49.9
Rhode Island	76.1	69.6	52.1	43.6	38.2	50.1	44.9	58.0	55.2
South Carolina	82.1	53.7	38.8	30.1	21.9	35.9	49.8	74.4	49.2
South Dakota	69.6	76.6	40.2	35.2	24.0	42.9	36.5	60.8	48.6
Tennessee	73.3	53.9	32.6	28.9	11.0	31.4	47.0	62.0	43.3
Texas	81.1	75.1	43.9	39.7	15.8	43.8	47.6	88.1	55.4
Utah	52.0	43.7	33.8	33.7	17.5	32.4	29.9	45.2	37.1
Vermont	65.6	78.4	85.6	58.5	59.1	69.9	39.7	62.9	64.5
Virginia	74.5	62.3	34.1	26.5	17.6	34.9	45.0	61.7	45.1
Washington	69.8	58.1	53.8	47.2	34.6	48.5	48.5	62.2	53.5
West Virginia	75.9	50.4	39.9	38.1	26.7	38.9	46.3	68.4	48.7
Wisconsin	73.4	58.6	42.0	39.4	27.9	41.7	39.8	59.2	48.5
Wyoming	59.9	50.4	42.7	43.0	25.3	40.1	36.9	55.6	45.2
Total^b	76.9	62.8	47.0	41.8	26.3	44.4	46.4	69.2	52.7

Notes

^a State and regional eligibility estimates and participant data include individuals in Indian Tribal Organizations who were eligible for WIC and/or receiving WIC.

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

Sources: IPUMS-USA, n.d.; NBER, n.d.; U.S. Census Bureau, n.d.d; Thorn et al., 2015; unpublished internal WIC administrative data

Table F.4. WIC Coverage Rates by Participant Category: CY 2005–2015

Participant Category	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
All	56.5	58.1	60.6	62.4	62.9	61.6	63.5	63.2	59.3	54.8	52.7
Infants	80.3	82.2	88.5	91.1	90.5	86.3	88.5	89.8	84.6	80.0	76.9
Total 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
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
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
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
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
Pregnant women	52.4	54.1	56.5	58.1	59.0	56.8	57.9	59.0	54.0	50.2	46.4
Total postpartum women	70.8	72.9	77.7	80.3	80.5	76.3	79.3	81.6	76.6	72.6	69.2
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
Postpartum nonbreastfeeding women	81.3	85.8	95.3	97.4	95.8	91.4	99.4	102.2	97.2	94.1	88.9

Table F.5. Coverage Rates by Region and Participant Group: CY 2005–2015

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

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

Table F.6. WIC Eligibles, Participants, and Coverage Rates by Participant Category and by Race and Ethnicity: CY 2015

Participant Category	White-Only Non-Hispanic	Black-Only Non-Hispanic	Other Non-Hispanic	Hispanic	All Races
Eligibles					
Infants	987,876	456,279	193,360	863,871	2,501,386
Children aged 1-4	3,562,873	1,679,995	817,554	3,190,705	9,251,127
Pregnant women	644,289	297,583	126,109	563,414	1,631,395
Postpartum women	659,294	287,698	128,661	572,968	1,648,621
Total	5,854,332	2,721,555	1,265,684	5,190,958	15,032,529
Participants					
Infants	625,145	417,949	164,730	715,538	1,923,361
Children aged 1-4	1,178,898	753,800	346,128	1,819,860	4,098,685
Pregnant women	275,996	146,161	50,354	284,160	756,671
Postpartum women	389,626	233,137	79,914	437,158	1,139,835
Total	2,469,663	1,551,047	641,126	3,256,716	7,918,552
Coverage Rates (Percents)					
Infants	63.3	91.6	85.2	82.8	76.9
Children aged 1-4	33.1	44.9	42.3	57.0	44.4
Pregnant women	42.8	49.1	39.9	50.4	46.4
Postpartum women	59.1	81.0	62.1	76.3	69.2
Total	42.2	57.0	50.7	62.7	52.7

Sources: IPUMS-USA, n.d.; NBER, n.d.; Thorn et al., 2015; unpublished internal WIC administrative data

Table F.7. State-Level WIC Coverage Rates (Percentages) by Race and Ethnicity

State	All Races	White-Only Non-Hispanic	Black-Only and Other Non-Hispanic ^a	Hispanic
Alabama	54.1	52.7	52.6	67.2
Alaska	49.1	38.4	61.4	41.4
Arizona	50.8	40.5	62.4	52.4
Arkansas	48.1	47.9	48.6	48.4
California	65.0	36.5	65.1	72.3
Colorado	40.8	31.2	44.6	49.1
Connecticut	47.0	33.1	52.0	55.6
Delaware	51.6	50.9	48.7	58.0
District of Columbia	50.8	38.8	46.3	72.3
Florida	51.2	39.3	57.1	57.8
Georgia	48.7	42.5	52.6	50.7
Hawaii	56.2	40.0	71.9	36.2
Idaho	45.4	38.8	50.4	66.0
Illinois	43.5	39.3	41.4	49.7
Indiana	48.7	45.5	50.8	59.3
Iowa	44.1	38.6	52.9	62.2
Kansas	46.7	40.0	48.0	59.6
Kentucky	53.5	53.7	46.5	72.4
Louisiana	51.2	45.6	55.3	51.4
Maine	50.9	46.0	93.4	92.0
Maryland	59.8	42.3	63.8	72.7
Massachusetts	53.8	47.7	52.9	61.5
Michigan	55.3	48.7	62.8	69.5
Minnesota	56.7	42.8	75.5	70.7
Mississippi	47.2	33.5	58.1	43.7
Missouri	46.9	43.7	52.8	55.2
Montana	39.3	33.4	53.8	82.5
Nebraska	43.1	36.9	43.2	53.8
Nevada	51.1	43.6	51.1	55.3
New Hampshire	41.3	37.1	60.5	78.7
New Jersey	50.7	43.3	49.4	55.6
New Mexico	42.4	26.6	35.7	49.9
New York	53.5	42.7	62.5	56.5
North Carolina	51.5	49.6	51.8	54.4
North Dakota	47.1	34.5	75.3	60.3
Ohio	47.7	42.8	56.4	53.6
Oklahoma	48.8	39.7	56.8	60.0
Oregon	53.5	49.1	46.7	65.0
Pennsylvania	49.9	44.5	53.4	60.1

State	All Races	White-Only Non-Hispanic	Black-Only and Other Non-Hispanic ^a	Hispanic
Puerto Rico	85.0	2.2	51.4	86.0
Rhode Island	55.2	47.7	72.8	55.4
South Carolina	49.2	44.8	49.9	62.8
South Dakota	48.6	38.4	64.8	52.7
Tennessee	43.3	43.1	41.9	47.4
Texas	55.4	36.0	50.8	63.0
Utah	37.1	29.9	35.3	56.7
Vermont	64.5	61.2	110.4	34.6
Virginia	45.1	42.5	45.8	49.3
Washington	53.5	42.8	56.9	68.3
West Virginia	48.7	46.3	84.6	47.3
Wisconsin	48.5	37.8	60.5	64.1
Wyoming	45.2	44.0	38.4	54.0
Total	52.7	42.2	55.0	62.7

Notes

^aThe 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.; Thorn et al., 2015; unpublished internal WIC administrative data

Table F.8. WIC Eligibles, Participants, and Coverage Rates by Region and Participant Category: CY 2015

Region	Infants	Children (Aged 1–4)	Pregnant Women	All Postpartum Women	Total
Eligibles					
Northeast	216,978	818,395	141,512	154,510	1,331,395
Mid-Atlantic	281,006	1,049,675	183,271	184,337	1,698,288
Southeast	539,363	1,951,240	351,771	334,096	3,176,471
Midwest	370,624	1,384,142	241,719	233,602	2,230,087
Southwest	399,527	1,457,684	260,570	250,896	2,368,678
Mountain Plains	197,829	698,992	129,023	133,885	1,159,729
Western	501,360	1,908,721	326,985	360,789	3,097,855
Total	2,506,686	9,268,848	1,634,852	1,652,116	15,062,503
Participants					
Northeast	162,520	377,248	63,874	99,756	703,399
Mid-Atlantic	221,915	495,536	90,603	119,841	927,895
Southeast	411,097	781,657	158,204	236,532	1,587,489
Midwest	285,261	558,064	106,851	147,349	1,097,525
Southwest	320,797	605,405	125,326	205,443	1,256,972
Mountain Plains	127,647	254,229	48,164	74,390	504,430
Western	398,433	1,039,015	165,227	259,373	1,862,049
Total	1,927,670	4,111,154	758,250	1,142,685	7,939,758
Coverage Rates (Percents)					
Northeast	74.9	46.1	45.1	64.6	52.8
Mid-Atlantic	79.0	47.2	49.4	65.0	54.6
Southeast	76.2	40.1	45.0	70.8	50.0
Midwest	77.0	40.3	44.2	63.1	49.2
Southwest	80.3	41.5	48.1	81.9	53.1
Mountain Plains	64.5	36.4	37.3	55.6	43.5
Western	79.5	54.4	50.5	71.9	60.1
Total	76.9	44.4	46.4	69.2	52.7

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