

Profile of WIC Modeled Eligibility and Participation in Colorado, 2013:
Evidence from Administrative Records and the American Community Survey

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The tables included in this package are constructed using Colorado Women, Infants, and Children Administrative Records (WIC AR) linked with data from the American Community Survey (ACS). We estimate rates of eligibility and participation in the WIC program and generate profiles of the demographic and economic characteristics of persons estimated or modeled to be eligible (hereafter referred to as eligible) for WIC benefits, persons who are eligible and participate in the program, and persons who are eligible but do not participate in the program.^{1,2}

The data used in this report pertain to residents of Colorado extracted from the 2013 1-year ACS file and 2012 – 2013 Colorado WIC AR. One year of the ACS is linked to two years of WIC AR because the ACS measures income and other economic conditions based on the 12 months prior to a respondent's interview date. For example, if a respondent were interviewed in February 2013, that person's response to the question on income would reflect his or her income for the period of January 2012 through January 2013. To estimate eligibility using reported income, we use the two years of WIC ARs that overlap with the same time period.

All statistics defined below are weighted to reflect the state population living in housing units (that is, excluding those living in Group Quarters), and margins of error are included in the tables. ACS person weights and replicate weights are adjusted for the likelihood that an ACS respondent could be assigned a Protected Identification Key (PIK). PIKs are unique person identifiers used to link individuals anonymously across multiple data sources. PIKs are assigned using probability record linkage techniques by the Person Identification Validation System (PVS).³

All data are person-level, although some variables describe characteristics of one or more people in a person's household, such as the educational attainment of a child's parent or the

¹ The ACS does not include information on pregnancy or breastfeeding so we cannot estimate eligibility or participation rates for women in these categories. We can only provide an estimate of the number of women participating per 1,000 of the female population ages 15 and older and a profile of participating women (Tables 3a and 3b).

² For infants and children, we estimate individual eligibility using information available in the ACS, which differs slightly from WIC eligibility guidelines. Our estimates are based on reported income and receipt of public assistance in the 12 months prior to the survey interview, as opposed to the past 30 days. In addition, the ACS does not include information on a child's nutritional need. Previous research shows that 97 to 99 percent of infants and children who fall below WIC income guidelines also are in nutritional need so we assume that every child that meets WIC income guidelines is in nutritional need.

³ For more information, see: Wagner, Deborah and Mary Layne. [The Person Identification Validation System \(PVS\): Applying the Center for Administrative Records Research and Applications' \(CARRA\) Record Linkage Software](#), CARRA Working Paper 2014-01, U.S. Census Bureau, Center for Administrative Records, July 2014.

number of people residing in the household. A “.” appears in cells with too few observations either to meet disclosure requirements or to produce a reliable estimate. Some cells with values less than 0.05 or greater than 99.95 may show 0.0 or 100.0 due to rounding.

Definitions

Eligibility Rate: The percentage of the state infant and child population (ages 0 to 4) that was eligible for WIC benefits. We estimate the eligible population using annual WIC income guidelines and information on income, family structure, and public assistance from the ACS. In general, if an infant or child’s family received public assistance or if family income is below WIC guidelines, then we indicate that a child is eligible. The eligibility rate is the estimated population of eligible infants and children as a percentage of the estimated total population of infants and children in the state. The formula for the Eligibility Rate is:

$$\text{Eligibility Rate} = \frac{\text{Estimated WIC Eligible Infant and Child Population in the ACS}}{\text{Estimated Total Infant and Child Population in the ACS}} * 100$$

Eligibility Rates are presented for a variety of subpopulations based on demographics and county of residence. For a group g , the formula for the Eligibility Rate is:

$$\text{Eligibility Rate for Group } g = \frac{\text{Estimated WIC Eligible Infant and Child Population in the ACS in Group } g}{\text{Estimated Total Infant and Child Population in the ACS in Group } g} * 100$$

Participation Rate: The percentage of the eligible infant and child population that participated in WIC. The estimated participant population is comprised of infants and children in the eligible population from the ACS that we also observe in WIC AR. The formula for the Participation Rate is:

$$\text{Participation Rate} = \frac{\text{Estimated WIC Participant Infant and Child Population in the ACS and WIC AR}}{\text{Estimated WIC Eligible Infant and Child Population in the ACS}} * 100$$

Participation Rates are presented for several subpopulations based on demographics and county of residence. For a group g , the formula for the Participation Rate is:

Participation Rate for Group g

$$= \frac{\text{Estimated WIC Participant Infant and Child Population in the ACS and WIC AR in Group } g}{\text{Estimated WIC Eligible Infant and Child Population in the ACS in Group } g} * 100$$

Participants per 1,000 Population: The number of women participating in WIC for every 1,000 women ages 15+ residing in the state (Per footnote 1, we cannot calculate eligibility and participation rates for pregnant and breastfeeding women). The estimated participant population is comprised of women ages 15+ in the ACS that we also observe in WIC AR. The formula for Participants per 1,000 Population is:

$$\text{Participants per 1,000 Population} = \frac{\text{Estimated WIC Participants, Women Ages 15+, in the ACS and WIC AR}}{\text{Estimated Female Population, Ages 15+, in the ACS}} * 1000$$

Distribution of Eligible Population: The percentage of the estimated eligible infant and child population that is in group g , defined by a demographic, economic, or geographic characteristic (for example, *Non-Hispanic* and *Hispanic*). The formula for the distribution of the eligible population is:

Distribution of Eligible in Group g

$$= \frac{\text{Estimated WIC Eligible Infant and Child Population in the ACS in Group } g}{\text{Estimated Total WIC Eligible Infant and Child Population in the ACS}} * 100$$

The sum of the distribution for each characteristic will always equal 100. For example, for Hispanic Origin, *Percent Non-Hispanic + Percent Hispanic* equals 100.

Distribution of the Participant Population: The percentage of the estimated infant and child participant and women populations that is in group g . The formula for the distribution of the participant population is:

Distribution of Participant Population in Group g

$$= \frac{\text{Estimated WIC Participant Infant and Child Population in the ACS and WIC AR in Group } g}{\text{Estimated Total WIC Participant Infant and Child Population in the ACS and WIC AR}} * 100$$

As with other distributions, the sum of percentages across the categories of demographic, economic, or residential variables will always equal 100.

Distribution of Eligible Non-Participant Population: The percentage of eligible non-participants that belong to group g . The non-participant population is defined as infants and children who are in the eligible population in the ACS but are not observed in the WIC AR. The formula for group g 's Distribution of the Eligible Non-Participant Population is:

Distribution of Non-Participant Population in Group g

$$= \frac{\text{Estimated WIC Eligible Non – Participant Infant and Child Population in the ACS and not in WIC AR in Group } g}{\text{Total Estimated WIC Eligible Non – Participant Infant and Child Population in the ACS and not in WIC AR}} * 100$$

As with other distributions, the sum of percentages across the categories of demographic, economic, or residential variables will always equal 100.

How to Read the Tables

In the example tables that follow, eligibility rates, rates of participation among the eligible, and population distributions are provided for various subpopulations that are defined by demographic and economic variables available in the ACS. Using example data (below), we find that 38.2 percent of the infant and child population identified as Non-Hispanic White alone were **eligible** for participation in WIC in the example year. Among Non-Hispanic White alone infants and children who were eligible, 45.5 percent **participated** in the WIC program. By comparison, Non-Hispanic AIAN (American Indian or Alaska Native) alone infants and children were much more likely to be **eligible** for WIC benefits, at 83.3 percent, but when eligible, they appear to have **participated** at a similar rate, 46.6 percent. Non-Hispanic Asian alone infants and children have the lowest rate of eligibility at 43.0 percent and lowest rate of participation rate at 40.0 percent.

Example Table A. <State> WIC Modeled Eligibility Rates and Participation (of Eligible) Rates (%) by Infant and Child Characteristics, Infants and Children, <Year>.

	Eligibility		Participation (of Eligible)	
	Estimate	ME	Estimate	ME
Total	61.2	(±1.3)	66.4	(±1.4)
Race / Hispanic Origin				
Non-Hispanic White alone	38.2	(±1.4)	45.5	(±2.3)
Non-Hispanic Black alone	81.7	(±4.0)	72.8	(±5.4)
Non-Hispanic AIAN* alone	83.3	(±10.0)	46.6	(±11.0)
Non-Hispanic Asian alone	43.0	(±7.3)	40.0	(±8.0)
Other Non-Hispanic	46.4	(±4.2)	60.1	(±6.2)
Hispanic	78.8	(±1.7)	61.4	(±2.1)

Because the estimated rates are based on a sample, rather than the entire population of infants and children, there is uncertainty in how well an estimated rate represents the true rate in the population. We provide margins of error, a measure of this uncertainty, in parentheses next to the estimated eligibility and participation rates.⁴ For a given sample point estimate, the margin of error can be interpreted as representing a range of values that the true population value is likely to fall within, at a 95% level of confidence. For example, if we obtained an estimated

⁴ Margins of error reported herein were generated from standard errors using ACS replicate weights, which simulate multiple samples and provide more accurate standard errors compared to conventional asymptotic standard errors.

sample eligibility rate of 50% with a margin of error plus or minus 5%, we can be 95% certain that the true population eligibility rate is somewhere between 45-55%.⁵

In the selection below we show an example of the distributions the **eligible**, **participant**, and **non-participant** populations across the categories of a demographic variable, race. Here we find that Hispanic infants and children comprise the largest racial group (45.8 percent) among all eligible infants and children. Non-Hispanic AIAN (American Indian or Alaskan Native) alone infants and children are the smallest group in the **eligible** population at 1.0 percent. Relative to all **eligible** or **participating** infants and children, Non-Hispanic White alone and Non-Hispanic Asian alone infants and children are more represented among children who are eligible but do **not participate** (48.5 and 4.0 percent, respectively).

Example Table B. <State> WIC Modeled Eligible, Participant, and Non-Participant Population Distributions (%) by Infant and Child Characteristics, Infants and Children, <Year>.

	Eligible		Participants		Non-Participants	
	Estimate	ME	Estimate	ME	Estimate	ME
Total	100.0	-	100.0	-	100.0	-
Race / Hispanic Origin						
Non-Hispanic White alone	39.9	(±1.1)	33.0	(±1.5)	48.5	(±2.1)
Non-Hispanic Black alone	6.5	(±0.6)	8.6	(±1.1)	4.0	(±0.7)
Non-Hispanic AIAN* alone	1.0	(±0.2)	0.8	(±0.3)	1.2	(±0.4)
Non-Hispanic Asian alone	2.2	(±0.4)	1.6	(±0.4)	2.9	(±0.7)
Other Non-Hispanic	4.6	(±0.6)	5.0	(±0.8)	4.1	(±0.8)
Hispanic	45.8	(±1.0)	51.0	(±1.7)	39.3	(±2.0)

⁵ Technically, we would expect this value to fall within this range in 95% of all possible samples, assuming we were able to conduct an unlimited number of random samples.

Table 1a. Colorado WIC Modeled Eligibility Rates and Participation (of Eligible) Rates (%) by Infant and Child Characteristics, Infants and Children, 2013.

	Eligibility		Participation (of Eligible)	
	Estimate	ME	Estimate	ME
Total	52.0	(±1.7)	58.5	(±3.0)
Age				
0	52.5	(±4.1)	63.5	(±6.3)
1	53.7	(±3.9)	66.5	(±6.6)
2	54.0	(±3.7)	63.6	(±5.7)
3	51.5	(±4.1)	53.1	(±6.4)
4	48.2	(±3.2)	44.4	(±5.9)
Race / Hispanic Origin				
Non-Hispanic White alone	36.4	(±2.6)	49.8	(±4.5)
Non-Hispanic Black alone	82.8	(±8.5)	65.6	(±13.7)
Non-Hispanic AIAN* alone	62.1	(±24.4)	.	.
Non-Hispanic Asian alone	30.3	(±11.8)	64.3	(±22.0)
Other Non-Hispanic	44.4	(±8.2)	51.2	(±14.9)
Hispanic	78.5	(±3.1)	65.6	(±3.9)
Migration in Past Year				
No Migration or Age 0	50.1	(±1.8)	58.0	(±3.4)
Intra-State Migration	63.0	(±1.1)	63.6	(±6.9)
Inter-State or Intl Migration	46.5	(±3.5)	41.2	(±16.7)

Sources: Colorado WIC administrative records (2012-2013) linked to 1-year American Community Survey data (2013). Note: A margin of error (95%) for each estimate is provided in parentheses in the column labeled ME. A "." in a given cell denotes sample size for that cell does not meet minimum size requirements for disclosure. * American Indian or Alaska Native

Table 1b. Colorado WIC Modeled Eligibility Rates and Participation (of Eligible) Rates (%) by Parent Characteristics, Infants and Children, 2013.

	Eligibility		Participation (of Eligible)	
	Estimate	ME	Estimate	ME
Total	52.0	(±1.7)	58.5	(±3.0)
Age				
<25	93.2	(±3.1)	64.9	(±6.1)
25 to 34	53.5	(±2.9)	58.8	(±4.3)
35 to 44	33.3	(±3.1)	48.9	(±7.5)
45+	50.0	(±7.7)	63.6	(±10.4)
Sex				
Male	44.6	(±2.8)	59.7	(±5.0)
Female	58.3	(±2.6)	57.6	(±3.9)
Marital Status				
Married	40.5	(±2.3)	57.4	(±4.1)
Widowed, Divorced, Separated	75.5	(±4.7)	51.6	(±8.1)
Never Married	85.6	(±3.9)	63.3	(±4.9)
Education				
Less Than HS Diploma	93.8	(±2.8)	62.9	(±6.1)
High School Diploma	73.3	(±5.3)	61.2	(±5.9)
Some College	62.7	(±3.1)	59.3	(±4.8)
Bachelor Degree or Higher	19.2	(±2.8)	44.1	(±7.1)
Employment Status				
Employed	46.2	(±2.0)	62.9	(±3.6)
Unemployed	87.0	(±6.9)	61.2	(±11.6)
Not in Labor Force	66.5	(±4.3)	59.3	(±6.0)
Health Insurance				
Private Only	28.3	(±2.1)	52.0	(±6.0)
Public Only	99.6	(±0.7)	63.5	(±5.0)
Public & Private	82.3	(±6.5)	55.7	(±10.0)
None	83.5	(±4.0)	61.0	(±5.7)
Nativity / Citizenship				
Native Born	47.3	(±1.8)	52.0	(±3.4)
Foreign Born, Citizen	54.8	(±9.3)	63.5	(±12.7)
Foreign Born, Not Citizen	82.5	(±4.5)	55.7	(±6.8)
English Language Skills				
Speaks Only English or Well	49.8	(±1.7)	57.5	(±3.1)
Does Not Speak English or Not Well	94.3	(±6.7)	68.8	(±10.0)

Sources: Colorado WIC administrative records (2012-2013) linked to 1-year American Community Survey data (2013). Note: A margin of error (95%) for each estimate is provided in parentheses in the column labeled ME. A "." in a given cell denotes sample size for that cell does not meet minimum size requirements for disclosure.

Table 1c. Colorado WIC Modeled Eligibility Rates and Participation (of Eligible) Rates (%) by Household Characteristics, Infants and Children, 2013.

	Eligibility		Participation (of Eligible)	
	Estimate	ME	Estimate	ME
Total	52.0	(±1.7)	58.5	(±3.0)
Family Income below Federal Poverty Thresholds				
<=100% Poverty Threshold	97.1	(±1.8)	58.1	(±5.0)
100<=145% Poverty Threshold	99.1	(±1.1)	60.5	(±6.7)
145<=185% Poverty Threshold	94.3	(±3.5)	53.4	(±7.5)
>185% Poverty Threshold	21.5	(±2.2)	60.5	(±5.0)
Size				
2-3 persons	48.8	(±3.5)	56.6	(±5.3)
4 persons	42.4	(±3.7)	60.0	(±5.5)
5 persons	56.5	(±4.7)	61.9	(±7.0)
6+ persons	72.8	(±4.6)	55.4	(±5.7)
Structure Type				
Married Couple	37.6	(±2.4)	58.8	(±4.6)
Single Parent	79.3	(±3.5)	57.9	(±6.0)
Single w/ Partner	77.1	(±6.8)	59.6	(±8.9)
Other	88.9	(±3.6)	57.4	(±6.2)
Locale Type				
Urban	52.2	(±1.9)	58.7	(±3.2)
Rural	49.8	(±5.9)	55.9	(±8.3)
Military / Veteran Status of Occupants				
Not Active Military or Veteran	52.4	(±1.8)	57.9	(±3.0)
Active Military or Veteran	48.9	(±5.6)	62.4	(±9.3)

Sources: Colorado WIC administrative records (2012-2013) linked to 1-year American Community Survey data (2013). Note: A margin of error (95%) for each estimate is provided in parentheses in the column labeled ME. A "." in a given cell denotes sample size for that cell does not meet minimum size requirements for disclosure.

Table 2a. Colorado WIC Modeled Eligible, Participant, and Non-Participant Population Distributions (%) by Infant and Child Characteristics, Infants and Children, 2013.

	Eligible		Participants		Non-Participants	
	Estimate	ME	Estimate	ME	Estimate	ME
Total	100.0	-	100.0	-	100.0	-
Age						
0	18.9	(±2.0)	20.6	(±2.6)	16.7	(±3.1)
1	21.1	(±2.2)	24.0	(±3.4)	17.0	(±3.4)
2	21.0	(±2.0)	22.8	(±2.8)	18.4	(±3.3)
3	20.0	(±2.3)	18.2	(±3.0)	22.5	(±3.6)
4	19.0	(±1.7)	14.5	(±2.2)	25.5	(±3.1)
Race / Hispanic Origin						
Non-Hispanic White alone	39.1	(±2.3)	33.3	(±3.3)	47.2	(±3.9)
Non-Hispanic Black alone	6.0	(±1.1)	6.8	(±1.9)	5.0	(±2.0)
Non-Hispanic AIAN* alone	0.7	(±0.4)	.	.	.	.
Non-Hispanic Asian alone	1.3	(±0.6)	1.5	(±0.8)	1.2	(±0.9)
Other Non-Hispanic	5.0	(±1.2)	4.3	(±1.6)	5.8	(±2.1)
Hispanic	47.9	(±2.4)	53.7	(±3.6)	39.7	(±3.9)
Migration in Past Year						
No Migration or Age 0	77.4	(±2.3)	76.8	(±3.2)	78.2	(±3.4)
Intra-State Migration	18.9	(±2.2)	20.6	(±3.2)	16.6	(±3.3)
Inter-State or Intl Migration	3.7	(±1.1)	2.6	(±1.4)	5.2	(±2.0)

Sources: Colorado WIC administrative records (2012-2013) linked to 1-year American Community Survey data (2013). Note: A margin of error (95%) for each estimate is provided in parentheses in the column labeled ME. A "." in a given cell denotes sample size for that cell does not meet minimum size requirements for disclosure. * American Indian or Alaska Native

Table 2b. Colorado WIC Modeled Eligible, Participant, and Non-Participant Population Distributions (%) by Parent Characteristics, Infants and Children, 2013.

	Eligible		Participants		Non-Participants	
	Estimate	ME	Estimate	ME	Estimate	ME
Total	100.0	-	100.0	-	100.0	-
Age						
<25	23.0	(±2.8)	25.5	(±3.5)	19.4	(±4.0)
25 to 34	51.3	(±3.2)	51.6	(±4.4)	50.9	(±5.0)
35 to 44	20.3	(±2.4)	17.0	(±3.4)	25.0	(±3.8)
45+	5.4	(±1.2)	5.9	(±1.7)	4.8	(±1.7)
Sex						
Male	39.8	(±3.2)	40.7	(±4.0)	38.6	(±5.1)
Female	60.2	(±3.2)	59.3	(±4.0)	61.4	(±5.1)
Marital Status						
Married	56.7	(±3.3)	55.7	(±4.1)	58.1	(±4.9)
Widowed, Divorced, Separated	12.9	(±2.1)	11.4	(±2.3)	15.0	(±3.4)
Never Married	30.4	(±2.9)	32.9	(±3.9)	26.9	(±4.3)
Education						
Less Than HS Diploma	22.8	(±3.0)	24.5	(±4.0)	20.3	(±4.0)
High School Diploma	25.6	(±2.8)	26.8	(±3.9)	23.9	(±3.4)
Some College	37.6	(±3.1)	38.1	(±4.0)	36.8	(±4.3)
Bachelor Degree or Higher	14.1	(±2.3)	10.6	(±2.7)	19.0	(±3.2)
Employment Status						
Employed	67.6	(±3.3)	69.4	(±4.1)	65.1	(±4.9)
Unemployed	6.7	(±1.3)	6.2	(±1.7)	7.5	(±2.3)
Not in Labor Force	25.7	(±3.0)	24.4	(±3.7)	27.4	(±4.4)
Health Insurance						
Private Only	33.9	(±2.9)	30.1	(±3.9)	39.1	(±5.0)
Public Only	33.9	(±3.3)	36.8	(±3.9)	29.7	(±4.8)
Public & Private	6.5	(±1.5)	6.2	(±1.9)	6.9	(±1.9)
None	25.8	(±2.5)	26.9	(±3.3)	24.2	(±4.3)
Nativity / Citizenship						
Native Born	75.4	(±2.4)	71.7	(±3.5)	80.7	(±3.5)
Foreign Born, Citizen	5.3	(±1.5)	5.8	(±2.1)	4.7	(±1.8)
Foreign Born, Not Citizen	19.2	(±2.3)	22.6	(±3.5)	14.6	(±3.3)
English Language Skills						
Speaks Only English or Well	91.3	(±1.9)	89.7	(±2.7)	93.4	(±2.3)
Does Not Speak English or Not Well	8.7	(±1.9)	10.3	(±2.7)	6.6	(±2.3)

Sources: Colorado WIC administrative records (2012-2013) linked to 1-year American Community Survey data (2013). Note: A margin of error (95%) for each estimate is provided in parentheses in the column labeled ME. A "." in a given cell denotes sample size for that cell does not meet minimum size requirements for disclosure.

Table 2c. Colorado WIC Modeled Eligible, Participant, and Non-Participant Population Distributions (%) by Household Characteristics, Infants and Children, 2013.

	Eligible		Participants		Non-Participants	
	Estimate	ME	Estimate	ME	Estimate	ME
Total	100.0	-	100.0	-	100.0	-
Family Income below Federal Poverty Thresholds						
<=100% Poverty Threshold	36.4	(±3.1)	36.2	(±3.8)	36.8	(±4.9)
100<=145% Poverty Threshold	22.8	(±2.4)	23.6	(±3.4)	21.7	(±3.8)
145<=185% Poverty Threshold	16.1	(±2.7)	14.7	(±3.2)	18.1	(±3.9)
>185% Poverty Threshold	24.7	(±2.6)	25.5	(±3.3)	23.5	(±3.5)
Size						
2-3 persons	26.2	(±2.8)	25.3	(±3.6)	27.3	(±4.2)
4 persons	29.4	(±3.2)	30.2	(±4.5)	28.4	(±4.0)
5 persons	21.7	(±2.5)	23.0	(±3.2)	19.9	(±3.9)
6+ persons	22.8	(±2.3)	21.6	(±2.7)	24.5	(±3.8)
Structure Type						
Married Couple	48.9	(±3.4)	49.2	(±4.3)	48.5	(±4.7)
Single Parent	22.4	(±2.5)	22.2	(±3.1)	22.7	(±3.9)
Single w/ Partner	11.4	(±2.1)	11.6	(±2.7)	11.1	(±3.0)
Other	17.2	(±2.3)	16.9	(±3.3)	17.7	(±2.8)
Locale Type						
Urban	90.8	(±1.4)	91.2	(±2.0)	90.3	(±2.2)
Rural	9.2	(±1.4)	8.8	(±2.0)	9.7	(±2.2)
Military / Veteran Status of Occupants						
Not Active Military or Veteran	87.0	(±1.7)	86.2	(±2.9)	88.2	(±2.5)
Active Military or Veteran	13.0	(±1.7)	13.8	(±2.9)	11.8	(±2.5)

Sources: Colorado WIC administrative records (2012-2013) linked to 1-year American Community Survey data (2013). Note: A margin of error (95%) for each estimate is provided in parentheses in the column labeled ME. A "." in a given cell denotes sample size for that cell does not meet minimum size requirements for disclosure.

Table 3a. Colorado WIC Women Participants per 1,000 Population and Population Distributions (%) by Demographic Characteristics, Females Ages 15+, 2013.

	Participation per 1,000 Pop		Distribution	
	Estimate	ME	Estimate	ME
Total	15.7	(±1.6)	100.0	-
Age				
<25	35.9	(±5.4)	38.5	(±4.9)
25 to 34	38.2	(±5.8)	44.8	(±5.0)
35 to 44	13.1	(±3.6)	14.3	(±3.5)
45+	0.8	(±0.6)	2.4	(±1.9)
Race / Hispanic Origin				
Non-Hispanic White alone	8.9	(±1.3)	40.9	(±4.3)
Non-Hispanic Black alone	38.5	(±11.1)	9.2	(±2.6)
Non-Hispanic AIAN* alone	.	.	.	.
Non-Hispanic Asian alone	9.7	(±5.9)	1.7	(±1.1)
Other Non-Hispanic	15.4	(±10.8)	2.2	(±1.5)
Hispanic	38.7	(±4.8)	45.6	(±3.7)
Migration in Past Year				
No Migration or Age 0	11.5	(±1.4)	58.9	(±5.4)
Intra-State Migration	40.8	(±7.0)	38.9	(±5.2)
Inter-State or Intl Migration	7.3	(±4.6)	2.2	(±1.4)
Marital Status				
Married	13.6	(±2.1)	43.5	(±5.0)
Widowed, Divorced, Separated	9.3	(±2.7)	11.0	(±3.1)
Never Married	22.8	(±3.5)	45.4	(±5.5)
Education				
Less Than HS Diploma	29.3	(±5.4)	26.8	(±4.4)
High School Diploma	20.3	(±4.0)	27.4	(±4.2)
Some College	18.5	(±2.5)	37.5	(±4.3)
Bachelor Degree or Higher	4.0	(±1.1)	8.3	(±2.2)
Employment Status				
Employed	12.4	(±1.7)	49.1	(±4.8)
Unemployed	27.1	(±9.3)	8.1	(±2.7)
Not in Labor Force	20.3	(±3.0)	42.8	(±4.8)
Health Insurance				
Private Only	6.7	(±1.0)	25.2	(±3.4)
Public Only	51.6	(±7.4)	47.8	(±5.4)
Public & Private	6.7	(±2.9)	5.0	(±2.1)
None	22.8	(±4.6)	22.0	(±3.7)
Nativity / Citizenship				
Native Born	13.6	(±1.6)	77.7	(±4.1)
Foreign Born, Citizen	16.2	(±5.7)	4.9	(±1.8)
Foreign Born, Not Citizen	46.6	(±10.2)	17.4	(±3.8)
English Language Skills				
Speaks Only English or Well	14.6	(±1.5)	90.1	(±3.2)
Does Not Speak English or Not Well	47.9	(±16.5)	9.9	(±3.2)

Sources: Colorado WIC administrative records (2012-2013) linked to 1-year American Community Survey data (2013). Note: A margin of error (95%) for each estimate is provided in parentheses in the column labeled ME. A "." in a given cell denotes sample size for that cell does not meet minimum size requirements for disclosure. * American Indian or Alaska Native

Table 3b. Colorado WIC Women Participants per 1,000 Population and Population Distributions (%) by Household Characteristics, Females Ages 15+, 2013.

	Participation per 1,000 Pop		Distribution	
	Estimate	ME	Estimate	ME
Total	15.7	(±1.6)	100.0	-
Family Income below Federal Poverty Thresholds				
<=100% Poverty Threshold	48.7	(±6.6)	44.7	(±4.2)
100<=145% Poverty Threshold	38.7	(±7.7)	17.4	(±3.3)
145<=185% Poverty Threshold	22.9	(±6.8)	9.2	(±2.6)
>185% Poverty Threshold	6.2	(±1.1)	28.7	(±4.0)
Size				
1-3 persons	7.5	(±1.4)	31.7	(±4.9)
4 persons	25.2	(±5.0)	27.6	(±4.8)
5 persons	39.0	(±8.8)	20.2	(±4.4)
6+ persons or GQ	39.2	(±7.9)	20.4	(±3.7)
Structure Type				
Married Couple	11.8	(±1.8)	41.2	(±4.5)
Single Parent	31.8	(±5.9)	25.5	(±3.8)
Single w/ Partner	72.6	(±21.3)	11.3	(±3.2)
Other	11.4	(±2.1)	22.1	(±3.9)
Locale Type				
Urban	16.6	(±1.6)	90.0	(±2.5)
Rural or Group Quarters	10.4	(±3.0)	10.0	(±2.5)
Military / Veteran Status of Occupants				
Not Active Military or Veteran	17.1	(±1.7)	85.4	(±3.6)
Active Military or Veteran	10.4	(±2.9)	14.6	(±3.6)

Sources: Colorado WIC administrative records (2012-2013) linked to 1-year American Community Survey data (2013). Note: A margin of error (95%) for each estimate is provided in parentheses in the column labeled ME. A "." in a given cell denotes sample size for that cell does not meet minimum size requirements for disclosure.

Table 4. Colorado Average Annual WIC Modeled Eligibility Rates and Participation (of Eligible) Rates (%) by County, Infants and Children, 2013-2014.

	Eligibility		Participation (of Eligible)	
	Estimate	ME	Estimate	ME
State Total	52.6	(±1.2)	56.8	(±2.1)
County				
Adams	63.1	(±4.0)	64.8	(±5.4)
Alamosa	69.1	(±17.6)	49.7	(±25.3)
Arapahoe	54.9	(±3.6)	56.0	(±6.1)
Archuleta	90.6	(±11.9)	.	.
Baca	.	.	.	.
Bent	79.9	(±14.3)	.	.
Boulder	41.5	(±5.3)	54.2	(±9.4)
Broomfield	19.3	(±8.5)	50.9	(±21.8)
Chaffee	.	.	.	.
Cheyenne	.	.	.	.
Clear Creek	49.6	(±27.2)	.	.
Conejos	85.8	(±15.3)	54.2	(±15.5)
Costilla	.	.	.	.
Crowley	.	.	.	.
Custer	.	.	.	.
Delta	54.3	(±26.1)	43.0	(±27.3)
Denver	56.2	(±3.1)	54.2	(±5.8)
Dolores	.	.	.	.
Douglas	18.1	(±4.4)	22.6	(±9.6)
Eagle	.	.	.	.
El Paso	56.0	(±4.2)	63.0	(±5.0)
Elbert	46.5	(±20.0)	53.5	(±20.0)
Fremont	76.2	(±15.8)	65.7	(±23.7)
Garfield	53.0	(±14.4)	48.9	(±20.9)
Gilpin	.	.	.	.
Grand	.	.	.	.
Gunnison	52.8	(±23.8)	.	.
Hinsdale	.	.	.	.
Huerfano	.	.	.	.
Jackson	.	.	.	.
Jefferson	38.0	(±3.5)	49.3	(±8.1)
Kiowa	.	.	.	.
Kit Carson	70.6	(±19.1)	79.9	(±21.6)

(continued next page)

Sources: 2013-2014 ACS linked with 2012-2014 WIC Administrative Records. Note: A margin of error (95%) for each estimate is provided in parentheses in the column labeled ME. A "." in a given cell denotes sample size for that cell does not meet minimum size requirements for disclosure. State total eligibility and participation rates and their respective margins of error above correspond to the average over 2013-2014 and thus may differ from the rates and MEs stated in Tables 1a-2c.

Table 4 (continued). Colorado Average Annual WIC Modeled Eligibility Rates and Participation (of Eligible) Rates (%) by County, Infants and Children, 2013-2014.

	Eligibility		Participation (of Eligible)	
	Estimate	ME	Estimate	ME
State Total	52.6	(±1.2)	56.8	(±2.1)
County				
La Plata	41.9	(±13.5)	47.6	(±18.4)
Lake	.	.	.	.
Larimer	45.3	(±7.4)	41.6	(±10.4)
Las Animas	73.5	(±18.1)	.	.
Lincoln	.	.	.	.
Logan	89.5	(±9.4)	79.8	(±19.3)
Mesa	65.8	(±9.9)	61.6	(±12.5)
Mineral	.	.	.	.
Moffat	.	.	.	.
Montezuma	76.1	(±22.3)	48.4	(±23.1)
Montrose	81.9	(±13.2)	83.5	(±11.5)
Morgan	76.7	(±14.5)	79.6	(±12.5)
Otero	92.4	(±9.8)	71.1	(±15.2)
Ouray	.	.	.	.
Park	.	.	.	.
Phillips	.	.	.	.
Pitkin	.	.	.	.
Prowers	60.1	(±26.7)	62.2	(±25.5)
Pueblo	78.1	(±6.2)	65.6	(±8.1)
Rio Blanco	18.5	(±19.3)	.	.
Rio Grande	87.6	(±9.1)	71.5	(±26.2)
Routt	38.2	(±25.2)	.	.
Saguache	.	.	.	.
San Juan	.	.	.	.
San Miguel	.	.	.	.
Sedgwick	.	.	.	.
Summit	.	.	.	.
Teller	34.5	(±28.0)	.	.
Washington	51.2	(±31.3)	.	.
Weld	53.4	(±4.1)	52.3	(±8.6)
Yuma	95.2	(±6.7)	55.6	(±23.6)

Sources: 2013-2014 ACS linked with 2012-2014 WIC Administrative Records. Note: A margin of error (95%) for each estimate is provided in parentheses in the column labeled ME. A "." in a given cell denotes sample size for that cell does not meet minimum size requirements for disclosure. State total eligibility and participation rates and their respective margins of error above correspond to the average over 2013-2014 and thus may differ from the rates and MEs stated in Tables 1a-2c.